

DENIOS

**ENVIRONMENTAL PROTECTION
& WORK SAFETY**



**DENIOS – WE PROTECT LIVES
AND THE ENVIRONMENT.**

800-216-7776 | WWW.DENIOS-US.COM/SHOP

HAZARDOUS MATERIALS STORAGE | INDUSTRIAL ENVIRONMENTAL PROTECTION | WORKPLACE HEALTH AND SAFETY

A man with dark hair, smiling, wearing a blue suit jacket over a white shirt. He is standing in front of a large window that looks out onto an industrial facility with complex machinery and structures. The lighting is bright, and the overall tone is professional and positive.

WE PROVIDE SAFETY. EXPERIENCE. QUALITY. PRODUCT CHOICE.

As a family business, we have been concerned about the safety of people and the protection of the environment for more than 35 years. The result: as a developer and manufacturer, we offer the largest range in the field of operational environmental protection, work safety, and safety-relevant operational equipment. Over 12,000 items to give our customers and their employees worldwide optimum protection and safety at every stage of their work. Discover the right products and innovative solutions for your requirements on the following pages – or visit our online shop. Of course, we can also advise you in person, so feel free to get in touch!

A stylized blue ink signature of Diego Rodriguez.

Diego Rodriguez
President / CEO



MANUFACTURED IN THE USA

DENIOS, YOUR PARTNER IN SAFETY AND ENVIRONMENTAL PROTECTION

Working directly with our customers we help assess risks and provide solutions for the safe storage and containment of hazardous chemicals and processes. Our experts will also be happy to meet you personally on site for consultations and needs analyses. We will identify your individual requirements, and profile together the appropriate products to meet your unique needs.

DENIOS DELIVERS

- ✓ **Quality, Performance, and Compliance**-products designed, manufactured and shipped directly from our plant
- ✓ **Expertise and Responsiveness**- a team of Technical Sales and Engineering Staff available for expert consultation
- ✓ **Customized Solutions**- standard and custom engineered solutions for any application
- ✓ **A Complete Program of Chemical Storage and Containment Solutions**

DENIOS ENGINEERING PROVIDES YOU

A complete understanding of hazardous chemicals and chemical processes. Our Technical Sales and Engineering Staff know specific chemicals and the risks they pose to facilities, personnel, and the environment. They will work with you every step of the way in designing a safe storage solution for your individual applications.

Expertise in helping you meet applicable laws and regulations. DENIOS not only knows the regulations, we work directly with leading insurers, risk managers,

and government authorities in developing new equipment or setting performance standards for existing designs and construction. We will work with you in meeting Federal standards as well as those of your local authorities, helping make sure your DENIOS products are in complete compliance. When we put a DENIOS label on your product it's to let you know we stand behind what we design and manufacture, and that we're here for you well after the sale is completed.



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NEW PRODUCTS FROM DENIOS:

Spill Containment Sumps for the safe storage of IBC Totes



Spill Containment Sumps for the safe storage of Drums



Fire-Rated Buildings for storing Drums, IBC-Totes or Batteries



Walk-In Storage Buildings, fire-rated



KEEPING WORKERS SAFE ALL YEAR ROUND.

Safe working with FALCON Immersion Tanks



Full-Size Funnel for IBC Totes



Sampler for liquids and powder / granules



Bollards with Chain slots



1



When it comes to Chemical Containment Storage, DENIOS is the expert. We have over 30 years of experience meeting & exceeding our customer's needs while staying within budget and delivering a quality product on time. Call us today to see how we can help with all your chemical storage needs

Spill containment pallets safeguard against unintentional spills as well as leaks.

DENIOS provides secondary containment options that adhere to OSHA in addition to EPA standards. Guard your area and staff against the conceivable hazards brought on when main liquid storage containers seep or become ruptured.

Hazardous material storage

10 IBC Tote Spill Containment
Pallets

26 Drum Spill Containment
Sumps

40 Transport & Stacking Pallets

44 Spill Carts

48 Drum Dispensing Stations

52 Spill Decking

58 Drum and IBC Racks with spill
containment sumps

70 Shelving

72 PolyStore Chemical Cabinets

76 FM-Approved Safety Fire-
Rated Safety Cabinets

86 Storage Lockers for Drums
and IBC Totes

100 Non-Occupancy Storage
Buildings

112 Occupancy Storage Buildings



Containment Pallets for up to 3 IBC Totes

Safely store hazardous chemicals in IBC Totes over a compliant spill sump. Our multiple tote designs offer you the flexibility to choose the right sump for your application.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage -Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel
- Solidly welded, all-steel construction for extended life
- Feet for easy forklift access
- Storage platforms are made from galvanized steel and removable



SPCC
COMPLIANT



Painted Steel, Galvanized and Poly models are available

Storage platforms are made from galvanized steel and removable

Compliant spill containment sump

Feet for easy forklift access



Storage Capacity	2 IBC or 8 Drums (55 gal.)
Pallet Material	Painted Steel
External Dimensions W x D x H (in)	113 x 54 x 22
Sump Capacity [gal]	385
Total Load Capacity [lbs]	10,000
Shipping Weight [lbs]	700
Order number* - Painted	K19-3123-U2

*All models are available with drains.

This configuration allows spill-compliant storage for drums or smaller containers being dispensed into thus adding efficiency and convenience.

SpillGuard Leak Recognition System

- Designed for use with all essential and common liquid hazardous substances
- Intelligent, robust sensor technology in a highly resistant, electrically conductive housing guarantees simple and safe commissioning and use.
- Simple installation: put into position, switch on, stay safe!
- A regular visual signal (red LED) shows that the unit is operating safely over its entire life span.
- An audible signal lets you know in good time when SpillGuard® has reached the end of its life (up to 5 years) so you can replace it.
- Developed for long-term use - explosion proofed
- An audible and visual alarm is given for a minimum of 24 hours when contact is made with a liquid or a hazardous substance.
- Temperature ranges from 32 °F to 104 °F

INNOVATION



Order no.

Containment Pallets for 1 IBC Tote

Safely store hazardous chemicals in IBC Totes over a compliant spill sump. Our multiple tote designs offer you the flexibility to choose the right sump for your application.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage -Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel
- Solidly welded, all-steel construction for extended life
- Feet for easy forklift access



For compact use of floor space - use our 33" high pallets and the lower profile design of our 28" high pallets provides easy access to both the IBC and the sump.



IBC Tote Containment Sump, painted, for storing 1 IBC
Order no. K19-3122-U2



IBC Tote Containment Sump, galvanized, for storing 1 IBC
Order no. K19-1122-U2

Pallet Material	Painted Steel	Galvanized Steel
Platform	Galvanized	Galvanized
External Dimensions W x D x H (in)	57 x 55 x 44	57 x 55 x 44
Sump Capacity [gal]	385	385
Total Load Capacity [lbs]	5,000	5,000
Shipping Weight [lbs]	585	615
Order number*	K19-3122-U2	K19-1122-U2

*All models are available with drains.

Spill Containment Pallets

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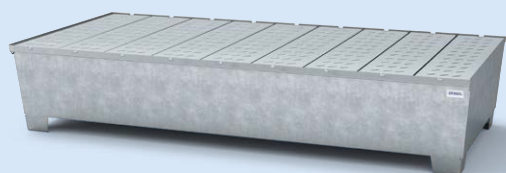
Containment Pallets for up to 3 IBC Totes

Safely store hazardous chemicals in IBC Totes over a compliant spill sump. Our multiple tote designs offer you the flexibility to choose the right sump for your application.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel
- Solidly welded, all-steel construction for extended life
- Feet for easy forklift access
- Storage platforms are made from galvanized steel and removable



IBC Tote Containment Sump, painted, for storing 2 IBC
Order no. K19-3123-U2



IBC Tote Containment Sump, galvanized, for storing 2 IBC
Order no. K19-1123-U2



IBC Tote Containment Sump, painted, for storing 3 IBC
Order no. K19-3181-U2

Storage Capacity	2 IBC or 8 Drums (55 gal.)		3 IBC or 12 Drums (55 gal.)	
	Painted Steel	Galvanized Steel	Painted Steel	Galvanized Steel
Pallet Material	113 x 54 x 22		180 x 53 x 20	
External Dimensions W x D x H (in)	113 x 54 x 22		180 x 53 x 20	
Sump Capacity [gal]	385	385	575	575
Total Load Capacity [lbs]	10,000	10,000	15,000	15,000
Shipping Weight [lbs]	700	745	1,115	1,100
Order number*	K19-3123-U2	K19-1123-U2	K19-3181-U2	K19-1181-U2

*All models are available with drains.

Dispensing Platforms for 1 IBC Tote

Safely dispense of hazardous chemicals in Intermediate Bulk Containers (IBC Totes) over a compliant spill platform. Several variations and designs offer you the flexibility to choose the right version for your application.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel
- Solidly welded, all steel construction for extended life
- Feet for easy forklift access
- Storage platforms are made from galvanized steel and removable
- Dispensing stand elevates IBC Totes and slopes them forward 3 degrees for efficient dispensing
- Splashguard protects workers and surrounding areas from dangerous chemicals

IBC Tote Containment Sump with filling area, painted, for 1 IBC.
Order no. K19-3156-U2



IBC Tote Containment Platform, painted, with galvanized stand and splash guard
Order no. K19-8002-U2



IBC Tote Dispensing Platform, painted, with galvanized stand
Order no. K19-8003-U2

Version	Single IBC - Platform	Single IBC - Platform + Stand	Single IBC - Platform + Stand + Splash Guard
External Dimensions W x D x H (in)	59 x 73 x 30	59 x 73 x 51	59 x 73 x 76
Sump Capacity [gal]	385	385	385
Total Load Capacity [lbs]	5,000	5,000	5,000
Shipping Weight [lbs]	600	720	900
Order number*	K19-3156-U2	K19-8003-U2	K19-8002-U2

*All models are available with drains.

HazMat racking & sump combinations

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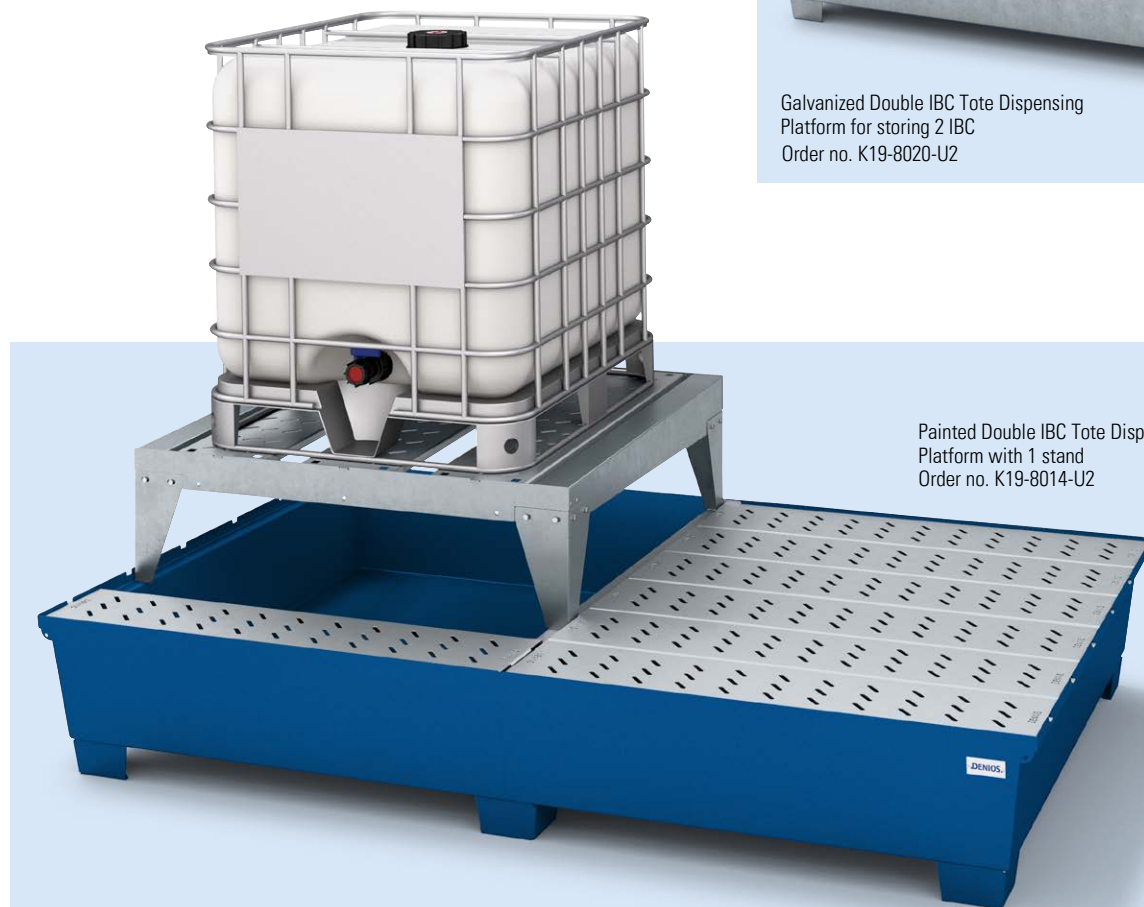
Dispensing Platforms for 2 IBC Totes

Safely dispense of hazardous chemicals in Intermediate Bulk Containers (IBC Totes) over a compliant spill platform. Several variations and designs offer you the flexibility to choose the right version for your application.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel
- Solidly welded, all-steel construction for extended life
- Feet for easy forklift access
- Storage platforms are made from galvanized steel and removable
- Use any configuration of the dispensing platform, stand, and splash guard to meet your dispensing needs



Galvanized Double IBC Tote Dispensing Platform for storing 2 IBC
Order no. K19-8020-U2



Painted Double IBC Tote Dispensing Platform with 1 stand
Order no. K19-8014-U2

	Double IBC - Platform		Double IBC - Platform + Single Stand		Double IBC - Platform + 2 Stands		Double IBC - Platform + 2 Stands + Splash Guard	
Pallet Material	Painted Steel	Galvanized Steel	Painted Steel	Galvanized Steel	Painted Steel	Galvanized Steel	Painted Steel	Galvanized Steel
External Dimensions W x D x H (in)	120 x 73 x 15		120 x 73 x 36		120 x 73 x 36		120 x 73 x 61	
Sump Capacity [gal]	385	385	385	385	385	385	385	385
Total Load Capacity [lbs]	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Shipping Weight [lbs]	1,090	1,090	1,230	1,055	1,350	1,150	1,550	1,240
Order number*	K19-3171-U2	K19-1171-U2	K19-8014-U2	K19-8020-U2	K19-8015-U2	K19-8021-U2	K19-8005-U2	K19-8022-U2

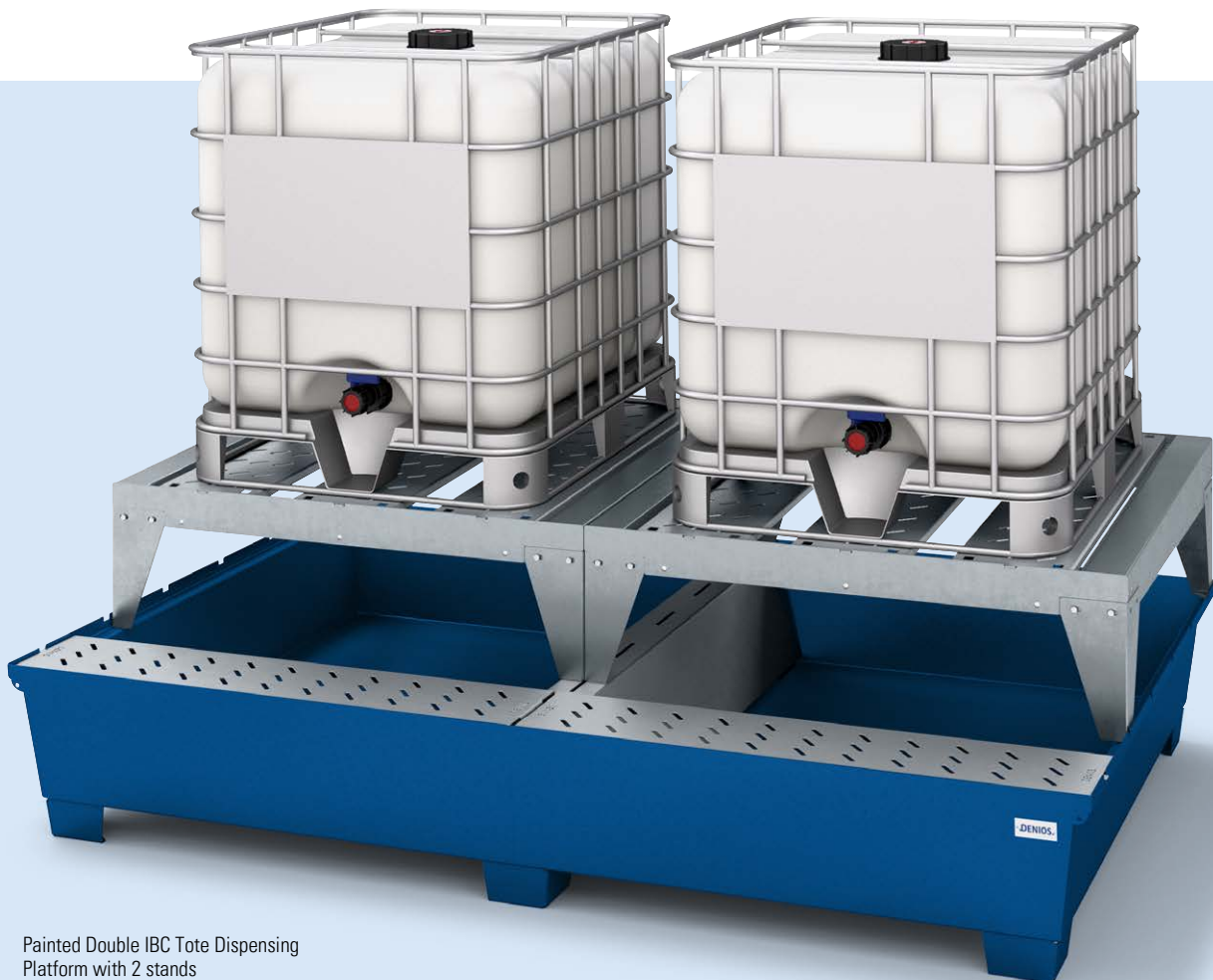
*All models are available with drains.



Galvanized Double IBC Tote Dispensing Platform with stands, and splash guard
Order no. K19-8022-U2



Painted Double IBC Tote Dispensing Platform with stands, and splash guard
Order no. K19-8005-U2



Painted Double IBC Tote Dispensing Platform with 2 stands
Order no. K19-8015-U2



Dispensing Platforms for 3 IBC Totes

Safely dispense of hazardous chemicals in Intermediate Bulk Containers (IBC Totes) over a compliant spill platform. Several variations and designs offer you the flexibility to choose the right version for your application.

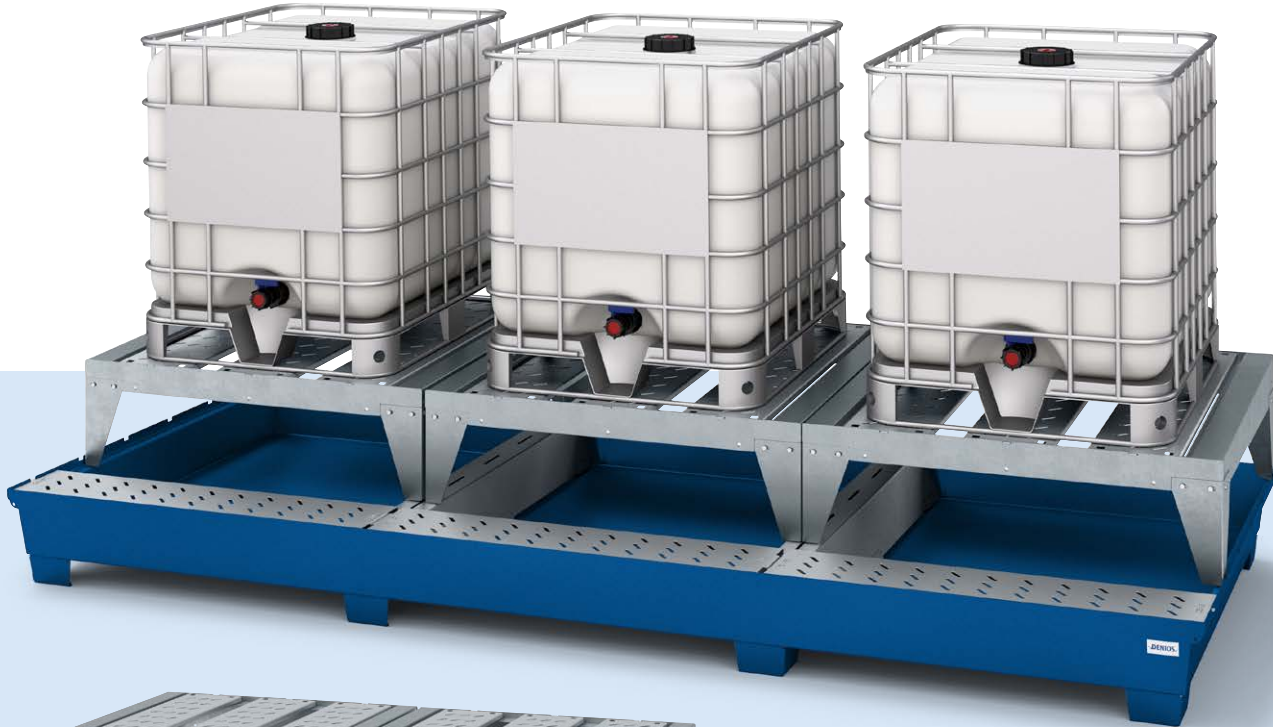
- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel
- Solidly welded, all-steel construction for extended life
- Feet for easy forklift access
- Storage platforms are made from galvanized steel and removable
- Use any configuration of the dispensing platform, stand, and splash guard to meet your dispensing needs
- Dispensing stand elevates IBC Totes and slopes them forward 3 degrees for efficient dispensing
- Splashguard protects workers and surrounding areas from dangerous chemicals



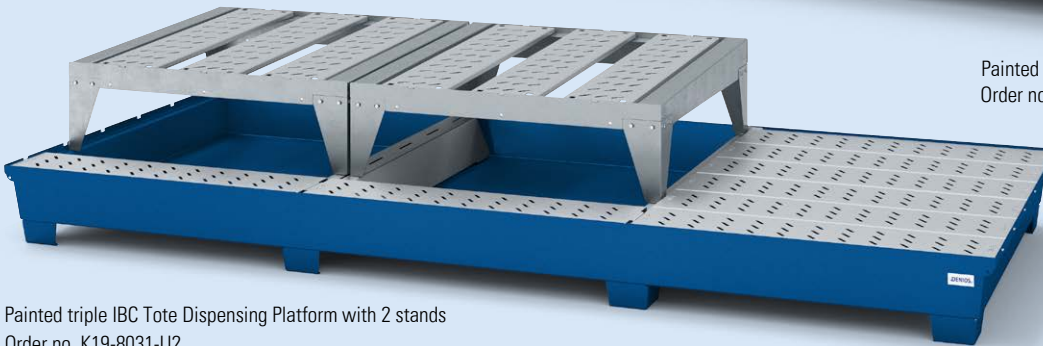
IBC Tote Containment Pallet, painted, for storing 3 IBC
Order no. K19-3180-U2

i Stay safe and compliant with a name you trust. DENIOS has everything you need for your chemical storage, dispensing, and handling needs. Our dispensing platforms for 3 IBC Totes have the same great features as all our other dispensing platforms with the additional space for one more IBC or take advantage of the space to store smaller containers.

Need splash protection? Order your dispensing station with a splashguard.



Painted triple IBC Tote Dispensing Platform with 3 stands
Order no. K19-8032-U2



Painted triple IBC Tote Dispensing Platform with 2 stands
Order no. K19-8031-U2



Version	Triple IBC - Platform	Triple IBC - Platform + Single Stand	Triple IBC - Platform + 2 Stands	Triple IBC - Platform + 3 Stands	Triple IBC - Platform + 3 Stands + Splash Guard
External Dimensions W x D x H (in)	162 x 72 x 13	162 x 72 x	162 x 72 x	162 x 72 x	162 x 72 x
Sump Capacity [gal]	385	385	385	385	385
Total Load Capacity [lbs]	15,000	15,000	15,000	15,000	15,000
Shipping Weight [lbs]	1,420	1,600	1,680	2,789	2,015
Order number* - Painted	K19-3180-U2	K19-8030-U2	K19-8031-U2	K19-8032-U2	K19-8033-U2

*All models are available with drains.



IBC Tote Platform with Dispensing Rack

Safely dispense hazardous chemicals in IBC Totes over a compliant spill platform. Several variations and designs offer you the flexibility to choose the right version for your application.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel
- Solidly welded, all-steel construction for extended life
- Feet for easy forklift access
- Any drips or spills are captured in the sump
- Dispensing Racks are sloped 3 degrees for efficient dispensing



Platform design provides safe spill-protected dispensing for IBC Totes and easy access to the sump for cleaning of spills and drips. The extra depth provided by the dispensing platform allows clearance in the front of the IBC for attachment of valves and hoses.

SpillGuard® Leak Recognition System for hazardous substances

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IBC Tote Platform with Dispensing Rack, painted
Order no. K17-3153-U2



IBC Tote Platform, painted, for 2 IBC Totes
Order no. K17-3175-U2

Optional Accessory

Dispensing Shelf

- Optional galvanized Dispensing Shelf hangs off the front lip of the sump, providing a secure, stable platform to place containers

Order no. K17-1935-U2



Description	Single IBC Tote Dispensing Platform	Double IBC Tote Dispensing Platform
Storage Capacity	1 IBC	2 IBC
External Dimensions W x D x H (in)	54 x 73 x 40	109 x 73 x 32
Sump Capacity [gal]	385	385
Total Load Capacity [lbs]	5,000	10,000
Shipping Weight [lbs]	625	940
Order number* painted	K17-3153-U2	K17-3175-U2

*All models are available with drains.

IBC Spill Sumps with Dispensing Well

This IBC spill sumps incorporate a Dispensing Well for spill contained tote dispensing.

- Compliant Sump volumes meet EPA, OSHA, NFPA
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel
- Solidly welded, all-steel construction for extended life
- Feet for easy forklift access
- Easily removable Gratings
- Leak-proof dispensing well drains spill back into the sump
- Well has a 1-inch lip to retain small drips and splashes from entering the sump, easing cleanup
- Provides an enclosed, convenient platform for dispensing into smaller containers
- Dispensing well accommodates up to 5-gallon pails

Description	385 Gallon Sump with Dispensing Well	500 Gallon Sump with Dispensing Well
Storage Capacity	1 IBC	1 IBC
External Dimensions W x D x H (in)	79 x 53 x 30	78 x 53 x 50
Shipping Weight [lbs]	580	850
Sump Capacity [gal]	385	500
Total Load Capacity [lbs]	7,500	5,000
Order number* - Painted	K17-3124-U2	K17-3166-U2

*All models are available with drains.



IBC Spill Sumps with incorporated dispensing well
Order no. K17-3124-U2

500 Gallon High Volume IBC Tote Sumps

Use these DENIOS Sumps for safe storage of even the largest IBC Totes.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel



500 Gallon IBC Tote Sump for safe storage of 2 IBC, painted
Order no. K17-3167-U2

Storage Capacity	1 IBC	2 IBC
External Dimensions W x D x H (in)	60 x 53 x 46	120 x 53 x 26
Sump Capacity [gal]	500	500
Total Load Capacity [lbs]	7,500	15,000
Shipping Weight [lbs]	825	950
Order number* - Painted	K17-3165-U2	K17-3167-U2
Order number* - Galvanized	K17-1165-U2	K17-1167-U2

*All models are available with drains.



500 Gallon IBC Tote Sump for safe storage of 1 IBC, available painted or galvanized
Order no. K17-1165-U2



IBC Tote Stands

Raise IBC Totes to a convenient dispensing height.

- This IBC Tote Stand provides easier access for dispensing
- Allows easier access to drain valves
- Provides space for gravity dispensing into smaller containers
- Combine with DENIOS spill containment sump to collect small volume drips and spills for improved housekeeping
- Accommodates most sizes of IBC Totes
- Available in steel or in poly for acids and corrosives
- Steel units are shipped Knocked down and are easily assembled on-site



IBC Tote Stand, Steel, available with heights from 12 - 72 inches
Order no. K17-1957-U2



IBC Tote Stand, Poly
Order no. K22-0925-U2

Material	Carbon Steel						Polyethylene
External Dimensions W x D (in)	52 x 52						
Height [in]	12	24	36	48	60	72	30
Total Load Capacity [lbs]	7,500	7,500	7,500	7,500	7,500	7,500	7,000
Shipping Weight [lbs]	224	271	285	300	897	508	190
Order number	K17-1955-U2	K17-1956-U2	K17-1957-U2	K17-1958-U2	K17-1959-U2	K17-1960-U2	K22-0925-U2

Rugged, All-Purpose Totes

These totes can be stacked two high in warehouse settings and two-high for transport. UN and FDA approved.

- These economy IBC Totes are perfect for in-plant mixing and blending
- Suitable for most materials
- Totes are HDPE
- Cage is reinforced with warp-resistant tubular steel
- Features steel bottom plates allowing for 4-way forklift entry
- Steel bottom plate is suitable for shipping

Capacity [gal]	275	330
Version	Steel Base	Steel Base
External Dimensions W x D x H (in)	48 x 40 x 46	48 x 40 x 54
Shipping Weight [lbs]	132	148
Order number	M72-7845-U2	M72-7860-U2



275 gallon IBC Tote with 2" ball valve discharge and steel bottom plate
Order no. M72-7845-U2

Enclosed IBC Tote Sump

This IBC Tote Enclosed Sump is made of 11 gauge steel walls and doors to protect the tote from any punctures or damage.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel
- Solidly welded, all-steel construction for extended life
- Wide opening doors for easy placement/removal of tote
- Gas shocks allow doors to remain open during loading/unloading

Hazardous material storage



Version	Enclosed with 3 walls and doors w/ access
External Dimensions W x D x H [in]	60 x 56 x 84
Sump Capacity [gal]	385
Total Load Capacity [lbs]	5,000
Shipping Weight [lbs]	835
Order number* - Painted	K17-3862-U2

*All models are available with drains.

Storage Buildings

See page 103



These Poly Spill Sumps manufactured from environmentally friendly polyethylene (PE) are ideally suited to the storage of various acids and alkalis, as well as oils, non-flammable cleaning chemicals, etc. They have integrated pockets (W = 8.2 in) for transporting or loading by pallet truck or forklift truck.



Compact Poly Sump

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Provides compliant spill containment for the most popular sizes of IBC / Totes - up to 275 gallon capacity
- Total corrosion protection manufactured entirely from polyethylene (PE)
- Rugged integrated platform drains directly to spill sump
- Platform is easily removed to allow free access to spill sump

Storage Capacity	1 IBC
External Dimensions W x D x H (in)	50 x 50 x 49
Sump Capacity [gal]	275
Shipping Weight [lbs]	338
Total Load Capacity [lbs]	3,000
Order number - w/o Drain	K22-0125-U2
Order number - w/ Drain	K22-0126-U2



Broad Base Poly IBC Sump, with drain

- Perfect for larger IBC Totes and Poly Tanks
- IBC poly sump accommodates up to 485 gallons
- Sump and stand are 100% polyethylene for high chemical resistance to most caustic and corrosive materials
- Sump includes a drain plug for easy emptying
- Forklift pockets allow for relocation
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations

Storage Capacity	1 IBC
External Dimensions W x D x H (in)	66 x 66 x 30
Sump Capacity [gal]	485
Total Load Capacity [lbs]	7,500
Shipping Weight [lbs]	282
Order number	K22-0115-U2
Accessories	Tarp Cover
Order number	K22-2036-U2

Double IBC Poly Sump - Low Top

One of our most popular Tote Sump designs is available in polyethylene (PE). Rugged design and poly construction assures a long life even with exposure to many acids and caustics.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- The durable design provides impact and shock resistance even under high-temperature conditions
- The PE construction is great for storing acids/corrosives
- Provides compliant spill containment sump
- The IBC Poly Sump is sized to hold two, 275/330 gallon totes

Hazardous material storage

Double IBC Poly Sump - Low Top, with galvanized grating
Order no. K22-0450-U2



Multi-piece removable gratings

Seamless Spill Sump, made of environmentally friendly Polyethylene

High Load Capacity: 10,000 lbs



Double IBC Poly Sump - Low Top, with fiberglass grating
Order no. K22-0452-U2

Drum Handling Equipment

See page
138



Drum Pumps

See page
183



Tarp Covers

- Provide protection from the elements for your totes
- Durable, chemically resistant, and custom fit to the sump to prevent rainwater intrusion
- Extremely chemically resistant fabric has a long-life, even in full UV exposure
- Bungee straps along the bottom keep the tarp in place



Order no. K22-2038-U2

Tarp Cover For Double IBC Poly Sump

Storage Capacity	2 IBC	2 IBC
Grating	Galvanized	Fiberglass
External Dimensions W x D x H (in)	110 x 55 x 20	110 x 55 x 20
Sump Capacity [gal]	385	385
Total Load Capacity [lbs]	10,000	10,000
Shipping Weight [lbs]	550	
Order number - w/o Drain	K22-0450-U2	K22-0452-U2
Order number - w/ Drain	K22-0451-U2	K22-0453-U2



IBC Sump with Dispensing Well for one or two stacked IBC

Poly IBC Sump with Dispensing Well - fits all IBC Totes up to 350-gallon

- Features an integrated 5-gallon pail holder for easy and contained dispensing
- Provides fork pockets for easy relocation
- Poly construction is great for storing acids and caustics
- Center stand has removable grating and can support 8000lb load capacity
- Provides compliant spill containment
- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed

Version	Single IBC Sump with Dispensing Well
Storage Capacity	1 IBC
External Dimensions W x D x H (in)	81 x 72.5 x 29
Sump Capacity [gal]	385
Total Load Capacity [lbs]	8,000
Shipping Weight [lbs]	270
Order number - w/o Drain	K22-0430-U2
Order number - w/ Drain	K22-0431-U2

Poly IBC Spill Platform - fits all IBC Totes up to 350-gallon

- Sized for two 350-gallon totes
- Provides fork pockets for easy relocation
- Poly construction is great for storing acids and caustics
- Provides compliant spill containment
- Unique 12-piece interlocking grating system provides a strong and stable base for the totes
- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed

Version	Double IBC Poly Sump
Storage Capacity	2 IBC
External Dimensions W x D x H (in)	113 x 71 x 32
Sump Capacity [gal]	750
Total Load Capacity [lbs]	8,000
Shipping Weight [lbs]	367
Order number - w/o Drain	K22-0435-U2
Order number - w/ Drain	K22-0436-U2



Spill Platform for 2 IBC

Optional Accessory

Tarp Covers

- Provide protection from the elements for your totes
- Durable, chemically resistant, and custom fit to the sump to prevent rainwater intrusion
- Extremely chemically resistant fabric has a long-life, even in full UV exposure
- Bungee straps along the bottom keep the tarp in place

Tarp Cover for IBC Sumps with Dispensing Well,
Order no. K22-0432-U2

Tarp Cover for IBC Spill Platform,
Order no. K22-2037-U2



Double IBC Dispensing Station - fits all IBC Totes up to 350-gallon

These all-in-one Dispensing Stations provide high functionality and heavy-duty construction for long-life use at any job site. The ample sump space allows for contained dispensing into smaller vessels.

- Safe storage of hazardous materials like oils, coolants, acids, caustics, and other aggressive liquids
- Rugged construction provides impact and shock resistance even under high-temperature conditions
- Sumps provide spill containment in compliance with EPA, OSHA, and UFC requirements
- Completely sealed, seamlessly processed, 100 % liquid-tight
- Extremely stable supports molded in the bottom of the sump, allow safe storing of IBC Totes up to 330 gallons
- Four-way forkliftable
- Rust-free and easy to clean

There's even more choices in the shop!
www.denios-us.com/shop

Hazardous material storage



Dispensing Station for 2 IBC Totes

Double IBC Dispensing Station, holds two IBC Totes, without needing gratings or pallets
 Order no. K22-0455-U2

Version	Double IBC Dispensing Stations
Storage Capacity	2 IBC
External Dimensions W x D x H (in)	98 x 72 x 17.3
Sump Capacity [gal]	330
Total Load Capacity [lbs]	17,000
Order number - w/o Grating	K22-0455-U2
Order number w/ Drain	K22-0458-U2

Optional Accessory

Tarp Covers

- Provide protection from the elements for your totes
- Durable, chemically resistant, and custom fit to the sump to prevent rainwater intrusion
- Extremely chemically resistant fabric has a long-life, even in full UV exposure
- Bungee straps along the bottom keep the tarp in place



Tarp Cover for IBC Dispensing Stations,
 Order no. K22-2038-U2

Let DENIOS Help You Bring Your Chemical Storage Program Into Compliance!

As the leading manufacturer and designer of chemical containment systems, DENIOS knows how to keep you safe and compliant through our large and varied program. Whether your needs are for storing one drum, or hundreds, DENIOS has a solution.

Hazardous Material:

A chemical or substance which endangers human health or the environment, whether in a new or waste condition. Hazardous materials are designated and regulated by the EPA under EPCRA. Hazardous materials, and their reportable qualities, are found in SARA Title III.

Secondary Spill Containment Sumps:

As required by EPA, NFPA, and UFC, the containment sump or "catch basin" underlies containers storing or dispensing hazardous materials in order to prevent spills from escaping into and damaging the environment or endangering personnel within the facility. The construction must be liquid-tight, accessible for visual inspection, and compatible with the materials stored.

EPA - 40 CFR Subpart 1 - 264.175 - Containment

(a) Container storage areas must have a containment system that is designated and operated in accordance with paragraph (b)
(b) A containment system must be designed and operated as follows:

1. A base (sump) must underlie the containers which are free of cracks or gaps and are sufficiently impervious to contain leaks, spills, and accumulated precipitation until the collected material is detected and removed.
2. The containment system must be otherwise designed and operated to drain and remove liquids resulting from leaks, spills, and precipitation unless the containers are elevated or otherwise protected from contact with accumulated liquids.
3. The containment system must have sufficient capacity to contain 10% of the volume of the containers or the volume of the largest container, whichever is greater.

NFPA - 30 Section 4-6.3.5

Spill or Leakage Control Lockers shall include a spill containment system to prevent the flow of liquids from the structure under emergency conditions. The containment systems shall have sufficient capacity to contain 10 percent of the volume of containers allowed or the volume of the largest container, whichever is greater.

EPA 40 CFR 122.26 Stormwater Regulations, National Pollutant Discharge Elimination System (NPDES):

SUMMARY:

The NPDES permit program controls water pollution by regulating point sources and non-point sources that discharge pollutants into United States waters. These regulations are a key component of EPA's Clean Water Act. The goal is to protect the quality of waterways by reducing the discharge of sediment, oils, and chemicals into storm drain, surface, and ground waters. NPDES requires Minimum Control Measures to be put into place by activities in affected Urbanized Areas (UA). Visit www.epa.gov/owm (US EPA Office of Wastewater Management), Appendix 6 to determine particular affected places. This program includes the development and implementation of the Stormwater Pollution Prevention Plan (SWPPP). The SWPPP identifies Potential Sources of Pollution and Exposed Materials; a history of past spills and leaks; BMPs. Non-Structural controls (Good Housekeeping Practices, Spill Prevention, and Response); Structural controls such as Containment including Pollution Incident Prevention Plans (PIPP) and Spill Prevention, Control, and Countermeasures (SPCC) plans.



The corrosion resistance of the materials used to make the spill pallet and their compatibility with the substances stored must be demonstrated.

For many chemical substances, steel spill pallets (1.0038) may be used. For corrosive substances (acids / alkalis) in particular, the use of plastic (polyethylene) spill pallets is often required.

High levels of protection, especially against many aggressive liquids are offered by stainless steel.

If no information is given in the resistance lists, the material of the spill pallet may be the same material as the transport container.

SpillGuard Leak Recognition System

- Designed for use with all essential and common liquid hazardous substances
- Intelligent, robust sensor technology in a highly resistant, electrically conductive housing guarantees simple and safe commissioning and use.
- Simple installation: put into position, switch on, stay safe!
- A regular visual signal (red LED) shows that the unit is operating safely over its entire life span.
- An audible signal lets you know in good time when SpillGuard® has reached the end of its life (up to 5 years) so you can replace it.
- Developed for long-term use - explosion proofed
- An audible and visual alarm is given for a minimum of 24 hours when contact is made with a liquid or a hazardous substance.
- Temperature ranges from 32 °F to 104 °F

INNOVATION



Order no. M28-7500-U2

Three Steps to the Right Spill Pallet

Current regulations stipulate that secondary containment must be used during the storage and transfer of substances hazardous to water, to reduce the risk of pollution to land, surface waters, and groundwater.

A DENIOS spill pallet offers the necessary protection for storing water hazardous substances whilst maintaining a safe and clean working environment. As a supplier and manufacturer of the largest collection of spill pallets, we can assure you that we offer the right solution for every requirement. Here we tell you how to choose the optimal product for your needs:

1 Which material are you storing?

Spill pallets should be chosen from the right material because only the properly selected material ensures optimum resistance to the stored media. For the storage of water-polluting, flammable substances, such as oils and lacquers, steel spill pallets are suitable. Steel spill pallets are available in galvanized or painted versions. For the storage of aggressive chemicals such as acids and alkalis, spill pallets made of stainless steel or plastic should be used.



Plastic Spill Pallets

For water-polluting and aggressive substances such as acids and corrosives.



Steel Spill Pallets

For flammable and water polluting liquids.



Stainless-Steel:

For Alcohol substances, etc.

2 What collection volume is required?

As a rule of thumb: a spill pallet must be able to absorb 110% of the total storage quantity. Depending on whether you want to store small or various containers together, we offer quality products in every size.

3 Should special functions be fulfilled?

- Spill pallets must - depending on the application - be able to cope with different requirements. Sump trays for easy storage are often already equipped with a foot construction or integrated fork pockets, which facilitate transport with the forklift on the factory premises.
- If the sump pallet is to be transported particularly frequently, mobile drip trays specially developed for this application are recommended. Filling operations on the stored goods can be carried out particularly effectively with a filling station.
- Floor sumps protect larger areas from the penetration of hazardous liquids into the groundwater. These floor elements are ideal, thanks to extensive accessories ranging from edge fastenings to the loading ramp, for safely lining entire rooms.

Base-Line by DENIOS

The most cost-effective solution for legally compliant chemical storage. Base-Line by DENIOS is a safe starting point for getting into hazardous materials storage. We are offering simple, sturdy, and safe products, which you can rely on - at a great price.

- Meeting and exceeding EPA, OSHA, and NFPA Regulations
- Made of high quality steel, providing durability and security
- Compliant Spill Containment Sump - 100% tested and leak-free guaranteed
- Feet for 4-side forklift access
- Easily removable galvanized gratings
- Available as painted or galvanized



Spill Pallet "Base-Line" for 4 Drums, painted
Order no. K16-3103-U2



Spill Pallet "Base-Line"
for 2 Drums, painted
Order no. K16-3102-U2

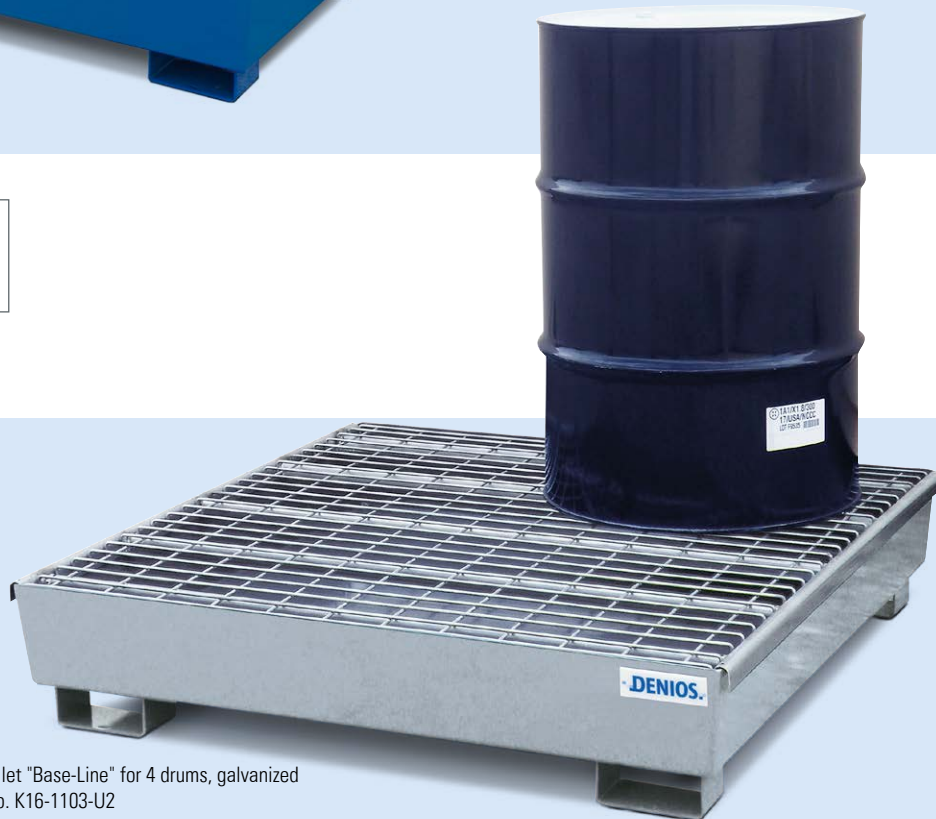


Spill Pallet "Base-Line" for
2 Drums, galvanized
Order no. K16-1102-U2



Just give us a call. We would be
pleased to provide you with advice!

» Expert advice: 1-877-388-0187



Spill Pallet "Base-Line" for 4 drums, galvanized
Order no. K16-1103-U2

Storage Capacity	2 Drums	4 Drums
External Dimensions W x D x H (in)	49 x 29 x 13	49 x 49 x 10
Sump Capacity [gal]	66	66
Total Load Capacity [lbs]	1,200	2,400
Shipping Weight [lbs]	98	142
Order number - Painted	K16-3102-U2	K16-3103-U2
Order number - Galvanized	K16-1102-U2	K16-1103-U2



Spill Containment Pallets for 1 drum

Store your drums on the spill pallet that keeps you safe. DENIOS, the leader in the industry, stands behind the quality of these spill pallets. Nobody wants a spill to happen, but rest assured if it happens, you are covered. Add a drain to any of our pallets to remove any liquid quickly & easily. The platforms grating can also be removed for access to any spills.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Solidly welded out of high-quality steel providing durability and security
- Feet provide easy forklift accessibility from all sides making transporting simple
- Storage platforms are made from galvanized steel and removable
- DENIOS Spill Pallets provide safe compliant storage solutions for your chemical needs. Steel design provides long-lasting peace of mind knowing you will get years of use.
- Easily removable platforms made of steel or stainless-steel



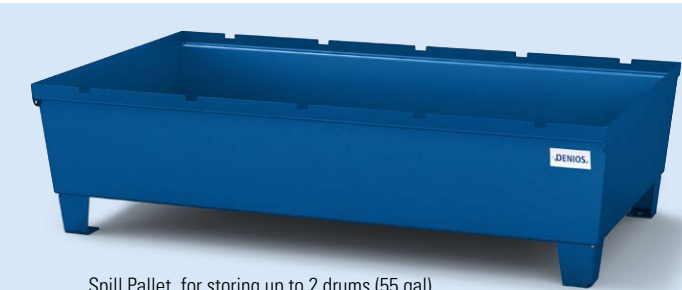
Storage Capacity* Material	1 Drum			
	Painted Steel		Galvanized Steel	
Platform	No Platform	Galvanized Platform	No Platform	Galvanized Platform
External Dimensions W x D x H (in)	37 x 34 x 19	37 x 34 x 19	37 x 34 x 19	37 x 34 x 19
Sump Capacity [gal]	66	66	66	66
Total Load Capacity [lbs]	600	600	600	600
Shipping Weight [lbs]	165	195	165	195
Order number	K19-3151-U2	K19-3101-U2	K19-1112-U2	K19-1101-U2

*All models are available with drains.

Spill Containment Pallets for 2 drums

Store your drums on the spill pallet that keeps you safe. DENIOS, the leader in the industry, stands behind the quality of these spill pallets. Nobody wants a spill to happen, but rest assured if it happens, you are covered. Add a drain to any of our pallets to remove any liquid quickly & easily. The platforms grating can also be removed for access to any spills.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Solidly welded out of high-quality steel providing durability and security
- Feet provide easy forklift accessibility from all sides making transporting simple
- Storage platforms are made from galvanized steel and removable
- DENIOS Spill Pallets provide safe compliant storage solutions for your chemical needs. Steel design provides long-lasting peace of mind knowing you will get years of use.



Spill Pallet, for storing up to 2 drums (55 gal)
Order no.



Spill Pallet, painted, with galvanized storage platform,
for storing 2 Drums with 55 gal. or smaller ones
Order no.



Spill Pallet. galvanized, with galvanized storage
platform, storing 2 drums (55 gal)
Order no. K19-1102-U2

Optional Accessory

Tarp Covers

- Provide protection from the elements for your totes
- Durable, chemically resistant, and custom fit to the sump to prevent rainwater intrusion



Order no. K22-2020-U2

Storage Capacity* Version	2 Drums			
	Painted Steel		Galvanized Steel	
Platform	No Platform	Galvanized Platform	No Platform	Galvanized Platform
External Dimensions W x D x H (in)	57 x 38 x 15	57 x 38 x 15	57 x 35 x 15	57 x 35 x 15
Sump Capacity [gal]	66	66	66	66
Total Load Capacity [lbs]	1,200	1,200	1,200	1,200
Shipping Weight [lbs]	150	98	150	98
Order number	K19-3132-U2	K19-3102-U2	K19-1113-U2	K19-1102-U2

*All models are available with drains.



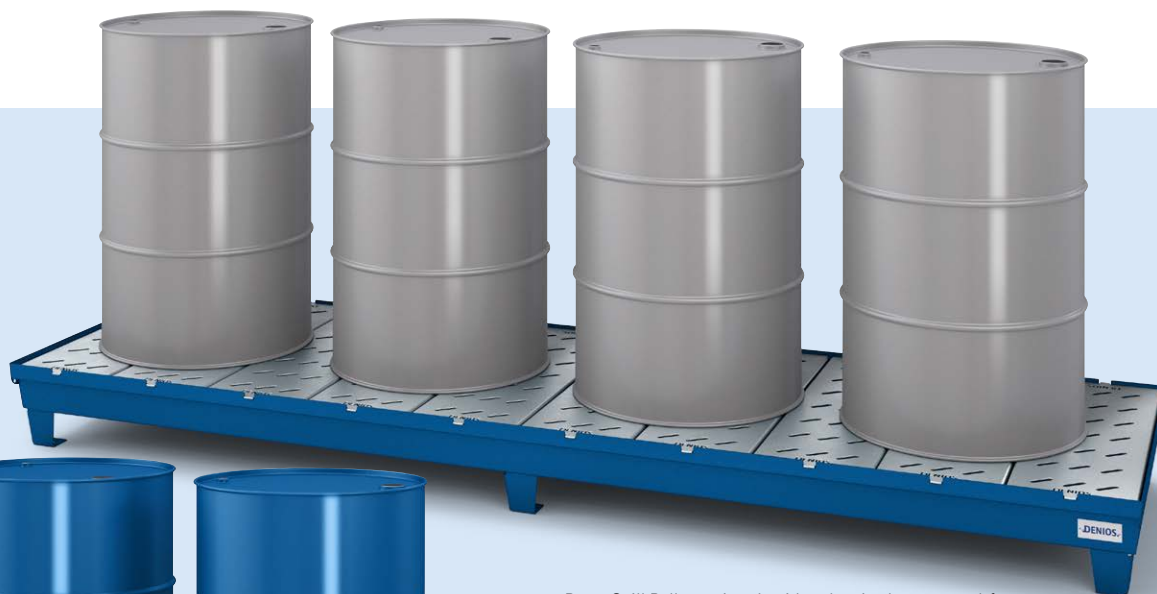
Spill Containment Pallets for up to 4 drums inline

Store your drums on the spill pallet that keeps you safe. DENIOS, the leader in the industry, stands behind the quality of these spill pallets. Nobody wants a spill to happen, but rest assured if it happens, you are covered. Add a drain to any of our pallets to remove any liquid quickly & easily. The platforms grating can also be removed for access to any spills.

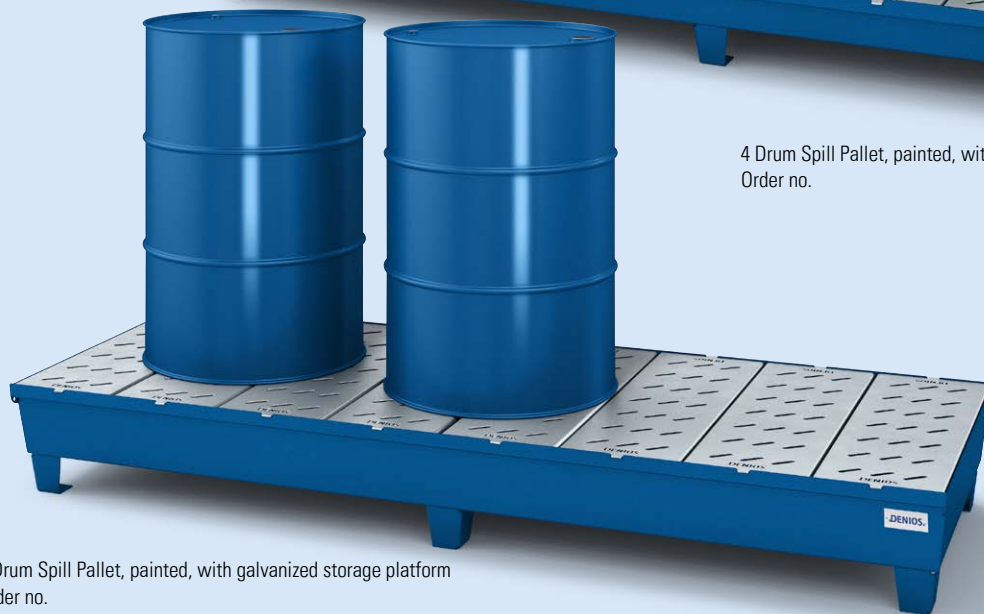
- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Solidly welded out of high-quality steel providing durability and security
- Feet provide easy forklift accessibility from all sides making transporting simple
- Easily removable platforms made of steel or stainless-steel
- DENIOS Spill Pallets provide safe compliant storage solutions for your chemical needs. Steel design provides long-lasting peace of mind knowing you will get years of use.



The compact, space-saving design of a DENIOS Inline Spill Pallet provides a solution when floor space is limited.



4 Drum Spill Pallet, painted, with galvanized storage platform
Order no.



3 Drum Spill Pallet, painted, with galvanized storage platform
Order no.

Storage Capacity*	3 Drums inline		4 Drums inline	
	Painted Steel			
Pallet Material				
Platform	No Platform	Galvanized Platform	No Platform	Galvanized Platform
External Dimensions W x D x H (in)	91 x 34 x 19		113 x 34 x 9	
Sump Capacity [gal]	74	74	98	98
Total Load Capacity [lbs]	1,800	1,800	2,400	2,400
Shipping Weight [lbs]	170	235	308	380
Order number	K19-3133-U2	K19-3100-U2	K19-3135-U2	K19-3104-U2

*All models are available with drains.

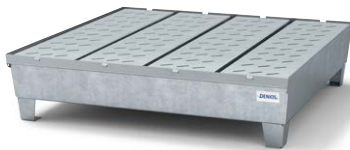
Spill containment Pallets for 4 drums

Store your drums on the spill pallet that keeps you safe. DENIOS, the leader in the industry, stands behind the quality of these spill pallets. Nobody wants a spill to happen, but rest assured if it happens, you are covered. Add a drain to any of our pallets to remove any liquid quickly & easily. The platforms grating can also be removed for access to any spills.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Solidly welded out of high-quality steel providing durability and security
- Feet provide easy forklift accessibility from all sides making transporting simple
- Storage platforms are made from galvanized steel and removable
- DENIOS Spill Pallets provide safe compliant storage solutions for your chemical needs. Steel design provides long-lasting peace of mind knowing you will get years of use.



4 Drum Spill Pallet, galvanized



4 Drum Spill Pallet, galvanized, with galvanized storage platform



4 Drum Spill Pallet, galvanized, with galvanized storage platform
Order no. K19-1103-U2



4 Drum Spill Pallet, painted, with galvanized storage platform
Order no.

Storage Capacity*	4 Drums			
	Painted Steel		Galvanized Steel	
Pallet Material				
Grating	No Platform	Galvanized Platform	No Platform	Galvanized Platform
External Dimensions W x D x H (in)	49 x 48 x 12	49 x 48 x 12	49 x 48 x 12	49 x 48 x 12
Sump Capacity [gal]	66	66	66	66
Total Load Capacity [lbs]	2,400	2,400	2,400	2,400
Shipping Weight [lbs]	198	134	198	134
Order number	K19-3134-U2	K19-3103-U2	K19-1114-U2	K19-1103-U2

*All models are available with drains.

Optional Accessory

Ramp

- The versatile design adjusts to heights of 9-11 inches
- Built tough to last in everyday use
- External Dimensions W x D x H [in] 60 x 30 x 11

Universal Sump Pallet Ramp
Order no. K17-1941-U2



Tarp Covers

- Provide protection from the elements for your totes
- Durable, chemically resistant, and custom fit to the sump to prevent rainwater intrusion

Tarp Cover for Spill Containment Pallets
Order no. K22-2040-U2





Spill Containment Pallets for up to 8 drums

Store your drums on the spill pallet that keeps you safe. DENIOS, the leader in the industry, stands behind the quality of these spill pallets. Nobody wants a spill to happen, but rest assured if it happens, you are covered. Add a drain to any of our pallets to remove any liquid quickly & easily. The platforms grating can also be removed for access to any spills.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Solidly welded out of high-quality steel providing durability and security
- Feet provide easy forklift accessibility from all sides making transporting simple
- DENIOS Spill Pallets provide safe compliant storage solutions for your chemical needs. Steel design provides long-lasting peace of mind knowing you will get years of use.
- Easily removable storage platform made of galvanized steel



The compact, space-saving design of a DENIOS Inline Spill Pallet provides a solution when floor space is limited.



8 Drum Spill Pallet, painted,
with galvanized storage platform
Order no.



6 Drum Spill Pallet, galvanized,
with galvanized storage platform
Order no. K19-1109-U2

Storage Capacity*	6 Drums		8 Drums	
	Painted Steel	Galvanized Steel	Painted Steel	Galvanized Steel
Pallet Material	Painted Steel	Galvanized Steel	Painted Steel	Galvanized Steel
External Dimensions W x D x H (in)	74 x 48 x 11	74 x 48 x 11	98 x 48 x 11	98 x 48 x 11
Sump Capacity [gal]	95	95	132	132
Total Load Capacity [lbs]	3,600	3,600	4,800	4,800
Shipping Weight [lbs]	352	310	482	482
Order number	K19-3109-U2	K19-1109-U2	K19-3105-U2	K19-1105-U2

*All models are available with drains.

Spill Containment Sumps for up to 4 Drums

DENIOS Steel Sumps provide spill containment without the extra height and expense of forklift-accessible base designs. When transport is necessary, simply place these sumps on pallets for forklift access.

- Compliance with hazmat storage regulations such as EPA, NFPA, and OSHA.
- Basic sumps without platform provide spill containment in noncritical applications
- Sumps with our exclusive platform insert position the stored products above the spill containment sump
- Solidly welded, all steel construction for extended life
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel



Storage Capacity	2 Drums		4 Drums		4 Drums Inline
	w/o Platform	w/ Platform	w/o Platform	w/ Platform	w/ Platform
Version					
External Dimensions W x D x H (in)	50 x 34 x 9	50 x 34 x 9	50 x 50 x 7	50 x 50 x 7	102 x 34 x 5
Sump Capacity [gal]	66	66	66	66	92
Total Load Capacity [lbs]	1,200	1,200	2,400	2,400	2,400
Shipping Weight [lbs]	142	212	190	265	350
Order number	K15-3001-U2	K15-3024-U2	K15-3005-U2	K15-3027-U2	K15-3029-U2



PolySafe Spill Pallets for 2 or 4 drums

New Generation of Spill Pallets with the experience of over 25 years these Spill Pallets provide high functionality and heavy duty construction for long-life use at any job site.

- Safe storage of hazardous materials like oils, coolants, acids, caustics, and other aggressive liquids
- Modern design in combination with high functionality
- Rugged construction provides impact and shock resistance even under high temperature conditions
- Secure storage - sumps are 100% tested and 100% guaranteed leak-free



Poly Safe Spill Pallet with galvanized grating



Galvanized Steel Grating



Poly Grating

HazMat racking & sump combinations

See page
66



Suitable for	2 Drums		
Version	without Grating	Galvanized Grating	Polyethylene Grating
External Dimensions W x D x H (in)	52.4 x 36.6 x 15.2	52.4 x 36.6 x 15.2	52.4 x 36.6 x 16.2
Sump Capacity [gal]	66	66	66
Total Load Capacity [lbs]	1,760	1,760	1,760
Shipping Weight [lbs]	74	107	110
Order number*	K22-1500-U2	K22-1501-U2	K22-1502-U2

*All models are available with drains.

- Completely sealed, seamlessly processed, 100% liquid-tight
- Extremely stable supports molded in the bottom of the sump, supports are used for the safe mounting of gratings or pallets
- Four-way forkliftable
- Rust-free and easy to clean
- Compliant sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations

- Sized for 2 or 4 drums up to 55 gal
- Removable gratings for easy access to the sump when cleaning becomes necessary
- Choose between Spill Pallets without grating, with Steel (galvanized) or PE grating



Stable supports can be used for grating or pallets can be placed directly on them.



Poly Safe Spill Pallet with poly grating

Flammable Safety cabinets

See page
79



Suitable for	4 Drums		
Version	without Grating	Galvanized Grating	Polyethylene Grating
External Dimensions W x D x H (in)	52.4 x 52.4 x 11.6	52.4 x 52.4 x 11.6	52.4 x 52.4 x 12.6
Sump Capacity [gal]	66	66	66
Total Load Capacity [lbs]	3,520	3,520	3,520
Shipping Weight [lbs]	82	129	133
Order number*	K22-1505-U2	K22-1506-U2	K22-1507-U2

*All models are available with drains.



Spill Containment Pallets for up to 4 Drums

These Spill Pallets provide chemical, UV, rust, and corrosion resistance while the textured removable grate keeps drums from sliding and provides unrestricted and hassle-free sump.

- Poly construction great for storing acids and caustics
- Provides compliant spill containment
- Durable plastic design will not rust, or corrode
- Sized for 55-gallon drums
- Provides fork pockets for easy relocation
- Comes in high visibility yellow color
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Optional Drain Plug allows easy clean-up/recovery of chemicals
- Optional tarp cover for nestable 2 drum poly spill pallet
- Option: Tarp Covers, Poly-Ramp and Ramp Extender



Spill Pallet for 4 Drums, available with or without Drain
Order no. K22-0237-U2



Spill Pallet for 2 Drums, nestable,
available with or without Drain
Order no. M76-1393-U2



Spill Pallet for 4 Drums In-Line,
available with or without Drain
Order no. M76-1379-U2



Option: Ramp for easily loading a variety of containment products with a hand truck

Version	2 Drum - Nestable	2 Drum	4 Drum	4 Drum In-Line	4 Drum - Low-Profile
External Dimensions W x D x H (in)	51 x 25.8 x 21.5	53.5 x 29 x 17	50 x 50 x 17	98.3 x 25.3 x 11.5	54 x 54 x 11.3
Sump Capacity [gal]	66	58	83	66	66
Total Load Capacity [lbs]	2,000	2,000	6,000	3,000	6,000
Order number	M76-1393-U2	M76-0231-U2	M76-1373-U2	M76-1379-U2	M76-0233-U2
Order number - w/ Drain	M76-1394-U2	K22-0231-U2	K22-0237-U2	K22-0235-U2	K22-0233-U2
Accessories					
Tarp Cover					
Order number	M76-1392-U2	K22-2025-U2	M76-1372-U2	K22-2045-U2	K22-2035-U2
Poly Ramp, 12.5 in High					
Order number	—	—	M76-1377-U2	M76-1377-U2	M76-1377-U2
Poly Ramp					
Order number	—	K22-0531-U2	K22-0531-U2	K22-0531-U2	K22-0531-U2
Ramp Extender, 5.5 in High					
Order number	—	M76-1376-U2	M76-1376-U2	—	—

Workstations

There's no need to worry about incidental spills on your factory floor. These Workstations are easy to load with a low-profile design and optional ramp. Each Workstation is designed for stand-alone use or can connect with other Workstations.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Rigid plastic design will not rust or corrode
- Holds 55-gallon drums or a variety of other containers with full compliance
- Low profile design stays out of the way
- Removable grates for easy access to the sump
- Link and lock any size together for a custom workspace
- Optional ramp available for loading with a hand truck



Workstations are designed for stand-alone use or can be connected with other Workstations for a large customized work area.



2 Drum Workstation
Order no. M76-1387-U2



4 Drum Workstation
Order no. M76-1385-U2



8 Drum Workstation
Order no. M76-1380-U2

Storage Capacity	2 Drums	4 Drums	6 Drums	8 Drums
External Dimensions W x D x H (in)	53.5 x 28.5 x 6	53.5 x 53.5 x 6	77 x 53 x 6	53 x 99 x 6
Sump Capacity [gal]	22	41	61	77
Total Load Capacity [lbs]	2,000	4,000	6,000	8,000
Order number	M76-1387-U2	M76-1385-U2	M76-1383-U2	M76-1380-U2
Accessories	Tarp Cover	Tarp Cover	—	Tarp Cover
Order number	M76-1386-U2	M76-1384-U2	—	K22-0437-U2

Optional Accessory

Tarp Covers

- Provide protection from the elements for your totes
- Durable, chemically resistant, and custom fit to the sump to prevent rainwater intrusion



Ramp

- Easily load a variety of containment products with a hand truck with this handy ramp
- Compatible with 2 and 4 Drum Workstations



Order no. M76-1381-U2

Link-Lock for Workstations

- Link and lock Workstations together safely in a wide variety of configurations
- Sold in pairs



Order no. M76-1382-U2



Transport Pallets with Corner Posts and Chains

Don't take unnecessary risks when moving palletized drums. Use our Transport Pallets for secured relocation of drums. This painted 2 or 4 drum Transport Pallet with chains allows for the safe movement of drums with built-in spill containment protection.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Galvanized grating is easily removed for sump cleanup
- Pallets provide four-way forklift access
- Durable chains and steel corner posts contain drums on pallets while transporting
- Removable Corner Posts facilitate safe loading and unloading



Transport Pallet with chains and corner posts, suitable for up to 4 drums (55 gal), painted
Order no. K17-3207-U2



Fact: Most spills occur when transporting chemicals. Safely and securely move your chemicals with our Transport Pallets.



Transport Pallet for 2 drums



Transport Pallet for 4 drums, removable corner posts facilitate safe loading and unloading of drums from the pallet.



Transport Pallet for 4 drums

Storage Capacity	2 Drums	4 Drums
External Dimensions W x D x H (in)	54 x 34 x 37	55 x 50 x 35
Sump Capacity	66	66
Total Load Capacity	1,200	2,400
Shipping Weight	245	315
Order number*	K17-3206-U2	K17-3207-U2

*All models are available with drains.

Drain Cover

See page
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Stackable and Transport Pallets with Side Rails

Adding angle frame rails to our most popular Pallets allows for safe, efficient transport and stacking.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Solidly welded, all-steel construction for extended life
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Finished with a durable, hard-shell finish
- Galvanized grating is easily removed for sump cleanup
- Four-way forklift access
- Available with optional security bars for safer transport (Sold separately)



4 Drum Transport Pallet with optional security bar (sold separately).



2 Drum Stackable Pallet with Rails. Stacks 2-High.



Stacking Pallets have ample rail heights to allow for drum storage on wooden skids without inhibiting fork access to upper pallet.

Suitable for	2 Drums - Lower version	4 Drums - Lower version	2 Drum - Stackable	4 Drum - Stackable
External Dimensions W x D x H (in)	54 x 34 x 37	55 x 50 x 35	54 x 34 x 55	55 x 50 x 54
Sump Capacity [gal]	66	66	66	66
Total Load Capacity [lbs]	1,200	2,400	1,200	2,400
Shipping Weight [lbs]	295	365	310	385
Order number	K17-3222-U2	K17-3226-U2	K17-3202-U2	K17-3203-U2

Optional Accessory

Optional Security Bar

- By adding a security bar, you provide additional safety to your transport pallet.



Order no. K17-3229-U2



Transport Pallets with Separation Walls

Transport pallets with splash walls allow safe movement of drums with built-in spill containment protection as well as provide additional separation of your chemicals from the surrounding area.

- Store regulated chemicals over a fully EPA compliant 66-gallon spill containment sump
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Durability of all-steel construction ensures years of use in even the harshest industrial conditions
- Galvanized grating is easily removable for sump cleanup
- Walls provide necessary separation from incompatible chemicals when dispensing
- Transport pallets have 4-way forklift accessibility
- SPCC Compliant



2 Drum Transport Pallet provides separation walls sufficient for drums on wooded skids.



Fact: Most spills occur when transporting chemicals. Safely and securely move your chemicals with our Transport Pallets.

4 Drum Transport Pallet



HazMat Stations for Drums

See page
92



Storage Capacity	2 Drums	4 Drums
External Dimensions W x D x H (in)	54 x 34 x 55	55 x 50 x 53
Sump Capacity (gal)	66	66
Total Load Capacity (lbs)	1,200	2,400
Shipping Weight (lbs)	320	410
Order number	K17-3302-U2	K17-3303-U2

Stackable 3-Wall Transport Pallets

Provide additional separation and splash protection to spill pallets with these 3-Wall Transport Pallets.

- Use our unique stackable pallets to safely store and move drums within your facility
- The stackable design saves critical facility floor space
- For extra transport protection, security bars are available as an option for the open front
- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Galvanized grating is easily removable for sump cleanup
- Four-way forklift access



4 Drum Stackable Transport Pallet.
Pallets are stackable 2 high
Order no. K17-3403-U2



2 Drum Stackable Transport Pallet.
Pallets are stackable 2 high
Order no. K17-3402-U2



Vertical stacking capability saves floor space while storing drums. - 2 Drum Models can be stacked 3-high and 4 Drum Models can be stacked 2-high

Storage Capacity	2 Drums	4 Drums
External Dimensions W x D x H (in)	54 x 34 x 54	55 x 50 x 55
Sump Capacity	66	66
Total Load Capacity	1,200	2,400
Shipping Weight	365	455
Order number	K17-3402-U2	K17-3403-U2



Transport Cart for Small Containers and Drums

A safe, secure way to transport drums and small containers while still providing spill protection.



1 drum Spill Cart with grating, painted

Spill Cart, painted, with grating, great for transporting small containers



Spill Cart without grating, painted, safe transport for small containers

Storage Capacity	Small Containers		1 Drum	
	w/o Grating	w/ Grating	w/o Grating	w/ Grating
Version				
External Dimensions W x D x H (in)	35 x 25 x 41		38 x 34 x 42	
Sump Capacity (gal)	16		66	
Total Load Capacity (lbs)	450		600	
Shipping Weight (lbs)	165	192	250	158
Order number - Painted	K17-3141-U2	K17-3140-U2	K19-3114-U2	K19-3106-U2

Falcon Safety Cans

See page
155



- Compliant Sump volumes meet EPA, OSHA, NFPA, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Solidly welded, all-steel construction for extended life
- This model does not include a grate

Hazardous material storage



2 Drum Spill Cart with grating, painted

Spill Cart without grating, painted

Storage Capacity	2 Drums	
Version	w/o Grating	w/ Grating
External Dimensions W x D x H (in)	52 x 34 x 42	
Sump Capacity (gal)	66	
Total Load Capacity (lbs)	1,200	
Shipping Weight (lbs)	290	183
Order number - Painted	K19-3115-U2	K19-3107-U2

Containment Shelves

See page
70





Transport Carts for Small Containers and Drums

A safe, secure way to transport drums and small containers while still providing spill protection

- Sump volume meets EPA & UFC requirements
- Made of heavy gauge steel for extended life
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Two side "pocket arms" allow for forklift transport
- With four casters for easy manual transport

Version	w/o Casters	w/ Casters
Storage Capacity	1 Drum	1 Drum
External Dimensions W x D x H (in)	34 x 34 x 40	34 x 34 x 35
Sump Capacity [gal]	66	66
Shipping Weight	121	143
Order number	K17-3216-U2	K17-3212-U2



Transport Sump with Forklift attachment

Moveable Poly collector with Drum

Mobile waste collection system that is outfitted with an outer plastic drum, an inner poly drum, a dolly for mobility and a plastic drum funnel.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Take drums anywhere with this convenient, durable drum dolly
- Its size perfectly accommodates a 55-gallon plastic or steel drum and can capture up to 70-gallons of liquid, making it a great alternative to one-drum spill pallets
- Easily maneuverable due to swivel castors
- Powder coated frame for corrosion-resistant
- External Dimensions W x D x H: 32.5 x 32.5 x 42 in



Order no. M76-1521-U2

Spill Scooter

- Manufactured from high impact strength polyethylene, these drum dollies are lightweight, yet strong
- Four 3" swivel caster wheels easily support the drum while making maneuverability a breeze
- Molded pour spout for easy draining
- External Dimensions W x D x H: 35 x 35 x 8.8 in



Spill Scooter M76-1390, here shown with additional handle, Order No. M76-1391

Spill Carts for up to 2 drums

These Spill Carts provide easy, spill-protected transportation of drums and smaller containers.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Low profile for easier loading and unloading
- Grating for optimal load-bearing capacity, easily removable for spill clean-up
- Includes two edge binders to join units

Version	10" Polyolefin Wheels	10" Solid Rubber Wheels
External Dimensions W x D x H (in)	65 x 29 x 44	
Sump Capacity [gal]	57	
Total Load Capacity [lbs]	500	
Shipping Weight	114	120
Order number	K22-0251-U2	K22-0256-U2

Drum Dolly

This Drum Dolly transports 55-gallon drums with ease, tilts to become an efficient self-dispensing station, and acts as its own secondary containment unit. By reducing unnecessary and dangerous drum handling, it protects workers, improves efficiency, and helps improve profits.

- Transport and dispense from drums easily and safely
- Durable design holds up in harsh industrial environments
- Dispensing sump provides compliant spill containment
- Fits to 55-gallon drums
- Large 10" wheels make handling drums quick and easy

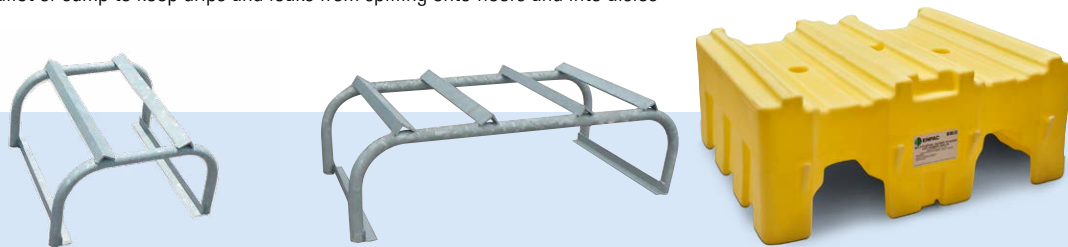
Version	with 10" Polyolefin Wheels	with 10" Pneumatic Rubber Wheels
External Dimensions W x D x H (in)	68 x 31.5 x 27	
Sump Capacity [gal]	70	
Total Load Capacity [lbs]	600	
Shipping Weight	92	91
Order number	K22-0250-U2	K22-0255-U2
Accessories	Tarp Cover, weatherproofed	
Order number	M76-1399-U2	M76-1399-U2





Drum Cradle

- Made for horizontal drum storage
- Easy to maneuver and allows for easy dispensing
- Made of heavy gauge steel
- Use together with any DENIOS Sump Pallet or sump to keep drips and leaks from spilling onto floors and into aisles

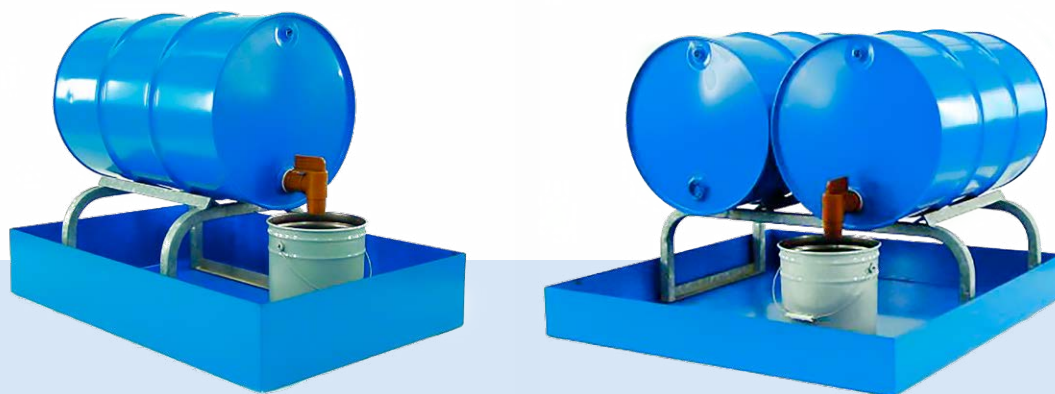


Drum Cradle	1 Drum	2 Drums	2 Drums
Material	Galvanized Steel	Galvanized Steel	Poly
External Dimensions W x D x H (in)	24 x 24 x 14	48 x 24 x 14	48.5 x 41 x 20
Total Load Capacity [lbs]	600	1,200	2,400
Shipping Weight	48	281	120
Order number	K17-1901-U2	K17-1902-U2	K22-0890-U2

Spill Containment Sumps for up to 4 Drums

DENIOS Steel Sumps provide spill containment without the extra height and expense of forklift-accessible base designs. When transport is necessary, simply place these sumps on pallets for forklift accessible.

- Compliance with hazmat storage regulations such as EPA, NFPA, and OSHA.
- Basic sumps without platform provide spill containment in noncritical applications
- Sumps with our exclusive platform insert position the stored products above the spill containment sump
- Solidly welded, all steel construction for extended life
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel

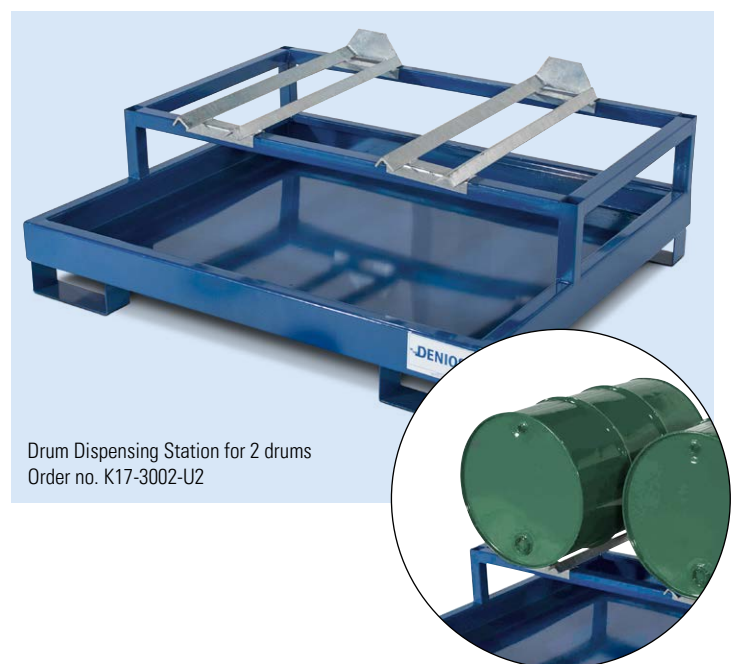


Compatibility	with Drum Cradle - 1 Drum	with Drum Cradle - 2 Drums
External Dimensions W x D x H (in)	50 x 34 x 9	50 x 50 x 7
Sump Capacity [gal]	66	66
Total Load Capacity [lbs]	1,200	2,400
Shipping Weight [lbs]	142	190
Order number Painted	K15-3001-U2	K15-3005-U2

Drum Dispensing Stations for up to 4 Drums

Safely dispense from 55 Gallon Drums over a Spill Compliant Sump

- Drums are securely held on racks by galvanized positioners
- Sump extends out to capture any leaks or spills resulting from dispensing
- Compliant Sump volumes meet EPA, OSHA, NFPA, and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel
- Solidly welded, all-steel construction for extended life
- Easily removable gratings
- Design provides clearances from the bottom of the sump to the bottom of a rack of 18" (one drum model) or 13.5" (two and four drum model)



Storage Capacity	1 Drum	2 Drums	4 Drums
External Dimensions W x D x H (in)	32 x 52 x 22	61 x 52 x 18	61 x 52 x 48
Sump Capacity (gal)	66	66	66
Total Load Capacity (lbs)	600	1,200	2,400
Shipping Weight (lbs)	210	235	395
Order number	K17-3001-U2	K17-3002-U2	K17-3003-U2



Pro-Line Poly Spill Trays

DENIOS High-Quality Spill Trays - Ideal for use next to the working area. Store hazardous substances legally directly where they need to be used compliantly.

- Safe Storage of Oils, Coolants, Acids, Caustics, and other aggressive liquids
- Modern design combined with high functionality and safety
- Heavy-duty polyethylene construction
- Chemically resistant and fully corrosion-proof
- Compliance with EPA, and OSHA requirements
- Completely sealed, seamlessly processed, 100% liquid-tight
- Easy to clean
- Choose between Spill Trays in 4 different sizes and without grating or with removable poly grating
- All models with grating come together with a warning red leak indicator
- Spill Trays and gratings can be stacked inside each other for storage and transport
- Order Spill Tray with grating to elevate containers from spilled liquid



Easy to clean due to removable gratings



All models with grating comes with a warning red leak indicator



Order no. K32-1914-U2

Order no. K32-1918-U2

Order no. K32-1924-U2

External Dimensions W x D (in)	15.8 x 15.8	23.3 x 15.8	30.9 x 15.8	30.9 x 30.9	15.8 x 15.8	23.3 x 15.8	30.9 x 15.8	30.9 x 30.9
Height [in]	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Sump Capacity [gal]	5.3	7.9	10.6	21.2	5.3	7.9	10.6	21.2
Version	without grating	without grating	without grating	without grating	with grating & leak indicator	with grating & leak indicator	with grating & leak indicator	with grating & leak indicator
Shipping Weight [lbs]	6.0	3.9	9.7	14.9	8.3	11.0	14.0	23.3
Order number	K32-1914-U2	K32-1916-U2	K32-1918-U2	K32-1920-U2	K32-1922-U2	K32-1924-U2	K32-1926-U2	K32-1928-U2

Poly Drum Trays

DENIOS high quality, durable Poly Drum Trays

- Keeps floors free of spills
- Designed to collect and contain drips and overflows associated with filling of 30 and 55-gallon drums
- Meets EPA Container Storage Regulations for 20 gallon or smaller containers with bottom grate in place
- Optional bottom grate elevates drums 2 5/8" and out of spilled liquid

	w/ Grating	w/o Grating
External Dimensions Dia x H (in)	37.5 x 9	37.5 x 9
Sump Capacity [gal]	20	20
Shipping Weight [lbs]	26	19
Order number	K22-1101-U2	K22-1103-U2



Poly Spill Trays

DENIOS high quality, durable Poly Spill Trays

- Low profile sump is perfect for containment of 5-gallon pails, batteries, safety cans, and leaky machine parts
- Order trays with grating to elevate containers from spilled liquid
- Meets EPA Container Storage Regulations for small packages with grating in place

Version	w/o Grating	w/ Grating	w/o Grating
External Dimensions W x D x H (in)	25 x 22 x 3	55 x 30 x 5	55 x 30 x 5
Sump Capacity [gal]	3	14	17
Shipping Weight [lbs]	4	39	20
Order number Yellow	K22-0905-U2	K22-0910-U2	K22-0912-U2
Order number Black	—	K22-0909-U2	K22-0911-U2



Heavy Duty Poly Spill Trays

DENIOS high quality, durable Poly Spill Trays

- Heavy-duty polyethylene construction - great for holding acids and corrosives
- Ribbed bottom keeps cans, pails, and other containers above small spills or leaks
- Nestable for easy storage

Internal Dimensions W x D x H (in)	48 x 12 x 4.5	48 x 24 x 4.5	48 x 30 x 4.5	36 x 24 x 4.5	36 x 36 x 4.5	48 x 44 x 3.5
Sump Capacity [gal]	12	24	30	18	27	30
Shipping Weight [lbs]	8	13	16	10	10	18
Order number	K32-1911-U2	K32-1913-U2	K32-1915-U2	K32-1917-U2	K32-1919-U2	K32-1921-U2

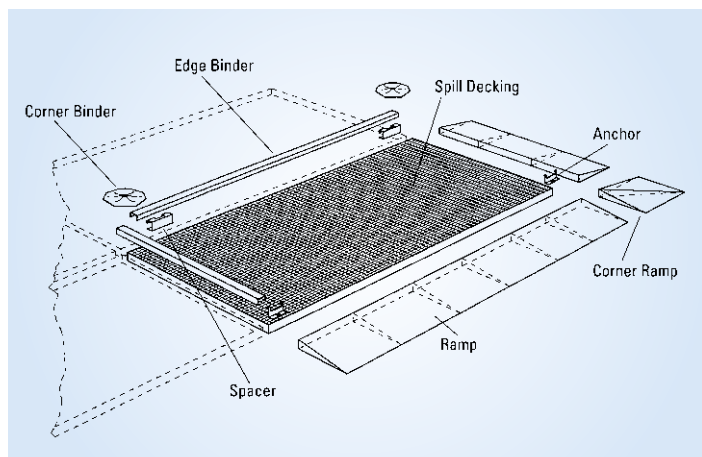




Spill Deckings - 2" Height

Steel spill decks are specially manufactured floor elements used to protect larger areas or whole rooms, approved for the storage of flammable liquids and materials of all water hazard classes. Exclusive 2" decking provides secure spill containment and leak barrier for larger volume dispensing.

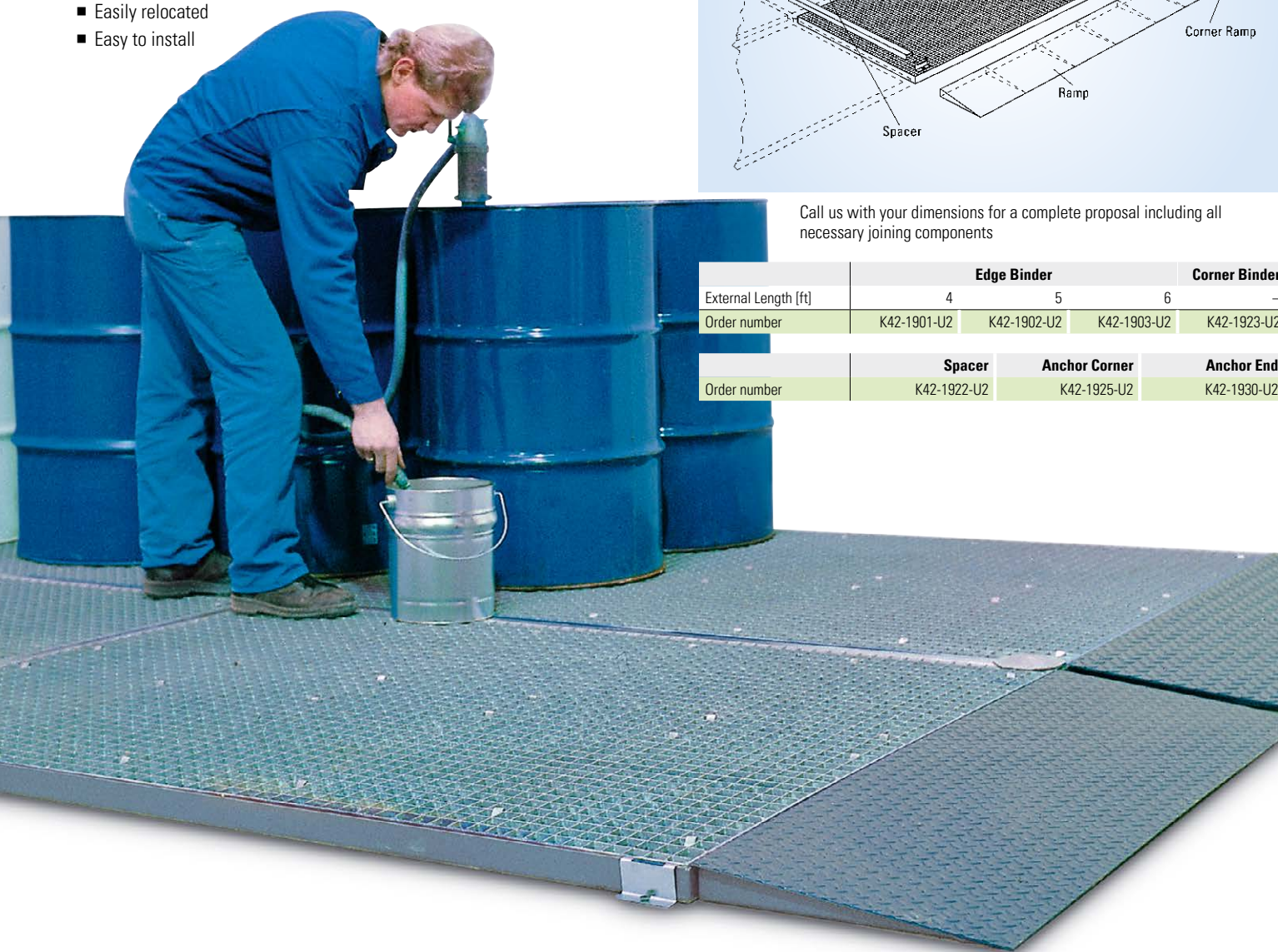
- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Heavy gauge galvanized steel far outlasts plastic decks
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Solidly welded, all-steel construction for extended life
- Simplifies maintenance and facility cleanup
- Keeps spills from aisles or walkways
- Flexible design accommodates any area
- Easily relocated
- Easy to install



Call us with your dimensions for a complete proposal including all necessary joining components

	Edge Binder			Corner Binder
External Length (ft)	4	5	6	—
Order number	K42-1901-U2	K42-1902-U2	K42-1903-U2	K42-1923-U2

	Spacer	Anchor Corner	Anchor End
Order number	K42-1922-U2	K42-1925-U2	K42-1930-U2



Version	4' x 5'	5' x 5'	4' x 6'	5' x 6'
External Dimensions W x D x H [in]	49 x 61 x 2	61 x 61 x 2	49 x 73 x 2	61 x 73 x 2
Sump Capacity [gal]	24	30	29	36
Floor Load Capacity [psf]	350	350	350	350
Shipping Weight [lbs]	343	341	342	392
Order number	K42-1101-U2	K42-1102-U2	K42-1105-U2	K42-1106-U2



Spill Decks can be joined together to create a large protected area.

Ramps for Spill Deckings

- Ramps allow for effortless material handling on and off decks
- Simplifies maintenance and facility cleanup
- Heavy gauge galvanized steel far outlasts plastic decks

Version	4' Ramp	Corner Ramp
External Dimensions W x D x H (in)	48 x 18 x 2	18 x 18 x 2
Shipping Weight	49 lbs	23 lbs
Order number	K42-1911-U2	K42-1924-U2



Additional ramps for handling carts and drums



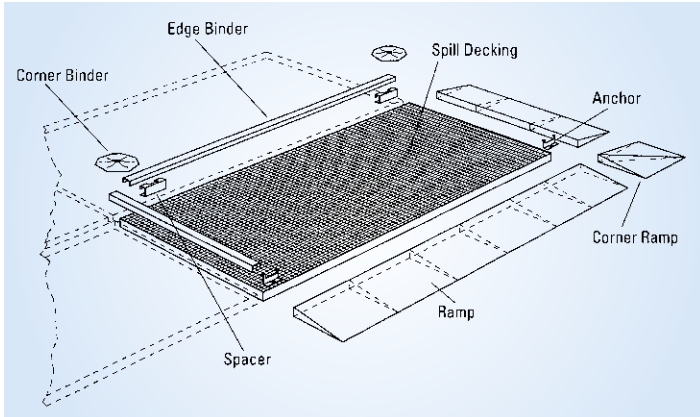
Spill Decking - 5" Height

Whenever dangerous liquids are stored, unwanted dripping and spraying losses can occur during refilling and filling. Even the smallest amounts can already make a cost-intensive renovation of the subsoil necessary. With bottom collectors and elements from DENIOS, entire rooms or even partial areas can be made into approved warehouses. Exclusive 5" decking provides secure spill containment and leak barrier for larger volume dispensing.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Heavy gauge galvanized steel far outlasts plastic decks
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Solidly welded, all-steel construction for extended life
- Simplifies maintenance and facility cleanup
- Keeps spills from aisles or walkways
- Flexible design accommodates any area
- Easily relocated
- Easy to install



Version	4' x 5'	4' x 6'	5' x 5'	5' x 6'
External Dimensions W x D x H (in)	49 x 61 x 5	49 x 73 x 5	61 x 61 x 5	61 x 73 x 5
Sump Capacity [gal]	66	74	77	93
Floor Load Capacity [psf]	350	350	350	350
Shipping Weight [lbs]	380	413	498	553
Order number Wheel Pressure 990 lbs	K42-1151-U2	K42-1155-U2	K42-1152-U2	K42-1156-U2
Order number Wheel Pressure 4,400 lbs	K42-1171-U2	K42-1175-U2	K42-1172-U2	K42-1176-U2



Custom sizes available. For a complete proposal, call with dimensions and weight-load requirements. Each multiple section order shipped with easy-to-follow installation instructions, including a layout sketch.

	Edge Binder			Corner Binder
External Length [ft]	4	5	6	—
Order number	K42-1901-U2	K42-1902-U2	K42-1903-U2	K42-1923-U2

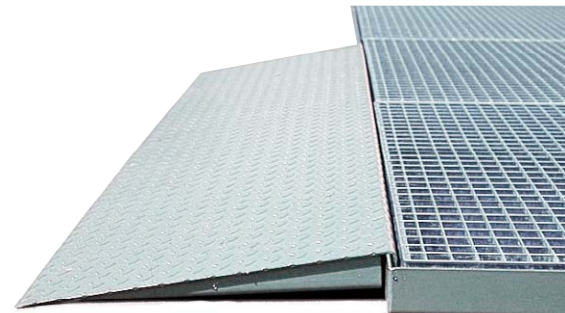
	Spacer	Anchor End	Edge Binder
Order number	K42-1926-U2	K42-1929-U2	K42-1904-U2



Ramps for Spill Deckings 5" Height

- Ramps allow for effortless material handling on and off decks
- Simplifies maintenance and facility cleanup
- Heavy gauge galvanized steel far outlasts plastic decks

Version	4 feet	5 feet	6 feet	Corner Ramp
External Dimensions W x D x H (in)	48 x 25 x 5	60 x 25 x 5	72 x 25 x 5	25 x 25 x 5
Shipping Weight	134 lbs	104 lbs	123 lbs	68 lbs
Order number	K42-1915-U2	K42-1916-U2	K42-1917-U2	K42-1927-U2



ramps provided in lengths matching standards Spill Decking dimensions

Media Resistance List

The corrosion resistance of the materials used to make the spill pallet and their compatibility with the substances stored must be demonstrated. For many chemical substances, steel spill pallets (1.0038) may be used. For corrosive substances (acids / alkalis) in particular, the use of plastic (polyethylene) spill pallets is often required. High levels of protection, especially against many aggressive liquids are offered by stainless steel. If no information is given in the resistance lists, the material of the spill pallet may be the same material as the transport container.

Chemical stored	Concentration	Painted Steel ^{1), 4)}	Stainless Steel ²⁾	Poly ³⁾
Acetaldehyde	≤ 40%		•	
Acetaldehyde	max. poss.		•	
Acetic acid			•	
Acetone		•	•	
Adhesives		•	•	
Aircraft turbine fuel		•	•	
Alcohol		•	•	
Ammonium hydroxide	≤ 30%		•	•
Ammonium nitrate	saturated		•	•
Ammonium solution				•
Anti-freeze (car)			•	•
Battery acid	≤ 38%			•
Benzene		•	•	
Benzoic acid			•	•
Bio-Diesel		•		
Boric acid	≤ 10%		•	•
Brake fluid		•	•	•
Bromine		•		
Butanoic acid			•	
Butanol	max. poss.	•	•	
Calcium acetate	aqueous		•	•
Calcium chlorate, aqueous solution	≤ 65%	•	•	
Calcium hydroxide			•	•
Calcium hypochlorite	saturated			•
Chlorobenzene		•		
Chloric acid	≤ 20%			•
Chlorine	≤ 97%		•	
Chloroacetic acid	≤ 50%			•
Chromic acid	≤ 20%		•	•
Citric acid	≤ 10%		•	•
Crude oil		•	•	
Dichloroethylene	max. poss.		•	
Dichloromethane		•		
Diesel fuel		•	•	
Ether		•	•	
Ethyl acetate		•	•	
Ethyl chloride		•		
Ethylene glycol		•	•	
Ferric (II) sulfate	saturated		•	•
Ferric (III) chloride	saturated			•
Ferric (III) sulfate	saturated		•	•
Formic acid			•	
Fuel		•	•	
Gearbox oil, (Hypoid), 110°C		•	•	
Glycerol			•	•
Glycolic acid	≤ 37%		•	
Glycolic acid	≤ 70%		•	
Heated steam motor oil, odor-free		•	•	•
Heating oil		•	•	
Hydrazine	≤ 10%		•	
Hydrazine hydrate	aqueous		•	•
Hydrochloric acid	concentrated		•	
Hydrogen cyanide			•	•
Hydrogen peroxide	≤ 60%		•	•
Isobutane		•	•	
Isobutyl acetate		•	•	
Isobutyl chloride		•		
Isobutyl ether		•	•	

1) Painted (WN 1.0038) or **galvanized** (1.0242) steel
2) Stainless steel 1.4301 (V2A)
3) Polyethylene (PE)

4) Galvanized sump pallets are not suitable for the storage of the following liquids: organic and inorganic acids, sodium bicarbonate, caustic potassium carbonate solution as well as other alkali hydroxides, chlorinated hydrocarbons, amine, nitro compounds, acid chlorides, and other chlorides, phenol, aqueous alkaline solutions, nitrile.

Chemical stored	Concentration	Painted Steel ^{1), 4)}	Stainless Steel ²⁾	Poly ³⁾
Iso-hexane		•	•	
Iso-pentane		•	•	
Isopropyl alcohol (Isopropanol)		•	•	
Kerosene		•	•	
Magnesium carbonate	saturated		•	•
Magnesium chloride	aqueous		•	•
Magnesium nitrate	saturated		•	•
Magnesium sulfate			•	•
Menthol	solid		•	
Methanol		•	•	
Methyl acetate		•	•	
Methyl acrylate			•	
Methyl alcohol			•	
Methyl chloride		•		
Motor fuel		•	•	
Nitric acid	≤ 10%		•	•
Nitrobenzene		•	•	
Nitromethane		•	•	
Oil		•	•	•
Oleic acid	max. poss.		•	•
Pentanol		•	•	
Petroleum	max. poss.		•	•
Petroleum spirit		•	•	
Phenol	100%	•	•	
Phosphoric acid	≤ 5%		•	•
Potassium carbonate			•	•
Potassium chlorate			•	
Potassium chloride	aqueous		•	•
Potassium chloride	≤ saturated sol.			•
Potassium hydroxide, aqueous sol.	50%	•	•	•
Potassium nitrate	50%		•	•
Potassium nitrate	≤ saturated sol.			•
Potassium phosphate	≤ saturated sol.			•
Potassium sulfate	≤ saturated sol.			•
Propanol		•	•	
Propionic acid			•	•
Salicylic acid	saturated		•	•
Silicic acid			•	•
Sodium acetate			•	•
Sodium bisulfate				•
Sodium bisulfite	aqueous		•	•
Sodium carbonate			•	•
Sodium chloride			•	•
Sodium hydrogen sulfate	≤ saturated sol.			•
Sodium hydrogen sulfide, aqua. sol.	30%	•	•	
Sodium hydrogen sulphatic	≤ saturated sol.			•
Sodium hydroxide, aqueous sol.	50%	•	•	•
Sodium hypochlorite solution	≤ saturated sol.		•	
Sodium sulfate				•
Sodium sulfide	≤ saturated sol.			•
Spirits of turpentine		•	•	
Sulphury acid	≤ 78%			
Sulphury acid	95%		•	•
Sulfurous acid	saturated		•	•
Toluene		•		
Urea			•	•
Uric acid			•	•
Xylene		•	•	

Large Volume Dispensing Platforms

Designed to contain large volume spills from dispensing or pumping operations as well as storage applications.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC and other regulations
- Secure Storage - Sumps are 100% tested and leak-free guaranteed
- Constructed using premium heavy gauge quality steel
- Single unit construction provides a large uniform storage platform
- Large sump volumes allow for compliant spill containment even when storing multiple tanks, IBC's or stacked drums
- High load capacity of 225 psf allows placement of heavy equipment or tanks
- Sumps are coated with chemical-resistant mastic epoxy

Hazardous material storage



External Dimensions W x D x H (ft)	16.4 x 7.3 x 0.8	13.1 x 9.2 x 0.8
Approx. Floor Space [sqft]	114	115
Sump Capacity [gal]	422	430
Floor Load Capacity [psf]	225	225
Shipping Weight [lbs]	1,863	1,898
Order number	K42-5030-U2	K42-5040-U2

IBC Tote Spill Containment Pallets

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Mini Racker and Stacker

Use this Mini Racker as a safe and easy-to-use dispensing station for small containers (up to 6.5 gal), with built-in spill protection and an enclosed sump.

- Compliant Sump volumes meet EPA, OSHA, NFPA, and other regulations
- Help save liquids that are routinely lost during the dispensing process
- Protect worker's safety by keeping the dispensing areas neat and clean
- Protect the floor and environment
- Durable, chemically resistant design
- For the safe storage of small containers
- For the safe storage of up to 6 Drums (55 gals)

Version	Mini Racker	Mini Racker - Mobile Unit
External Dimensions W x D x H (in)	28 x 29.8 x 14.5	31 x 29 x 15.3
Sump Capacity [gal]	8	8
Total Load Capacity [lbs]	200	200
Shipping Weight [lbs]	25	32
Order number	M76-1496-U2	M76-1497-U2
Accessories	—	—



Poly Drum Cradles - for 2 drums

- A great way to turn a spill pallet into a horizontal dispensing station
- It fits perfectly on a four drum spill pallet, while still leaving enough room for dispensing operations
- It can also be used as a storage tool directly on the ground for non-hazardous liquids
- Durable, chemically resistant design
- Fits two 55-gallon drums

Description	Poly Drum Cradles - for 2 drums
External Dimensions W x D x H (in)	48.5 x 41 x 20
Total Load Capacity [lbs]	2,400
Shipping Weight [lbs]	120
Order number	K22-0890-U2



Find more interesting products on



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Use this Poly Racker as a safe and easy-to-use dispensing station for up to 6 drums (55 gals) with built-in spill protection and an enclosed spill sump.

- Compliant Sump volumes meet EPA, OSHA, NFPA, and other regulations
- Help save liquids that are routinely lost during the dispensing process
- Protect worker's safety by keeping the dispensing areas neat and clean
- Protect the floor and environment
- Durable, chemically resistant design
- For the safe storage of small containers
- For the safe storage of up to 6 Drums (55 gals)

Optional Accessory

Poly Dispensing Shelf

- Easily attaches to drum stackers
- Allows simultaneous dispensing from all Drums.
- A drain hole on the bottom diverts liquids into the Drum Racker's sump
- Well Liners available as an option



Order no. K22-0881-U2

Well Liner

- Provides extra spill protection
- Makes clean-up fast and easy



Order no. M76-1493-U2



Image shows a Drum Racker together with one Stacker and a Dispensing Shelf



Drum Racker for 1 drum
Order no. K22-0882-U2



Image shows a Drum Racker together with two optional Stacker and a Dispensing Shelf



Drum Racker for 2 drums
Order no. K22-0880-U2

Version	1 Drum Poly Dispensing Station	2 Drum Poly Dispensing Station
External Dimensions W x D x H (in)	53 x 31 x 33.25	49 x 53 x 23
Sump Capacity [gal]	66	102
Total Load Capacity [lbs]	1,600	3,000
Shipping Weight [lbs]	156	165
Order number	K22-0880-U2	K22-0882-U2
Accessories	Poly Stacker, 1 Drum (55 gal)	Poly Stacker, 2 Drums (55 gal)
Order number	K22-0885-U2	K22-0887-U2



Stackable Drum Racks with Spill Sumps

Prevent spills by using containment sumps positioned beneath the drum rack. Components allow you to organize a wide variety of combinations to suit your exact needs.

- Spill Containment Sumps are sized to comply with OSHA and EPA requirements
- Each rack is easily lifted and relocated with a forklift
- The sumps catch drips and spills associated with dispensing, maintaining a neat, safe area
- All components are made of heavy gauge steel, galvanized to provide years of service with a rust-free appearance



Stackable Drum Rack & spill combo - model AWS 2
Order no. K12-1117-U2



Stackable Drum Rack & spill combo - model AWS 3
Order no. K12-1112-U2



Stackable Drum Rack & spill combo - model AWS 2
Order no. K12-1110-U2

Version	Drum spill combo - model AWS 2	Drum spill combo - model AWS 1	Drum spill combo - model AWS 3
Storage Capacity	2 drums, 16 or 55 gallon	4 drums, 16 or 55 gallon	2 drums, 55 gallon plus 3 drums, 16 gallon
External Dimensions W x D x H (in)	34.2 x 48.8 x 60.5	56 x 25 x 72	56 x 25 x 72
Rack Dimensions W x D x H (in)	28.9 x 23.6 x 27.4	54 x 48.8 x 60.5	54 x 48.8 x 60.5
Features	Drum Supports	Drum Supports	Drum Supports
Number of Storage Tiers	2	2	2
Load Capacity per Tier (lbs) [lbs]	350	1,540	1,540
Load Capacity per Bay [lbs]	770	3,080	3,080
Sump Capacity [gal]	66	66	66
Shipping Weight [lbs]	318	425	200
Order number	K12-1117-U2	K12-1112-U2	K12-1110-U2

Stackable Drum Racks with Spill Pallets

Spill pallets are a great choice to contain spills & leaks. Drum Racking sits directly on a pallet to make for easy dispensing & containment.

- Combination of Drum Spill Pallets with Stackable Drum Racks
- Racks come as rigid galvanized frame construction including forklift pockets
- Racks can be stacked 2 high
- Drum Spill Pallets are made of heavy gauge steel for extended life
- Sumps are 100% tested and leak-free guaranteed
- Drum Spill Pallet and Racks complete with forklift pockets
- Compliant Sump volumes meet EPA, OSHA, NFPA, and other regulations

Optional Accessory

Drum Rollers

- Drum Rollers ease positioning of 55-gallon drum and allow drain to be rotated to the top to prevent dripping or leaks



Order no. K17-1915-U2

Dispensing Shelf

- This removable metal dispensing shelf allows for easy dispensing from drums



Order no. K17-1909-U2



Stackable Drum Rack & 5-Drum spill pallet combo - Model AWP 7
Order no. K17-3110-U2



Stackable Drum Rack & 8-Drum spill pallet combo - Model AWP 8
(Dispensing Shelf not included) Order no. K17-3113-U2



Stackable Drum Rack & 4-Drum spill pallet combo - Model AWP 8
Order no. K17-3112-U2

Version	Drum spill combo - model AWP 7	Drum spill combo - model AWP 8	Drum spill combo - model AWP 9
Storage Capacity	2 drums, 55 gallon or 3 drums, 16 gallon	4 drums, 16 or 55 gallon	6 drums, 16 gallon
External Dimensions W x D x H (in)	54 x 50 x 72	107 x 50 x 72	107 x 34 x 72
Rack Dimensions W x D x H (in)	54 x 48.8 x 60.5	54 x 48.8 x 60.5	54 x 48.8 x 60.5
Features	Drum Supports	Drum Supports	Drum Supports
Number of Storage Tiers	2	2	2
Load Capacity per Tier (lbs) [lbs]	1,540	1,540	1,540
Load Capacity per Bay (lbs)	3,080	3,080	3,080
Sump Capacity (gal)	66	132	132
[lbs]	484	729	494
Order number	K17-3110-U2	K17-3113-U2	K17-3112-U2

Drum Racks with Spill Sumps

Store and dispense 55-gallon drums in almost any combination with this 4 Drum Rack and Sump.

- Rack & Sumps can be combined in a multitude of configurations
- Beams are adjustable in 2-inch increments to suit your needs
- Spill Containment Sumps are sized to comply with OSHA and EPA requirements
- Racking components are selected for proper load capacities
- Sumps are galvanized to maintain a like-new appearance while resisting corrosion
- Rack components are powder coated enamel
- Horizontal drum configurations include galvanized grating for the sump
- All sumps are available with drain
- Shipped knocked down and assembled in minutes



Drum Rack for 3 drums horizontally and 6 vertically on gratings (dispensing shelf sold separately)
Order no. K34-1109-U2



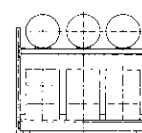
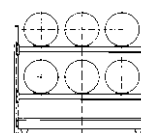
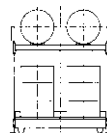
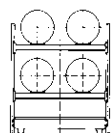
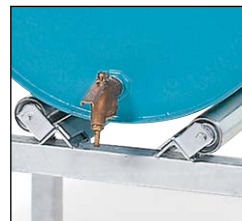
Drum Rack for 4 drums horizontally (dispensing dhelf sold separately)
Order no. K34-1101-U2

Optional Accessory

Drum Rollers

- Drum Rollers ease the positioning of a 55-gallon drum and allow the drain to be rotated to the top to prevent dripping or leaks

Order no. K17-1915-U2



	4 Drum - Horizontal	2 Drum - Horizontal / 4 Drum Vertical	6 Drum - Horizontal	3 Drum - Horizontal / 6 Drum Vertical
Version*	—	with grating	—	with grating
Rack Dimensions W x D x H (in)	66 x 36 x 96	66 x 36 x 96	102 x 36 x 96	102 x 36 x 96
Sump Dimensions W x D (in)	60 x 50	60 x 50	96 x 50	96 x 50
Sump Capacity [gal]	66	66	82	82
Load Capacity per Tier (lbs)	2,200	2,200	2,200	2,200
Shipping Weight [lbs]	500	550	710	710
Order number	K34-1101-U2	K34-1103-U2	K34-1107-U2	K34-1109-U2

*All models are available with drains.



Drum Rack for 4 drums horizontally and 4 vertically (dispensing shelf sold separately)
Order no. K34-1113-U2

Optional Accessory

Dispensing Shelf

- This removable metal dispensing shelf allows for easy dispensing from drums



Order no. K17-1909-U2



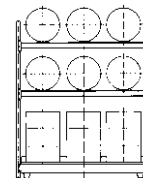
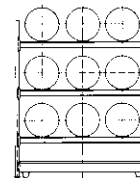
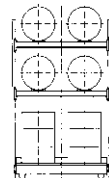
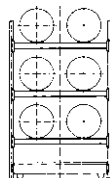
Just give us a call. We would be pleased to provide you with advice!

» Expert advice: 1-877-388-0187

Hazardous material storage



Drum Rack for 9 drums horizontally (dispensing shelf sold separately)
Order no. K34-1117-U2



	6 Drum - Horizontal	4 Drum - Horizontal / 4 Drum Vertical	9 Drum - Horizontal	6 Drum - Horizontal / 6 Drum Vertical
Version*	—	with grating	—	with grating
Rack Dimensions W x D x H (in)	66 x 36 x 96	66 x 36 x 96	102 x 36 x 96	102 x 36 x 96
Sump Dimensions W x D (in)	60 x 50	60 x 50	96 x 50	96 x 50
Sump Capacity [gal]	66	66	82	82
Load Capacity per Tier (lbs)	2,200	2,200	2,200	2,200
Shipping Weight [lbs]	500	650	710	710
Order number	K34-1111-U2	K34-1113-U2	K34-1117-U2	K34-1119-U2

*All models are available with drains.



SPCC
COMPLIANT



OSHA®



HazMat Rack & Sump Combination For Storing Drums - Horizontally & Vertically

Bring your chemical storage area into spill compliance while improving handling efficiency and safety. DENIOS combines its Spill Pallet expertise with sturdy pallet racking to create a versatile storage system.



Optional Accessory

Dispensing Shelf

- This removable metal dispensing shelf allows for easy dispensing from drums



Order no. K17-1909-U2

Store up to 8 drums horizontally on this HazMat Rack & Sump Combination while using the standardized drum supports



HazMat Rack & Sump Combination for storing up to 16 drums

Optional Accessory

Corner Protectors

- For additional safety add Corner Protectors
- External Dimensions W x D x H (in):
7 x 7 x 15.8

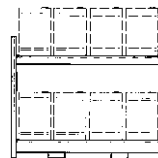
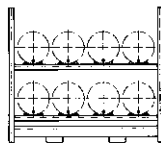


Order no. K34-3901-U2

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC and other regulations
- Sumps are 100% tested and leak-free guaranteed
- Solidly welded, all steel construction for extended life
- SPCC Compliant
- Components matched for required loads and volumes
- Organize your storage with efficient 2-tier drum storage in any combination to suit your material demand
- Rack components are powder coated
- Racks equipped with Pallet Stops and Galvanized Splash Guards (vertically storage)
- Store up to 16 drums on this HazMat Rack & Sump Combination
- Each bay sized to accommodate 2 wooden pallets (holding 4 drums each) on galvanized grating or 4 drums horizontally on specialized supports
- Sturdy galvanized grating provides secure, easy to load base for pallets on both levels
- Rack system does not come in painted blue, only the containment sump



A rack for horizontal storage can be attached to/combined with a rack for vertical storage. Contact factory for details.



Description*	8 Drum - Horizontal	16 Drum - Vertical
Number of Storage Tiers	2	2
External Dimensions W x D x H (in)	126 x 54 x 120	126 x 54 x 120
Load Capacity Upper Rack	3,000	7,500
Load Capacity Spill Sump	3,000	7,500
Sump Capacity (gal)	159	159
Shipping Weight (lbs)	1,050	1,455
Order number	K34-4608-U2	K34-4602-U2

*All models are available with drains.

IBC Tote Spill Containment Pallets



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HazMat Rack & Sump Combination for Storing IBC Totes

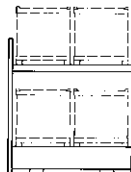
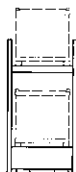
Bring your chemical storage area into spill compliance while improving handling efficiency and safety. DENIOS combines its Spill Pallet expertise with sturdy pallet racking to create a versatile storage system.



Rack & Containment Sump combination for 2 x 1 IBC totes
Order no. K34-4609-U2



Rack & Containment Sump combination for 2 x 2 IBC totes
Order no. K34-4610-U2



Description*	2 IBC Tote Rack	4 IBC Tote Rack	6 IBC Tote Rack
Number of Storage Tiers	2	2	3
External Dimensions W x D x H (in)	66 x 55 x 144	126 x 55 x 120	126 x 55 x 192
Load Capacity Upper Rack	5,000	10,000	10,000
Load Capacity Spill Sump	5,000	10,000	10,000
Sump Capacity (gal)	385	385	385
Shipping Weight (lbs)	1,200	1,600	2,300
Order number	K34-4609-U2	K34-4610-U2	K34-4710-U2

*All models are available with drains.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Sumps are 100% tested and leak-free guaranteed
- Solidly welded, all steel-construction for extended life
- SPCC Compliant
- Components matched for required loads and volumes
- Organize your storage with efficient 2-tier drum storage in any combination to suit your material demand
- Rack components are powder coated
- Our IBC Racking with Spill Sump provides additional storage without consuming valuable floor space
- Keep containers stacked in one compact area, ready for immediate use
- Corner protectors for rack uprights are available as an option



Go online! Discover even more exciting product highlights!

» www.denios-us.com/shop

Optional Accessory

Corner Protectors

- For additional safety add Corner Protectors
- External Dimensions W x D x H (in):
7 x 7 x 15.8



Order no.
K34-3901-U2



Rack & Containment Sump combination for 3 x 2 IBC totes
Order no. K34-4710-U2



Floor Sumps for Pallet Racks

DENIOS Sumps provide Spill Containment beneath your existing Racks. Simply raise the lower-tier level to accommodate the sump height and slide the sumps into place.

- Compliant Sump volumes meet EPA, OSHA, NFPA, and other regulations
- Sumps are 100% tested and leak-free guaranteed
- Sumps are constructed of heavy gauge galvanized steel for extended durability
- Solidly welded, all-steel construction for extended life
- Standard sump models accommodate all rack depths up to 48 inches



Spill Containment Sump for Racks, Width 54 inches
Order no. K34-3916-U2



Spill Containment Sump for Racks, Width 54 inches
Order no. K34-3916-U2



Spill Containment Sump for Racks, Width 96 inches
Order no. K34-3919-U2



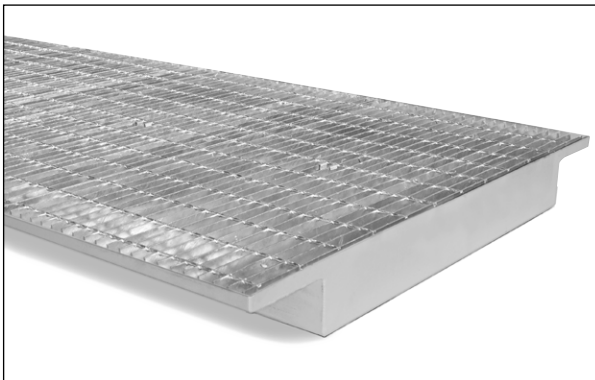
Spill Containment Sump for Racks, Width 108 inches
Order no. K34-3913-U2

Bay Dimension Width [in]	54	96	108
External Dimensions W x D x H (in)	53 x 50 x 9.3	95 x 50 x 9.3	107 x 50 x 9.3
Sump Capacity [gal]	58	104	117
Shipping Weight [lbs]	183	305	328
Order number*	K34-3916-U2	K34-3919-U2	K34-3913-U2

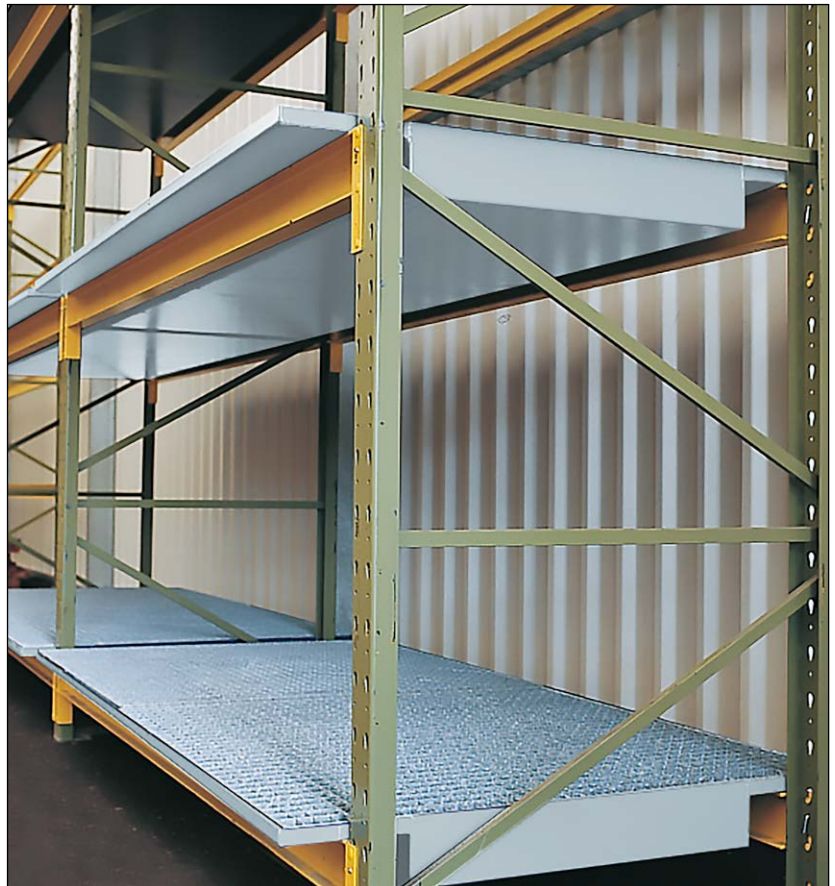
*All models are available with drains.

Sump Inserts for Pallet Racks

- Pallet Rack Sump Inserts consist of a spill containment sump and easily removable galvanized steel grating
- Made to fit exact pallet rack specifications
- Sump Inserts provide economical retrofits
- Sump of heavy-duty, corrosion-resistant galvanized steel
- Sumps are 100% tested and leak-free guaranteed
- Compliant Sump volumes meet EPA, OSHA, NFPA, and other regulations

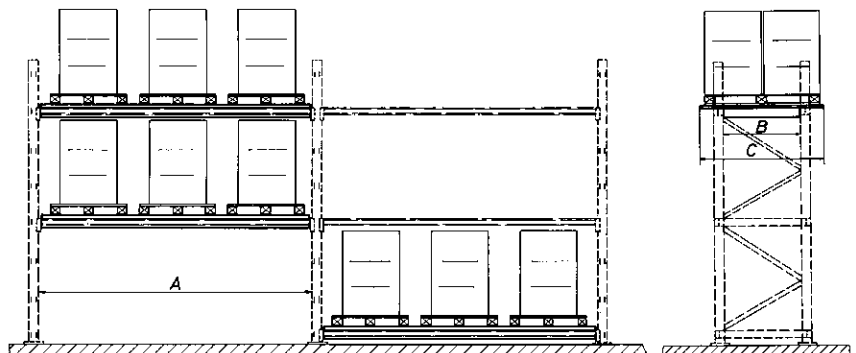
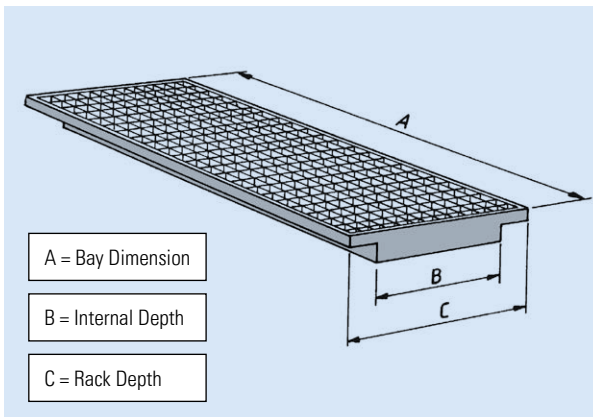


These space-saving Sump Inserts are mounted directly between the cross beams



Sump Inserts for Pre-Existing Racks
Order no. K38-1150-U2

Hazardous material storage



Bay Dimension Width A [in]	96	96	108	108
Rack Depth C [in]	42	20	42	50
Internal Depth B [in]	29	36	29	39
Height [in]	6	6	6	6
Total Load Capacity [psi]	250	250	250	250
Sump Capacity [gal]	58	70	65	79
Shipping Weight [lbs]	460	435	392	492
Order number	K38-1140-U2	K38-1160-U2	K38-1150-U2	K38-1170-U2



Containment Shelving's

Containment shelving is designed for storing small containers. The shelving is recessed for collecting drips and spills. These systems are perfect for any location where reactive or corrosive chemicals are stored: lab, storeroom, factory, or office.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Perfect for dispensing small containers
- Steel uprights are coated with a corrosion-resistant coating
- Sump of heavy-duty steel construction
- Top shelf is affixed and offers no containment
- Shipped economically in a "knock-down" form
- Quick & easy assembly

18" Containment Shelving with section adder
Order no. K32-1104-U2



24" Containment Shelving with section adder
Order no. K32-1106-U2



24" Containment Shelving
Order no. K32-1105-U2



18" Containment Shelving.
Order no. K32-1103-U2

Model	18" Shelving	18" Shelving Section Adder	18" Shelving in combo with one Section Adder	24" Shelving	24" Shelving, Combo with one Section Adder	24" Shelving Section Adder
External Dimensions W x D x H (in)	36 x 18 x 84	34 x 18 x 84	18.5 x x 84	36 x 24 x 84	72 x 24 x 84	34 x 24 x 84
No. Of Shelves	4	4	8	4	8	4
Sump Capacity [gal]	4	4	4	5	5	5
Load Capacity per Bay [lbs]	200	200	200	250	250	250
Shipping Weight [lbs]	260	235	486	307	556	251
Order number	K32-1103-U2	K32-1108-U2	K32-1104-U2	K32-1105-U2	K32-1106-U2	K32-1107-U2
Accessories	Extra Shelf					
Order number	K32-1109-U2	K32-1109-U2	K32-1109-U2	K32-1110-U2	K32-1110-U2	K32-1110-U2

Containment Shelving's with Sump Base

Perfect for dispensing small containers. Containment Shelving features a Sump Base to collect larger volume leaks and spills than other conventional shelving. Choose from grated or solid shelves. The sump is ideal for collecting excess spilled materials, and clean up is easy.

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations
- Perfect for dispensing small containers
- Steel uprights are coated with a corrosion-resistant coating
- Sump of heavy-duty steel construction
- Top shelf is affixed and offers no containment
- Shipped economically in a "knock-down" form
- Quick & easy assembly



Containment Shelving with solid steel shelves and a galvanized sump base
Order no. K32-3140-U2

Hazardous material storage



Containment Shelving with solid steel shelves and a painted sump base
Order no. K32-1135-U2



Containment Shelving with grated shelves and a painted sump base
Order no. K32-3137-U2



Containment Shelving with solid steel shelves and a galvanized sump base
Order no. K32-3139-U2

Version	Grated Shelving		Solid Shelving	
Rack Dimensions W x D x H (in)	36 x 24 x 88	72 x 24 x 88	36 x 24 x 88	72 x 24 x 88
No. Of Shelves	4	4	4	4
Sump Dimensions W x D x H (in)	54 x 34 x 14	107 x 34 x 10	54 x 34 x 14	107 x 34 x 10
Sump Capacity [gal]	66	66	66	66
Load Capacity per Bay [lbs]	250	250	250	250
Shipping Weight [lbs]	456	842	456	842
Order number Painted Sump	K32-3135-U2	K32-3137-U2	K32-3139-U2	K32-3140-U2
Order number Galvanized Sump	K32-1135-U2	K32-1137-U2	K32-1139-U2	K32-1140-U2



SPCC
COMPLIANT



OSHA®



Caged Shelving - Single and Double

- Provides security and spill containment for small volume containers plus the advantage of providing an unobstructed view of stored materials
- Restrict access to sensitive materials with all-steel caging
- Doors are pad-lockable for extra security
- Shelves are adjustable in 1.5-inch increments
- 36x24 inch heavy-duty shelf pans rated for 250 pounds each
- Galvanized shelves resist corrosion
- 1.5-inch recess collects small drips and spills and prevents shelf contents from being pushed off the shelf
- Bottom storage section does not offer spill protection
- Shipped fully assembled, ready for immediate use



Just give us a call. We would be pleased to provide you with advice!

» Expert advice: 1-877-388-0187



Caged Shelving - Single



Caged Shelving - Double

Model	Caged Shelving - Single	Caged Shelving - Double
External Dimensions W x D x H (in)	38 x 24 x 87	74 x 24 x 87
No. Of Shelves	4	8
Load Capacity per Bay (lbs)	250	250
Shipping Weight (lbs)	533	812
Order number	K32-3517-U2	K32-3527-U2

Flammable Safety cabinets

See page
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PolyStore Cabinets

DENIOS PolyStore Cabinets allow you to store non-flammable liquids like oil, lubricants, and coolants as well as aggressive bases or acids. Suited for practical use in laboratories or workshops. Use them to ensure the safe, legally compliant storage of water-polluting and aggressive liquids.

- For the safe storage of water-polluting and aggressive liquids
- Manufactured entirely from environmentally friendly polyethylene
- Hinged doors with safety lock
- The transparent pocket in the door can be used for storing Safety Data Sheets, protective gloves, or goggles
- Sealed sump in the bottom of the cabinet
- Sumps are 100% tested and leak-free guaranteed
- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations



Slide-out Spill Tray with spill protection



PolyStore, with one grating and one spill tray, both made of stainless steel



Practically: the cabinet floor is built as a liquid-tight sump



PolyStore, with two grating made of galvanized steel

Model	PolyStore 24.0 inch width - low version			
External Dimensions W x D x H (in)	24 x 25.2 x 44.5			
Internal Dimensions W x D x H (in)	20.4 x 16 x 35.2			
Features	With bottom sump and 2 grating, galvanized	With bottom sump, 1 grating, and 1 spill trays, galvanized	With bottom sump, 2 gratings, stainless steel	With bottom sump, 1 grating, and 1 spill trays, stainless steel
Sump Capacity [gal]	10	10	10	10
Total Load Capacity [lbs]	220	220	220	220
Shipping Weight [lbs]	95	95	95	95
Order number	K22-0605-U2	K22-0610-U2	K22-0615-U2	K22-0620-U2
Accessories	Additional Grating	Additional Spill Tray	Additional Grating	Additional Spill Tray
Order number	K22-0592-U2	K22-0594-U2	K22-0591-U2	K22-0593-U2

PolyStore Cabinets

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- For the safe storage of water-polluting and aggressive liquids
- Manufactured entirely from environmentally friendly polyethylene
- Hinged doors with safety lock
- The transparent pocket in the door can be used for storing Safety Data Sheets, protective gloves, or goggles
- Sealed sump in the bottom of the cabinet
- Sumps are 100% tested and leak-free guaranteed
- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations



PolyStore, 24 inch width, with interior equipment made of galvanized or stainless steel,
Order no. K22-0585-U2

Model	PolyStore 24.0 inch width			
External Dimensions W x D x H (in)	24 x 25.2 x 78.4			
Internal Dimensions W x D x H (in)	20.4 x 16.1 x 68.8			
Features	With bottom sump and 4 grating, galvanized	With bottom sump, 1 grating, and 3 spill trays, galvanized	With bottom sump, 4 grating, stainless steel	With bottom sump, 1 grating, and 3 spill trays, stainless steel
Sump Capacity [gal]	10	10	10	10
Total Load Capacity [lbs]	440	440	440	440
Shipping Weight [lbs]	155	155	155	155
Order number	K22-0590-U2	K22-0570-U2	K22-0575-U2	K22-0585-U2
Accessories	Additional Grating	Additional Spill Tray	Additional Grating	Additional Spill Tray
Order number	K22-0592-U2	K22-0594-U2	K22-0591-U2	K22-0593-U2



the transparent pocket in the door can be used for storing Safety Data Sheets, Protective Gloves, or goggles for example



Slide-out Spill Tray with spill protection



Practically: the cabinet floor is built as a liquid-tight sump



PolyStore, 48.3 inch width, with interior equipment made of galvanized steel,

Accessories	Additional Grating for Cabinet	Additional Slide-out Spill Tray for Cabinet
Total Load Capacity [lbs]	110	110
Shipping Weight [lbs]	9	18
Order number Stainless-Steel	K22-0595-U2	K22-0597-U2
Order number Galvanized Steel	K22-0596-U2	K22-0598-U2

Model	PolyStore 48.3 inch width			
External Dimensions W x D x H (in)	48.3 x 25.2 x 78.4			
Internal Dimensions W x D x H (in)	44.4 x 16.1 x 68.8			
Features	With bottom sump, and 4 grating, galvanized	With bottom sump, 1 grating, and 3 spill trays, galvanized	With bottom sump, 4 gratings, stainless steel	With bottom sump, 1 grating, and 3 spill trays, stainless steel
Sump Capacity [gal]	20	20	20	20
Total Load Capacity [lbs]	440	440	440	440
Shipping Weight [lbs]	243	243	243	243
Order number	K22-0560-U2	K22-0561-U2	K22-0565-U2	K22-0566-U2
Accessories	Additional Grating for Cabinet	Additional Slide-out Spill Tray for Cabinet	Additional Grating for Cabinet	Additional Slide-out Spill Tray for Cabinet
Order number	K22-0596-U2	K22-0598-U2	K22-0595-U2	K22-0597-U2

Fire-rated Safety Cabinets



IT CAN HAPPEN TO ANYONE

Many different dangers exist when handling hazardous materials. The use of hazardous and combustible materials is part of the daily routine in most laboratories and industries and is unavoidable. What is often quickly forgotten in daily handling: the improper storage of such materials puts people, the environment, and property in danger.

- Fires and explosions caused, for example, by the improper storage of combustible liquids
- Pollution of soil, groundwater, and surface water, for example, by contaminated firefighting water or leakages
- Downtimes, for example, due to laboratories destroyed by fires
- Endangerment to human life

These Fire-rated Safety Cabinets are furnace tested type-tested according to the world's most stringent testing standard EN 14470-1 providing a fire resistance of 90 minutes (Type 90). These cabinets are additionally tested in accordance with UL/ULC 1275 and FM standard 6050 (depending on the model), creating the world's first triple-certified flammable cabinets.

These Safety Cabinets provide additional safety whenever extended evacuation times are necessary and may qualify as mobile high hazard rooms (subject to AHJ approval)



Safety Cabinet, 47 in width

KEY BENEFITS

- 90 minutes of fire resistance
- Approved and certified EN 14470-1, EN 16121/16122, GS, FM 6050, and UL 1275 and meeting the requirements of the NFPA Code 30, NFPA 1 Fire Code, and OSHA.
- Constructed by using special fire-resistant plates and/or multiple layers of fire-proof mineral fiber insulation material (calcium sulfate).
- All gaps become totally sealed between doors and frame. Special intumescent seal protection strips which, when exposed to a fire, expand and seal hermetically to avoid heat entering the cabinet.
- Self-closing doors in the event of a fire
- Doors left open or those featuring a door open arrest system must close safely in the event of a fire at 104 °F and at the latest of 122 °F (approx.)
- Self-closing ventilation openings (in the event of a fire) to close safely, at latest at 158 °F
- Under fire conditions, intumescent strips expand and hermetically seal all gaps to reduce the heat entering the cabinet

Flammable Under Bench Cabinets

These safety cabinets are independently fire tested and approved by UL, tested, and ensure compliance with the most stringent safety regulations and quality standards for the storage of flammable liquids. Tested for long life: 50,000 wear-free open/close operations. The cabinets conform to the requirements of the NFPA 30 and NFPA 1 codes, as well as OSHA. They also meet the fire testing regulations of EN 14 470-1. In addition to conforming to construction specifications and labeling requirements, the cabinets must pass rigorous test protocols. With fulfillment all of these standards and codes, the cabinets provide safe, secure storage of flammable and combustible liquids, and as a result, minimize the risk of fire.

- UL / ULC 1275 listed
- Safe Storage of flammable liquids with 90-minutes of protection, tested according to EN 14470-1
- Castors for easy moving of the cabinet
- Outer body and doors/drawers made of sheet steel, light gray
- Easy handling with comfort: doors and drawer can be opened with minimal effort
- Doors and drawers are
 - self-closing and self-sealing in the event of fire and
 - lockable with cylinder locking and locking state indicator



Hazardous material storage

90 Minutes Fire-Rated



Safety Cabinet, Under Counter used, with hinged doors, Order no. M31-8035-U2



Safety Cabinet, Under Counter used, with 2 hinged doors, Order no. M31-8055-U2



Safety Cabinet, Under Counter used, with drawer, Order no. M31-8025-U2



Safety Cabinet, Under Counter used, with drawer, Order no. M31-8045-U2



Castors for easy moving of the cabinet

Capacity	8 gal	8 gal	17 gal	17 gal
Version	with hinged door	with drawer	with hinged door	with drawer
External Dimensions W x D x H (in)	23.4 x 22.6 x 23.6	23.4 x 22.6 x 23.6	43.4 x 22.6 x 23.6	43.4 x 22.6 x 23.6
Internal Dimensions W x D x H (in)	18.5 x 17.8 x 19.8	18.5 x 17.8 x 19.8	38.5 x 17.8 x 19.8	38.5 x 17.8 x 19.8
Sump Capacity [gal]	3.0	3.0	7.1	7.1
Total Load Capacity	660	660	660	660
Shipping Weight [lbs]	286	275	438	440
Order number	M31-8035-U2	M31-8025-U2	M31-8055-U2	M31-8045-U2

Fire-Rated Safety Cabinets

These safety cabinets are independently fire tested and approved by UL, tested and ensure compliance with the most stringent safety regulations and quality standards for the storage of flammable liquids. Tested for long life: 50,000 wear-free open/close operations. The cabinets conform to the requirements of the NFPA 30 and NFPA 1 codes, as well as OSHA. They also meet the fire testing regulations of EN 14 470-1. In addition to conforming to construction specifications and labeling requirements, the cabinets must pass rigorous test protocols. With fulfilment of all these standards and codes, the cabinets provide a safe, secure storage of flammable and combustible liquids, and as a result, minimize the risk of fire.

DENIOS offers Storage Cabinets that meet the FM 6050 test standard and have the maximum protection while fire rated up to 90 minutes, according to EN 14470-1.



Easy to open and safe self-closing wing doors



Visual control of the exhaust air function



Height adjustable tray shelves



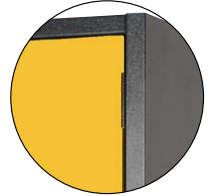
The chemical resistant inner surface of the cabinet



Leak tight welded bottom collecting sump with perforated insert useable as storage level



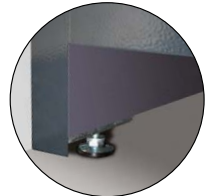
Doors safely lockable with a cylinder lock



Extremely robust design with scratch- and impact-resistant surface, easy to clean



Durable labeling conformal to FM, UL and EN



Levelling feet for easy alignment of the cabinet



- FM 6050 approval and UL / ULC listed
- Safe Storage of flammable liquids with 90-minutes of protection tested according to EN 14470-1
- Absolute minimization of fire risk and protection of storage containers in case of fire
- Robust construction and longevity: triple hinged door; safety elements assembled outside the storage compartment for increased protection against corrosion
- Scratch- and impact-resistant surface; easy to clean
- Body-color Anthracite Gray, with wing doors in Warning Yellow
- Self-sealing doors and self-closing vent connections in the event of a fire for absolute protection of stored flammables and minimization of fire risk

- Easy in-house transport - integrated transport base with optionally available base cover
- Integrated air ducts ready for connection (Ø 3") to a technical exhaust system
- Standard interior equipment with 3 tray shelves, 1 perforated insert, 1 bottom collecting sump (sheet steel powder-coated)
- Safe Storage of flammable liquids with 30 / 90-minutes of protection, tested according to EN 14470-1

90 Minutes Fire-Rated



Safety Cabinet, 23.6 in width,
Order no. M31-8015-U2



Safety Cabinet, 34.2 in width,
Order no. M31-8005-U2



Safety Cabinet, 47 in width
Order no. M31-8020-U2

Capacity	25 gal	50 gal	50 gal	75 gal
Fire Rating	90 minutes	30 minutes	90 minutes	90 minutes
External Dimensions W x D x H (in)	23.6 x 24.2 x 76.9	34 x 24.5 x 77	35.2 x 24.2 x 76.9	47 x 24.2 x 76.9
Internal Dimensions W x D x H (in)	17.7 x 20.5 x 64.8	29.5 x 20 x 64	29.5 x 20.5 x 64.8	41.3 x 20.5 x 64.8
Sump Capacity [gal]	5.8	5.8	5.8	8.7
Total Load Capacity [lbs]	1,323	1,323	1,323	1,323
Shipping Weight [lbs]	704	526	900	1,091
Order number	M31-8015-U2	M31-8010-U2	M31-8005-U2	M31-8020-U2
Additional Equipment				
Order number Base Cover	M31-8018-U2	M31-8006-U2	M31-8006-U2	M31-8011-U2
Order number Tray Shelf	M31-8017-U2	M31-8007-U2	M31-8007-U2	M31-8012-U2

FALCON Safety Cans

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Flammable Safety Cabinets

- Sturdy all welded double wall, steel construction
- Choose from manual or self-closing doors
- 2" wide louvers support shelves, adjustable on 4" centers
- 2" deep leak proof sump
- Safely contains hazardous chemicals, reducing the risk of fire
- Improved security with recessed lockable paddle latch and 3 point locking system
- 2" bunged air vents with flame arrestors on each side of the cabinet allows for ventilation
- Painted in safety yellow powder coat finish



4 Gallon Storage Cabinet, Order no. M31-4150-U2



Go online! Discover even more exciting product highlights!

» www.denios-us.com/shop



12 Gallon Storage Cabinet with legs,
Order no. M31-4112-U2



16 Gallon Storage Cabinet,
Order no. M31-4021-U2

	4 gallon	12 gallon	12 gallon	16 gallon	16 gallon
Version	w/o Legs	w/o Legs	w Legs	w/o Legs	w Legs
External Dimensions W x D x H (in)	17.5 x 18 x 22.5	23 x 18 x 35	23 x 18 x 39	23 x 18 x 44	23 x 18 x 48
Internal Dimensions W x D x H (in)	14.5 x 15 x 19.5	20 x 15 x 32	20 x 15 x 32	20 x 15 x 41	20 x 15 x 41
No. Of Shelves	1	1	1	1	1
Shipping Weight	99	158	187	190	209
Order number Self-Closing	M31-4151-U2	M31-3912-U2	M31-4112-U2	M31-4020-U2	M31-4116-U2
Order number Manual	M31-4150-U2	M31-4010-U2	M31-4113-U2	M31-4021-U2	M31-4117-U2

FALCON Safety Cans

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Hazardous material storage



30 Gallon Storage Cabinet,
Order no. M31-3932-U2



90 Gallon Storage Cabinet,
Order no. M31-4060-U2

	30 gallon	30 gallon	45 gallon	45 gallon
Version	w/o Legs	w Legs	w/o Legs	w Legs
External Dimensions W x D x H (in)	43 x 18 x 44	43 x 18 x 48	43 x 18 x 65	43 x 18 x 69
Internal Dimensions W x D x H (in)	40 x 15 x 41	40 x 15 x 41	40 x 15 x 62	40 x 15 x 62
No. Of Shelves	1	1	2	2
Shipping Weight	288	307	398	418
Order number Self-Closing	M31-4030-U2	M31-4131-U2	M31-4035-U2	M31-4146-U2
Order number Manual	M31-3932-U2	M31-4130-U2	M31-3947-U2	M31-4145-U2

	60 gallon	60 gallon	90 gallon	90 gallon
Version	w/o Legs	w Legs	w/o Legs	w Legs
External Dimensions W x D x H (in)	31.25 x 31.25 x 65	31.25 x 31.25 x 69	43 x 34 x 65	43 x 34 x 69
Internal Dimensions W x D x H (in)	30.7 x 29 x 62	28 x 28 x 62	40 x 31 x 62	31 x 62 x
No. Of Shelves	2	2	2	2
Shipping Weight	505	524	562	594
Order number Manual, Double Doors	M31-4055-U2	M31-4160-U2	M31-4060-U2	M31-4190-U2
Order number Self Closing, Double Doors	M31-4056-U2	M31-4161-U2	M31-4061-U2	M31-4191-U2

Drum Cabinets

- Complies with NFPA Code 30 and OSHA
- Double-walled construction with 1 1/2" air space using 18 gauge steel
- Internal and external weldet construction
- 2" raised, leakproof sill
- Four leveling legs
- Ground connection
- Adjustable steel shelves holds 350 lbs
- Self-latching door with three point latch system
- Flush mounted door handle with key lock
- Vents, with 2" threaded fitting, include fire baffle and cap
- Coated with a yellow, high gloss finish
- Extra Sheves available - call factory for details



55 Gallon Drum Cabinet, manual doors,
Order no. M31-3655-U2



55 Gallon Drum Cabinet, self closing doors,
Order no. M31-3656-U2

All Drum Cabinets comes with drum rollers for
easy loading and unloading of drums

	55 gallon	55 gallon
Door Type	Manual, Double Doors	Self Closing, Double Doors
Features	1 Shelf, Drum Roller	1 Shelf, Drum Roller
External Dimensions W x D x H (in)	34 x 34 x 65	34 x 34 x 66.4
Shipping Weight	527	501
Order number	M31-3655-U2	M31-3656-U2

Spill Containment Sumps for Cabinets

Added spill volume provided by sumps makes cabinets spill compliant under EPA and UFC regulations

- Provide added spill containment capacity with ou flammable safety cabinet sumps
- Flammable Cabinets typically are designed to provide containment for 5-gallon safety cans. Models holding 55-gallon drums do not provide adequate spill containment -unless they are combined with DENIOS' Flammable cabinet sumps
- Sump design will not impede or block the opening and closing of cabinet doors



Added spill volume provided by sumps makes cabinets spill compliant under EPA and UFC regulations



These sumps provide added capacity, bringing the Safety Cabinet into spill compliance.



Galvanized Braces on vertical drum models stabilize cabinets during drum loading.

Added spill volume provided by sumps makes cabinets spill compliant under EPA and UFC regulations
Order no. K17-3081-U2

Sumps for Cabinets with	1 Drum Horizontal	1 Drum Vertical	2 Drum Vertical
External Dimensions W x D x H (in)	36 x 54 x 11	36 x 36 x 14	62 x 36 x 11
Sump Capacity (gal)	70	70	78
Total Load Capacity (lbs)	600	600	1,200
Shipping Weight (lbs)	150	165	180
Order number	K17-3087-U2	K17-3081-U2	K17-3082-U2

Storage Cabinets for Lithium-Ion Batteries

90 Minutes Fire-Rated

These safety cabinets are independently fire tested and approved, ensuring compliance with the most stringent safety regulations and quality standards. Tested for long life: 50,000 wear-free open/close operations. These cabinets provide a safe, secure storage of batteries, and as a result, minimize the risk of fire.

- Active Charging and Storage cabinet for undamaged Lithium-Ion Batteries
- All-round protection: 90 minute fire protection from the outside in (Type 90) in accordance with European Norm EN 14470-1
- Over 90 minutes fire resistance for a fire acting from inside to out, in line with EN 1363-1
- With tested, liquid-tight spill sump (powder coated sheet steel). For containment of any leaks from burning batteries

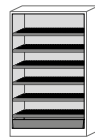
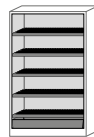
i The grid shelves are height adjustable on all cabinets without charging facilities. Body-color is always anthracite gray, wing doors in gentian blue.



Battery Cabinets - Fire-Rated - wide model - with 3 shelves
Order no. M31-8083-U2



Battery Cabinets - Fire-Rated - wide model - with 6 shelves
Order no. M31-8086-U2



Version	Wide - 47 "			
External Dimensions W x D x H (in)	23.58 x 24.21 x 76.88		46.96 x 24.21 x 87.55	
Internal Dimensions W x D x H (in)	41.3 x 20.5 x 64.8			
No. Of Shelves	3	4	5	6
Features	Bottom collection sump	Bottom collection sump	Bottom collection sump	Bottom collection sump
Sump Capacity [gal]	2.9	8.7	8.7	8.7
Shipping Weight [lbs]	645	995	995	995
Order number	M31-8083-U2	M31-8084-U2	M31-8085-U2	M31-8086-U2
Accessories: Base Cover				
Order number	M31-8088-U2	M31-8088-U2	M31-8088-U2	M31-8088-U2

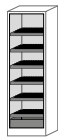
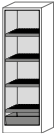
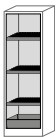
- With permanently self-closing doors and quality oil-damped door closers
- Doors can be locked with a profile cylinder (closing system compatible) and lock indicator (red/green)
- With adjustable feet to be used on uneven floor surfaces
- Extremely robust construction with scratch-proof paint
- Integral base, accessible underneath, making it easy to change location (base can be closed off by optional panel). However, in order to ensure rapid evacuation in an emergency, we recommend using the cabinet without the Base Cover
- For the safe, passive storage of lithium-ion batteries



Battery Cabinets - Fire-Rated - narrow model - with 3 shelves
Order no. M31-8090-U2



Battery Cabinets - Fire-Rated - narrow model - with 5 shelves
Order no. M31-8092-U2



Version	Narrow - 26.3"			
External Dimensions W x D x H (in)	23.58 x 24.21 x 76.88			
Internal Dimensions W x D x H (in)	17.7 x 20.5 x 64.8			
No. Of Shelves	3	4	5	6
Features	Bottom collection sump	Bottom collection sump	Bottom collection sump	Bottom collection sump
Sump Capacity [gal]	5.8	5.8	5.8	5.8
Shipping Weight [lbs]	645	645	645	645
Order number	M31-8090-U2	M31-8091-U2	M31-8092-U2	M31-8093-U2
Accessories: Base Cover				
Order number	M31-8095-U2	M31-8095-U2	M31-8095-U2	M31-8095-U2

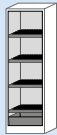
Fire Rated Charging Cabinet
with Smoke Detector and integrated
Power Strips

- with the same benefits as described before, plus charging equipment
- 2 Power Strips with 7 Sockets each
- Smoke detector with external alarm contact and connection to a permanently stayed building services management



Fire Rated Charging Cabinet,
Order no. M31-8098-U2

RECOMMENDED BY
PROFESSIONALS



Version	Charging Cabinet
External Dimensions W x D x H (in)	23.58 x 24.21 x 76.88
Internal Dimensions W x D x H (in)	17.7 x 20.5 x 64.8
No. Of Shelves	4
Features	2 power strips with 7 sockets each, Bottom collecting sump
Sump Capacity [gal]	5.8
Shipping Weight [lbs]	645
Order number	M31-8098-U2
Accessories: Base Cover	
Order number	M31-8095-U2



PolySafe Depot with shelf, allowing safe storage of small containers

PolySafe Chemical Storage Depots

DENIOS Environmental PolySafe Depots allow you to store non-flammable liquids like Oil, Lubricants, and Coolants as well as aggressive bases or acids. Use them to ensure the safe, legally compliant storage of water-polluting and aggressive liquids.



All Environmental Stations PolyStore offer easy access to all containers through wide opening doors
Order no. K22-0540-U2



PolySafe Depot, allowing safe storage of up to 2 drums (55 gal.)
Order no. K22-0545-U2



PolySafe Depots can also be used as a dispensing station
Order no. K22-0545-U2



Storage Capacity	Small Containers	2 Drums (55 gal)
Included in delivery	3 Shelf System with trays	Poly grid
External Dimensions W x D x H (in)	61.5 x 42.6 x 78	61.5 x 42.6 x 78
Internal Dimensions W x D x H (in)	53.9 x 35.8 x 59	53.9 x 35.8 x 59
Sump Capacity [gal]	66	66
Total Load Capacity [lbs]	1,665	1,760
Shipping Weight [lbs]	381	276
Order number	K22-0540-U2	K22-0545-U2
Accessories	Mounting Kit	
Order number	K22-0551-U2	K22-0551-U2

- For Indoor and Outdoor use
- For the safe storage of water-polluting and aggressive liquids
- High chemical resistance because of manufactured entirely from environmentally friendly polyethylene
- Modern design with housing in gray and hinged double-wing doors blue
- The transparent pocket in the door can be used for storing safety data sheets, protective gloves, or goggles for example
- Doors with safety lock
- Rugged, corrosion-free, and weather-resistant

- Integrated spill pallet
- Integrated forklift pockets
- Choose between models for 2 or 4 drums, 1 IBC, or small containers stored on a shelf



The transparent pocket in the door can be used for storing safety data sheets, protective gloves, or goggles for example



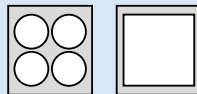
Storage Surface for easy and safe storage of Drums and IBC Containers



PolySafe Depot, allowing safe storage of up to 4 drums (55 gal.)
Order no. K22-0550-U2



PolySafe Depot
Order no. K22-0550-U2



Storage Capacity	4 Drums (55 gal) or 1 IBC (275 gal)
Included in delivery	Storage Surface
External Dimensions W x D x H (in)	61.5 x 61.1 x 91.8
Internal Dimensions W x D x H (in)	53.9 x 52.3 x 59
Sump Capacity [gal]	275
Total Load Capacity [lbs]	4,410
Shipping Weight [lbs]	431
Order number	K22-0550-U2
Accessories	Mounting Kit
Order number	K22-0551-U2

Poly Hazard & Job Huts

- Constructed from rugged, UV resistant polyethylene
- The one-piece molded frame is weatherproof, while the hinged doors are lockable for added security
- Molded-in passive venting reduces fumes
- Four-way forkliftable
- Removable grates cover the sump for easy cleaning
- Optional ramp for easy loading



Compliant storage and containment for 55-gallon drums in reference to EPA 40 CFR 264, 175, SPCC, NPDES and UFC regulations



Hazard Hut can store 4 Drums
Order no. M76-1166-U2



Job Hut can store and dispense up to 8 drums
Order no. K22-0535-U2

Version	Hazard Hut
Storage Capacity	4 Drums
External Dimensions W x D x H (in)	72 x 64 x 72
Internal Dimensions W x D x H (in)	53.8 x 53.8 x 52.2
Sump Capacity [gal]	72
Total Load Capacity [lbs]	4,000
Shipping Weight [lbs]	250
Order number	M76-1166-U2
Accessories	Ramp
Order number	M76-1167-U2

Version	Job Hut
Storage Capacity	up to 8 Drums
External Dimensions W x D x H (in)	85.5 x 61.5 x 94
Internal Dimensions W x D x H (in)	70 x 51 x 82
Sump Capacity [gal]	72
Total Load Capacity [lbs]	8,000
Shipping Weight [lbs]	452
Order number	K22-0535-U2
Accessories	Ramp
Order number	M76-1381-U2

Optional Accessory

Ramp for Hazard Hut

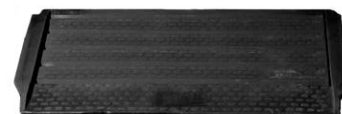
- Easily load drums into your Hazard Hut by hand truck with this durable ramp
- It has wheels to roll into place, integrally molded handles, an ergonomic 10-degree slope, and a non-skid surface.



Ramp, Order no. M76-1167-U2

Ramp for Job Hut

- Easily load a variety of containment products with a hand truck with this handy ramp
- The textured surface prevents slips, while the ergonomic design is easy to lock in place or remove for storage.



Ramp, Order no. M76-1381-U2

Drum Depots with Roll-Up-Door

Drum Depots with Roll-Up-Door are a sturdy, ideal solution for indoor & outdoor storage of up to four (4) 55-gallon drums. These uniquely engineered, roll-top cover-designed Spill pallets allow for ample use in limited space or next to buildings where swing doors would be a problem. Extended vertical space allows for continued use of drum pumps and funnels.

- EPA 40 CFR 264, 175, SPCC, NPDES and UFC Regulations
- Weatherproof for the harshest conditions
- Lockable Door for added security (lock not included)

- Optimal height for drum dispensing advantage
- Removable grates for easy cleaning
- Ships unassembled to save on freight



Drum Depot for 2 Drums
Order no. K22-0525-U2



Order no. K22-0530-U2

Order no. M76-1377-U2

Storage Capacity	2 Drums (55 gal)	4 Drums (55 gal)
External Dimensions W x D x H (in)	60 x 37.3 x 72.8	65 x 58 x 69
Internal Dimensions W x D x H (in)	51 x 30 x 52	49 x 54 x 53.5
Sump Capacity [gal]	58	66
Shipping Weight [lbs]	222	300
Order number	K22-0525-U2	K22-0530-U2
Accessories		
Order number Poly Ramp, 12.5 in High	M76-1377-U2	M76-1377-U2
Order number Poly Ramp Extender	K22-0526-U2	—

Safety Packs

This tough, indoor/outdoor performer protects two (2) 55-gallon drums while containing leaks with a 130-gallon sump capacity. Security locks are included to secure the covers and contents.

- Tough, chemically resistant poly design is UV protected
- 100% polyethylene has excellent resistance to chemicals and weather
- Unique gull-wing covers provide easy drum access and removal
- Translucent sidewalls allow for an immediate view of liquids, so you won't need to open the lids to see if there has been a leak
- Easy handled by forklift from two sides

Version	SafetyPack Low	SafetyPack High
External Dimensions W x D x H (in)	60.5 x 35 x 46.5	60.5 x 35 x 63.3
Internal Dimensions W x D x H (in)	52.4 x 26.3 x 37	51.3 x 26.3 x 54.3
Sump Capacity	130	264
Total Load Capacity [lbs]	1,200	1,200
Shipping Weight [lbs]	107	140
Order number - w/o Drain	M76-1154-U2	M76-1155-U2
Order number - w/ Drain	M76-1554-U2	M76-1555-U2



Safety Pack Low, for storing two drums
Order no. M76-1154-U2



Safety Pack High, for storing and dispensing
Order no. M76-1155-U2



HazMat Stations for 2 drums, or smaller containers

DENIOS HazMat Stations are designed to provide a safe, secure environment for the storage of hazardous materials. Featuring a weather-proof, lockable hinged lid and doors, they provide personnel easy access to the tops of drums and other stored chemicals for dispensing and mixing operations. When dispensing, any spills or drips are contained by a built-in, compliant spill sump.

- Modern Design while using the most up to date production methods
- Extremely sturdy design for long life uses through many years
- Hinged Doors with Safety Lock
- Four-way forkliftable
- Sealed sump in the bottom of the HazMat station, 100% inspected with a low-viscous test to insure leak tightness
- For direct access to the tops of drums, the lid lifts easily and is supported by heavy-duty gas cylinders
- Meet EPA & UFC requirements, SPCC Compliant
- Passive ventilation is standard
- Coated with a durable, corrosion and weather-resistant finish
- Removable galvanized steel grating for easy clean-up
- Available for storing drums or small containers

Storing up to
2 Drums



Enclosed HazMat Station for storing 2 drums directly on the grating or together with a pallet

Storage Capacity	2 Drums (55 gal)
External Dimensions W x D x H (in)	54 x 35 x 58
Internal Dimensions W x D x H (in)	52 x 32 x 40
Sump Capacity [gal]	66
Total Load Capacity [lbs]	1,200
Shipping Weight [lbs]	415
Order number*	K17-4500-U2

*Call for Details and Prices

Use Spill Containment Sumps for your safe storage of hazardous materials

See page
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Enclosed HazMat Station storing small containers on two levels, Order no. K17-4501-U2



Enclosed HazMat Station storing small containers on three levels, Order no. K17-4502-U2

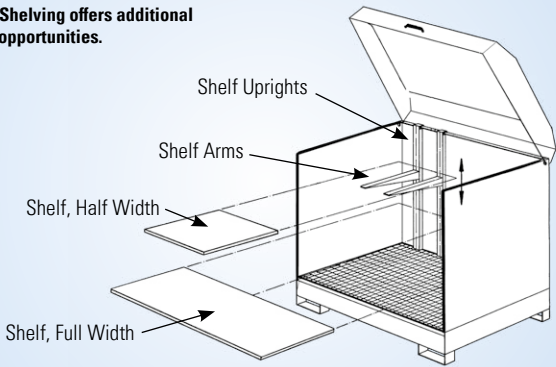


Enclosed HazMat Station for 2 Drums



Enclosed HazMat Station for storing 2 drums directly on the grating or together with a pallet

HazMat Shelving offers additional storage opportunities.



Description	Half width shelf package	Half width shelf adder	Full width shelf package	Full width shelf adder
External Dimensions W x D (in)	23 x 18.5	23 x 18.5	46 x 18.5	46 x 18.5
Load Capacity lbs [lbs]	265	265	530	530
	60	50	110	95
Order number	K17-4510-U2	K17-4511-U2	K17-4515-U2	K17-4516-U2

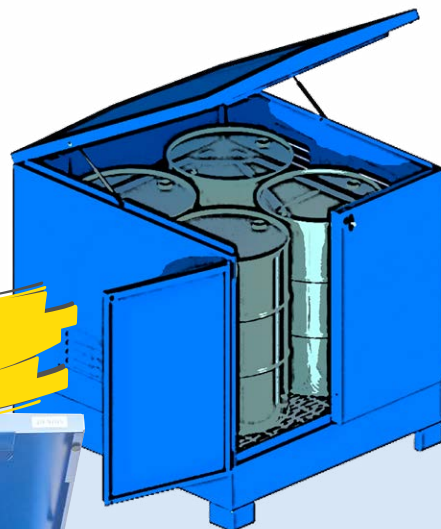


HazMat Stations for 2 and 4 Drums or smaller containers

DENIOS HazMat Stations are designed to provide a safe, secure environment for the storage of hazardous materials. Featuring a weather-proof, lockable hinged lid and doors, they provide personnel easy access to the tops of drums and other stored chemicals for dispensing and mixing operations. When dispensing, any spills or drips are contained by a built-in, compliant spill sump.

- Modern Design while using the most up to date production methods
- Extremely sturdy design for long life uses through many years
- Hinged Doors with Safety Lock
- Four-way forkliftable
- Sealed sump in the bottom of the HazMat station, 100% inspected with a low-viscous test to insure leak tightness
- For direct access to the tops of drums, the lid lifts easily and is supported by heavy-duty gas cylinders
- Meet EPA & UFC requirements, SPCC Compliant
- Passive ventilation is standard
- Coated with a durable, corrosion and weather-resistant finish
- Removable galvanized steel grating for easy clean-up
- Available for storing drums or small containers

**Storing up to
4 Drums**

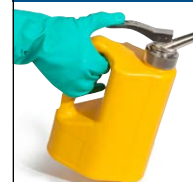


Enclosed HazMat Station for 4 drums

Storage Capacity	4 Drums (55 gal)
External Dimensions W x D x H (in)	54 x 57 x 58
Internal Dimensions W x D x H (in)	52 x 54 x 40
Sump Capacity (gal)	66
Total Load Capacity (lbs)	2,400
Shipping Weight (lbs)	575
Order number*	K17-4505-U2

*Call for Details and Prices

Safety Cans



See page
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Enclosed HazMat Station for storing small containers, plus drum cradle for one horizontal drum, Order no. K17-4507-U2



Enclosed HazMat Station storing small containers together with 2 drums, Order no. K17-4506-U2

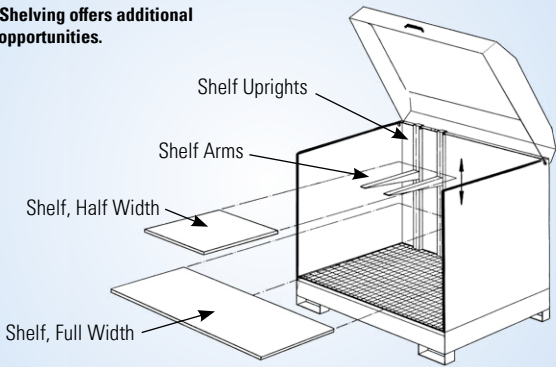


Enclosed HazMat Station for 4 drums



Enclosed HazMat Station for storing 4 drums directly on the grating or together with a pallet

HazMat Shelving offers additional storage opportunities.



Description	Half width shelf package	Half width shelf adder	Full width shelf package	Full width shelf adder
External Dimensions W x D (in)	23 x 18.5	23 x 18.5	46 x 18.5	46 x 18.5
Total Load Capacity [lbs]	265	265	530	530
Shipping Weight [lbs]	60	50	110	95
Order number	K17-4510-U2	K17-4511-U2	K17-4515-U2	K17-4516-U2



SolidMaxx Hazmat Lockers - for storage of drums and IBC

The compact SolidMaxx hazmat store has a sturdy design and uses the storage capacity available on a small footprint to best advantage.

- Sturdy, corrosion-resistant steel design
- Forklift access underneath for easy moving and loading
- Integrated a drainage system in the roof
- Fitted with lifting eyes for easy lifting and transporting
- Air gap running around 3 sides ensures ventilation
- Can be fitted with power sockets and lighting if required



SolidMaxx Hazmat Lockers - for storage of up 4 drums or 1 IBC



SolidMaxx Hazmat Lockers - for storage of up 4 drums or 1 IBC

i The compact SolidMaxx Hazmat Locker has a sturdy design and has the storage capacity you need with a small footprint. They are corrosion-protected, durable, cost-effective, and stylish and are always equipped with an integral spill pallet to prevent leaks and spills from spreading into the environment. Access underneath ensures a pallet truck or forklift can be used for loading and transporting. An air gap running around 3 sides ensures natural ventilation for the hazmat locker. These lockers can hold up to 2 IBCs or 8 Drums. The raised versions can have a dispensing platform added to turn your SolidMaxx into a compliant Dispensing Station. With appropriate equipment, corrosive, and flammable substances can be stored.



SolidMaxx Hazmat Lockers - for storage of up to 8 drums, 2 IBC, or a combination with 1 IBC and 4 drums

Storage Capacity	1 IBC / 4 drums	2 IBC / 8 drums
External Dimensions W x D x H (in)	67 x 63 x 81	114 x 63 x 81
Internal Dimensions W x D x H (in)	53 x 52 x 55	100 x 51 x 55
No. of Doors	1 hinged door	2 hinged doors
Sump Capacity (gal)	385	385
Total Load Capacity (lbs)	4,100	8,200
Shipping Weight (lbs)	1,600	2,080
Order number	L25-4100-U2	L25-8100-U2

SolidMaxx Hazmat Lockers - IBC Filling Stations

The compact SolidMaxx hazmat store has a sturdy design and uses the storage capacity available on a small footprint to best advantage.

- Takes overall advantages of the SolidMaxx version as described on the previous pages
- In this tall version, the integrated dispensing stand can be used to turn into a dispensing station for IBC totes

i The compact SolidMaxx Hazmat Locker has a sturdy design and has the storage capacity you need with a small footprint. They are corrosion-protected, durable, cost-effective, and stylish and are always equipped with an integral spill pallet to prevent leaks and spills from spreading into the environment. Access underneath ensures a pallet truck or forklift can be used for loading and transporting. An air gap running around 3 sides ensures natural ventilation for the hazmat locker. These lockers can hold up to 2 IBCs or 8 Drums. The raised versions can have a dispensing platform added to turn your SolidMaxx into a compliant Dispensing Station. With appropriate equipment, corrosive, and flammable substances can be stored.



SolidMaxx Hazmat Lockers for one IBC,
with dispensing stand



SolidMaxx Hazmat Lockers for one IBC,
with dispensing stand



SolidMaxx Hazmat Lockers for two IBC, with optional second dispensing stand



Storage Capacity	1 IBC	2 IBC
Features	incl. one dispensing stand, galvanized	incl. two dispensing stands, galvanized
External Dimensions W x D x H (in)	69 x 75 x 93	119 x 75 x 91
Internal Dimensions W x D x H (in)	55 x 63 x 70	104 x 63 x 70
No. of Doors	1 hinged door	2 hinged doors
Sump Capacity (gal)	385	385
Total Load Capacity (lbs)	4,100	8,200
Shipping Weight (lbs)	1,660	2,160
Order number	L25-4200-U2	L25-8200-U2



A Safer Storage Alternative

DENIOS is the pioneer in the development of Drum and IBC Non-Occupancy Storage Buildings as a safer and more efficient alternative to walk-in buildings for chemical storage.

The practical design of Non-Occupancy Buildings, featuring full-face opening door styles, allows all materials to be moved via forklift, relieving personnel from having to enter a potentially hazardous environment.

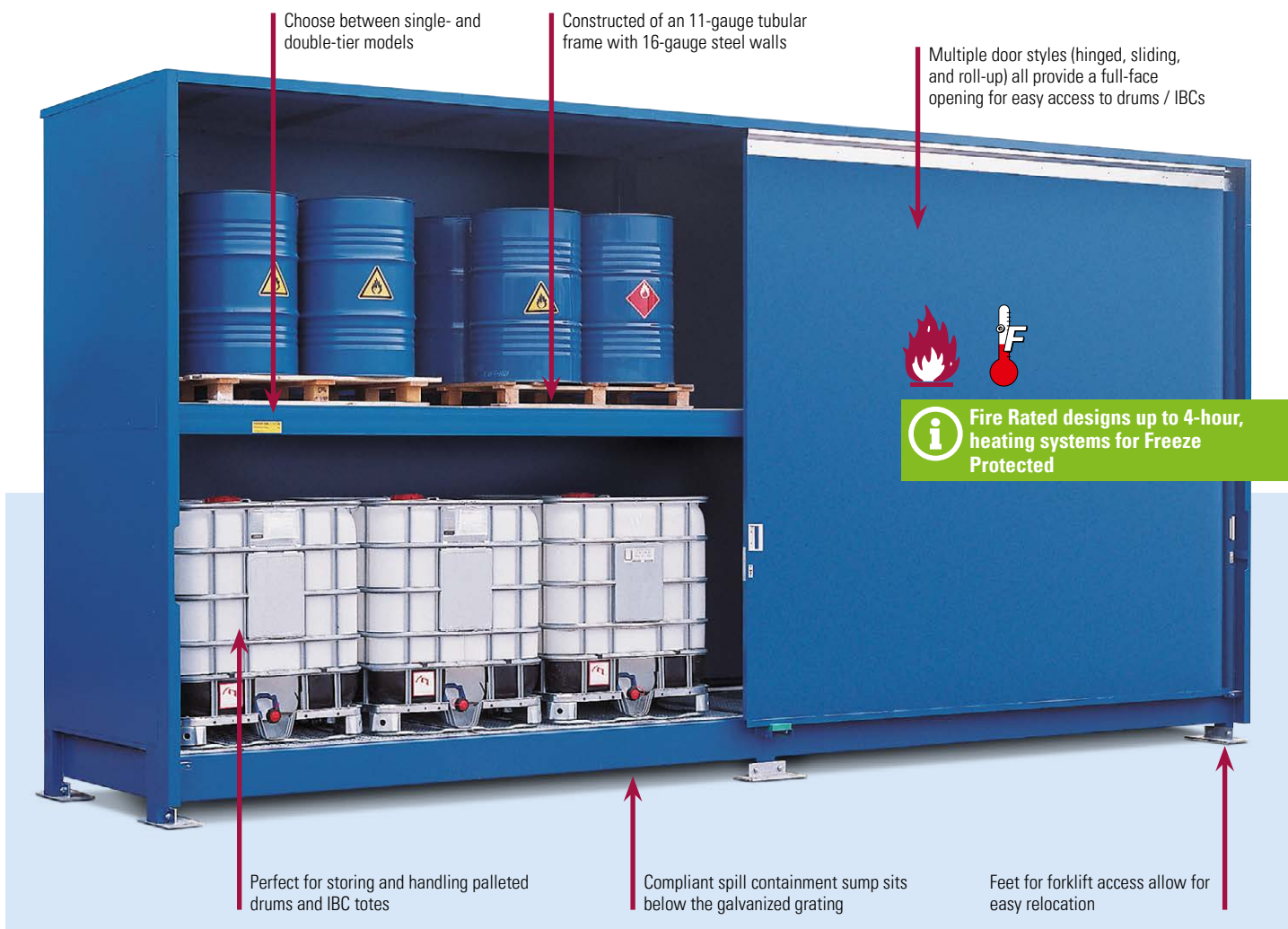
DENIOS manufactures the widest variety of styles of Non-Occupancy Buildings available on the market today. Choose between single- or multi-tiered designs with either single- or double-sided access. Non-Occupancy Buildings are suitable for indoor or outdoor placement and provide complete physical separation of stored chemicals from the surrounding facility and/or from other incompatible chemicals or ignition sources.

Sizes and Styles:

- Individual storage bays sized for 2 or 3 pallets of drums or 2 or 3 IBCs
- Bays are arranged in configurations offering single- or double-tier heights
- Models are available with single-sided or double-sided access (back-to-back bays)
- All units are built to accommodate outdoor placement

Common Applications for Non-Occupancy Buildings:

- Segregated indoor or outdoor storage of flammable or other process chemicals
- Separation of flammable liquids from general warehousing areas
- Temperature-controlled outdoor storage of raw materials
- Higher volume waste accumulation and storage areas





Applicable Regulations

DENIOS Non-Occupancy Buildings meet the federal requirements for spill containment of hazardous liquids as regulated by the EPA (40 CFR).

DENIOS follows NFPA 30 regulations for specification compliance for outdoor (Flammable Storage Lockers) as well as indoor (Inside Liquid Storage Rooms) placement.

Although not designated as Occupancies or Structures, load ratings for Non-Occupancy Buildings (seismic, wind, and roof) generally follow the same guidelines as provided for prefabricated Occupancy Buildings.

Non-Occupancy Building designs can be provided with 3rd Party Engineering Approvals.

Due to local code variance and different enforcement philosophies, DENIOS always recommends checking with the Local Authority Having Jurisdiction to verify that a specific configuration will comply with local codes.

For your further reference

Hazardous materials storage is regulated by EPA at the federal level by the Code of Federal Regulations (40 CFR).

At the state and local levels, Fire Codes such as IFC, UFC, NFPA 30 (Storage and Handling of Flammable Liquids), Building Codes (UBC & IBC) and other requirements specific to State and Local jurisdictions may also apply. Typical local code issues include wind load, snow load, seismic zone, fire rating and, separation of flammable storage from the nearest building.

Benefit from our Experience

DENIOS has been designing and manufacturing chemical storage enclosures for over 35 years.

By working closely with customers in solving their unique storage challenges, we have been able to translate those solutions into standard products which can provide compliant storage for most industries and applications.

How should substances be stored?



Storing drums directly



Storing IBCs



Insulated system

Range of door options- all doors lockable



Sliding doors



Hinged doors



Roll-up doors



DENIOS Non-Occupancy Buildings are available with single-sided and double-sided access.

- International Fire Code (IFC)
- International Building Code (IBC)
- Code of Federal Regulations (CFR)
- Environmental Protection Act (EPA)
- National Fire Protection Assn. (NFPA)
- Uniform Fire Code (UFC)
- Uniform Building Code (UBC)
- FM 6049

Codes and Regulations Governing the Storage of Hazardous Chemicals and Processes



Introduction

Governmental codes and regulations dictate the correct selection and placement of hazardous chemical storage Lockers, Non-Occupancy Buildings, and Occupancy Buildings. The characteristics of the stored material, for example, flammability, pH, material storage temperature, the size and type of container(s), the total quantity stored, and the storage location in relation to other structures will determine which code(s) and regulations pertaining to your application.

Independent 3rd party testing agencies such as Factory Mutual have developed standards for the storage of flammable and other hazardous materials. DENIOS sells and produces Factory Mutual-approved products.

DENIOS sales and engineering professionals are well versed in the requirements of applicable codes as they pertain to the storage of hazardous chemicals. However, the local code enforcement official or "Authority Having Jurisdiction" is the office closest to the situation with the responsibility to interpret the applicable codes considering all local factors. The local "AHJ" should always be consulted before purchasing any type of hazardous material storage equipment. DENIOS is always available to assist its customers with supplementary information to support the approval process.

DENIOS Quality Assurance Program

As part of our ongoing commitment to quality, DENIOS maintains a formalized, structured Quality Assurance Program. This program mandates that designs are checked and rechecked by 3rd Party Engineering firms for structural loading, seismic, and other code compliance factors.

DENIOS equipment is also engineered to satisfy any number of regulatory agencies that are engineered to National and Provincial codes. Where permitted DENIOS will follow the recommendations of authorized 3rd parties such as FM Global.

Concerning equipment manufacture, our Quality Assurance Program also ensures all products are thoroughly inspected and tested before shipping. Tests range from but are not limited to, pre-paint sump weld leak tests to temperature control tests for our heated and cooled structures. Testing is documented and witnessed by our Engineering, Technical Sales, and Production staff.

The DENIOS System

The DENIOS System of storage Lockers, Occupancy Buildings, and Non-Occupancy Buildings specifically address the material handling and processing need of the client. All our structures are designed for placement indoors or out and can be easily relocated via crane or forklift. All provide options for fire rating, explosion protection, and temperature control. All designs address what and how much is being stored and how often it needs to be handled. And all are compliant.

Lockers:

Engineered for small volume storage and processing, Lockers will accommodate 2-14 drums or 1-2 intermediate bulk containers. Available door styles allow for easy access to the chemicals by forklift. Typical uses include exterior storage of flammables and combustibles, remote storage, and dispensing stations for truck and rail terminals, and insulated and heated storage for processing and freeze protection.

Non-Occupancy Buildings:

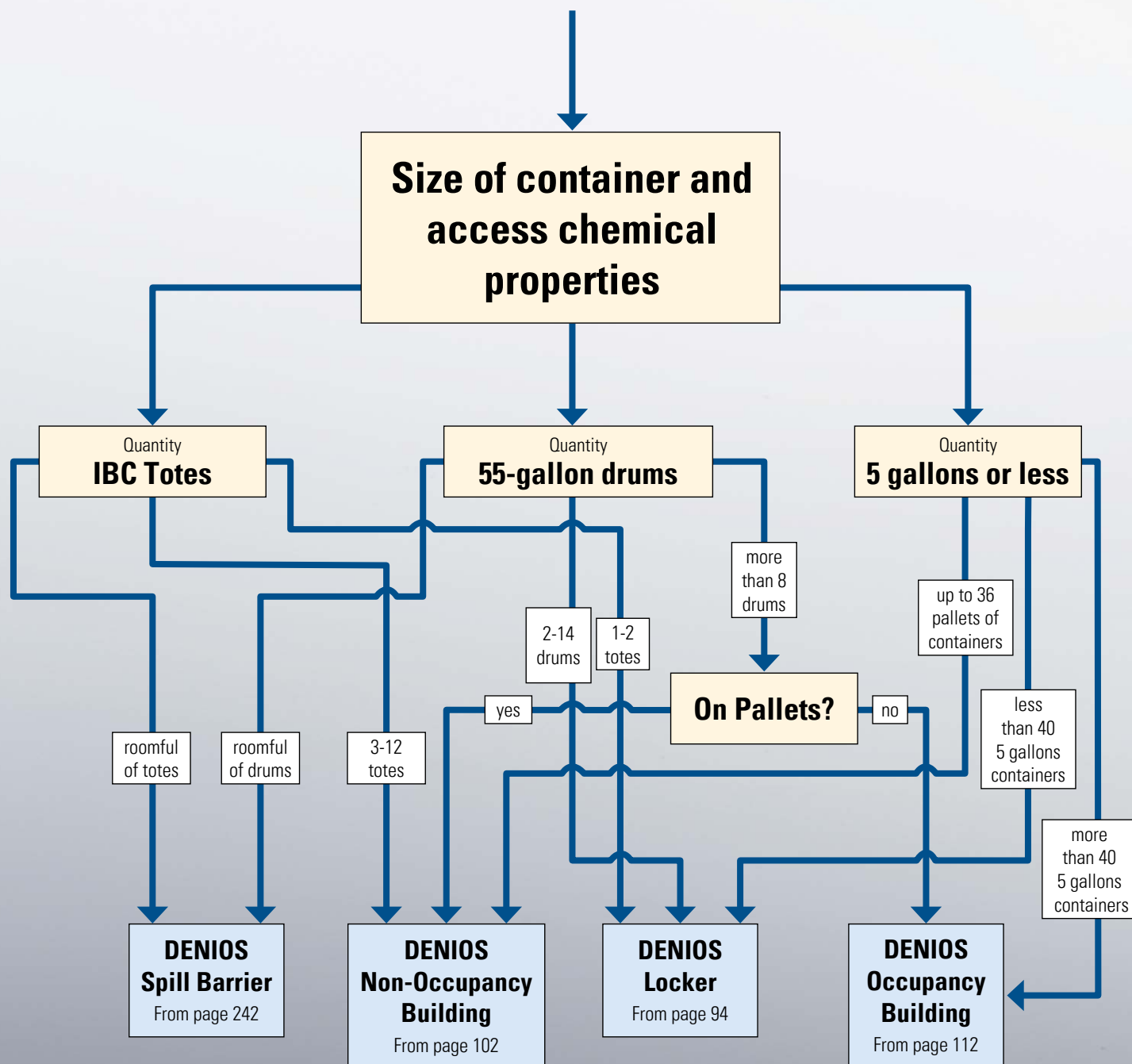
Designed for large volume storage needs, Non-Occupancy Buildings come in single or double-sided access and provide up to three tiers and 12 bays of storage space. A variety of door styles, all allow for forklift access to every stored pallet of drums, thus simplifying handling and eliminating any personnel exposure to chemicals or fumes inside the Non-Occupancy Building.

Occupancy Buildings:

Often utilized for housing dangerous processes such as mixing and pumping flammable paints and resins, Occupancy Buildings provide a secure enclosure isolating any hazardous chemical dispensing, mixing, and processing away from personnel and the rest of the facility.

Chemical Storage Equipment Selection Guide

Chemical Storage Requirement





Non-Occupancy Storage Building. Exclusive to DENIOS, FM Approval (Class 6049)

Third-party approvals for Hazardous Material Occupancy Buildings have been around since 1991 in the form of FM class 6049. FM began approving hazardous material storage Occupancy Buildings with the first edition of CLASS 6049 in that year. This FM "standard" has remained the de facto standard in the US, unchallenged since that time. Manufacturers that receive FM approval have submitted their designs to a third-party and then to FM for review in accordance with the standard. This includes reviewing the structural integrity including floor and snow loads in accordance with relevant building codes. This becomes essential in certain coastal areas and mountainous locations. The standard further evaluates the integrity of fire-rated walls and ceilings and certify the stated containment sump capacity.

An FM-approved Occupancy Building should be labeled as such by the manufacturer. The text of the approval document prescribes what must be on the label.

DENIOS Buildings are labeled via data plate with the following info:

- Place of manufacture
- Model number
- Design floor
- Wind and snow loads
- Fire rating of walls

It also includes whether the Occupancy Building is constructed with damage limiting construction (DLC) also known as deflagration panels, and the electrical classification and temperature classification of any and all electrical equipment installed in the building.



DENIOS – Leading Supplier of FM Approved Chemical Containment Products.



DENIOS FM Approved fire-rated Non-Occupancy Building.

- Vent hoods included
- Individual storage bays sized for 2 or 3 pallets of drums or 2 or 3 IBCs
- Bays are arranged in configurations offering single- or double- heights
- Models are available with single-sided access
- Multiple door choices include hinged and sliding designs

- All units are built to accommodate outdoor placement
- Segregated outdoor storage of flammable or other process chemicals
- Separation of flammable liquids from general warehousing areas
- Temperature-controlled outdoor storage of liquid chemicals
- Higher volume waste accumulation and storage areas



The sliding doors open, providing easy access to the stored drums

Contact Us! For questions about any of your hazardous chemicals storage or processing needs, contact us at:



800-216-7776
info@denios-us.com





- Vent hoods included
- Individual storage bays sized for 2 or 3 pallets of drums or 2 or 3 IBCs
- Bays are arranged in configurations offering single-, double-, or triple-tier heights
- Models are available with single-sided access
- Roll-up doors are UL-Listed, 3-hour fire-rated doors
- All units are built to accommodate both indoor and outdoor placement
- Segregated indoor and/or outdoor storage of flammable or other process chemicals
- Separation of flammable liquids from general warehousing areas
- Temperature-controlled outdoor storage of liquid chemicals
- Higher volume waste accumulation and storage areas



Double-tiered storage Non-Occupancy Building with hinged doors for 4 IBCs



2-Hour and 4-Hour Fire Rated, Single-Sided Access



Fire-rated design options for either 2 or 4-hour duration



DENIOS – Leading Supplier of FM Approved Chemical Containment Products.



Note: 150 MPH construction available for high wind areas. Contact us for details.



Contact Us! For questions about any of your hazardous chemicals storage or processing needs, contact us at:



800-216-7776

info@denios-us.com



DENIOS FM Approved fire-rated Non-Occupancy Building.



Fire-Rated Storage Buildings - for up to 4 IBC or 16 Drums

These 2-hour Fire-rated storage buildings are the best solution when larger quantities of hazardous substances or larger containers need to be accommodated. Buildings with 2 tiers have an integrated heavy-duty rack with adjustable shelves. The interior can thus be used optimally and with the best utilization of space: for example, for the storage of individual drums or IBCs, for crate storage, on pallets, or with special transport racks. Even the basic version of a fire-rated storage container RFP is approved for the storage, dispensing, or removal of water-polluting and flammable substances. Basic equipment includes:



Note: 150 MPH construction available for high wind areas. Contact us for details.



Non-occupancy Storage Building,
for storing 2 IBC-totes or up to 8 drums

- External cladding in fire protection panels (A class material) with high insulation properties: material thickness 4"-inch, $U = 0.36 \text{ W / (m}^2\text{K)}$
- Support frame made of hot dip galvanized base material
- Easy to use roll-up door (fire-rated) on the long side

- Security lock for protection against unauthorized access
- Tested, a one-piece spill pallet with a large containment volume
- Removable crane eyes for safe use with a crane and transport safety device



Non-occupancy Storage Building, for storing 4 drums and smaller containers on an optional shelf



Non-occupancy Storage Building with Rack, for storing drums and IBC-totes on two levels

Drum Storage	4 Drums	8 Drums	16 Drums
IBC Storage	2 IBC	4 IBC	
External Dimensions W x D x H (ft)	8.5 x 7.4 x 10	12.5 x 7.4 x 10	12.5 x 7.4 x 12.9
Sump Capacity (gal)	224	374	374
Bay Dimensions W x D x H (in)	80 x 74.7 x 56.5	127.7 x 80 x 56.5	121.5 x 124.7 x 56.5
2nd Bay Dimensions W x D x H	—	—	124.7 x 121.5 x 56.5
Number of Storage Tiers	1	1	2
Tier Dimensions W x D (in)	—	—	108 x 48
Floor Load Capacity [psf]	250	250	250
2nd Load Capacity per Bay [lbs]	5,000	—	9,000
Weight [lbs]	5,084	7,711	8,368
Order number	L95-1211-U2	L95-3212-U2	L95-3313-U2

Optional Accessory



Heating



Sprinkler Systems for wet



Dry Chem System



Temperature Regulators



Cooling Systems



Exhaust Fans


The innovative technology of the RFP Storage Buildings is also an extremely good basis for the storage of lithium-ion batteries. Equipped with additional safety devices (for example extinguishing technology) the room systems offer to you the ideal protection.



Fire-Rated Storage Buildings - for up to 12 IBC or 48 Drums

These 2-hour Fire-rated storage buildings are the best solution when larger quantities of hazardous substances or larger containers need to be accommodated. Buildings with 2 tiers have an integrated heavy-duty rack with adjustable shelves. The interior can thus be used optimally and with the best utilization of space: for example, for the storage of individual drums or IBCs, for crate storage, on pallets, or with special transport racks. Even the basic version of a fire-rated storage container RFP is approved for the storage, dispensing, or removal of water-polluting and flammable substances. Basic equipment includes:



Non-occupancy Storage Building with Rack,
for storing up to 32 drums or 8 IBC-totes on two levels



Non-occupancy Storage Building with Rack, for
storing up to 48 drums or 12 IBC-totes on two levels

- External cladding in fire protection panels (A class material) with high insulation properties: material thickness 4"-inch, U = 0.36 W / (m²K)
 - Support frame made of hot dip galvanized base material
 - With 2 easy use roll-up doors (fire-rated) on the long side (one per storage bay)
- Tested, a one-piece spill pallet with a large containment volume
 - Security lock for protection against unauthorized access
 - Removable crane eyes for safe use with a crane and transport safety device



The innovative technology of the RFP Storage Buildings is also an extremely good basis for the storage of lithium-ion batteries. Equipped with additional safety devices (for example extinguishing technology) the room systems offer to you the ideal protection.



Non-occupancy Storage Building with Rack, for storing up to 16 drums or 4 IBC-totes on one level

Drum Storage	16 Drums	32 Drums	48 Drums
IBC Storage	4 IBC	8 IBC	12 IBC
External Dimensions W x D x H (ft)	23.5 x 7.4 x 10	23.5 x 7.4 x 12.9	32.4 x 7.4 x 12.9
Sump Capacity [gal]	748	748	1,054
Bay Dimensions W x D x H (in)	116 x 80 x 56.5	121.5 x 116 x 56.5	170.25 x 121.5 x 56.5
2nd Bay Dimensions W x D x H	–	102 x 50 x 46	152 x 50 x 57
Number of Storage Tiers	1	2	2
Tier Dimensions W x D (in)	–	108 x 48	150 x 48
Floor Load Capacity [psf]	250	250	250
2nd Load Capacity per Bay [lbs]	10,000	9,000	9,000
Weight [lbs]	12,249	13,104	19,577
Order number	L95-6214-U2	L95-8315-U2	L95-8316-U2



Detail: Shelves offer plenty of room for a lot of batteries

Hazmat cabinets for the storage of Li-ion batteries



For storing and charging Lithium-Ion Batteries in fire-rated Buildings

- Takes overall advantages of the Fire-Rated Storage Buildings as described on the previous pages
- Choose between building with integrated racks or walk-in models
- For more details about equipment like shelves, sockets / charging stations, and others, please call factory



Walk-in Building for the safe storage and charging of batteries



Choose from 8 different dimensions with the possibility to integrate 2 different sized hinged doors (36 x 80" or 60 x 80"), either on the short or the long side (left, right, or centered).

	Storing for Lithium-Ion Batteries in occupancy Buildings							
External Dimensions W x D x H (ft)	10 x 8 x 9.5	10 x 11 x 9.5	20 x 8 x 9.5	20 x 11 x 9.5	30 x 8 x 9.5	40 x 8 x 9.5	30 x 11 x 9.5	40 x 11 x 9.5
Internal Dimensions W x D x H (ft)	8.5 x 6.5 x 8.3	8.5 x 9.5 x 8.3	18.5 x 6.5 x 8.3	18.5 x 9.5 x 8.3	28 x 6.5 x 8.3	38 x 6.5 x 8.3	28 x 9.5 x 8.3	38 x 9.5 x 8.3
Sump Capacity (gal)	176	256	380	552	584	788	848	1,144
Floor Load Capacity (psf)	250	250	250	250	250	250	250	250
Order number	L90-1131-U2	L90-5231-U2	L90-2111-U2	L90-6211-U2	L90-3111-U2	L90-4111-U2	L90-7211-U2	L90-8211-U2

i The innovative technology of the RFP Storage Buildings is also an extremely good basis for the storage of lithium-ion batteries. Equipped with additional safety devices (for example extinguishing technology) the room systems offer to you the ideal protection.



Non-Occupancy Building RFP with optional shelves, for the compact storage of smaller batteries



Non-Occupancy Building RFP for the storage of batteries

	Storing for Lithium-Ion Batteries in Non-Occupancy Buildings			
External Dimensions W x D x H (ft)	12.5 x 7.4 x 12.9	23.5 x 7.4 x 10	23.5 x 7.4 x 12.9	32.4 x 7.4 x 12.9
Sump Capacity (gal)	374	748	748	1,054
Bay Dimensions W x D x H (in)	121.5 x 124.7 x 56.5	116 x 80 x 56.5	121.5 x 116 x 56.5	170.25 x 121.5 x 56.5
2nd Bay Dimensions W x D x H	102 x 50 x 57	—	102 x 50 x 46	152 x 50 x 57
Number of Storage Tiers	2	1	2	2
Tier Dimensions W x D (in)	108 x 48	—	108 x 48	150 x 48
Floor Load Capacity [psf]	250	250	250	250
2nd Load Capacity per Bay [lbs]	9,000	10,000	9,000	9,000
Weight [lbs]	8,368	12,249	13,104	19,577
Order number	L95-3313-U2	L95-6214-U2	L95-6315-U2	L95-8316-U2

Secure and Store Hazardous Chemicals and Processes Away from Personnel / Facilities

DENIOS Occupancy Chemical Storage Building designs provide more storage flexibility, enhancing the efficiency of the structure over competitive models. Choose from over 25 standard sizes to provide the optimal space for storing your hazardous chemicals or processes.

Designed for occupancy by personnel, DENIOS also provides numerous options to enhance safety, efficiency, and security in all our Occupancy Buildings. DENIOS Chemical Storage Occupancy Buildings carry FM Approval.

Sizes and Styles

- Available in 8-, 10- and 12-foot widths with lengths from 8 to 52 feet
- All units are built to accommodate indoor or outdoor placement. Door styles include hinged doors and roll-up doors and can be designed in multiple configurations
- Non-Combustible, fire-rated, and temperature-controlled models are available

Popular Applications

- Process enclosures: Pumping, mixing, dispensing, painting kitchen
- Remote storage: Waste collection, fuel dispensing
- Agricultural: Parks and recreation, golf courses chemical storage
- Secured storage and separation: Toxic, dangerous, valuable materials
- HazMat storage of drums handled by hand
- Fuel component enclosures
- Li-Ion Battery storage & test enclosures
- HHHW - Household hazardous waste

FM Approved Occupancy Building with optional shelving and door sets for oils and lubricants storage and processing



DENIOS - Leading Supplier of FM Approved Chemical Containment Products.



Applicable Regulations

DENIOS designs its HazMat storage Occupancy Buildings to be compliant with all recognized National Codes and generally accepted national standards.

In addition to federal, provincial, and local regulations, risk management organizations such as Factory Mutual (FM Global) have developed their own standards.

Several DENIOS HazMat storage Occupancy Buildings for outdoor placement can be shipped bearing the FM approval label.

For your further reference

At the federal, provincial, and local levels, fire requirements, best practices such as IFC, UFC, NFPA 30 (Storage and Handling of Flammable Liquids), Building Codes (UBC & IBC) and other requirements specific to State and Local jurisdictions may be considered by local authorities.

Typical local code issues include wind load, snow load, seismic zone, fire rating, and separation of flammable storage from the nearest building.

Due to local code variance and different enforcement philosophies, DENIOS always recommends checking with the Local Authority Having Jurisdiction to verify that a specific configuration will comply with local codes.



Introduction to Occupancy Chemical Storage Buildings



DENIOS Occupancy Building designs include 2- and 4-hour fire-rated construction.

Industries

- Food
- Automotive
- Pharmaceutical
- Cannabis
- Chemical and Allied
- Building Material
- Warehouse and Distribution
- Li-Ion battery and other alternative energy devices/products
- Recycling/Waste Diversion
- Military/Various Institutional Groups



Fire Rated designs up to 4-hour,
heating systems for Freeze
Protected



This 28 x 8 storage Occupancy Building holds up to 39 drums. Seen here with optional door sets and an integrated shelving package.



Walk-In - Non-Combustible Storage

Your Solution to securing and storing hazardous chemicals and processes

Walk-In / Occupancy Buildings are ideal for storing drums and smaller containers when frequent access is required to store, mix, or dispense. Once inside, you can work with the materials over an internal spill sump. These Premium non-combustible structures feature solidly welded frame construction and can be fire-rated, insulated, heated, or cooled as individual requirements dictate.

Maximize your storage capabilities by adding shelving around the perimeter of the Walk-In Occupancy Building to store small containers along with your 55-gallon drums.



DENIOS – Leading Supplier of FM Approved Chemical Containment Products.



Note: 150 MPH construction available for high wind areas. Contact us for details.



These walk-in storage buildings are great for storing drums in combination with small containers



- Vent hoods included
- All units are built to accommodate indoor or outdoor placement
- Hinged Man doors are standard, optional door sets available
- Buildings come ready for placement/use and can be moved via fork truck or crane

- Remote storage: access control and weather protection
- Secured storage and separation: Toxic, dangerous, valuable materials
- HazMat storage of drums handled by hand
- Fuel component enclosures
- Battery testing enclosures



16 x 8 storage Occupancy Building can be engineered for the storage of chemicals or housing of chemical processes.

Contact Us! For questions about any of your hazardous chemical storage or processing needs, contact us at:



800-216-7776

info1@denios-us.com



Occupancy Buildings provide compliant secondary containment sumps below a grated surface.



2-Hour Fire Rated, 4-Hour Fire Rated, and Hurricane Rated models available.



Walk-In Storage Building -2-Hour and 4-Hour Fire-rated

These Fire-Rated occupancy buildings are primarily used for the storage of flammable liquids. The special design allows an indoor or outdoor placement. Interior walls can be added to separate dangerous chemicals from the following processes.



Occupancy Storage Building, 2 or 4-hour Fire-rated, here shown with optional space-optimizing shelves



Occupancy Storage Building, 2 or 4-hour Fire-rated, storing IBC totes or up to 36 drums

- Secured storage and separation: Toxic, dangerous, valuable materials
- UL approved firewalls. designs include 2- and 4-hour fire-rated construction
- Integrated spill containment sumps meet / exceed EPA, UFC, NFPA, and OSHA regulations
- HazMat storage of drums handled by hand
- All units are built to accommodate indoor or outdoor placement
- Hinged Man doors are standard, optional door sets available
- Buildings come ready for placement/use and can be moved via fork truck or crane
- Available in 8-, 10- and 12 feet widths with lengths from 8 to 52 feet
- For high wind areas 90 and 150 MPH designs are available on request




Go online! Discover even more exciting product highlights!
www.denios-us.com/shop

Occupancy Storage Building, 2 or 4-hour Fire-rated, here shown with optional ramp for easy access with drum trolleys



Occupancy Storage Building, 2 or 4-hour Fire-rated

Contact Us! For questions about any of your hazardous chemicals storage or processing needs, contact us at:



800-216-7776
info@denios-us.com





Walk-In Storage Building, Fire-rated - WFP

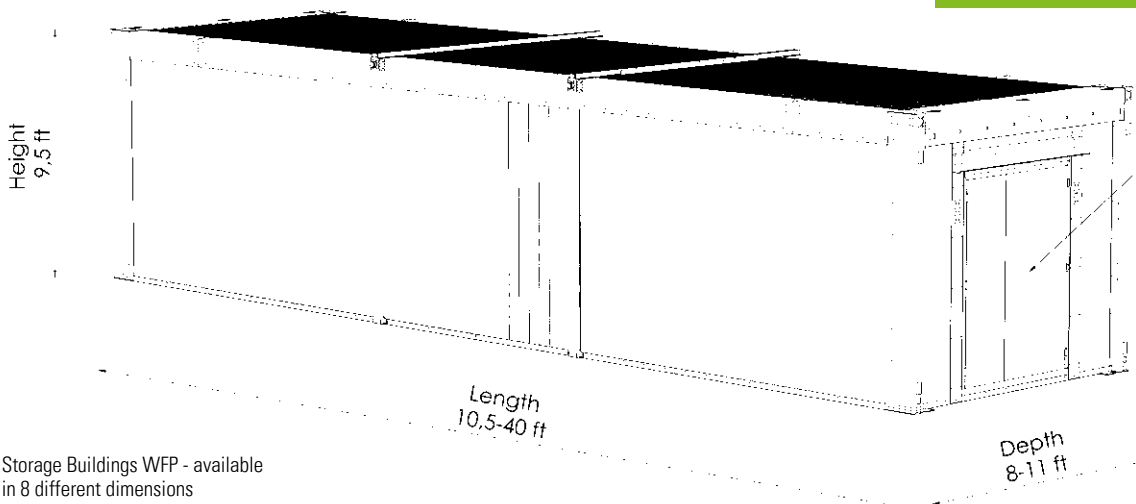
These new and innovative storage buildings are produced with the most modern laser bending technology. The greater precision thus achieved, among other things, leads to optimum safety and extremely durable products. You can benefit from these latest DENIOS innovations and protect your employees and the environment in the best possible way.



Walk-In Building with approx. 175 square feet storage surface, here shown with optional shelves



Choose from 8 different dimensions with the possibility to integrate 2 different sized hinged doors (36" x 80" or 60" x 80"), either on the short or the long side (left, right, or centered).



a choice of 2 door designs:
1: 2 wing 36" x 80"
2: 2 wing 60" x 80"

Storage Buildings WFP - available in 8 different dimensions

- Fire-Rated occupancy buildings are primarily used for the storage of flammable liquids
- The special design allows an indoor or outdoor placement
- UL-approved firewalls. designs include 2-hour fire-rated construction
- Integrated spill containment sumps meet / exceed EPA, UFC, NFPA, and OSHA regulations
- HazMat storage of drums and smaller containers
- All units are built to accommodate indoor or outdoor placement



Walk-In Building with plenty of room for storing drums and smaller containers (on shelves)



Walk-in Building, with double doors at the front side



Walk-In Building with approx. 182 square feet storage surface, here shown with optional shelves

Square Footage [sqft]	55	81	120	175	182	247	266	360
Drum Storage	12 Drums	16 Drums	24 Drums	32 Drums	36 Drums	48 Drums	48 Drums	64 Drums
External Dimensions W x D x H (ft)	10 x 8 x 9.5	10 x 11 x 9.5	20 x 8 x 9.5	20 x 11 x 9.5	30 x 8 x 9.5	40 x 8 x 9.5	30 x 11 x 9.5	40 x 11 x 9.5
Internal Dimensions W x D x H (ft)	8.5 x 6.5 x 8.3	8.5 x 9.5 x 8.3	18.5 x 6.5 x 8.3	18.5 x 9.5 x 8.3	28 x 6.5 x 8.3	38 x 6.5 x 8.3	28 x 9.5 x 8.3	38 x 9.5 x 8.3
Sump Capacity (gal)	176	256	380	552	584	788	848	1,144
Floor Load Capacity (psf)	250	250	250	250	250	250	250	250
Order number	L90-1131-U2	L90-5231-U2	L90-2111-U2	L90-6211-U2	L90-3111-U2	L90-4111-U2	L90-7211-U2	L90-8211-U2

Smoke / Heat Detectors & Fire Alarms

For the protection of fireproof containers, it is important that, an early warning system must be installed. DENIOS uses certified multi sensors for this purpose. Smoke and fire detection is quick, reliable, and can be installed in conjunction with a siren. The alarm system can be connected to the main alarm system.



Temperature Regulators

DENIOS uses the most up-to-date temperature regulators to ensure user-friendly programming of required temperatures. The majority of DENIOS regulators can be programmed and adjusted on the main control box on the exterior of the container.



Alarm Lights

In addition to audible alarms, DENIOS can provide alarm lights to work in conjunction with the main alarm system. Thus, enhancing the warnings effectiveness to personnel.



Gas Detectors

If poisonous gases are allowed to escape then early detection is a vital requirement. DENIOS can provide gas warning detectors where a pre-set level can be set and when reached an audible or visual alarm or both will occur.



Sprinkler Systems

Sprinkler systems provide extra safety in containers used to store flammable and non-flammable substances. DENIOS offers several types of sprinkler systems. We can provide, standard, heavy foam, powder, Novec, or CO2 systems.



Dry Chem systems

Dry Chem systems provide extra safety in containers used to store flammable and non-flammable substances. DENIOS offers a wet or dry system.



Fire Dampers

Where air circulation is required, fire dampers can be installed featuring automatic closing air vent mechanisms. These close automatically as soon as the fire is detected, thus cutting off the supply of oxygen to the fire source in the container.



Leak Detector

Leak detectors can be installed in sumps to detect any leakage from container contents. The alarm can be audible, visual, or both. Early detection allows prompt action to be taken.



Explosion Relief Panels

Explosion Relief Panels are built into the rear of a building. In case of an ignition/explosion of the stored drums, relief panel detaches from the building, diverting destructive forces away from personnel and facilities, protecting the integrity of the building and preventing any shrapnel caused by an explosion.



Cooling

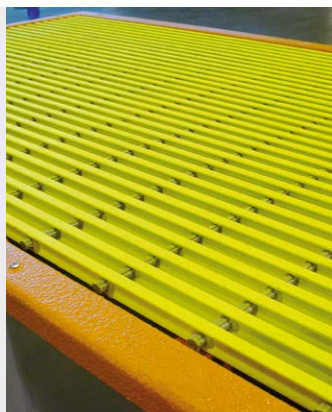
DENIOS engineering provides precise solutions to temperature control, such as cooling units and air conditioning systems. With DENIOS expertise, we always have a solution for your needs.



Hazardous material storage

Grating

DENIOS fireproof containers are fitted with galvanized grating as standard. Alternative grating is available: when storing aggressive substances, stainless steel grating or fiberglass grating can be provided.



Fire Prevention Air Vents

Where air circulation is required, fan-forced air vents can be installed featuring automatic closing air vent mechanisms. These close automatically as soon as the fire is detected, thus cutting off the supply of oxygen to the fire source in the container.



Heating

Many substances require optimal heating to maintain quality. DENIOS provides heating systems using electric or steam heat.



Sump Liners

When storing acids, alkalis or other aggressive substances, it is recommended that sump liners be installed. These can be manufactured both in polyethylene and stainless steel.



Insulation

The walls of our HazMat insulated system containers guard against loss of energy, temperature, and frost damage. DENIOS uses different types of material listed by UL.



Grounding Kits

Grounding kits are required to avoid an electric discharge between the container and other conductive units. All DENIOS HazMat containers can be fitted with an accessory to avoid discharges. These are highly recommended for containers storing explosive material.



On-site Service Analysis of Your DENIOS Products

- Detailed overview of your active DENIOS products including photo documentation
- Simplified procurement of replacement parts
- Shorter reaction times when service is needed
- Reduction of costs and unplanned downtime
- Recommendations for prescribed maintenance schedules depending on product type
- Annual service contracts available



! The cost of our services will be all-inclusive. There will be no hidden fees.

Spill & Flood Barrier Installation

Let us help to install your spill or flood barrier with our trained professionals. It is important to get it right from the start. From our initial design to production and installation we are here to make it right.

Our onsite installation includes:

- Concrete/grout work around the barrier to ensure it is set up properly
- Product performance testing for quality control
- Maintenance training on how your new barrier deploys and how to reset it properly



i Do you know if your DENIOS product needs to be inspected?
800-216-7776
Just ask us!



Transportation and Delivery

Your new DENIOS building will be delivered to your site safely and on time. Our team will work with you to understand the unique needs of your site and delivery.

We offer:

- Offloading of the building
- Placement and anchoring
- Rigging services
- Forklift rental



Building Installation and Assembly Services

DENIOS is your partner throughout the entire process of putting your new building into service. We want to make sure everything is properly installed to minimize downtime and meets your needs.

We offer the following services:

- Electric and HVAC hookup
- Fire suppression commissioning
- Concrete foundations and/or piers/slabs for all DENIOS buildings

Call one of our trained experts for any of your service needs.



2



Gas Cylinder

Since pressurized gas cylinders pose a high risk, the proper storage of gas cylinders is extremely important. DENIOS produces products for gas cylinder storage and handling that reliably meet basic requirements such as adequate ventilation and access protection for unauthorized persons.

Gas Cylinder Storage & Handling

126 Gas Cylinder Storage

129 Fire-Rated Gas Cylinder Storage

131 Gas Cylinder Handling and Transport





Single propane bottle storage provides horizontal storage for up to 8 bottles, Order no. L62-3160-U2



Single section cage for 5-10 cylinders, Order no. L62-3180-U2

Storage Cages without Floor

- Secure propane and other gas bottles in pad-lockable cages
- Limit access to authorized personnel
- Solid welded angle frame construction provides years of service
- Open steel mesh and sturdy expanded metal construction prevent gases from accumulating
- Easily relocated
- Shipped fully assembled
- Meets OSHA & NFPA regulations



Double cylinder cage allows for separation of full and empty cylinders, Total capacity: 10-20 cylinders, Order no. L62-3183-U2



Add a floor plate to these cages to allow easy relocation/positioning by forklift as well as providing a level and dry base for the upright cylinders.

Floor Plates can be ordered separately for retrofitting to existing floorless cages



Single Base, painted, Order no. L62-3178-U2



Double Base, painted, Order no. L62-3179-U2

Description	Single Horizontal Bottle	Double Horizontal Bottle	Single Vertical Cylinder	Double Vertical Cylinder	Combo - Horizontal & Vertical
External Dimensions W x D x H (in)	31 x 33 x 69	63 x 33 x 75	32 x 36 x 76	62 x 35 x 69	63 x 33 x 69
Storage Capacity Gas Cylinders	8	16	5-10	10-20	5-10
Storage Capacity Gas Bottles	8	16	—	—	8
Shipping Weight	250	503	225	360	440
Order number	L62-3160-U2	L62-3165-U2	L62-3180-U2	L62-3183-U2	L62-3187-U2

Storage Cages with Floor Plate

- Secure propane and other gas bottles in pad-lockable cages
- Limit access to authorized personnel
- Floor Plates provide a level surface for cylinders when placing structure over gravel, uneven pavement, or areas where puddles may occur
- Expanded metal sides and doors allow natural ventilation and visual inspection of cylinders
- Anchor plates for securing structure
- Ships fully assembled
- Meets OSHA & NFPA regulations



Double model for Gas Cylinder Storage, horizontal,
Order no. L62-3184-U2



Single model for Gas Bottle Storage, vertical,
Order no. L62-3161-U2



Single model for Gas Cylinder Storage, horizontal,
Order no. L62-3181-U2

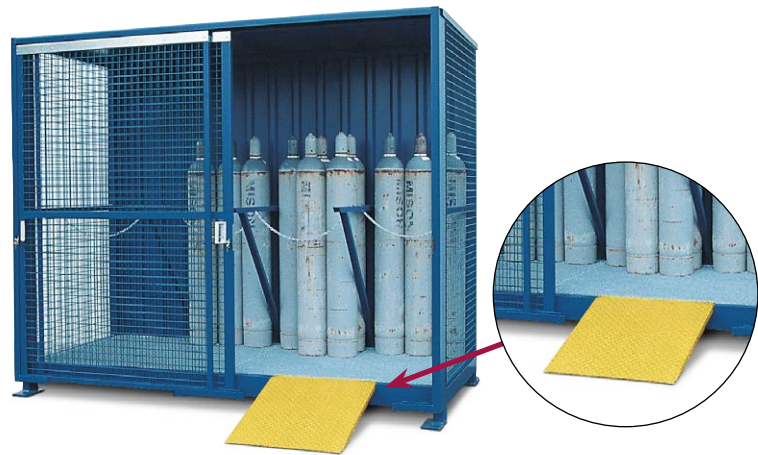


Optional ramp for Gas Cylinder Storage Structures with floor plates

Description	Single Vertical Cylinder	Double Vertical Cylinder	Combo - Horizontal & Vertical	Single Horizontal Bottle	Double Horizontal Bottle
External Dimensions W x D x H (in)	31 x 33 x 75	63 x 33 x 75	63 x 33 x 75	31 x 33 x 75	63 x 33 x 75
Storage Capacity Gas Cylinders	5-10	10-20	5-10	8	16
Storage Capacity Gas Bottles	—	—	8	8	16
Shipping Weight	300	575	575	300	575
Order number Painted	L62-3181-U2	L62-3184-U2	L62-3188-U2	L62-3161-U2	L62-3166-U2

Gas Cylinder Storage Cages

- Meets OSHA & NFPA regulations
- Heavy-duty steel frame
- Expanded metal sides and doors allow natural ventilation and visual inspection of cylinders
- Lockable doors provide secure storage and prevent unauthorized access
- Corrosion resistant coating
- Chains are adjustable to secure stored cylinders
- Anchor plates for securing structure
- Available in two styles:
 - Hinged Doors and Sliding Doors
 - Floor provides level surface for cylinders when placing structure over gravel, uneven pavement, or areas where puddles may occurred

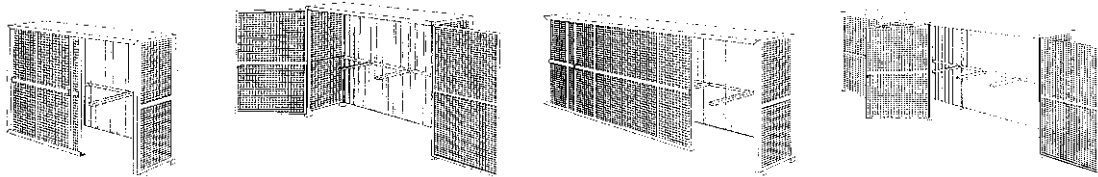


Ramp for Gas Cylinder Storage Cages,
Order no. L62-3122-U2



Anchor plates for
securing structure

Without Floor Plate: Stores 96 gas cylinders.,
Order no. L62-3114-U2



Storage Capacity Gas Cylinders	48				96			
External Dimensions W x D x H (ft)	11 x 5 x 9	11 x 5 x 9	11 x 5 x 9	11 x 5 x 9	21 x 5 x 9	21 x 5 x 9	21 x 5 x 9	21 x 5 x 9
Version	without Floor Plate		with Floor Plate		without Floor Plate		with Floor Plate	
Door Type	Hinged	Sliding	Hinged	Sliding	Hinged	Sliding	Hinged	Sliding
Shipping Weight	1,200	1,400	1,600	1,800	132	2,600	148	3,100
Order number	L62-3110-U2	L62-3112-U2	L62-3111-U2	L62-3113-U2	L62-3114-U2	L62-3116-U2	L62-3115-U2	L62-3117-U2

Gas Cylinder Storage Cages with 2-Hour Fire-Rated Walls

Legally compliant storage of Gas Cylinders

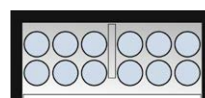
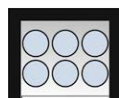
- Add extra safety to your cylinder storage area with the security of fire-rated walls providing compliant separation for flammable compressed gases
- 2-Hour rated wall construction for the sides and rear walls
- Segregate flammable gas cylinders from combustible materials
- Stable steel frame design
- Open mesh access door provides ample natural ventilation and easy access to stored cylinders
- Pad-lockable door adds security
- Safety chains are adjustable to secure cylinders
- Delivered Ready-To-Use, including crane eyes



DENIOS Gas cylinder Storage Building utilizing 2-hour fire rated walls



DENIOS Gas cylinder Storage Building utilizing 2-hour fire rated walls



Storage Capacity Gas Cylinders	6	12	24
External Dimensions W x D x H (in)	44 x 39 x 91	76 x 42 x 98	142 x 42 x 98
Internal Dimensions W x D x H (in)	32 x 27 x 85	62 x 27 x 85	126 x 27 x 85
Version	1 hinged door	2 hinged doors	4 hinged doors
Shipping Weight [lbs]	850	1,155	1,785
Order number	L65-0200-U2	L65-0400-U2	L65-0600-U2

Fire Rated Cabinets for Gas Cylinder Storage

90 Minute Fire Rated Cabinet for Gas Cylinder Storage - Safe and approved storage of flammable or toxic gases for up to 3 gas cylinders (dia. 9 in)

- Maximum fire resistance and safety when storing gas cylinders in work areas
- Fire resistance 90 minutes, type-tested in accordance with EN 14470-2
- Complete and even ventilation in the whole interior of the cabinet
- Integrated air ducts ready for connection (Ø 3") to a technical exhaust system
- Easy alignment with adjusting aids to compensate for uneven floor
- Easy mounting of connecting pipes and gas fittings with large interior height (73.1 in), many lead-through possibilities on the top of the cabinet
- Standard interior equipment completes with mounting rails, cylinder retainer including matching tension belts and rolling ramp
- Doors lockable with profile cylinder (integration in an existing locking system possible)
- Outer body and doors are made of sheet steel, with high-quality powder coating in light gray



Complete with mounting rails, cylinder retainer and matching tension belts and rolling ramp



Safety Cabinet for Gas Cylinder Storage, 90 minutes fire rated
Order no. M31-8030-U2



Doors lockable with profile cylinder lock (integrated into the door handle)



Complete and even ventilation in the whole interior of the cabinet

Storage Capacity	3 Gas Cylinders
Version	with hinged door
External Dimensions W x D x H (in)	35.4 x 24.3 x 80.7
Internal Dimensions W x D x H (in)	29.3 x 16.7 x 73.1
Shipping Weight	1,170
Order number	M31-8030-U2

Flexible Heating Jackets

- Modern heating technology - heats quickly and uniform
- Great for controlling viscosity and flow control
- Ability to operate in a range of temps (-40°F to +104°F)
- All units are thermostatically controlled
- High grade thermal insulation to reduce heat loss and increase efficiency while providing protection for the operator
- Safe to use 24/7 - Fit and forget, no regular maintenance required
- Fitted with NEMA 1-15P plug
- Fitted with adjustable retaining straps and quick-release buckles
- Premium oil, water, and abrasion resistant SOOW power cable
- Does not contaminate or scratch your product
- Choose between a low and a high-power version for use in ordinary or hazardous Areas (C1D2)



Compatibility	Ordinary Locations		Hazardous Areas C1D2	
Adjustable Circumference [in]	27 - 33	27 - 33	27 - 33	27 - 33
Height [in]	48			
Primary Thermostat	Fixed 122 °F	32-194 °F	Fixed 122 °F	Fixed 158 °F
Secondary Thermostat	—	—	Fixed 158 °F	Fixed 194 °F
Power [W]	500	800	500	800
Shipping Weight [lbs]	8			
Order number	M51-5615-U2	M51-5616-U2	M51-5629-U2	M51-5630-U2



Heating Jackets for Gas Cylinder, use in Ordinary or Hazardous Areas (C1D2)

Manual Cylinder Lifter

- The pivoting design grabs and squeezes the cylinder when lifted
- The lifter has a rubber-coated center and handle holes
- Steel construction with a powder-coat yellow finish



Compatibility	For 7 in Diameter	For 9 in Diameter	For 10 in Diameter
External Dimensions W x D x H (in)	10.5 x 20.25 x 1.5	12.25 x 20.25 x 1.5	14 x 22 x 1.5
Shipping Weight [lbs]	8	9	10
Order number	M75-0047-U2	M75-0048-U2	M75-0046-U2

Portable Cylinder Lifters

- Used to easily move and lift cylinders for placement into portable welders
- Cylinder is secured to the cart with a manual ratchet strap
- Cylinder is raised and lowered with a manual hand crank cable winch
- Portable with two wheels
- Steel construction with yellow baked-in powder-coated toughness



Model	With Hard Rubber Wheels	With Pneumatic Wheels
External Dimensions W x D x H (in)	24 x 18 x 80	24 x 18 x 80
Maximum Lifting Height in [in]	14	14
Total Load Capacity [lbs]	300	300
Shipping Weight [lbs]	106	102
Order number	M75-0044-U2	M75-0045-U2

Portable Lifters

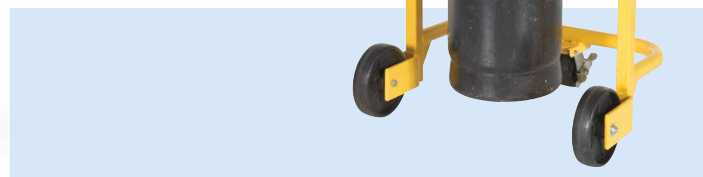
Lift - Transport - Dispense - Dump Safely
Safely transport gas and cryogenic cylinders. Adjustable cylinder claw and two ratchet belts secure cylinders. The small footprint is ideal for negotiating narrow aisles and doorways, and the sturdy construction provides stability and years of dependable use.

- Hydraulic pump raises cylinders 21" off the floor
- Two front fixed wheels to roll smoothly over any surface
- Rear swivel caster with brake
- Solid steel construction



Portable Cylinder Clutcher

- Designed for lifting and moving the gas cylinders with automatic operation
- Simple handle operation raises and lowers the cylinder with ease
- Works with cylinder diameters between 8-1/2" to 12-1/2"
- Includes two rigid and one swivel caster
- Welded steel construction with painted yellow finish



	Portable Lifters		Portable Cylinder Clutcher
External Dimensions L x D x H (in)	39 x 36 x 78	External Dimensions W x D x H (in)	29 x 33 x 54
Maximum Lifting Height in [in]	21	Maximum Lifting Height in [in]	2
Total Load Capacity	800	Total Load Capacity [lbs]	200
Shipping Weight	219	Shipping Weight [lbs]	162
Order number	K52-3119-U2	Order number	M75-0277-U2

Gas Cylinder Dollies

- Transports cylinders from workstation to workstation with ease
- Both the Standard and Deluxe model come with either hard rubber wheels or pneumatic wheels
- The hard rubber roller guides allow for easier entry onto the nose plate
- Secure the cylinder with the included restraint chains



Gas Cylinder Dolly with hard rubber wheels
Order no. M75-0016-U2

Gas Cylinder Dolly Deluxe with hard rubber wheels and additional roller guards
Order no. M75-0018-U2

Design	Standard		Deluxe	
Version	Without Roller Guides		With Roller Guides	
Equipment	Hard Rubber Wheels	Pneumatic Wheels	Hard Rubber Wheels	Pneumatic Wheels
External Dimensions W x D x H (in)	25 x 16 x 54	26 x 17 x 55	27 x 19 x 52	27 x 19 x 52
Total Load Capacity [lbs]	500	500	500	500
Shipping Weight [lbs]	65	60	71	86
Order number	M75-0016-U2	M75-0017-U2	M75-0018-U2	M75-0019-U2

Double Gas Cylinder Hand Truck

The Cylinder Hand Truck is ideal for transporting cylinders from storage to the workspace.

- Tilt-back design for effortless transportation
- Chains and contoured back cradle provide utmost safety



Double Gas Cylinder Cart with tilt-back swivel casters

Design	Cylinder Hand Truck
External Dimensions W x D x H (in)	31 x 17 x 74
Total Load Capacity [lbs]	350
Shipping Weight [lbs]	84
Order number	K52-1169-U2

Aluminum Gas Cylinder Carts

- 12" Pneumatic tires for easy transport
- Hand brake gives extra control on ramps
- Sliding frame on the double cart accommodates single cylinders to 20" diameter
- Security strap on the double cart, security chain on single
- 1.83" aluminum tube construction provides strength & durability
- Lightweight, extended life construction



Aluminum Gas Cylinder Cart for 1 Cylinder
Order no. K52-1160-U2



Aluminum Gas Cylinder Cart for 2 Cylinders
Order no. K52-1162-U2

	Aluminum Gas Cylinder Carts	
	1 Cylinder 9"	2 Cylinders 9"
External Dimensions W x D x H (in)	20 x 11 x 49	22 x 10 x 50
Total Load Capacity [lbs]	600	600
Shipping Weight [lbs]	41	66
Order number	K52-1160-U2	K52-1162-U2

Gas Cylinder Tilt Back Hand Truck

- Ideal for transporting cylinders from storage to workspace
- Capable of handling two 9" or one 9" and one 12" cylinders
- Chains provide the utmost safety
- Tilt back design for effortless transportation

Storage Capacity	1 Cylinder	2 Cylinders
External Dimensions W x D x H (in)	24 x 18 x 41	31 x 35 x 44
Total Load Capacity [lbs]	150	250
Shipping Weight [lbs]	82	109
Order number	M75-0008-U2	M75-0009-U2



Gas Cylinder Tilt Back Hand Truck
for 1 Cylinder
Order no. M75-0008-U2



Gas Cylinder Tilt Back Hand Truck
for 2 Cylinders
Order no. M75-0009-U2

Magnetic Gas Cylinder Hand Truck

- Designed and built to transport gas cylinders with ease.
- Uses strong magnets to hold the tanks in place
- Tilt-back design allows for effortless transportation

	Magnetic Gas Cylinder Hand Truck
External Dimensions W x D x H (in)	36 x 19 x 50
Storage Capacity	1 Cylinder
Shipping Weight [lbs]	104
Order number	M75-0271-U2



Magnetic Gas Cylinder Truck

Poly Gas Cylinder Dollies

- Poly construction is naturally non-sparking for added safety when dealing with volatile gases
- Large, rugged, solid wheels for use on rough terrain
- Ergonomic handle
- Fits cylinders up to 15" in diameter
- Safety strap included terrain
- All terrain dolly has all the same great features as the standard single-cylinder dolly, but includes over-sized wheels for ease of use on rough or uneven work floors



Poly Gas Cylinder
Dolly for 1 Cylinder
Order no. K52-1245-U2



Poly Gas Cylinder
Dolly for 2 Cylinders
Order no. K52-1250-U2



Poly Gas Cylinder Dolly ALL
TERRAINS for 1 Cylinder, incl.
over-sized wheels for ease of use
on rough or uneven work floors
Order no. K52-1247-U2

Version	Single	Dual	Single All Terrain
External Dimensions W x D x H (in)	24.5 x 22.25 x 46	24.5 x 30 x 45.5	24.5 x 22.25 x 46
Total Load Capacity [lbs]	250	500	250
Shipping Weight [lbs]	27	57	35
Order number	K52-1245-U2	K52-1250-U2	K52-1247-U2



Gas Bottle Caddy suitable for 6 gas bottles

Gas Bottle Caddy

- Safely and securely transport up to six (12"x24") gas bottles via forklift
- All steel construction stands up to the harshest industrial environments
- Attached safety chains hold tanks in place during transport

	6 Gas Bottles
External Dimensions W x D x H (in)	41 x 38 x 29
Total Load Capacity [lbs]	1,000
Shipping Weight [lbs]	258
Order number	K52-1195-U2

Poly Gas Cylinder Stands / Caddy

- Secure non-corrosive, non-sparking storage of gas cylinders
- Forkliftable and floor mountable
- Holds four cylinders up to 11" in diameter
- Upper-security straps are included and lower straps available for added security
- 4 & 6 Cylinder models can be easily moved via forklift



2 Cylinders
Order no. K52-1230-U2



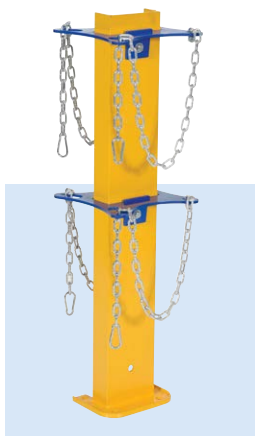
4 Cylinders
Order no. K52-1235-U2

Storage Capacity	2 Cylinders	4 Cylinders	6 Cylinders
External Dimensions W x D x H (in)	28 x 14 x 30	41 x 29 x 47	41 x 29 x 46.5
Total Load Capacity [lbs]	400	600	800
Shipping Weight [lbs]	18	46	51
Order number	K52-1230-U2	K52-1235-U2	K52-1240-U2

Gas Cylinder Storage Stand

- Allows for storage of cylinders in the vertical position
- The chains are included for securing the cylinders to the stand
- The stand has pre-drilled mounting holes for attachment to the floor
- floor mounting hardware is not included
- Stand is powder-coat yellow and steel brackets feature blue painted finish

Storage Stand for 2 Gas Cylinders,
Order no. M75-0301-U2



Pallet Jack Style Cylinder Caddy

- Transport cylinders safely
- The Caddy comes complete with safety chains to secure the cylinders in place
- The optional caster kit allows for portability without the need of a fork truck or pallet truck



4 Cylinders
Order no. M75-0286-U2



2 Cylinders
Order no. M75-0285-U2

Storage Capacity	2 Cylinders	4 Cylinders
External Dimensions W x D x H (in)	20 x 16 x 39	39.125 x 16 x 39.6875
Total Load Capacity [lbs]	400	600
Shipping Weight [lbs]	49	90
Order number	M75-0285-U2	M75-0286-U2

Caster Kit for Cylinder Caddy

- This optional caster kit for the Cylinder Caddy allows for portability without the need of a pallet truck
- Features all swivel casters

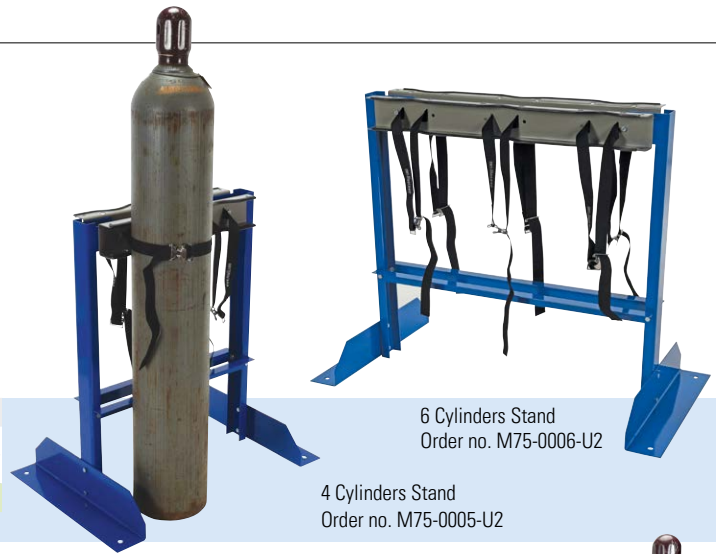


Order no. M75-0287-U2

Gas Cylinder Bracket Stand

- Allows for storage of up to 6 cylinders in the vertical position
- Straps are included for securing the cylinders to the stand
- The stand has pre-drilled mounting holes for attachment to the floor
- Floor mounting hardware is not included
- Stand is powder-coat blue and steel brackets feature gray painted finish
- Assembly hardware included

Storage Capacity	4 Cylinders	6 Cylinders
External Dimensions W x D x H (in)	20.75 x 35.5 x 36.5	20.75 x 47.5 x 36.5
Shipping Weight [lbs]	58	68
Order number	M75-0005-U2	M75-0006-U2



6 Cylinders Stand
Order no. M75-0006-U2

4 Cylinders Stand
Order no. M75-0005-U2

Gas Cylinder Racks

Gas Cylinder Racks feature a multitude of application possibilities. Portability is ensured using pallet trucks, fork trucks, hoist, or optional caster kits.

- Transports cylinders safely with this fork mounted style
- Comes complete with safety chains to secure the cylinders in place
- Made of all steel construction



Gas Cylinder Rack for 4 Cylinders, moveable with forklift
Order no. M75-0049-U2



Gas Cylinder Rack with Hoist, for storing
and lifting up to 4 Cylinders
Order no. M75-0050-U2



Gas Cylinder Rack with Hoist, for
storing and lifting up to 6 Cylinders
Order no. M75-0054-U2



Gas Cylinder Rack for 6 Cylinders, with casters
Order no. M75-0051-U2

Description	Cylinder Rack	Cylinder Rack	Cylinder Rack	Cylinder Rack with Casters	Cylinder Rack with Casters	Cylinder Rack with Hoist	Cylinder Rack with Hoist	Cylinder Rack with Hoist
Storage Capacity Gas Cylinders	4 Cylinders	6 Cylinders	8 Cylinders	6 Cylinders	8 Cylinders	4 Cylinders	6 Cylinders	8 Cylinders
External Dimensions W x D x H (in)	24.5 x 39 x 36	36 x 39 x 36	47 x 39 x 36	52 x 39 x 37	63 x 39 x 37	24.5 x 39 x 74	36 x 39 x 72	47 x 39 x 68
Shipping Weight [lbs]	173	188	231	278	297	223	228	281
Order number	M75-0049-U2	M75-0051-U2	M75-0053-U2	M75-0055-U2	M75-0056-U2	M75-0050-U2	M75-0052-U2	M75-0054-U2

3



At DENIOS, our goal is to provide products that will contribute to the safety of your personnel, facility, and community - from the moment a chemical enters your plant to when the empty container is disposed of. These include safe, reliable products used in the day to day handling of chemicals - regardless of whether you're handling the container or the actual chemical. DENIOS Hazardous Material Handling Products and Accessories are a collection of products designed for the safe transport, processing, mixing, and dispensing of chemicals.

Hazardous Material Handling

138 Drum Handling Equipment

151 Forklift Attachments

153 Safety Cans and Canisters

158 Part Cleaners & Dip Tanks

160 Spray cans and spray bottles

162 Jerry Cans and Canisters

164 Drums, IBC Totes & Tanks

169 Drum & IBC Tote Tools, Wrenches & Faucets

172 Funnels for Drum and IBC

176 Scrapers, Scoops & other Laboratory Equipment

178 Grounding and Bonding Cables

180 Pumps

198 Mixers

200 Samplers

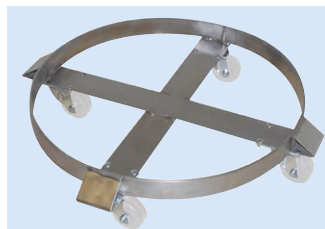
206 Heating Solutions for Drums and IBC-Totes

212 Induction Drum Heaters



Drum Dollies

- For vertical transport of drums on smooth surfaces
- Dolly comes with four 3" hard rubber swivel casters
- Welded frame construction with reinforced outriggers
- Choose between Steel and Stainless Steel made models



Drum Dolly, Stainless Steel



Drum Dolly, Steel

Compatibility	30-gal	55-gal	85-gal
Total Load Capacity [lbs]	900	900	900
Shipping Weight [lbs]	18	22	26
Order number Steel	K52-3143-U2	K52-3149-U2	K52-3144-U2
Order number Stainless-Steel	M74-1000-U2	M74-1001-U2	M74-1002-U2

Low Profile Drum Caddy

- Use a removable handle as both a lever to tilt the drum and as a convenient drum bung wrench
- Capacity: 1000 lbs.
- Load wheels (2) are 6" x 2" mold-on rubber with roller bearings
- Swivel caster is 3" x 1" polyolefin
- Use 55-gallon drums
- Shipping Weight: 70 lbs.

Drum Caddy with Handle
Order no. K52-3150-

Drum Truck

- Handles 55 and 85-gallon steel drums
- Heavy duty, double-welded joints
- 1" structural pipe frame
- Kickstands to store upright
- With wheels resting on the floor, 22" to the center of lowered chime hook

Drum Truck for 55 and 85 gallon steel drums
Order no. K52-3142-U2

Drum Truck - Stainless Steel

- Utility of a hand truck and drum truck.
- Curved frame and chime hook provide stability for 30- and 55-gallon drums
- With nose plate resting flat on floor, 18" to the center of lowered chime hook, nose plate 7.8" D x 14" W
- 8" polyurethane, non-marking wheels with stainless precision ball bearings.

Drum Truck, Stainless Steel,
for 30 and 55 gallon drums
Order no. M74-1010-

Knock-Down Drum Trucks

- Handles both poly and steel 30, 55, and 85-gallon drums
- Features a foot-operated tilt bar to allow the caddy to rest in tilt-back position
- Casters of 10" x 2.5" polyolefin



Material	Steel			Stainless-Steel	
Compatibility	for steel drums	for POLY drums	for POLY drums	for steel / stainless steel drums	for steel / stainless steel drums
Version	Standard	With Steel Ratchet Assembly	With 3rd Wheel	Standard	With 3rd Wheel
External Dimensions W x D x H (in)	25 x 32 x 54	25 x 32 x 54	25 x 32 x 54	25 x 32 x 54	25 x 32 x 54
Total Load Capacity [lbs]	1,000	1,000	1,000	1,000	1,000
Shipping Weight [lbs]	70	78	78	66	66
Order number	M74-1007-U2	M74-1008-U2	M74-1009-U2	M74-1004-U2	M74-1005-U2

Manual Drum Caddy and Dispenser

- Designed to lift, transport, and tilt 55-gallon drums
- Carrier has three height adjustments: 9.3, 10.6, and 12 inches
- Drums can be locked in either a vertical or horizontal position
- Polyolefin wheels are strong and chemical resistant
- Ships partially assembled



Description	Manual Drum Caddy and Dispenser
External Dimensions W x D x H (in)	35 x 65.5 x 37
Total Load Capacity [lbs]	800
Shipping Weight [lbs]	105
Order number	K52-3115-U2

Hydraulic Drum Caddy

- Convenient foot-pedal pump lifts 30 or 55-gallon drums for transport
- Narrow, the compact profile allows maneuvering in tight places
- Use for steel, poly, or fiber drums with a top lip
- Front wheels: 6" x 2" rigid
- Rear swivel casters: 3" x 1.5"



Model	HDC
External Dimensions W x D x H (in)	30.5 x 27.8 x 57.5
Maximum Lifting Height in (in)	15
Total Load Capacity [lbs]	500
Shipping Weight [lbs]	161
Order number	K52-3116-U2

Drum Transport - Manual and DC Powered

- Unique portable drum transporter is designed to lift and transport drums with a top lip
- Steel jaw securely grips the top lip of the drum
- Straddle legs rotate for access to drums on pallets
- All welded steel construction, powder-coated with a safety yellow finish
- Available with DC powered Lift Mechanism or with push, handle folds down for easy access to ratchet and foot pump



Drum Transporter,
available also as DC
Powered-Lift Mechanism
Order no. M75-0085-U2



Drum Transporter, Hand Ratchet-Lift Mechanism
Order no. M75-0088-U2



Drum Transporter, available also
as DC Powered-Lift Mechanism



Drum Transporter, available also
as DC Powered-Lift Mechanism

Drum Transporter, Foot Pump-Lift Mechanism,
Order no. M75-0086-U2

Drum Transporter, Foot Pump-Lift Mechanism,
Order no. M75-0084-U2

Version	Hand Ratchet-Lift Mechanism	Foot Pump-Lift Mechanism	DC Powered-Lift Mechanism
Jaw Service Range (in. to in.)	31 to 47	31 to 49	31 to 77.5
External Dimensions W x D x H (in)	49.9 x 68.9 x 45.5	50.5 x 68.5 x 43.7	50 x 68.9 x 72.3
Total Load Capacity [lbs]	880	1,500	880
Shipping Weight [lbs]	275	293	345
Order number	M75-0088-U2	M75-0084-U2	M75-0086-U2

DC Powered-Lift Mechanism	DC Powered-Lift Mechanism
31 to 49	31 to 76
55.9 x 68.9 x 43.7	55.9 x 68.9 x 72.3
1,500	880
446	446
M75-0085-U2	M75-0087-U2

Portable Drum Lift with Beak Attachment

- Conveniently and efficiently moves 30 - 85-gallon steel drums on and off pallets
- Engineered for easy access and maneuverability
- Ergonomic design reduces the risk of back and muscle injury and allows a single operator to safely manipulate most types of rimmed drums
- Claw-type grab attaches effortlessly and securely to the rim
- Hydraulic pump raises drums 21" off the floor
- Rear swivel caster with brake
- Two front fixed wheels to roll smoothly over any surface
- Solid steel construction



Drum Lift for 30 - 85 gallon steel drums

Portable Drum Lift with Beak Attachment	
External Dimensions W x D x H (in)	50 x 40 x 67
Total Load Capacity [lbs]	800
Maximum Lifting Height in [in]	21
Shipping Weight [lbs]	262
Order number	K52-3114-U2

Drum Handlers - suitable for 30 - 85-gallon drums

- Picks up the drum automatically, no need for the operator to handle the drum
- Works with both open and closed head drums
- Handles most standard 30-, 55-, and 85-gallon Fiber, Poly, and Steel Drums
- Swivel, phenolic casters and floor lock ease handling and provide safety while loading/unloading



Drum Handler with Scale



Drum Handler - Battery Power, Lift & Drive



Drum Handler - Standard



Drum Handler, High Reach, Steel



Drum Handler, High Reach, Stainless Steel

Material	Steel					Stainless Steel
Version	Standard	Standard with Scale	High Reach	Battery Powered Lift	Battery Power, Lift & Drive	High Reach
Maximum Lifting Height in [in]	19	19	36	36	36	36
External Dimensions W x D x H [in]	41 x 36 x 57	42 x 40 x 57	41 x 36 x 76	41 x 53 x 76	41 x 53 x 76	43 x 39 x 76
Total Load Capacity [lbs]	1,100	1,100	1,100	1,100	1,100	800
Shipping Weight [lbs]	356	356	376	531	691	207
Order number	K52-3110-U2	K52-3185-U2	K52-3187-U2	K52-3186-U2	K52-3188-U2	M74-1006-U2

Drum Caddy - Lift & Drive

This Manual Low Profile Hydraulic Drum Caddy allows a single operator to engage elevated drums as well as to transport and position drums.

- Ideal for loading and unloading steel, plastic, and fiber drums when no fork truck is available
- Use 55-gallon drums
- A spring-loaded clamp securely grasps the rim of a drum
- To elevate the rim clamp the truck incorporates a foot-operated hydraulic pump
- Truck is easy to assemble/disassemble for storage

Drum Rotator

A safe and secure method of dealing with the challenges of lifting and emptying drums

- Full 180-degree rotation for complete inverting
- Versatile and easily relocated
- Fully enclosed drum saddle and locking clamp for safety
- Anti-backlash Worm Gear for ease in rotating drums up to 850 lbs
- Adjustable straddle legs for tight locations
- Easy foot pump for drum lifting
- Dump heights up to 63" - covers almost any application
- Standard adaptors for using fiber or poly drums
- Options for FDA-approved finish, and anti-static wheels as well as battery operation



Drum Caddy, Foot Pump Powered
Order no. M75-0270-U2



Drum Rotator, Foot Pump Powered
Order no. K52-3206-U2

Description	Foot Pump Powered
External Dimensions W x D x H (in)	37 x 34 x 60
Total Load Capacity [lbs]	600
Maximum Lifting Height in [in]	65
Width between legs [in]	26 3/4
Length of legs [in]	33
Lifting Speed fpm [fpm]	85
Shipping Weight [lbs]	185
Order number	M75-0270-U2

Description	Foot Pump Powered
External Dimensions W x D x H (in)	49 x 36 x 79
Total Load Capacity [lbs]	850
Maximum Lifting Height in [in]	63
Turning Radius	360
Width between legs [in]	26 3/4
Length of legs [in]	33
Lifting Speed fpm [fpm]	85
Shipping Weight [lbs]	370
Order number	K52-3206-U2

Hand Pump Powered Lifter - Rotator - Dumper

A manual hydraulic pump raises drums to a maximum height of 68". Use with steel and fiber 55-gal drums. Hand crank turns gear drive a complete 360 degrees.

- The floor lock keeps the unit in a fixed position
- Easy use pump and the crank system allow for precise drum positioning

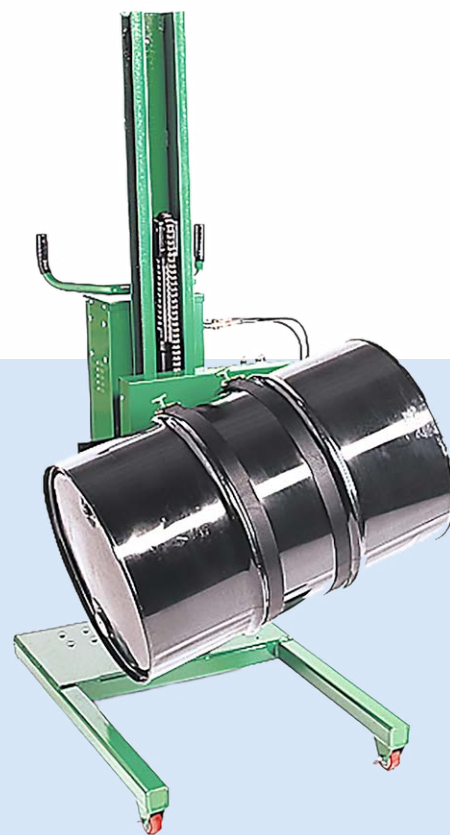
Battery Powered, Drum Lifter & Rotator

A battery-powered rotary drum lifter offers fully powered lifting and tilting of steel, fiber, or plastic drums. Effortlessly move and rotate drums for controlled dispensing and dumping. Ideal for loading and unloading pallets

- Battery-powered hydraulic power pack and charger (requires a 12 V deep cycle battery, not included)
- Manually propelled on polyurethane wheels: 4" x 1.5" polyurethane swivel rear casters, 3" x 1.5" polyurethane fixed front wheels
- Equipped with 2" nylon straps complete with ratchet tighteners



Hand Pump Powered Drum Lifter
Order no. K52-3240-U2



Battery Powered Drum Lifter & Rotator
Order no. K52-3210-U2

Description	Hand Pump Powered
External Dimensions W x D x H (in)	36 x 61 x 88
Total Load Capacity (lbs)	550
Maximum Lifting Height in (in)	62
Turning Radius	360°
Width between legs (in)	257
Length of legs (in)	40.25
No. of turns to rotate a drum totally	42
Shipping Weight (lbs)	519
Order number	K52-3240-U2

Description	Battery Powered
External Dimensions W x D x H (in)	36 x 46 x 78
Total Load Capacity (lbs)	800
Maximum Lifting Height in (in)	61
Turning Radius	360°
Width between legs (in)	248
Length of legs (in)	25.5
Lifting Speed fpm (fpm)	17
Shipping Weight (lbs)	550
Order number	K52-3210-U2

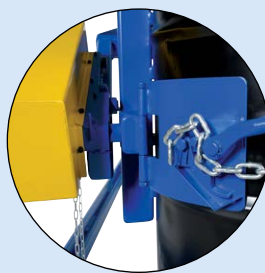
Portable Drum Stacker - Manual and AC/DC Powered

The Drum Stacker is perfect for positioning 55-gallon steel drums horizontally on shelves. Drums are held in place with a ratchet mechanism. Fully loaded drums rotate 360 degrees. Unit rolls easily on two (2) 8" x 2" glass-filled nylon rigid casters and two (2) 5" x 2" swivel poly-on-steel casters.

- Economical design to lift and transport drums effectively
- Solid steel construction provides stability during transit
- Lift operation is AC/DC powered or done manually
- Push handle folds down for easy access to the foot pump which lifts the drums



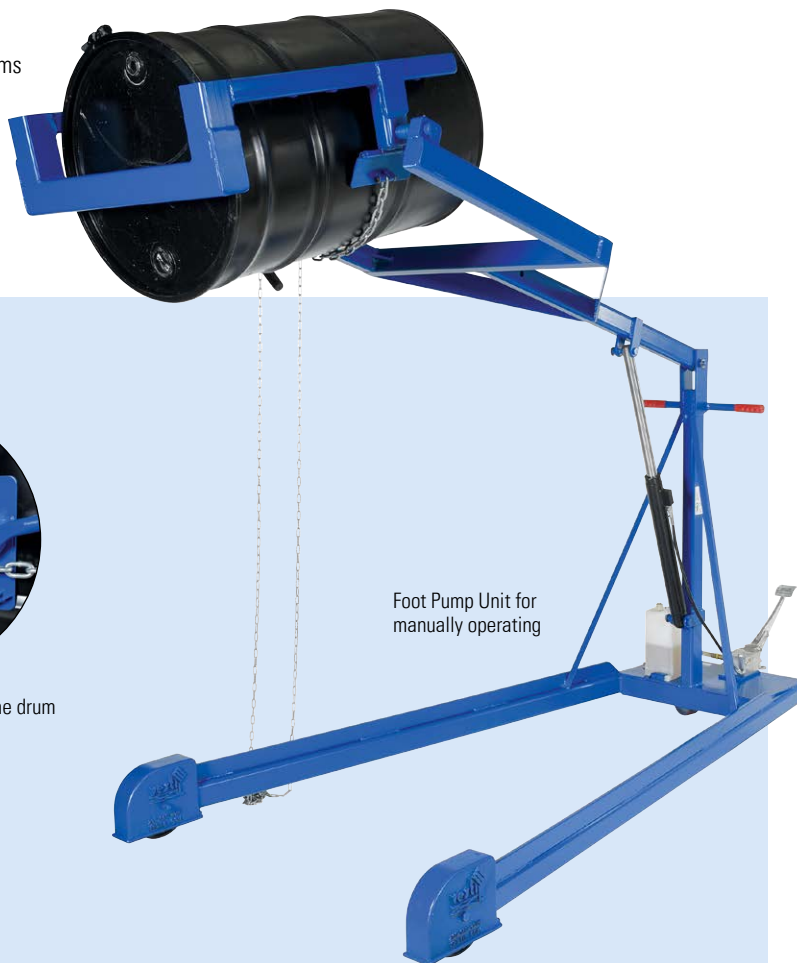
Portable Drum Stacker, Lifting Height 72", manually operated by foot pump, Order no. M75-0166-U2



Safety first - a chain fixed the drum onto the Stacker



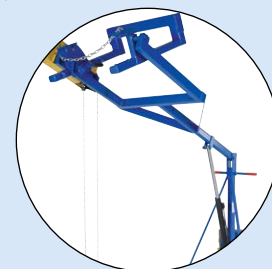
Portable Drum Stacker, Lifting Height 60", manually operated by a foot pump, Order no. M75-0163-U2



Foot Pump Unit for manually operating



Foot Pump Unit for manually operating



Electric Power Unit for automatically lifting operation

Maximum Lifting Height in [in]	60	72	84	96
External Dimensions W x D x H (in)	109.3 x 49.2 x 77.4	109.3 x 49.2 x 92.5	124.9 x 53.2 x 105.9	124.9 x 53.2 x 118.8
Shipping Weight [lbs]	645	659	709	877
Order number - Manual	M75-0163-U2	M75-0166-U2	M75-0169-U2	M75-0172-U2
Order number - AC Power	M75-0164-U2	M75-0167-U2	M75-0170-U2	M75-0173-U2
Order number - DC Power	M75-0165-U2	M75-0168-U2	M75-0171-U2	M75-0174-U2

Portable Drum Dumper, available as Steel or Stainless-Steel model

- The Hydraulic Drum Dumper is what you need to dump heavy drums
- Works with plastic, steel, and fiber drums
- Dumper has a solid steel chute
- All steel construction
- The portable units have casters with floor lock screws
- Upper travel limit switch, emergency brass safety velocity fuse in cylinder and vertical adjustment drum restraints are standard
- The Dumper is operated with a handheld control on a coil cord standard
- Internal pre-wired heavy-duty electric motor conveniently dumps drums.
- Adjustable drum restraints work with all types of 30- and 55-gallon drums



Stationary Drum Dumper, available as Painted-Steel or Stainless-Steel model



Portable Drum Dumper, available as Steel or Stainless-Steel model



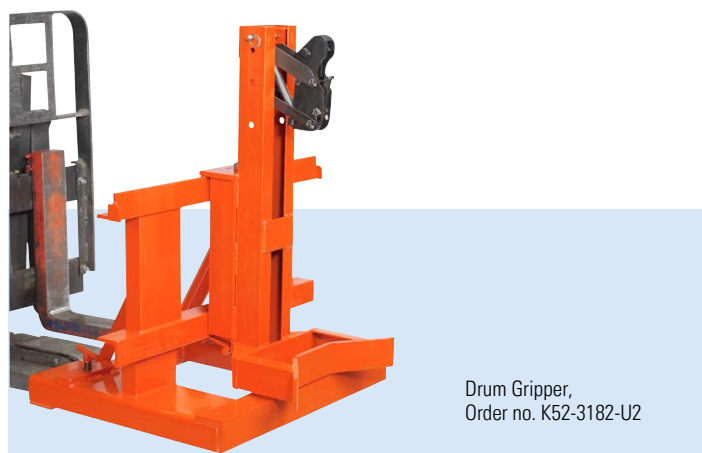
Stationary Drum Dumper, available as Painted-Steel or Stainless-Steel model

Version	Portable Hydraulic Drum Dumper			Stationary Hydraulic Drum Dumper		
Total Load Capacity*	750 lbs	1,000 lbs	1,500 lbs	750 lbs	1,000 lbs	1,500 lbs
External Dimensions W x D x H (in)	61.5 x 36 x 63.75			61.5 x 36 x 60		
Shipping Weight [lbs]	788 lbs	763 lbs	776 lbs	709 lbs	727 lbs	781 lbs
Order number - Painted Steel	M75-0199-U2	M75-0191-U2	M75-0195-U2	M75-0201-U2	M75-0193-U2	M75-0197-U2
Order number - Stainless Steel	M75-0200-U2	M75-0192-U2	M75-0196-U2	M75-0202-U2	M75-0194-U2	M75-0198-U2

*Other capacities and sizes available

Drum Gripper - Forklift mounted

- Grips and locks poly, fiber, and steel drums
- Picks up the drum automatically
- Works with both open and closed head drums
- Heavy-duty carriage design
- Available for one or two drums and in either single or double grip



Optional Accessory

Protective Belt

- To further protect drums from damage while in transit
- Fits Drum Grippers K52-3182 and K52-3183

Protective Belt,
Order no. K52-3184-U2

Version	Single Grip	Double Grip	Single Grip	Double Grip
Total Load Capacity [lbs]	1,000	1,000	1,600	1,600
External Dimensions W x D x H (in)	28 x 34 x 34	33.3 x 34 x 34	32 x 28 x 37	32 x 28 x 37
Fork Pocket Centers [in]	5.5	7.0	7.0	7.0
Shipping Weight [lbs]	126	208	244	340
Order number	K52-3180-U2	K52-3181-U2	K52-3182-U2	K52-3183-U2

Hoist Drum Lifter

- Lifts 55-gallon steel drums (open or closed head) vertically
- D-Shaped lifting ring fits most overhead systems
- Inverted ring fits web-lifting slings



Order no. K52-3159-U2

Ring Lifter

- Features three gripping hooks for added stability/security while lifting



Order no. K52-3166-U2

Crane & Hoist Lifter, for small drums

- Steel construction with spring-loaded arms for safety
- With automatic mechanical operation
- Accommodates steel, plastic, or fiber drums

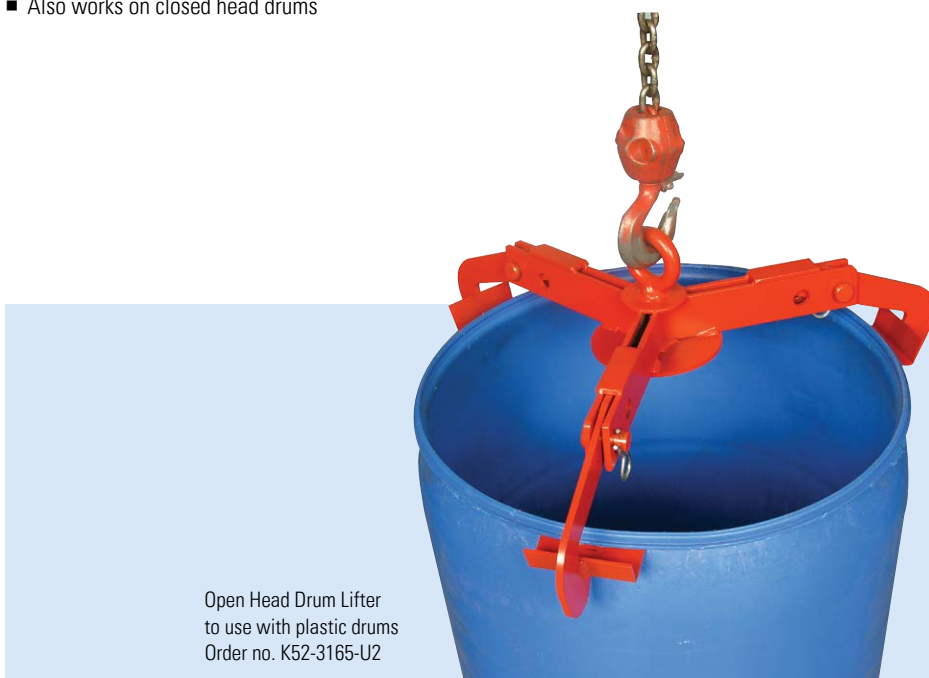


Crane/Hoist Drum Lifter, for drums with 20-25 in diameter,
Order no. M75-0007-U2

Hazardous Material Handling

Open Head Drum Lifter

- For use with standard steel or poly drums with at least a 3/16" chime
- Lifting arms are adjustable to work with most 30- or 55-gallon drums
- Three-point contact of the lifting arms prevents or minimizes deformation of the drum and provides more secure lifting
- Also works on closed head drums



Open Head Drum Lifter
to use with plastic drums
Order no. K52-3165-U2



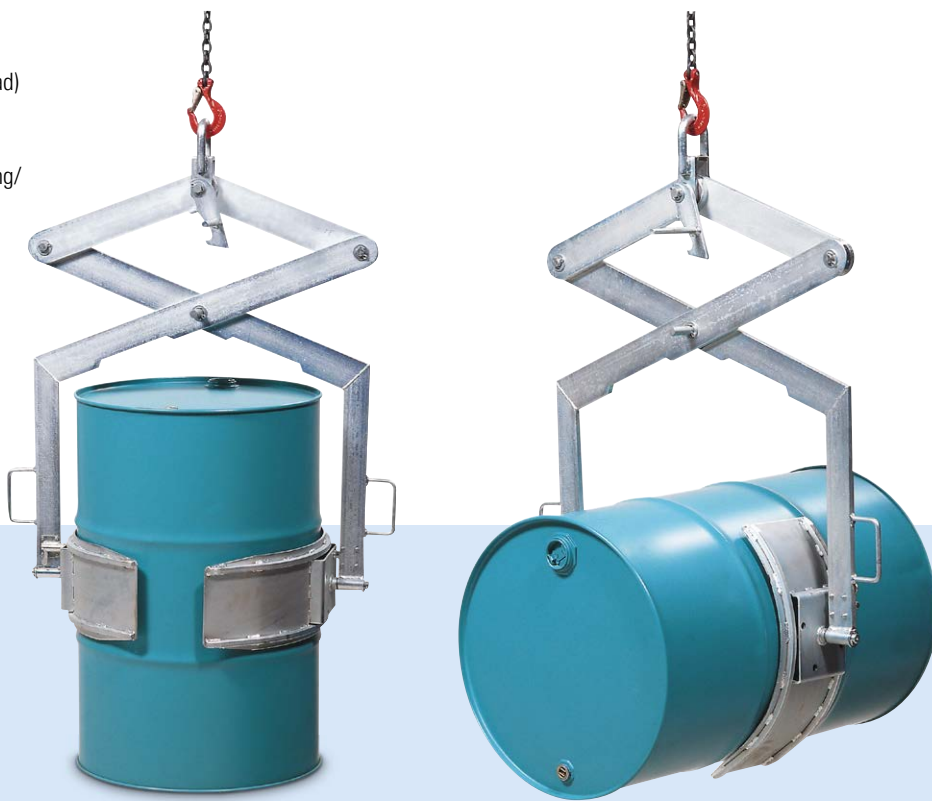
To use with open top steel drums
Order no. K52-3165-U2



To use with closed top steel drums
Order no. K52-3165-U2

Vertical & Horizontal Combination Action Drum Lifter

- Overhead drum lifters allow operators to lift ft and maneuver drums safely and effortlessly
- Transports 55-gallon steel drums (open or closed head) vertically and horizontally
- Perfect for dispensing and pouring
- Attach to a hoist, crane, or forklift for secure elevating/rotating



Vertical / Horizontal Combination Action Drum Lifter, Order no. K52-3152-U2

Sling Lift

- This horizontal lifter is designed for steel drums and features a lifter lock for added safety and security



Sling Lift
Order no.

Double Forklift Hook Attachment

Vertical & Horizontal Combination Action Drum Lifter

- The Hook Plate enables any fork truck to safely lift a load using chains, cables, or slings
- Features slanted fork openings to prevent the hook plate from being used upside down
- A hook with anchor shackle is included



Double Forklift Hook Attachment

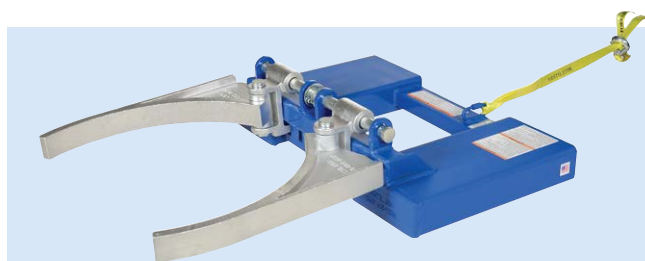
Order no. M75-1131-U2

Drum Gripper

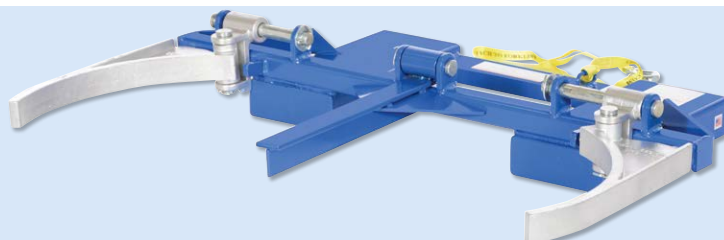
- Easy picking up one or two steel drums without leaving the seat of the fork truck
- Simply slip the forks into the fork pocket, fasten the safety restraint and the Drum Gripper is ready to go
- The knuckle gripping system is lowered around the drum, gripped tightly, and then lifted into the air
- Features a hinged folding design for storage and adjustable-width arms for use with steel drums
- Safety restraint included
- Welded steel construction
- Powder coat finish



Save storage space while folding the arms of the Drum Gripper together



Single Drum gripper (55 gals)
Order no. M75-0099-U2



Double Drum gripper (55 gals)
Order no. M75-0098-U2

Version	Single Drum Gripper	Double Drum Gripper
External Dimensions W x D x H (in)	35 x 27.75 x 7.5	35 x 45 x 7.5
Shipping Weight [lbs]	164	211
Order number	M75-0099-U2	M75-0098-U2

Deluxe Drum Lifter, Forklift mounted

- Drum Lifter includes attachments to lift any type of drum - steel, plastic, fiber and open or closed head drums
- Includes a single Eagle Beak™ unit and both bottom and top lip poly drum lifters
- Includes safety restraint for securing unit to fork truck
- Welded steel construction
- Powder coat finish
- Supplied to secure the drum to the unit when traveling over rough terrain



Deluxe Combo Fork Mount Drum Lifter,
Order no. M75-0097-U2

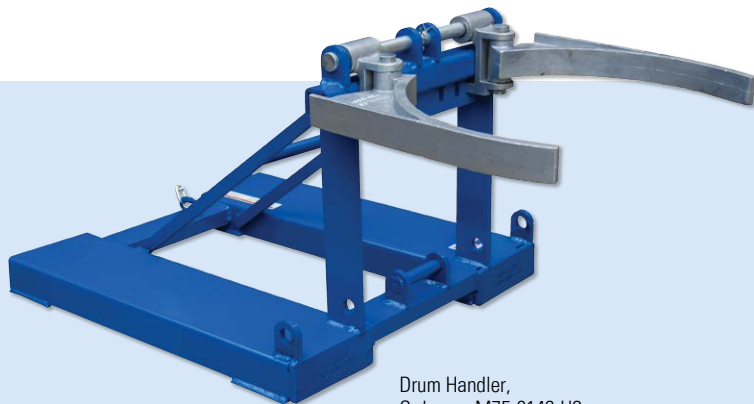
Version	Combo Fork Mount Drum Lifter
External Dimensions W x D x H (in)	47 x 29 x 29
Shipping Weight [lbs]	332
Order number	M75-0097-U2

Drum Handler

- This easy-to-use fork-mounted poly drum handler is designed to handle odd-shaped plastic drums
- Includes a safety restraint for securing the unit to the fork truck
- Durable powder coat finish
- This handler is a top lip plastic drum lifter for use with plastic closed-head drums



Drum Handler,
Order no. M75-0150-U2



Drum Handler,
Order no. M75-0149-U2

Version	Low	High
External Dimensions W x D x H (in)	56.5 x 29 x 22.5	48.5 x 29 x 22.5
Shipping Weight [lbs]	235	196
Order number	M75-0150-U2	M75-0149-U2

Drum Rotator

Fork Truck Drum Carrier/Rotators

- Easily transport and rotate steel drums using a fork truck
- Drums are held securely in place by a durable chain locking system.
This allows you to rotate the drum from the fork truck operator's seat



Drum Rotator, Manual Operated,
Order no. M75-0082-U2



This DC powered unit includes batteries on-board charger, and handheld control on a long coil cord
Order no. M75-0081-U2

Version	Manual operated	DC Powered	DC Powered
External Dimensions W x D x H (in)	30.6 x 40 x 21.7	39.1 x 40 x 20.7	39.1 x 40 x 20.7
Shipping Weight [lbs]	229	241	306
Order number	M75-0082-U2	M75-0083-U2	M75-0081-U2

Fork Extensions

- OSHA regulations require that extensions are no more than one-hundred and fifty (150) percent of the existing fork length
- Insert the loop at the tip of the fork and slide it up at a 45° angle
- Then lay it down over the existing fork

Fork Extensions Loop Style

- Insert loop at the tip of the fork and slide it up at a 45° angle



Fork Extensions Triangle Style

- These Triangular Fork Extensions are ideal for moving around large rolls of material



Hazardous Material Handling

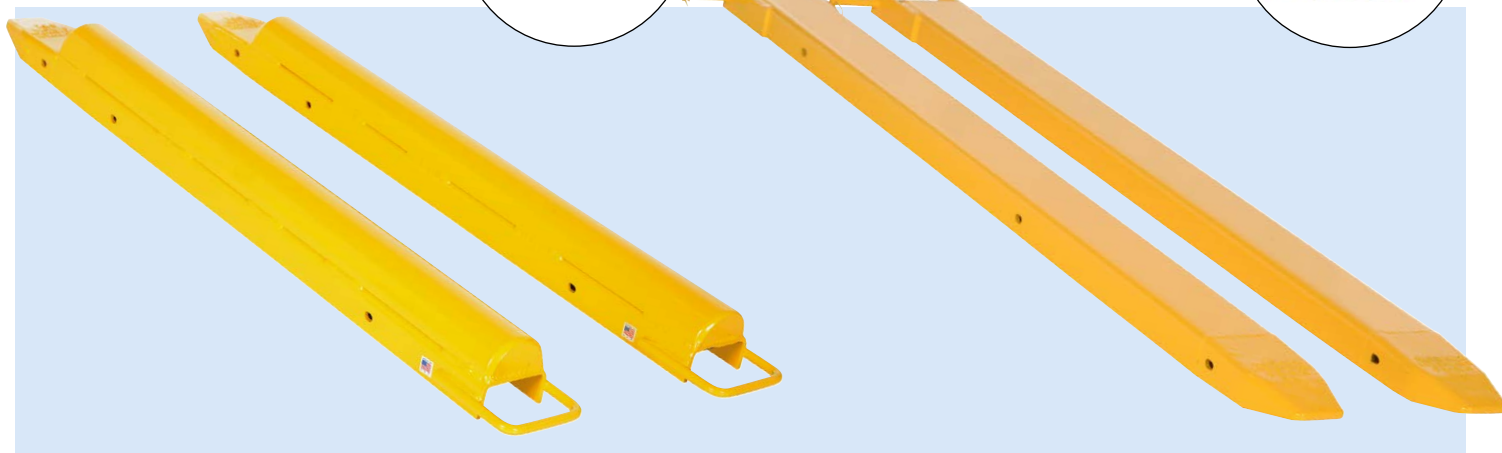
Fork Extensions Round Style

- These Round Fork Extensions are ideal for moving around large rolls of material



Fork Extensions Pin Style

- Remove Pin and lay extension over fork or drive fork truck into the extension



Model	Loop Style		Pin Style		Round		Triangle	
Version*	4" Fork Extension	5" Fork Extension	4" Fork Extension	5" Fork Extension	4" Fork Extension	5" Fork Extension	4" Fork Extension	5" Fork Extension
External Dimensions W x D x H (in)	57.1 x 6.4 x 2.3	57.1 x 7.4 x 2.3	51.6 x 9.5 x 2.3	57.6 x 9.5 x 2.3	57.1 x 6.4 x 4.5	57.1 x 7.4 x 5.1	57.1 x 6.4 x 4.8	57.1 x 7.4 x 4.9
Shipping Weight	74	96	74	96	74	96	74	96
Order number Yellow	M75-0874-U2	M75-0903-U2	M75-0876-U2	M75-0905-U2	M75-0877-U2	M75-0906-U2	M75-0879-U2	M75-0908-U2
Order number Black	M75-0875-U2	M75-0904-U2	—	—	—	—	—	—

*More sizes and configurations available - call for details

Telescoping and Non-Telescoping Economy Lift Booms

- Unique performance, convenience, and safety features are built into every Lift Boom
- Fabricated from structural steel with welding to meet AWS creates a rugged and durable boom that will provide long term service
- A safety restraint secures the boom to the fork truck for safe operation
- Includes two (2) lifting hooks



Economy models are useful for nearly all usually Applications. Master models are build much stronger with a lower overall height.



Non-Telescoping Economy Lift Boom, Uniform capacity 4,000 lbs.
Order no. M75-1108-U2



Non-Telescoping Lift Master Boom, Uniform capacity 4,000 lbs.
Order no. M75-1085-U2



Telescoping Economy Lift Boom, Uniform capacity 8,000 lbs.
Order no. M75-1126-U2



Non-Telescoping Lift Master Boom, Uniform capacity 8,000 lbs.
Order no. M75-1104-U2

Model Version	Economy Lift Boom				Master Lift Boom			
	Non-Telescoping		Telescoping		Non-Telescoping		Telescoping	
Total Load Capacity [lbs]	4,000	8,000	4,000	8,000	4,000	8,000	4,000	8,000
External Dimensions W x D x H (in)	81.6 x 32 x 13.3	80.4 x 32 x 11.5	86.3 x 32 x 13	84.9 x 32 x 15	81.5 x 32 x 24.8	80.1 x 32 x 23.5	86 x 32 x 25.9	84.6 x 32 x 26.6
Fork Pocket Centers [in]*	24	24	24	24	24	24	24	24
Shipping Weight [lbs]	258	418	333	577	333	615	424	647
Order number	M75-1108-U2	M75-1115-U2	M75-1119-U2	M75-1126-U2	M75-1085-U2	M75-1092-U2	M75-1097-U2	M75-1104-U2

*Lift Booms with different Fork Pocket Center dimensions and higher load capacities are also available. For more details, please call Factory.



FALCON Lubriflex Dispensing Bottles have a large opening for safe and easy filling

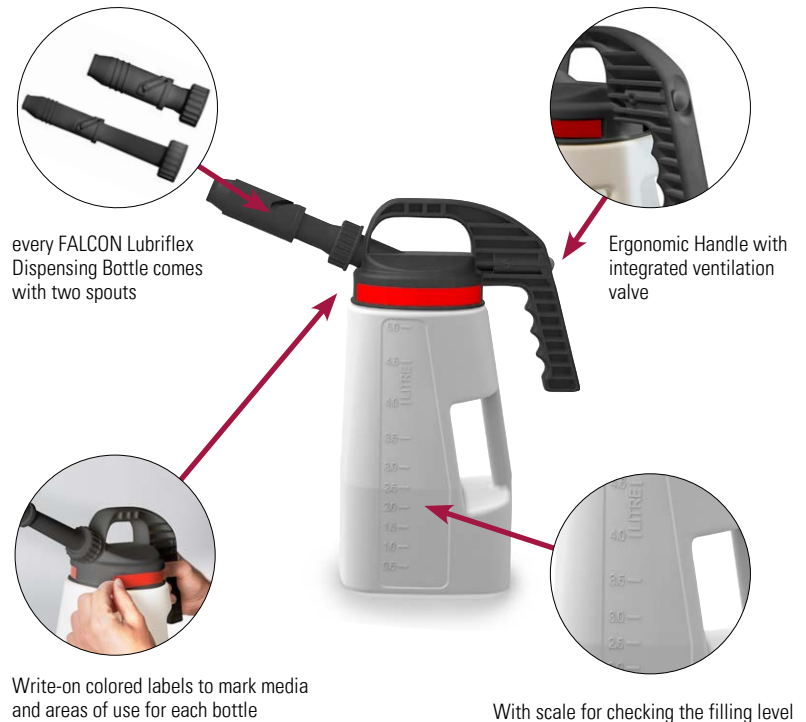


FALCON Lubriflex Dispensing Bottles with long spout - ensures safe, clean dispensing even in areas that are hard to reach

FALCON Lubriflex Dispensing Bottles

Handling hazardous liquids requires caution, vigilance, and attention. FALCON products provide reliable protection and maximum safety during the transport and handling of hazardous substances.

- Safe, clean, and convenient dosing of liquids during operation
- Chemically resistant and UV-stabilized containers made of HDPE
- Sturdy handles for ergonomic handling
- Including 2 screw-on spouts in different sizes, 18 inscribable stickers in 9 signal colors, and a multilingual security label for content labeling according to GHS
- Highly resistant to chemicals and aggressive media
- Resistant, robust, and high-quality workmanship
- Not recommended for drinking water
- Choose between 3 dimensions - from 2 up to 10 Liters



Hazardous Material Handling



Capacity [l]	2	5	10
External Dimensions W x D x H (in)	5.5 x 16.3 x 12.4	6.8 x 16.3 x 16.4	10.2 x 16.3 x 20.6
Shipping Weight [lbs]	2.6	6.4	8.4
Order number	M72-0400-U2	M72-0401-U2	M72-0402-U2

Handling hazardous liquids requires caution, vigilance, and attention. FALCON products provide reliable protection and maximum safety during the transport and handling of hazardous substances. Available in Steel, Stainless-Steel, and Polyethylene version

FALCON Storage and Transport Safety Jugs

- For the safe storage of aggressive liquids
- Also suitable for internal transport
- Screw cap with chemical resistant PTFE seal
- Ergonomic handle for safe handling
- All-Steel and Stainless-Steel Jugs come with optimum protection against flameout through an integrated flame arrester (removable, for example for cleaning)
- Resistant, robust, and high-quality workmanship
- Incl. multilingual secure purchase adhesive for content labeling



Use optional FALCON Funnels for safe pouring



Safety Jug, made of Polyethylene, also available as Steel or Stainless-Steel model



Available in Steel, Stainless-Steel and Polyethylene version

Version	with Fine Measuring Tap		with Screw Lid					
Material	Polyethylene		Steel			Stainless-Steel		
Capacity [gal]	0.25	0.50	0.25	0.50	1.30	0.25	0.50	1.30
External Dimensions Dia x H (in)	9.1 x 9	5.9 x 12.2	5.2 x 7.1	6.2 x 8.9	7 x 13.2	5.2 x 7.1	6.2 x 8.9	7 x 13.2
Shipping Weight [lbs]	1.7	1.8	2.1	2.6	4.0	2.1	2.6	4.0
Order number	M72-0460-U2	M72-0465-U2	M72-0628-U2	M72-0629-U2	M72-0630-U2	M72-0631-U2	M72-0632-U2	M72-0633-U2

All FALCON Cans, Containers, and Jugs are supplied with multiple-language safety labels to mark the contents, with danger symbols according to GHS



Available in Steel, Stainless-Steel and Polyethylene version

FALCON Fine Measuring Safety Jugs

- For safe distribution and easy dosing of aggressive liquids
- With unscrewable fine dosing unit made of stainless steel 1.4301, incl. venting and chemical-resistant PTFE seal
- Ergonomic handle for safe handling
- Incl. multilingual secure purchase adhesive for content labeling
- Highly resistant to chemicals and aggressive media
- Resistant, robust, and high-quality workmanship
- Not recommended for drinking water
- All-Steel and Stainless-Steel Jugs come with optimum protection against flameout through an integrated flame arrester (removable, for example for cleaning)



Fine Measuring Safe Jug, made of High-Quality Stainless-Steel



FALCON Measuring Safety Jugs, available as Polyethylene, Steel, and Stainless-Steel models

Version	with Screw Lid		with Fine Measuring Tap					
	Polyethylene		Steel			Stainless-Steel		
Material								
Capacity [gal]	0.25	0.50	0.25	0.50	1.30	0.25	0.50	1.30
External Dimensions Dia x H (in)	5.9 x 7.9	5.9 x 11	5.2 x 8.5	6.2 x 10.2	7 x 14.6	5.2 x 8.5	6.2 x 10.2	7 x 14.6
Shipping Weight [lbs]	2.1	2.1	2.1	2.8	3.3	2.1	2.8	3.3
Order number	M72-0450-U2	M72-0455-U2	M72-0228-U2	M72-0229-U2	M72-0230-U2	M72-0231-U2	M72-0232-U2	M72-0233-U2

Optional Accessory

FALCON Funnels

- Funnel for safe pouring into Plunger Cans, Spray Bottles and other Falcon Totes

FALCON Funnel, galvanized,
Order no. M72-1118-U2

FALCON Funnel, Stainless-Steel
Order no. M72-1119-U2



FALCON Safety Canisters

Handling hazardous liquids requires caution, vigilance, and attention. FALCON products provide reliable protection and maximum safety during transport and handling of hazardous substances. Available in Steel, Stainless-Steel and Polyethylene version

- For flammable and aggressive substances
- All Containers with Screw lids are UN approved for the transport of liquid substances of packing groups I, II, and III (UN 3A1 / X / 250 / ...)
- All Containers comes with ventilation valve for a smooth and fast evacuation
- Seals made of NBR
- Comfortable carrying handle with generous recessed grip



FALCON Storage and Transport Container,
UN approved, 5.3 gals, in Hi-Viz Yellow
Order no. M72-0602-U2



All Containers with Stainless-Steel fine dosing tap offer a comfortable control lever and allows also filling into small openings. Models included automatic ventilation when operating the fine dosing tap for precise dosing and having an integrated flame arrester prevents the penetration of flames and thus, the inflammation of the container contents

Optional Accessory

FALCON Funnels

- Funnel for safe pouring into Plunger Cans, Spray Bottles, and other Falcon Totes

FALCON Funnel, galvanized,
Order no. M72-1118-U2
FALCON Funnel, Stainless Steel,
Order no. M72-1119-U2



FALCON Storage and Transport Container,
UN approved, 1.3 gals, in Hi-Viz Yellow
Order no. M72-0601-U2



FALCON Storage and Transport Container,
UN approved, 5.3 gals, Stainless-Steel
Order no. M72-0606-U2



FALCON Safety Container with Fine Dosing
Tap, 2.6 gals, in Hi-Viz Yellow
Order no. M72-0602-U2



FALCON Storage and Transport Container,
UN approved, 2.6 gals, in Stainless-Steel
Order no. M72-0205-U2

Version	UN approved - with Screw Lid			with Fine Dosing Tap		
Capacity [gal]	1.3	2.6	5.3	1.3	2.6	5.3
External Dimensions W x D x H (in)	9.6 x 16.1 x 4.5	9.6 x 16.1 x 7.3	12.1 x 20 x 8.5	9.6 x 16.9 x 6.7	9.6 x 16.9 x 9.5	12.1 x 20.8 x 10.7
Shipping Weight [lbs]	4.9	5.5	8.2	5.7	6.4	9.0
Order number Steel	M72-0601-U2	M72-0602-U2	M72-0603-U2	M72-0201-U2	M72-0202-U2	M72-0203-U2
Order number Stainless-Steel	M72-0604-U2	M72-0296-U2	M72-0606-U2	M72-0204-U2	M72-0205-U2	M72-0213-U2

- Incl. multilingual secure purchase adhesive for content labeling
- Highly resistant to chemicals and aggressive media
- Resistant, robust, and high-quality workmanship

- Choose between Containers made of stainless steel 1.4301 (SUS 316L) or galvanized steel version, powder-coated in Hi-Viz yellow



Falcon Safety Containers - for safe dispensing of hazardous liquids



Falcon Safety Container with Dosing Tap can be stored on any shelf

Hazardous Material
Handling



FALCON Storage and Transport Container, UN approved, 2.6 gals, in Hi-Viz Yellow, Order no. M72-0207-U2



FALCON Storage and Transport Container, UN approved, 5.3 gals, Stainless-Steel Order no. M72-0210-U2



FALCON Safety Container with Fine Dosing Tab, 2.6 gals, Stainless-Steel Order no. M72-1010-U2



FALCON Safety Container with Fine Dosing Tab, 5.2 gals, in Hi-Viz Yellow Order no. M72-0212-U2

Version	UN approved - with Screw Lid		with Fine Dosing Tap	
Capacity [gal]	2.6	5.3	2.6	5.3
External Dimensions W x D x H (in)	6.7 x 13.4 x 11	6.7 x 13.4 x 18.5	6.7 x 17.5 x 11	6.7 x 17.5 x 18.5
Shipping Weight [lbs]	7.1	9.5	7.5	9.9
Order number Steel	M72-0207-U2	M72-0208-U2	M72-0211-U2	M72-0212-U2
Order number Stainless-Steel	M72-0209-U2	M72-0210-U2	M72-1010-U2	M72-1020-U2

FALCON Safety Plunger Cans

Handling hazardous liquids requires caution, vigilance, and attention. FALCON products provide reliable protection and maximum safety during the transport and handling of hazardous substances.

- Provides a safe and secure method of applying solvents or other chemicals to cleaning clothes
- Easy to use spring-operated pump
- for moistening rags and sponges
- Residual fluid flows back into can, reducing waste
- Controls fumes and vapors
- Specially designed large base prevents accidental tipping
- Choose between Plunger Cans made of stainless steel 1.4301 (SUS 316L), galvanized steel version, powder-coated in Hi-viz yellow, or made of polyethylene



Use Spill Containment Sumps for your safe storage of hazardous materials

See page
52



Material	Steel		Stainless-Steel	
Capacity [gal]	0.25	0.66	0.25	0.50
External Dimensions Dia x H (in)	7 x 7.9	7 x 11.4	5.2 x 10.2	5.2 x 12
Shipping Weight	2.9	3.5	2.9	3.3
Order number	M72-0411-U2	M72-0416-U2	M72-0412-U2	M72-0417-U2



Material	Polyethylene	
Capacity [gal]	0.3	0.5
External Dimensions W x D x H (in)	4.7 x 4.5 x 10.5	5.7 x 6.1 x 10.5
Shipping Weight	2.4	2.4
Order number Polyethylene	M72-0470-U2	M72-0475-U2

FALCON Immersion Dip Tanks

- Ideal for small degreasing or cleaning parts
- Spring-loaded immersion sieve, which also serves as a flame arrester serves as a flame trap
- Integrated handles for intuitive, safe gripping of the containers
- Lid with stop function allows free working, as no holding of the lid is necessary
- No need to hold the lid



- Sieve insert with adapted perforation, also suitable for small parts such as screws
- Optimized sieve contour, recessed with rim, so that no small parts can



Material	Steel		Stainless-Steel	
Capacity [gal]	0.5	1.0	0.5	1.0
External Dimensions Dia x H (in)	10.4 x 3.7	10.4 x 5.7	10.4 x 3.7	10.4 x 5.7
Order number	M72-0607-U2	M72-0608-U2	M72-0609-U2	M72-0610-U2
Accessories				
Order number Easy-Connect Grounding Cable	M72-0613-U2	M72-0613-U2	M72-0613-U2	M72-0613-U2

FALCON Immersion Dip Tanks

- Ideal for small degreasing or cleaning parts
- Lid closes automatically in case of fire, fusible link release
- Integrated handles for intuitive, safe gripping of the containers
- Lid with stop function allows free working, as no holding of the lid is necessary
- No need to hold the lid
- Optional parts basket, with which small parts can be dipped into the liquid or hung up for dropping off



The self-closing lid link in the event of fire ensures that the lid closes automatically



Optionally stainless-steel parts basket

Material	Stainless-Steel
Capacity [gal]	2.1
External Dimensions Dia x H (in)	10.4 x 8.1
Order number	M72-0611-U2
Accessories	
Order number Easy-Connect Grounding Cable	M72-0613-U2
Order number Part Basket for FALCON Dip Tank, Stainless Steel	M72-0612-U2

The self-closing lid link in the event of fire ensures that the lid closes automatically

Small parts cleaner, optionally with spring-loaded sieve bottom or optional stainless-steel parts basket

High-quality body made of galvanized steel, powder coating in Hi-Viz yellow or stainless steel

Ergonomic recessed grips

Earth ground connection, suitable for connecting a ground wire



FALCON Safety Spray Bottles

Handling hazardous liquids requires caution, vigilance, and attention. FALCON products provide reliable protection and maximum safety during transport and handling of hazardous substances.

- A specially designed large base prevents accidental tipping
- Highly resistant to many cleanings agents
- Ergonomic handling with plastic trigger spray
- Spray head with adjustable nozzle
- Integral plastic pumps
- High quality bottles made of stainless steel or galvanized steel, powder-coated in Hi-Viz Yellow

Hazardous Material
Handling



Pallet Material	Steel		Stainless-Steel	
Capacity [gal]	0.3	0.5	0.3	0.5
External Dimensions Dia x H (in)	6.5 x 11.8	7.5 x 13.6	6.5 x 11.8	7.5 x 13.6
Shipping Weight	2.1	2.4	2.1	2.9
Order number	M72-0430-U2	M72-0435-U2	M72-0432-U2	M72-0437-U2

Optional Accessory

FALCON Funnels

- Funnel for safe pouring into Plunger Cans, Spray Bottles and other Falcon Totes



FALCON Funnel, galvanized,
Order no. M72-1118-U2

FALCON Funnel, Stainless-Steel,
Order no. M72-1119-U2

Safety Bottles - Aluminum

These Aluminum Bottles are particularly suited for storing, transport or sending substances and reference samples which must be stored completely unaltered. Other properties: can be completely emptied without residues, odor-neutral, impervious to light, rustproof.

- Pure aluminum (material AL 99.5)
- With tamper-evident screw cap made of PP with aluminum inner seal
- Suitable for food (exception: highly acidic and salt-containing foods)
- With UN approval



Tamper-evident screw cap, made of PP with aluminum inner seal



Capacity [oz]	1.3	2.1	4.1	10.2	20.3	40.6	101.5	189.4
External Dimensions Dia x H (in)	138 x 2.8	157 x 3.5	224 x 3.8	224 x 6.3	291 x 7.6	346 x 9.8	6.34 x 8.5	6.34 x 13.4
Shipping Weight [lbs]	0.04	0.08	0.10	0.12	0.19	0.24	0.66	0.97
Order number	M77-0275-U2	M77-0276-U2	M77-0277-U2	M77-0278-U2	M77-0279-U2	M77-0280-U2	M77-0281-U2	M77-0282-U2

Spray Bottles

- Pressure less spray bottle made of LDPE with long-life hand pump. The functioning of each individual sprayer is tested during manufacture.
- Areas of application: Industry, laboratories, production, leisure, household. Suitable for agricultural pesticides and detergents.
- Media-contacting parts PP, PE and stainless steel
- Nozzle 0.6 mm (0.02 in.) diameter, nozzle steplessly adjustable
- Spray volume per stroke: 0.04 oz. (± 0.003)
- Temperature of the liquid: 32 - 86 °F

Capacity [oz]	9	17	34
External Dimensions Dia x H (in)	2.4 x 8.7	3 x 9.5	3.7 x 11.6
Shipping Weight [lbs]	0.12	0.17	0.29
Order number	M77-0272-U2	M77-0273-U2	M77-0274-U2



Spray Bottles Turn'n'Spray

Spraying at an angle or overhead is not possible with standard spray bottles. Not so with our overhead spray bottle Turn'n'Spray. It features a special technology that allows you to spray from any position. That means you can spray practically and conveniently from any direction and reach hard-to-access places easily and without straining.

- The high-quality, refillable quality spray bottle can be used again and again
- Uninterrupted spraying, even overhead
- Parts in contact with media made of PP, PE, silicon, and stainless-steel
- Amount sprayed per stroke: 0.04 oz. (± 0.003)
- Nozzle diameter 0.02 in., nozzle is continuously adjustable

Capacity [oz]	9	17	34
External Dimensions Dia x H (in)	2.4 x 8.7	3 x 9.5	3.7 x 11.6
Shipping Weight [lbs]	0.16	0.20	0.29
Order number	M77-0269-U2	M77-0270-U2	M77-0271-U2



Compact Jerrycans

The Compact jerrycans are ideal as space-saving canisters with a width of 2.6 or 4.9 inches. Different liquids can be stored and decanted in a small space. The Compact jerrycans can also be stored lying on their side - for example in a refrigerator. It is very stable due to the ribbed structure and thick sides. The Compact Jerrycans can also be used as a settling canister.

- With or without threaded connector 3/4"
- Made of Polypropylene (PP), transparent
- With tamper-proof closure
- Canister closure autoclavable (model without stopcock)
- With molded, indestructible volume graduation



The Spigot Compact captivates everyone through its compact build, which makes the valve on the canister ideal for use in refrigerators and on racks, etc. The short discharge does not protrude out over the lower edge of the container, which makes the valve a perfect choice even when space is very limited.



StopCock with discharge angle and rotatable spout preventing drips and tapered spout for bottles with narrow openings with a diameter from 0.24 to 0.31 in.



Features	without threaded connector		with threaded connector	
Capacity [gal]	1.4	2.7	1.4	2.7
External Dimensions W x D x H (in)	2.56 x x 13.19	4.92 x x 13.19	2.56 x x 13.19	4.92 x x 13.19
Material	PP			
Shipping Weight	1.6	1.9	1.6	2.0
Order number	M77-0285-U2	M77-0286-U2	M77-0287-U2	M77-0288-U2
Accessories				
Order number StopCock discharge cock	—	—	M77-0294-U2	M77-0294-U2
Order number Compact Spigot	—	—	M77-0295-U2	M77-0295-U2

Laboratory Trays

The laboratory trays are practical all-purpose trays that can be nested when empty, are also durable, shatterproof, and resist flexing. The trays have a strong, rounded rim. Suitable as a spill trough for environmentally dangerous, aggressive substances, for experiments, as an etching tray, as an instrument holder, a medicine tray, a photographic development basin, a goods presentation tray, and a display tray for foodstuffs.

- Trays can be nested
- Made of Polypropylene (PP), white
- Temperature resistant up to +140 °F, (briefly up to +176 °F)
- Trays are not suitable for temperature-controlled cupboards or dishwashers



Laboratory Trays, available in 6 different sizes



Laboratory Trays, also available as sets with 4 or 6 trays in different sizes

Version	single tray						Set of 4 pcs. (0.13 - 2.64 gal.)	Set of 6 pcs. (0.13 - 10.30 gal.)
External Dimensions W x D x H (in)	9.06 x 7.09 x 1.65	12.2 x 9.84 x 2.56	14.57 x 12.2 x 2.95	20.47 x 16.54 x 4.72	24.96 x 21.02 x 5.51	33.31 x 25.51 x 6.3	15.75 x 11.81 x	27.56 x 19.69 x
Shipping Weight [lbs]	0.3	0.5	0.9	1.6	2.8	4.8	5.8	16.1
Order number	M77-0298-U2	M77-0299-U2	M77-0300-U2	M77-0301-U2	M77-0302-U2	M77-0303-U2	M77-0296-U2	M77-0297-U2

Transfer and Dispensing Bottles

Transfer and Dispensing System based on Dispensing Bottles from 1.5 up to 10.0 liters and colored Lids for different applications

- **Storage Lid** - provides a tight fit for storing liquids while keeping contaminants out
- **Utility Lid** - features a large outlet hole for fast, controlled pouring. The hole is also designed to fit an optional hand pump for easy lubricant transfer
- **Stretch Spout** - designed for precise pouring; ideal for lower viscosity oils (< ISO 220)
- **Mini Spout** - smaller diameter opening (9/32") is great where filler holes are small (ex: machine tools)
- **Stumpy Spout** - provides 1" spout opening for higher lube flow
- Choose from yellow, red, green, blue, or black - other colors are available on request



Hazardous Material Handling

Version	Storage Lid	Utility Lid	Stretch Spout Lid	Mini Spout Lid	Stumpy Spout Lid
Order number - Yellow	M72-0325-U2	M72-0330-U2	M72-0335-U2	M72-0340-U2	M72-0345-U2
Order number - Red	M72-0326-U2	M72-0331-U2	M72-0336-U2	M72-0341-U2	M72-0346-U2
Order number - Green	M72-0327-U2	M72-0332-U2	M72-0337-U2	M72-0342-U2	M72-0347-U2
Order number - Blue	M72-0328-U2	M72-0333-U2	M72-0338-U2	M72-0343-U2	M72-0348-U2
Order number - Black	M72-0329-U2	M72-0334-U2	M72-0339-U2	M72-0344-U2	M72-0349-U2

Poly Dispensing Bottles

- Extra wide neck opening (120mm / 4.7")
- Fully graduated in both metric and imperial to assist with measuring fluid volumes
- Ultra-durable construction so it will not warp, leak, bend or break



Capacity [qt]	1.5	3.0	5.0	10.0
External Dimensions Dia x H (in)	3 x 9	6.3 x 10.6	5 x 11	5 x 12
Order number	M72-0320-U2	M74-0074-U2	M72-0323-U2	M72-0324-U2

Optional Accessory

Accessories for Poly Dispensing Bottles



Hose Extension for Stumpy Spout Lids,
10.4" length
Order no. M72-0351-U2



Hose Extension for Stretch Spout Lids,
12" length
Order no. M72-0350-U2

Hand Pump for Poly
Dispensing bottles with
Utility Lid
Order no. M72-0352-U2





Heavy Duty Steel Drums
30 - 55 Gallon, with open
or closed Top

Heavy Duty Steel Drums 30 - 55 Gallon

- UN-Approved / DOT-Rated
- Closed top drums have 2" and 3/4" bung openings
- Will ensure secure storage and handling for almost any material



Level Indicator, fits 3/4 and 2" bungholes -
with transparent protection cap
Order no. K22-0159-U2



Open top Steel Drums have a tight-
sealing ring with bolt/nut closure

Version	Closed Top		Open Top	
Capacity [gal]	30	55	30	55
UN Code	1A1/Y1.4/300	1A1/Y1.8/300	1A2/Y1.5/150 & 250/S	1A2/Y1.8/150 & 400/S
Shipping Weight [lbs]	24	35	35	49
Order number	M72-7055-U2	M72-7075-U2	M72-7050-U2	M72-7070-U2



250 Gallon IBC Tote, Stainless Steel

IBC Totes - Steel and Stainless Steel

- Patented one-piece sloped bottom assures uniform and complete drainage
- 22.5" diameter fill opening allows easy dispensing into a tote
- Stackable to 3 high, when warehousing only
- 1/4" thick combination lift lugs and leg positioners ease shipping and handling
- Patented TranSeal pressure-relieving bung plug
- Supplied with cover, EPDM gasket, and bolt ring
- Equipped with 2" NPS brass or stainless-steel outlet assembly
- Long service life with minimal maintenance
- Available in capacities from 250 to 550 gallons

Carbon Steel Heating Coils

See page
210



Carbon Steel IBC Tote, painted, available
from 250 up to 550 storage capacity

Material	Carbon Steel					Stainless-Steel				
Capacity [gal]	250	300	350	450	550	250	300	350	450	550
External Dimensions W x D x H (in)	42 x 48 x 35	42 x 48 x 41	42 x 48 x 47	42 x 48 x 59	42 x 48 x 71	42 x 48 x 35	42 x 48 x 41	42 x 48 x 47	42 x 48 x 59	42 x 48 x 71
Shipping Weight [lbs]	360	400	440	525	600	360	410	460	525	610
Order number	M72-7910-U2	M72-7920-U2	M72-7930-U2	M72-7940-U2	M72-7950-U2	M72-7905-U2	M72-7915-U2	M72-7925-U2	M72-7935-U2	M72-7945-U2



Poly Drums 15 - 55 Gallon

- FDA-Approved, UN-Approved, and DOT-Rated
- Poly construction suitable for most aggressive chemicals



Poly Drum, Closed Top, with 3/4 and 2" Bung Opening



Level Indicator, fits 3/4 and 2" bungholes - with transparent protection cap
Order no. K22-0159-U2



Poly Drums, 15 - 55 Gallon, with open or closed top

Version	Closed Top			Open Top		
Capacity [gal]	15	30	55	15	30	55
UN Code	1H1/Y1.9/100	1H1/Y1.8/100	1H1/Y1.9/150	1H2/Y100/S	1H2/Y180/S	1H2/Y165/S
Shipping Weight [lbs]	9	14	23	9	9	23
Order number	M72-7525-U2	M72-7555-U2	M72-7575-U2	M72-7520-U2	M72-7550-U2	M72-7570-U2

Rugged, All-Purpose Totes

These totes can be stacked two high in warehouse settings and two-high for transport. UN and FDA approved.

- These economy IBC Totes are perfect for in-plant mixing and blending
- Suitable for most materials
- Totes are HDPE
- Cage is reinforced with warp-resistant tubular steel
- Features steel bottom plates allowing for 4-way forklift entry
- Steel bottom plate is suitable for shipping



Heating Jackets for Drums and IBC Totes

See page
208



Funnel for IBC Totes, shown here with optional Level Indicator
Order no. K22-0157-U2



275-gallon IBC Tote with 2" ball valve discharge and steel bottom plate

Capacity [gal]	275	330
Version	Steel Base	Steel Base
External Dimensions W x D x H (in)	48 x 40 x 46	48 x 40 x 54
Shipping Weight [lbs]	132	148
Order number	M72-7845-U2	M72-7860-U2



Here the tank is shown with an optional cover

Poly Tanks - 55 up to 500 gallons

- Durable poly construction is highly chemical and impact resistant
- Open top design is great for mixing operations
- Poly resin complies with USDA 21 CFR 177.1570 (c) 3.1 and 3.13
- Optional hinged lid protects contents from outside contamination while providing easy access



Double Walled Container - 35 up to 1,000 gallons

- Suitable for indoor and outdoor use
- Enclosed design keeps rain, snow, and debris from the containment tank
- Outer tank complies with 40CFR-264.193 containment capacity requirements
- Poly resin complies with USDA 21 CFR 177.1570 (c) 3.1 and 3.2

Capacity [gal]	35	50	65	100	120
External Dimensions Dia x H (in)	24 x 35	27 x 38	28 x 37	35 x 39	33 x 45
Vented Manway Dia [in]	8	8	8	16	8
Order number	M72-8113-U2	M72-8115-U2	M72-8117-U2	M72-8120-U2	M72-8122-U2

Capacity [gal]	150	200	350	500	1,000
External Dimensions Dia x H (in)	34 x 48	41 x 52	52 x 56	59 x 71	74 x 85
Vented Manway Dia	16 in	16 in	16 in	16 in	16 in
Order number	M72-8125-U2	M72-8130-U2	M72-8135-U2	M72-8140-U2	M72-8145-U2



Standard/Heavy Duty Bulk Chemical Tanks

- 4-way forklift capability for easy transport, with front and rear pockets and open channels on the sides
- Protective hatchway door as additional protection for the bottom drain valve
- Large 6.5 G.E.M. cap and seal (lid opening is 6")
- Two large bung holes (2") for top draw tubes or pressure/vacuum relief vents
- Molded-in UN markings for long-term legibility and regulatory security
- Molded-in gallonage markers
- STANDARD: 30% more bottom tank surface coverage and larger forklift channel area - Reduces the overall height of the container
- HEAVY DUTY: space-saving design and safety forklift channels



Stackable, Heavy Duty Bulk Chemical Tanks

Heavy-Duty Base and Stacking Frame Protects Tank and Provides Superior Material Handling Benefits

- Protects tank when stacking and provides four-way forklift access for easy transport
- Stacks 3-4 high
- Tanks domed bottom design enhances drainage
- UN/DOT certified (UN 31H1) for packing groups II and III per Title 49 CFR
- Pressure rated for 14.7 P.S.I.G
- Molded-in gallonage markers
- Standard model offers a 6" screw cap
- 20" screw cap provides access for filling, mixing, and cleaning

Capacity [gal]	220	275	330
External Dimensions W x D x H (in)	46 x 46 x 54	46 x 46 x 62	46 x 46 x 70
Shipping Weight [lbs]	285	303	312
w/ 6" screw cap			
Order number	M72-8027-U2	M72-8037-U2	M72-8047-U2
w/ 20" screw lid			
Order number	M72-8028-U2	M72-8038-U2	M72-8048-U2



Optional 20" Lid provides added access for filling, mixing, and cleaning

Mini Bulk Tanks

Bulk Tanks - 110 up to 220 Gallon

- Designed for the efficient handling and storage of in-plant chemicals
- Linear polyethylene for durability and resistance
- Translucent for visible content level
- Molded-in standpipe locator for 2" pipe
- Concaved bottom to facilitate drainage
- 8" vented manway for easy filling
- Complies with Federal Spill Containment 40CFR 264-193 requirements



Mobile Mini Tank with 110 gallon capacity
Order no. M72-1885-U2



Mini Bulb Tanks are available in capacities of 120 and 220 gallons
Order no. M72-1893-U2
Order no. M72-1897-U2


Version	Mobile Bulk Tank	Mini Bulk Tank	
Capacity [gal]	110	120	220
External Dimensions Dia x H (in)	35 x 36	38 x 29	42 x 41
Vented Manway Dia [in]	8	8	8
Shipping Weight	55	50	46
Order number	M72-1885-U2	M72-1893-U2	M72-1897-U2

IBC Tote Spill Containment Pallets

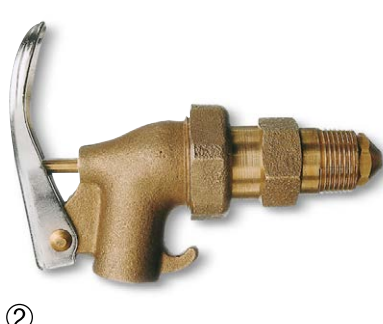
See page 12

Lever Faucets

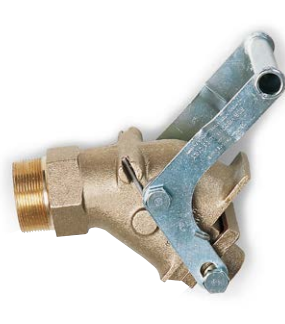
Secure Dispensing for all totes with a 3/4 or 2-inch NPT Bung



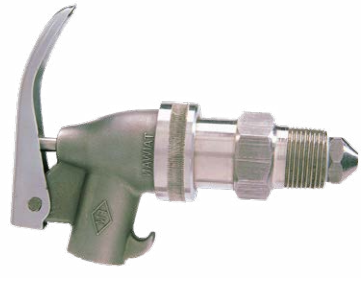
①
Self-Closing Zinc die-cast alloy Safety Faucet
Order no. M32-0062-U2




②
Self-Closing Brass Faucet 3/4" NPT bung,
Order no. M32-0023-U2




③
Faucet Brass Gate Valve, 2" NPT bung,
Order no. M32-0024-U2




④
Self-Closing Stainless Steel Faucet, 3/4" NPT bung,
Order no. M32-0061-U2



⑤
Poly Faucets for 2" NPT bung,
Order no. M32-0009-U2



⑤
Poly Faucets for 3/4" NPT bung,
Order no. M32-0008-U2



⑥
Unique Horizontal Drum Faucet, 2" NPT bung,
Order no. M75-0306-U2

	①	②	③	④	⑤	⑤	⑥
Material	Die-cast zinc alloy	Brass		Stainless-Steel	Polyethylene		
Compatibility	For flammable and non-flammable liquids	For flammable and non-flammable liquids (for oils up to 30W)	For non-flammable viscous materials (for oils > 30W)	For acid and corrosive flammable and non-flammable liquids	For acidic, corrosive, and non-flammable liquids		
Fits to	3/4" NPT bung	3/4" NPT bung	2" NPT bung	3/4" NPT bung	3/4" NPT bung	2" NPT bung	2" NPT bung
Features	Flame Arrestor	Flame Arrestor	—	Flame Arrestor	—	—	—
Seals Material	PTFE	PTFE	PTFE	PTFE	EPE	EPE	Nitrile rubber
Shipping Weight [lbs]	0.6	1.4	6.8	1.5	0.2	0.6	2.0
Order number	M32-0062-U2	M32-0023-U2	M32-0024-U2	M32-0061-U2	M32-0008-U2	M32-0009-U2	M75-0306-U2

Safety Drum Valve - Brass

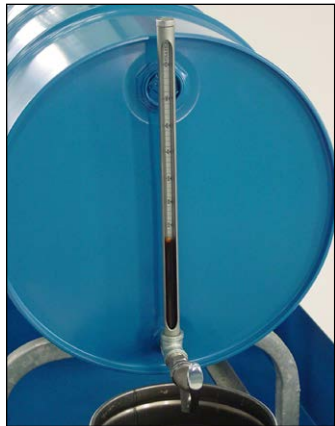
- Automatically relieves dangerous internal pressures
- For mounting on horizontal drums
- Knob manually adjustable for vacuum relief
- For 2" NPT bung in steel or plastic drum



Order no. M32-0022-U2

Level Indicator

- Clearly shows the remaining contents in gallons
- Attaches to 3/4" bung opening
- Includes a 3/4" opening for a drum faucet (not included)
- Zinc plated to resist corrosion
- 23 inches high



Order no. M32-0058-U2

Drum Plug Wrench

- This cast-iron wrench opens most drum plugs and bung nuts while protecting hands from injuries

Order no. M32-0027-U2



Drum Plug Wrench - Non-Spark Bronze

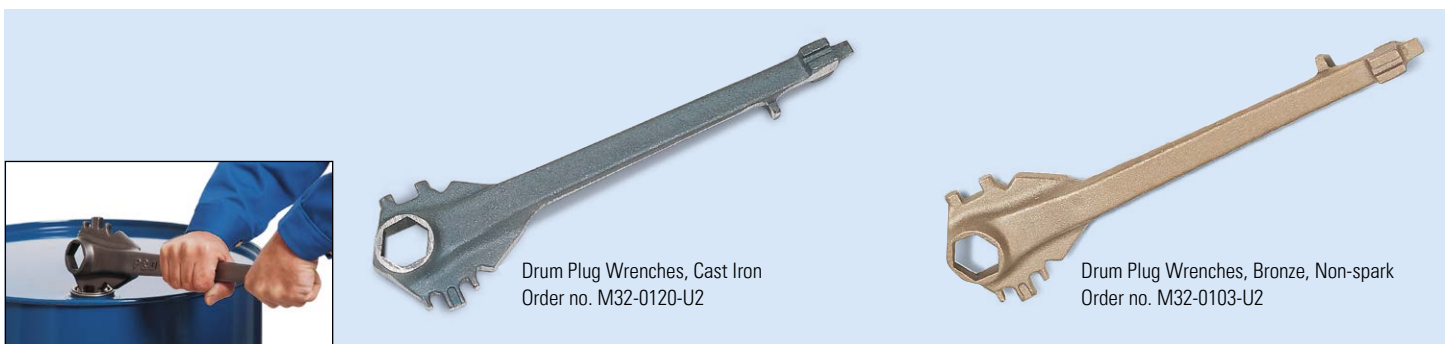
- Ideal for opening drums of flammables, this bronze wrench also protects hands from injuries

Order no. M32-0066-U2



Drum Plug Wrenches - Heavy

- Universal one-piece wrench removes any drum plug
- The non-sparking bronze drum wrench is perfect for opening drums containing flammables



Drum Plug Wrenches, Cast Iron
Order no. M32-0120-U2

Drum Plug Wrenches, Bronze, Non-spark
Order no. M32-0103-U2

Drum Dekinker

- Quickly repairs and restores drum chime contour - easing deheading
- Use on both 30 and 55-gallon drums

Order no. M32-0108-U2



IBC Tote Wrench / Torque

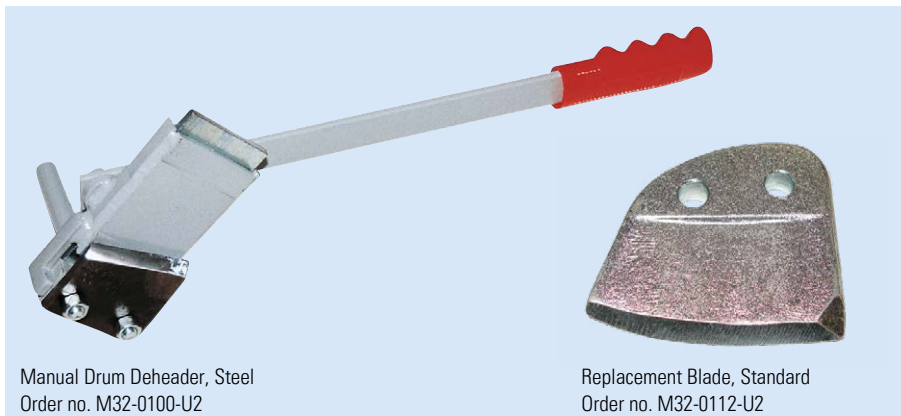
- Open and close 6-inch fill caps quickly and easily with the exclusive lightweight IBC tote wrench
- This combination wrench allows you to save time and effort and save you from being fined by DOT for not complying with closing requirements
- Works with Greif®, Schutz®, Mauser®, and most other 6-inch IBC caps
- Only 1.9 lbs. and easy to handle and carry
- One-piece 365 aluminum construction for durability

Order no. M32-0126-U2



Manual Drum Deheaders

- Ideal for occasional deheading jobs
- Deheaders feature a vinyl handgrip and include a replacement blade
- Available as a standard steel version or as a non-sparking bronze version

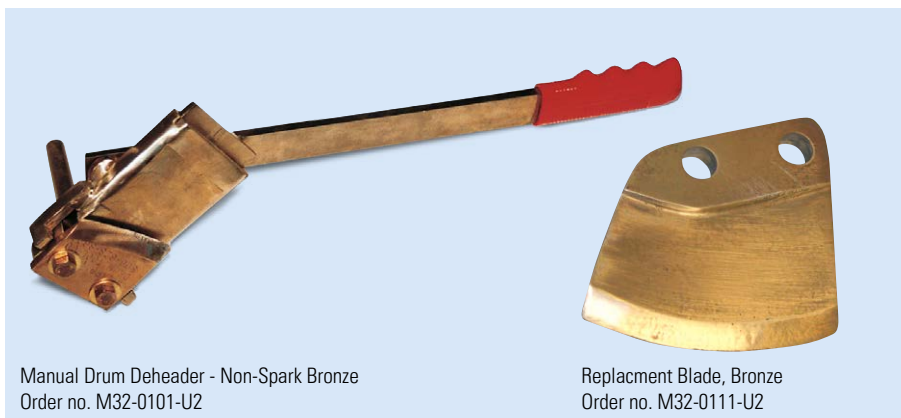


Manual Drum Deheader, Steel
Order no. M32-0100-U2

Replacement Blade, Standard
Order no. M32-0112-U2

More safety with DENIOS Level Indicators

See page
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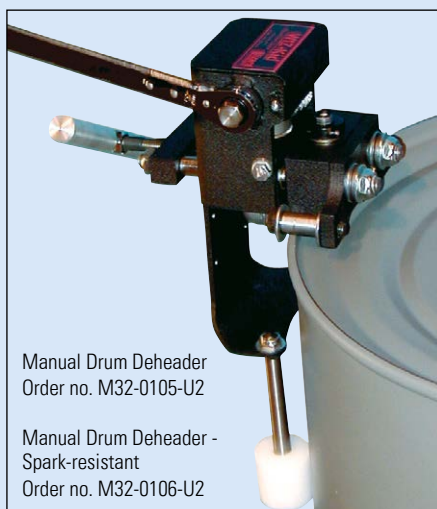
Manual Drum Deheader - Non-Spark Bronze
Order no. M32-0101-U2

Replacement Blade, Bronze
Order no. M32-0111-U2

Hazardous Material
Handling

Manual Drum Deheader

- Delivers a smoother, safer cut
- By cutting horizontally into the chime, this manual deheader leaves a smooth, burr-free edge
- Manual ratchet is easy to operate and can be adjusted for right or left-handed use
- Typically deheads drums in less than two minutes; designed for steel drums up to 16 gauge



Manual Drum Deheader
Order no. M32-0105-U2

Manual Drum Deheader -
Spark-resistant
Order no. M32-0106-U2

Automatic Drum Deheader

- Great when dealing with moderate drum volumes
- This electric deheader moves around the drum, cutting and folding the metal towards the chime, leaving a safe, smooth edge
- Designed for 30–55-gallon drums and up to 16-gauge steel
- Deheads most drums in less than two minutes
- Is lightweight, portable, and easy to use



Order no. M32-0102-U2

Optional Accessory

Replacement Blades and Cutter Wheels



Replacement Cutter Wheel,
Order no. M32-0113-U2

Replacement Cutter Wheel,
Spark-resistant
Order no. M32-0114-U2

Level Indicator

- Prevent drums and other totes from being over-filled inadvertently
- A red float indicates that the drum/tote is almost filled and comes with a transparent protective cap
- Suitable for all drums/totes with 3/4" and 2" bung opening
- Ready for a ventilation connection, to dissipate vapors from unpleasant smelling substances or substances that release strong gases, for example



Order no. K22-0159-U2

Fill Gauge

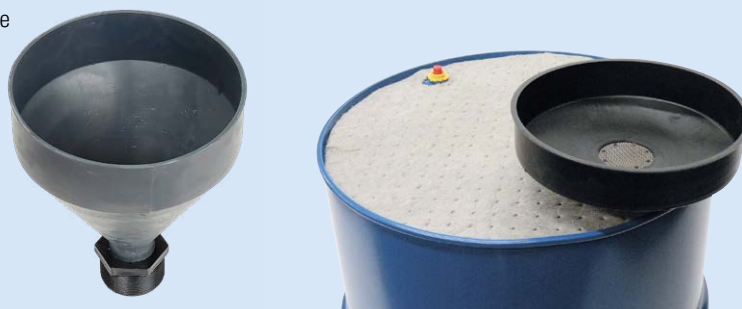
- All poly, corrosion-resistant construction compatible with most liquids except certain solvents
- Red float pops up indicating the liquid level is within 7 inches of the drum top
- Prevents hazardous over-filling
- Protective cap protects float when not being used - attaches to 3/4" bung opening



Order no. K22-0155-U2

Drum Funnels - 3 and 4 Quarts

- Made of high-resistant Polyethylene



Capacity [qt]	3	4
External Dimensions W x D x H (in)	16 x 16 x 16	24 x 16 x 16
Diameter Intern [in]	7.50	11.75
Thread Diameter [in]	2	2
Spout Length [in]	1-7/16	1-1/2
Outer Spout Diameter [in]	—	2-1/2
Shipping Weight [lbs]	12	15
Order number	K22-0150-U2	K22-0160-U2
Accessories	—	Funnel Top
Order number	—	K22-0161-U2

Optional Accessory

Funnel Top

- Drainage lid fits our 4-quart drum funnel or any 5-gallon pail
- Drain top accepts standard size quart oil bottles

Order no. K22-0161-U2



Smart Drum Funnel

Spill-Resistant 2 Gallon Smart Funnel prevents overfilling of drums. With the funnel extension, trapped air stops the liquid from filling the top of the barrel. It leaves just enough room to add 2 gallons more to the barrel, which is the capacity of the Drum Funnel "SMART".

- Polypropylene body and lid
- Lid cover has a cord attached to funnel
- Polyethylene air hose and band
- Overall Height: 13 inches
- Top OD with Cover: 11-1/2 inches
- Top ID: 11 inches
- Threaded for 2" Bung Hole



Order no. K22-0145-U2



Drum Funnel

Our polyethylene drum funnels are perfect for both open and closed-head steel 55-gallon drums as well as for plastic drums.

- Fill drums without splashing
- Funnel covers the entire drum top
- Profiled funnel bottom allows for filling without splash
- Available with optional lid
- Cut-out for access to 3/4" inch drum opening for filler gauge
- 6" Deep Wall Funnel
- Prevents splashing when pouring



	Drum Funnel	Drum Funnel with Hinged Cover
Capacity [gal]	6	6
External Dimensions Dia x H (in)	23.7 x 5.5	29 x 9.5
Shipping Weight	5	17
Order number	K22-0132-U2	K22-0137-U2

Hazardous Material Handling

FALCON Draining Funnel

This new funnel in the FALCON product family combines many advantages of a typical drum funnel with the function of "draining". While the front area of the funnel is intended for pouring residual liquids from jugs, canisters, bottles, or similar, the rear area is used for "dripping". The clear ribbing of the funnel integrated here serves as a storage surface, for example for paint cans, oil filters, and other containers that still contain residual amounts of a liquid.

- The inclined surfaces of the drip funnel ensure that even relatively viscous media flow off reliably
- For collecting residual liquids in a 200-liter drum / 55-gal drum
- Seamlessly manufactured from chemically resistant polyethylene (PE)
- Covers the entire surface of the drum



Capacity [gal]	6
External Dimensions Dia x H (in)	27.7 x 4.9
Order number	K22-0162-U2



FALCON Funnel - Model M

- For safely collecting and channeling hazardous liquids
- Chemical resistant polyethylene (PE)
- Funnel for use with a conventional IBC
- Domed base - liquids run off

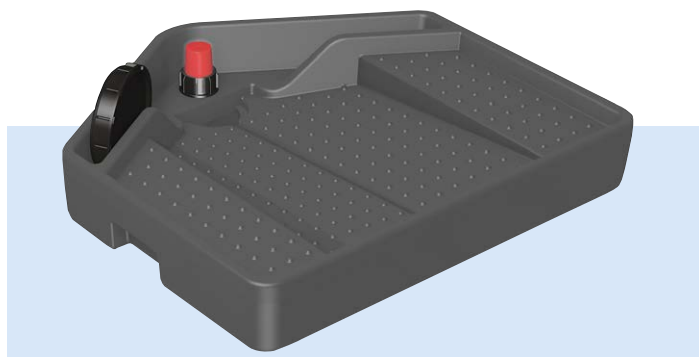


Capacity [gal]	8
External Dimensions W x D x H (in)	27.2 x 32.3 x 7.9
Shipping Weight	15.0
Order number	K22-0163-U2



FALCON Funnel - Model XL

- Funnel for use with a conventional IBC
- Domed base - liquids runoff
- Chemical resistant polyethylene (PE)
- Storage pocket for IBC locking lid
- Discharge basin with side storage areas
- Large drain opening (6 inches) with integral 2" connection for optional level indicator



Capacity [gal]	4
External Dimensions W x D x H (in)	31.1 x 28.7 x 7
Shipping Weight	18.0
Order number	K22-0157-U2

The funnel showed here comes with an optional level indicator (Order-no. K22-0159)

FALCON Funnel "Full Size"

These extra-large funnels cover the entire surface of a 275 - 330 gals IBC. This means you have plenty of space to quickly and bottles, or even filters into your existing IBC totes.

- Funnel for use with a conventional IBC
- Domed base - liquids runoff
- Durable construction made of highly resistant polyethylene
- Is simply placed on top of the IBC, a firm connection can be made by using the accessory kit 283-438
- Large collection volume for fast emptying operations

■ With a large central hole through which the liquids flow into the IBC flow
Optional coarse protection strainer available in the drain.

A large area funnel covers the entire surface of a 275-330 gallon IBC totes.



With integrated ribbing at the bottom of the funnel, so that residual liquid from containers or oil filters etc. can drain off its double.



The optionally available lid can be attached to conveniently attached to IBC when not in use or on the sidewall of the funnel (In connection with the fastening set K22-0168) when not in use.



Hazardous Material Handling

Description	Order number
Cover	K22-0165-U2
Perforated Plate Support	K22-0166-U2
Coars Dirt Sieve	K22-0172-U2
Set: Lower Level Filling	K22-0171-U2
Mounting Set: Funnel to IBC	K22-0168-U2
Set Lock	K22-0167-U2

Sample Spoons - disposable

These disposable spoons made of polystyrene are produced in our cleanroom of class 7 (10,000) and individually packaged for disposable use.

- Ideal for sampling powders, granulates, and fluids
- Available in two sizes, 0.08 or 0.34 oz.
- Choose between Standard-, Sterilized version or complied to FDA Food regulations



Version	Standard		Sterilized		For Foodstuffs, Complies with FDA regulations	
Color	White				Blue	
Exterior Length (in)	5.00	6.69	5.00	6.69	5.00	6.69
Capacity [oz]	0.08	0.34	0.08	0.34	0.08	0.34
Quantity per Pack	100 pcs/Pack	100 pcs/Pack	100 pcs/Pack	100 pcs/Pack	100 pcs/Pack	100 pcs/Pack
Order number	M77-0175-U2	M77-0176-U2	M77-0195-U2	M77-0196-U2	M77-0210-U2	M77-0211-U2



Spatula - disposable

These double Scoop Spatula with rounded ends can be used to sample, transfer or process small amounts of chemicals, powders, granulates, pastes, creams or liquids. The sturdy and convenient center handle facilitates precise work. Cleanroom manufactured, available either in a large package with 100 pieces or 100 pieces packaged individually and sterilized by gamma rays.

- Made of high Quality Polysterol (PS)
- Production, assembly, and packaging according to cleanroom class 7
- Complies with FDA regulations
- Optionally sterilized by gamma rays

Version	Spoon Spatulas	Micro-Spatulas	Spoon Spatulas	Micro-Spatulas
Model	Large package		Sterilized, packaged individually	
Capacity [oz]	0.02	0.03	0.02	0.03
Exterior Length (in)	7.01	7.09	7.01	7.09
Quantity per Pack	100 pcs/Pack	100 pcs/Pack	100 pcs/Pack	100 pcs/Pack
Order number	M77-0183-U2	M77-0184-U2	M77-0203-U2	M77-0204-U2



Spatulas, delivered in large packages with 100 pieces



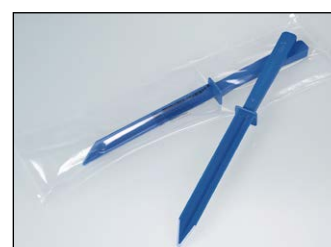
Micro-Spatula, double Scoop Spatula with rounded ends

Sample Spatula - disposable

As a result of the long, ergonomically shaped, stable handle and a sharp blade, it is possible to even penetrate directly into containers such as paper or plastic sacks. The disposable spatula is ideal for sampling powders, granulates, and pastes.

- Made of polystyrene and produced and assembled in our cleanroom of class 7 (10,000)
- Individually packaged for disposable use
- Complies with FDA regulations
- The Spatula with a transparent sleeve can be closed again immediately after sampling and the exclusion of contamination can be safeguarded for the sample taken

Version	Standard	Sterilized	For Foodstuffs, Complies with FDA regulations
Post Color	White	White	Blue
Exterior Length (in)	10.35	10.35	10.35
Insertion Depth [in]	5.91	5.91	5.91
Quantity per Pack	10 pcs/Pack	10 pcs/Pack	10 pcs/Pack
Order number without sleeve	M77-0173-U2	M77-0193-U2	M77-0209-U2
Order number with sleeve	M77-0174-U2	M77-0194-U2	—



Scrapers - disposable

These Scrapers, made of polystyrene, are produced in our class 7 clean room (10,000) and individually packaged for disposable use.

- Suitable for scraping off, smoothing, or cleaning as well as removing residue
- Sturdy and convenient scraper for disposable use
- Choose between the standard version (individually packaged) or the additional sterilized version



Scoops - disposable

These Disposable Scoops are made of polystyrene. The Scoops are ideal for powders, granulates, and pastes. The scoops with transparent cover can be closed immediately after sampling and the exclusion of contamination can therefore be safeguarded. The scoops stand horizontally because of the special handle design and the slightly angled front edge and can therefore be put down without the sample material trickling out.



Products like Samplers, Draining Racks, and Laboratory Equipment etc.

See page
202



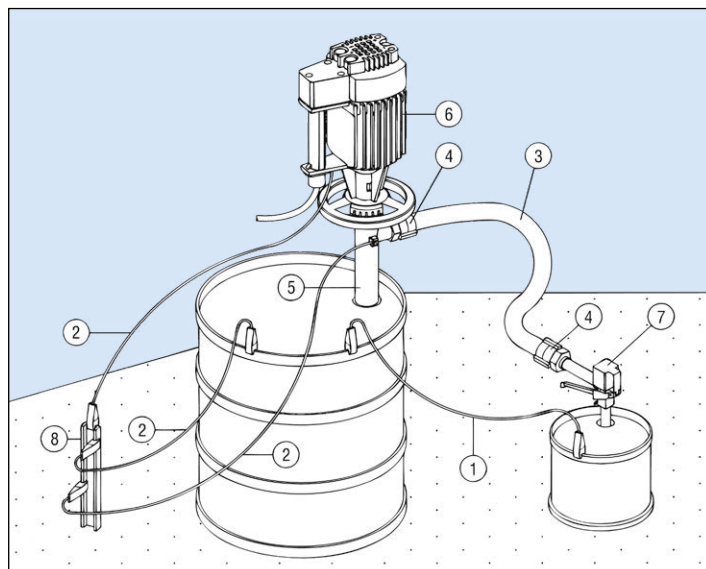
Version	Standard - Single use						Sterilized - Single use					
Capacity [oz]	1.69	3.38	5.07	8.45	16.91	33.81	1.69	3.38	5.07	8.45	16.91	33.81
Exterior Depth (in)	6.34	8.11	8.58	9.25	11.14	13.07	6.34	8.11	8.58	9.25	11.14	13.07
Quantity per Pack	10 pcs/Pack											
Order number without cover	M77-0167-U2	M77-0169-U2	M77-0171-U2	M77-0177-U2	M77-0179-U2	M77-0181-U2	M77-0187-U2	M77-0189-U2	M77-0191-U2	M77-0197-U2	M77-0199-U2	M77-0201-U2
Order number with cover	M77-0168-U2	M77-0170-U2	M77-0172-U2	M77-0178-U2	M77-0180-U2	—	M77-0188-U2	M77-0190-U2	M77-0192-U2	M77-0198-U2	M77-0200-U2	—

Food Scoops Blue, sterilized

These Food Scoops are made of blue polystyrene. The Food scoops are ideal for powders, granulates, and pastes. The shade of blue that is used does not occur in a natural form in foodstuffs. Because of this, blue products, or parts of them can be quickly found and easily identified in a visual check if they are ever mixed into production.

Version	Foot Scoops - Sterilized						
Capacity [oz]	0.85	1.69	3.38	5.07	8.45	16.91	33.81
Exterior Depth (in)	5.55	6.30	8.07	8.50	9.14	11.02	13.07
Quantity per Pack	10 pcs/Pack						
Order number	M77-0205-U2	M77-0206-U2	M77-0207-U2	M77-0208-U2	M77-0212-U2	M77-0213-U2	M77-0214-U2



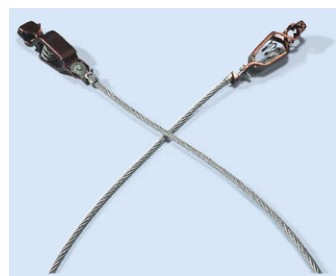


Hose Connector needs to be conductive!

- ① Bonding cable between containers
- ② Grounding cable from pump motor, hose, and drum to building
- ③ Always use an approved conductive hose
- ④ Use conductive hose fittings and hose connectors
- ⑤ Use a metal (conductive) pump tube
- ⑥ Use a motor approved for explosive environments
- ⑦ Use a stainless nozzle approved for Explosive Environments (auto-release / shut-off)
- ⑧ Provide a compliant grounding rod

Bonding & Grounding Cables

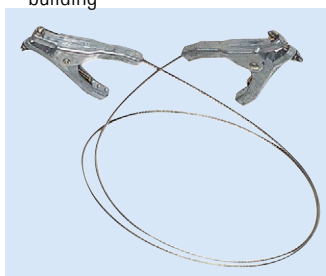
Eliminate Hazardous Sparks from Static Build-Up when pumping or dispensing Flammable Liquids



3' L Bonding Wire with Alligator Clips on both ends
Order no. M32-0011-U2



3' L Bonding Cable with C-Clamp and Alligator Clip
Order no. M32-0013-U2



3' L Bonding Wire with Hand Clamps on both ends
Order no. M32-0068-U2



3L Bonding Wire with Hand Clamp and 1/4" Terminal Connector
Order no. M32-0069-U2

Retracting Grounding / Bonding Cable Coils and Reels

- Corrosion-resistant vinyl coating protects cable wire
- Retractability keeps cables out of the way when not in use
- FM approved Hand Clamps for a secure hold



Coiling Cables with Hand Clamp

5-Foot length, Order no. M32-0072-U2
10-Foot length, Order no. M32-0075-U2
10-Foot length with 2 hand clamps, Order no. M32-0076-U2



Retractable Reels with Hand Clamp
20-Foot length, Order no. M32-0081-U2
50-Foot length, Order no. M32-0084-U2

BE CERTAIN! New LED Grounding Clamps and Wall-Mounted Grounding Monitors assure you're properly grounded through flashing indicator lights

Think you've done everything to ground the drum you're dispensing from? Think again- built-up corrosion or paint on the container could prevent you from being properly grounded. You need to be certain.

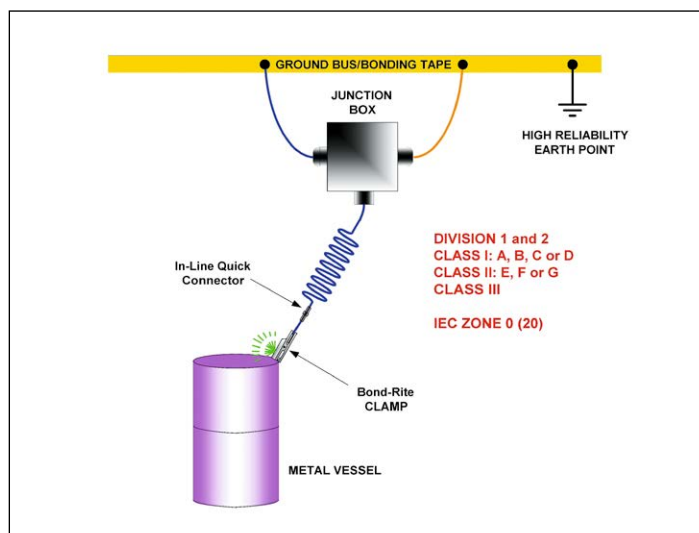
New LED Grounding Clamps and Wall-Mounted Grounding Monitors feature a flashing green indicator light to assure personnel their connection is properly grounded. Both the lamp and Wall-Mounted LED indicators are operated by a 9-volt battery. With the Clamp, the LED system is housed in the actual clamp. The Wall-Mount Monitor features an easy-to-install remote housing for the system.

Use the Clamp in clean settings and non-abusive areas, where dust or paint won't hinder the visibility of the indicator and rough handling won't damage the clamp's electronic components. The Wall-Mount Monitor is designed for industrial settings, where the monitor housing the sensitive components can be placed away from any airborne contaminants or normal factory-related abuse.

LED Grounding Clamp / Cables



Order no. M32-0090-U2



Installation of LED Grounding Clamp / Cables



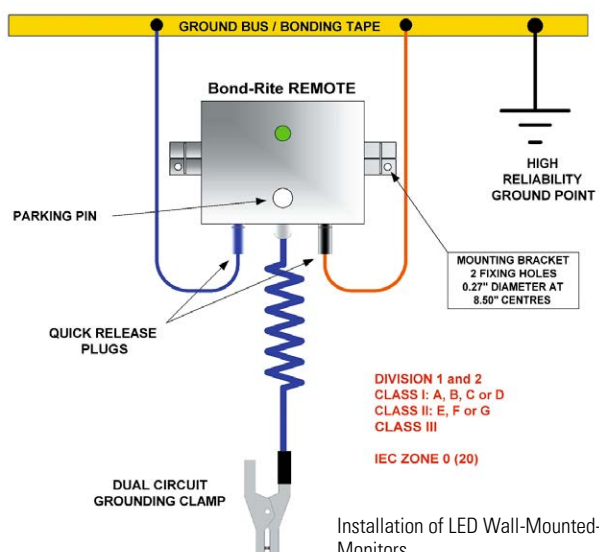
Both the LED Grounding Clamps and Wall-Mounted Grounding Monitors are portable and easy to install.

LED Wall-Mounted Grounding Monitors

- The Monitor with 16 ft cable and 2-point clamp are great for containers, drums, and totes. Its 55-pound spring compression together with stainless steel points assure very good contact with bare metal. Also available with a 3-point clamp, designed for grounding road tankers, railcars, and other large vessels.



LED Wall-Mounted Grounding Monitors - 2-point clamp
Order no.



Installation of LED Wall-Mounted-Grounding Monitors

Resistance Table for the Selection of Electric Drum Pumps

The following 5 variants of Pumps are available as ready-to-use sets. Or create your own Pump while using the single components.

See page
187



Drum Pump Set 1 (PP/SS)

Acids and Bases

See page
183



Drum Pump Set 2 (PVDF)

Concentrated Acids and Base Solutions

See page
184



Drum Pump Set 3 (ALU)

Mineral oils, Lubricants

See page
181



Drum Pump Set 4 (SS)

**Ex proof
Flammable liquids like Acetone,
Petroleum, Isopropanol, Kerosene**

See page
185



Drum Pump Set 5

**Foods, Pharmaceuticals,
Flavors, Colorants**

See page
186

Liquid examples	Set 1	Set 2	Set 3	Set 4	Set 5
Acetic acid *	•	•		•	•
Ammonia water		•			
Antifreeze	•	•	•		
Antioxidants					•
Battery acid	•	•			
Bleach (sodium hypochlorite)		•			
Boric acid	•	•			
Butanol / (butyl alcohol)				•	•
Calcium chloride	•	•			
Chlorine / chlorine water		•			
Cleaner Solvent					•
Colorants					•
Detergent					•
Diesel		•	•	•	
Ethanol (ethyl alcohol)				•	•
Ethyl acetate				•	•
Ferric chloride**	•	•			
Flavor					•
Foaming agent	•	•	•		
Food additives					•
Formaldehyde (formalin)		•			
Formic acid *	•	•		•	•
Gasoline (unleaded / super)				•	
Glycol (ethylene glycol)	•	•	•	•	
Heating oil		•	•	•	
Hydrochloric acid	•	•			
Kerosene				•	
Lactic acid		•			
Lubricants (cooling)		•	•	•	
Mineral oils		•	•	•	
Methanol (methyl alcohol)				•	•
Methylene glycol				•	
Nitric acid		•			
Nitro thinner				•	
Perchloroethylene		•			
Petroleum / Kerosene				•	
Phosphoric acid **	•	•			
Photo developer	•	•		•	
Potassium permanganate		•			
Propanol (propyl alcohol)				•	•
Seawater	•	•			
Silicone oil			•		
Sodium chloride	•	•			
Sodium hydroxide (sodium hydroxide) **	•				
Sodium hypochlorite		•			
Stabilizers					•
Sulfuric acid		•			
Turpentine				•	•
Water (dist. / Dem. Water)	•			•	•
Please find more details on catalog page:	183	184	181	185	186


* Depending on the concentration of acid, an explosion-proof version (Set 4) could be required!

** Depending on the concentration of the acid, a version with increased motor power (set 2 and 3) could be required!

Haven't found your liquid? Please call DENIOS for more information.

High Volume Oil and Diesel Fuel Pump Sets - use with Drums and IBC Totes

- Used with nearly all kinds of thin-bodied oils and diesel fuel
- Lube-free pump tube, thus no contamination of the liquid
- Sealing modules of the seal-less pump is replaceable
- Comes with high resistant PVC Hose (8 ft), hose clamps, aluminum dispensing nozzle, drum adaptor and wall hanger



Consisting of: Motor B36 with 16 ft cord or MD2xL air motor, pump tube ALU 39" / 47" / 55" seal-less, high head impeller, 316 stainless steel shaft, PP Drum Adaptor, 1" aluminum Nozzle with swivel, 8 ft PVC Hose, Hose Clamps, Wall Hanger



	Electric			Air-Powered		
Suitable for	Hydraulic oil, machinery oil, motor oil, diesel, fuel oil					
Drive Type	120 V, 0.85 HP, ODP			1.36 HP, 87 PSI, 53 CFM		
Immersion Depth [in]	39	47	55	39	47	55
Shaft Material	ALU	ALU	ALU	ALU	ALU	ALU
Maximum Flow Rate [gpm]	15.9	15.9	15.9	15.9	15.9	15.9
Maximum Density [g/mL]	1.4	1.4	1.4	2.8	2.8	2.8
Maximum Viscosity [cps]	760	760	760	1,000	1,000	1,000
Order number	M51-0770-U2	M51-0775-U2	M51-0771-U2	M51-0777-U2	M51-0776-U2	M51-0772-U2

Flow Meter

- Oval Gear Flow Meter - for efficient flow measurement of mineral oils and alternative fuels
- Precision metering tells you exactly how much you're transferring
- Easy handling, compact design
- Quick and easy assembly onto the pump



Order no.



Chemical Pump Sets

- Use with low-viscosity acids, alkalis, and chemicals
- Lightweight & compact design provides easy handling
- Automatic switch-off at overload
- Battery with modern Li-ion technology (please order separately)
- Stepless control, wear-free, low-noise BLDC motor
- Comes a with resistant PVC hose (8 ft) and nozzle
- Choose between Pump Tubes with an Immersion Depth of 39, 47 or 55"



Accessories	Order number
Battery 10.8 V	M51-0501-U2
Battery Charger for 10.8 V batteries	M51-0500-U2
Drum Adapter 2", PP	M51-0752-U2
Drum Adapter 2", SS	M51-0751-U2

Suitable for	Battery Acid, Ammonia Water, Photographic Developer/-Fixer, Glycols, Phosphoric Acids, Hydrochloric Acid, Hydrogen Peroxide		
Immersion Depth [in]	19	27	39
Material Outer Tube	Polypropylene (PP)	Polypropylene (PP)	Polypropylene (PP)
Maximum Density [g/mL]	1.3	1.3	1.3
Maximum Flow Rate [gpm]	5.3	5.3	5.3
Maximum Viscosity [cps]	200	200	200
Order number	M51-0702-U2	M51-0701-U2	M51-0700-U2



Powerful Pump Sets

- Particularly high performance delivers up to 650 gals with one battery charge
- Lightweight & compact design provides easy handling
- Automatic switch-off at overload
- Battery with modern Li-ion technology (please order separately)
- Stepless control, wear-free, low-noise BLDC motor
- Comes with resistant PVC-hose (8 ft) and nozzle
- Choose between pump tubes with an immersion depth of 39, 47 or 55"



Accessories	Order number
Battery 21.6 V	M51-0503-U2
Battery Charger	M51-0502-U2
Drum Adapter 2", PP	M51-0752-U2
Drum Adapter 2", SS	M51-0751-U2

Suitable for	Battery Acid, Ammonia Water, Photo Developer / Fixer, Glycols, Phosphoric Acid, Hydrochloric Acid and Hydrogen Peroxide			Oil-based Lubricants, Cold Cleaners and Plasticizers			e.g. Sodium Hypochlorite, Chlorine, Chromium, Sulfuric, Nitric, and Hydrofluoric Acid		
Immersion Depth [in]	19	27	39	19	27	39	19	27	39
Material Outer Tube	Polypropylene (PP)			Stainless Steel (SS)			PVDF		
Maximum Density [g/mL]	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Maximum Flow Rate [gpm]	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Maximum Viscosity [cps]	400	400	400	400	400	400	400	400	400
Order number	M51-0805-U2	M51-0804-U2	M51-0803-U2	M51-0808-U2	M51-0807-U2	M51-0806-U2	M51-0802-U2	M51-0801-U2	M51-0800-U2

Chemical Pump Sets - use with Small Containers and Drums up to 55 gallons

- An ideal pump for use with low-viscosity acids, alkalis, and chemicals
- Perfect for a variety of applications in laboratories, hospitals, commercial and light facilities
- Safe filling from/in smaller containers and 55-gallon drums (drum adapter available as an accessory)
- Lightweight & easy to use
- Sealless and without any Lubricant
- Motor 230 V / 200 W with cable (10 ft) and plug
- Comes with hose (8 ft), hose clamps, nozzle, drum adapter, and wall hanger
- Choose between Pump Tubes made of PP, PVDF, or Stainless Steel (SS) with an immersion depth of 19, 27, or 39"



Hazardous Material Handling

i Consisting of: Motor B2-Vario with 16 ft cord, pump tube 39" / 47" / 55" sealless, high head impeller, Hastelloy C shaft, 1"-PP Nozzle with swivel, 8 ft PVC or Chemical Hose, Hose Clamps, Wall Hanger

Suitable for	Salt, Battery, Formic Acid (50%), Developer, Chloric Acid			Oil-based Lubricants, Cold Cleaners and Plasticizers			Sodium Hypochlorite, Chlorine, Chromium, Sulfuric, Nitric and Hydrofluoric Acid		
Immersion Depth [in]	19	27	39	19	27	39	19	27	39
Material Outer Tube	Polypropylene (PP)			Stainless Steel (SS)			PVDF		
Included in Delivery	PVC Hose 8 ft						Chemical Hose 8 ft		
Maximum Density [g/mL]	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Maximum Flow Rate [gpm]	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Maximum Viscosity [cps]	300	300	300	300	300	300	300	300	300
Order number	M51-0711-U2	M51-0710-U2	M51-0715-U2	M51-0728-U2	M51-0727-U2	M51-0726-U2	M51-0418-U2	M51-0417-U2	M51-0416-U2

Flow Meter

- Precision metering tells you exactly how much you're transferring
- Precise measurement - Quick, easy, and precise
- Chemical resistance against corrosive and aggressive liquids
- Easy calibration
- Proven radial turbine technology
- Totalizer function
- Lightweight, compact design with rotatable (90°) display
- For use up to max. 10 bar
- With connectible backlighting
- Comes together with two replaceable 1.5V batteries (Type AAA)



Flow Meter PP
Order no. M51-0913-U2



Chemical Pump Sets - use with Drums and IBC Totes

Choose a high-volume Acid / Base Pump for general use or one designed for highly corrosive, concentrated acids or caustics. Both styles are build for long-life use in harsh industrial environments.

- Powerful pump for use with acids and bases solutions
- Perfect for industrial use and laboratories if you work with larger quantities
- Sealless and without any lubricant
- Comes with high resistant PVC hose (8 ft), hose clamps, nozzle, drum adapter, and wall hanger
- Choose between an electric or air driven motor and an immersion depth of 39, 47, or 55"



Consisting of: Motor B36 with 16 ft cord or MD2xL air motor, pump tube PP 39" / 47" / 55" sealless, high head impeller, Hastelloy C shaft, PP Drum Adaptor, 3/4" PP Nozzle, 8 ft PVC Hose, Hose Clamps, Wall Hanger

Model	Electric			Air-Powered		
Suitable for	Sodium Chloride, Kalihydrate, Ammonia Solution, Formic Acid and Acetic Acid, Hydrochloric Acid, Battery Acid, Ferric (III) Chloride, Phosphoric Acid, Chromic Acid, and Citric Acid					
Immersion Depth [in]	39	47	55	39	47	55
Motor	120 V, 0.85 HP, ODP			1.36 HP, 87 PSI, 53 CFM		
Material Outer Tube	Polypropylene (PP)					
Maximum Density [g/mL]	1.4	1.4	1.4	2.8	2.8	2.8
Maximum Flow Rate [gpm]	13.2	13.2	13.2	13.2	13.2	13.2
Maximum Viscosity [cps]	760	760	760	1,000	1,000	1,000
Order number	M51-0750-U2	M51-0755-U2	M51-0757-U2	M51-0754-U2	M51-0756-U2	M51-0758-U2
Accessories	Flow Meter PP					
Order number	M51-0913-U2	M51-0913-U2	M51-0913-U2	M51-0913-U2	M51-0913-U2	M51-0913-U2



Highly Corrosive Pump Sets - use with Drums and IBC Containers

Choose a high-volume acid/base pump for general use or one designed for highly corrosive, concentrated acids or caustics. Both styles are build for long-life use in harsh industrial environments.

- Powerful pump for use with highly corrosive acid and base solutions
- Sealless and without any lubricant
- Comes with hose (8 ft), hose clamps, nozzle, drum adapter, and wall hanger
- Choose between an electric or air driven motor and an immersion depth of 39, 47, or 55"



Consisting of: Motor B55T-5 with 16 ft cord or MD2xL air motor, pump tube PVDF 39" / 47" / 55" sealless, high head impeller, Hastelloy C shaft, PP Drum Adaptor, 1"- PVDF Nozzle with swivel, 8 ft Chemical Hose, Hose Clamps, Wall Hanger

Model	Electric			Air-Powered		
Suitable for	Chloric Acid, Chromic Acid, Sulphuric Acid, Nitric Acid, Hydrofluoric Acid and Sodium Hypochlorite					
Immersion Depth [in]	39	47	55	39	47	55
Motor	120 V, 0.68 HP, TEFC			1.36 HP, 87 PSI, 53 CFM		
Maximum Density [g/mL]	1.6	1.6	1.6	2.8	2.8	2.8
Material Outer Tube	PVDF	PVDF	PVDF	PVDF	PVDF	PVDF
Maximum Flow Rate [gpm]	13.2	13.2	13.2	13.2	13.2	13.2
Maximum Viscosity [cps]	760	760	760	1,000	1,000	1,000
Order number	M51-0760-U2	M51-0765-U2	M51-0773-U2	M51-0761-U2	M51-0762-U2	M51-0774-U2
Accessories	Flow Meter PVDF					
Order number	M51-0914-U2	M51-0914-U2	M51-0914-U2	M51-0914-U2	M51-0914-U2	M51-0914-U2

Flow Meter

- Precision metering tells you exactly how much you're transferring



Flow Meter PVDF
Order no. M51-0914-U2
Flow Meter PP
Order no. M51-0913-U2

Explosion-Proof Pump-Sets - Class I Groups C&D and Class II Groups F&G Approved

High-Quality Pump Sets - choose from either electric or air driven motors for use with flammables liquids or in explosion-rated areas or Hazardous Areas. Both styles are build for safe and long-life use in harsh industrial environments.

- Use for dispensing from or filling of flammable liquids
- Explosion-proof pump sets - use with Drums and IBC Totes
- Comes with a conductive hose (8 ft), hose clamps, ground & bonding wire, stainless steel dispensing nozzle, drum adaptor, and wall hanger
- Choose between an electric or air driven motor and a stainless steel pump tube with an immersion depth of 39, 47, or 55"



Consisting of:

Motor ME I 6 EX, Class I Group C&D, Class II Groups F&G (Explosion Proof) with 16 ft cord or MD2xL air motor, speed controlled, pump tube SS 39" / 47" / 55" sealless, high head impeller 2" PP Drum Adaptor, 1" SS Nozzle with swivel, 8 ft. Conductive Chemical hose with Conductive Fittings, Ground & Bonding wires, Wall Hanger

Model	Electric			Air-Powered		
Suitable for	Ethanol, Gasoline, Butanol, Isopropanol, Kerosene, Methanol and Petroleum, Acetone, Conc. Formic Acid, Ethyl					
Immersion Depth [in]	39	47	55	39	47	55
Drive Type	120 V, 0.5 HP, TEFC			1.36 HP, 87 PSI, 53 CFM		
Material Outer Tube	Stainless Steel (SS)					
Maximum Density [g/mL]	1.6	1.6	1.6	2.8	2.8	2.8
Maximum Flow Rate [gpm]	13.2	13.2	13.2	13.2	13.2	13.2
Maximum Viscosity [cps]	750	750	750	1,000	1,000	1,000
Order number	M51-0780-U2	M51-0785-U2	M51-0796-U2	M51-0790-U2	M51-0795-U2	M51-0797-U2



Hazardous Material Handling

The perfect combination for mixing and pumping emulsions, suspensions, or flammable mixture with solvent or alcohol components

Combining mixing and pumping in one operation means no more switching equipment to complete the job.

- This combined system assures uniform and consistent dispensing of multi-part liquids or liquids comprised of solvents and suspended solids such as paints, inks
- Sealless and without any lubricant
- High Volume Pump Sets for different applications - use with 55-gallon drums
- Available in standard version or explosion-proof for use with flammable liquids
- Accessory sets with high resistant hoses (8 ft), nozzles, and drum adapters are available to finish your system

Suitable for	General chemical mixtures such as water-based paints	Food or Pharmaceutica applications	Flammable mixtures with solvent or alcohol components
Immersion Depth [in]	39	39	39
Drive Type	120 V, 0.85 HP, ODP		120 V, 0.68 HP, TEFC
Maximum Viscosity [cps]	500	100	100
Maximum Density [g/mL]	2.0	1.5	1.5
Maximum Flow Rate [gpm]	23	51	47
Shaft Material	Polypropylene (PP)	Stainless Steel (SS)	Stainless Steel (SS)
Order number	M51-0645-U2	M51-0650-U2	M51-0657-U2
Accessories	Drum Adapter, Nozzle & 8 ft Hose Set - Highly Resistant PP	Drum Adapter, Nozzle & 8 ft Hose Set - Highly Resistant Stainless Steel	Drum Adapter, Nozzle & 8 ft Hose Set - Highly Resistant Stainless Steel - EX
Order number	M51-0483-U2	M51-0481-U2	M51-0482-U2



Two in One - Pumps with Mixers

High-Quality Pumps meeting FDA and A3 requirements - for Drums and IBC Containers

Pumps in contact with food products are "food contact materials" and are thus subject to strict legal regulations. These products are conformed with the FDA Approval. A versatile and variable drum pump ideal for corrosive and neutral, aqueous to slightly viscous fluids in the production and processing of food products.



Pump sets consisting of: Electric or air-driven motor, 8 ft. Food Grade Hose 1", conductive, Tri-clamp conductive connections, 39" / 47" / 55", high-head ETFE impeller, 2" SS drum adapter, SS Nozzle / EPDM seal, with swivel, Wall hanger, Ground & Bonding wires

- Physiologically safe version
- Materials: Stainless Steel, ETFE, EPDM, and FPM
- Constructed of long-lasting, high-quality materials
- Tri-Clamp connection for fast and easy cleaning
- Choose between standard or explosion-proof units, and electric or air-driven motors and pump tubes standard or for complete drainage.



Model	Electric			Air-Powered			Electric XP			Air-Powered XP		
Suitable for	Food products, additives, flavors, colorants, stabilizers, antioxidants, detergents						Alcohol-based food products as well flammable detergents					
Immersion Depth [in]	39	47	55	39	47	55	39	47	55	39	47	55
Motor	120 V, 0.68 HP, TEFC			1.36 HP, 87 PSI, 53 CFM			120 V, 0.68 HP, TEFC			1.36 HP, 87 PSI, 53 CFM		
Material Outer Tube	Stainless Steel (SS)											
Maximum Density [g/mL]	1.6	1.6	1.6	2.8	2.8	2.8	1.6	1.6	1.6	2.8	2.8	2.8
Maximum Flow Rate [gpm]	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
Maximum Viscosity [cps]	1,000	1,000	1,000	1,000	1,000	1,000	750	750	750	1,000	1,000	1,000
Order number	M51-0923-U2	M51-0922-U2	M51-0921-U2	M51-0934-U2	M51-0933-U2	M51-0932-U2	M51-0929-U2	M51-0928-U2	M51-0927-U2	M51-0937-U2	M51-0936-U2	M51-0935-U2

Pump-Motors and Tubes

- Create your own Pump while using this standard Set with Motor and Pump Tube
- Comes together with a potential bonding cable, without hose, nozzle and drum adapter
- Available with optional complete drainage function



Model	Electric Pump	Electric Pump - Complete Drainage	Electric XP	Electric XP - Complete Drainage
Suitable for	Food products, additives, flavor, colorants, stabilizers, antioxidants, detergent		Alcohol-based food products as well flammable detergents	
Immersion Depth [in]	39	39	39	39
Motor	120 V, 0.68 HP, TEFC		120 V, 0.5 HP, TEFC	
Material Outer Tube	Stainless Steel (SS)			
Maximum Density [g/mL]	1.6	1.6	1.6	1.6
Maximum Flow Rate [gpm]	27.0	18.5	27.0	18.5
Maximum Viscosity [cps]	350	500	350	500
Order number	M51-0926-U2	M51-0925-U2	M51-0931-U2	M51-0930-U2
8 ft Food Grade Hose1/4" with EPDM Sealings				
Order number	M51-0941-U2	M51-0941-U2	M51-0942-U2	M51-0942-U2
Stainless Steel Nozzle with Hoop Guard, Swivel and Sealings				
Order number	M51-0939-U2	M51-0939-U2	M51-0938-U2	M51-0938-U2

Individual Components & Accessories for Pumps

Whether you want to design your own pump, need a replacement part for an existing pump, or want to add accessories to maximize functionality, we've got you covered. DENIOS offers a complete selection of parts and accessories to keep you pumping.

Motors



Model	B 28	B 36-SC	B55-T5	B 55-T7	4 GT	ME I 6	MD 2 xL
Suitable for	Ordinary Locations				Hazardous Areas, C1D2		
Power [W]	800	640	510	700	220	460	1,000
Horsepower	1.07 HP	0.85HP	0.68 HP	0.93 HP	0.3 HP	0.5 HP	1.36 HP
Version	Electric, Open Drip Proof (ODP)	Electric, Open Drip Proof (ODP), Variable Speed Control	Electric, Total enclosed, Fancooled (TEF)	Electric, Total enclosed, Fancooled (TEF)	Compressed Air	Electric, Variable Speed Control,	Compressed Air
Voltage	120 V / 60 Hz	120 V / 60 Hz	120 V / 60 Hz	120 V / 50 Hz	Air 14 CFM, 87 PSI	120 V / 60 Hz	Air 14 CFM, 87 PSI
Included in delivery	16' cord with plug	—	16' cord with plug	16' cord with plug	—	16' Cord with plug	—
Order number	M51-0830-U2	M51-0829-U2	M51-0827-U2	M51-0826-U2	M51-0825-U2	M51-0828-U2	M51-0831-U2

Pump Tubes



Compatibility *	Pumping										Pumping with Complete Drainage				Pumping and Mixing							
Material Outer Tube	PP		PVDF		ALU		SS		HC		PP		SS		PP		SS					
Mounting	non Ex-Zone										Zone 0 allowed				non Ex-Zone		Zone 0 allowed		non Ex-Zone		Zone 0 allowed	
Immersion Depth [in]	39	47	39	47	39	47	39	47	39	47	39	47	39	47	39	47	39	47				
Shaft Size Diameter [in]	41	41	41	41	41	41	41	41	42	42	41	41	41	41	41	41	41	41				
Primary Thermostat	122°F	122°F	212°F	212°F	212°F	212°F	212°F	212°F	248°F	248°F	122°F	122°F	212°F	212°F	122°F	122°F	212°F	212°F				
Order number Rotor	M51-0973-U2	M51-0972-U2	M51-0969-U2	M51-0968-U2	M51-0965-U2	M51-0964-U2	M51-0961-U2	M51-0960-U2	M51-0953-U2	M51-0952-U2	—	—	—	—	—	—	M51-0955-U2	M51-0954-U2				
Order number Impeller	M51-0971-U2	M51-0970-U2	M51-0967-U2	M51-0966-U2	M51-0963-U2	M51-0962-U2	M51-0959-U2	M51-0958-U2	M51-0951-U2	M51-0950-U2	M51-0977-U2	M51-0976-U2	M51-0957-U2	M51-0956-U2	M51-0975-U2	M51-0974-U2	—	—				

*See the chart below for additional information

Flow Meter

- Precision metering tells you exactly how much you're transferring
- Easy handling, compact design
- Quick and easy assembly onto the pump
- Proven radial turbine technology
- Totalizer function
- With connectible backlighting



Order no. M51-0940-U2

Rotor or Impeller - select your optimal Pump Tube

Impeller - Radial-flow	Rotor - Axial-flow
Decreasing the flow rate the limiting values of density and viscosity increase	Emptying big containers, pumping high flow rates
Heavy and viscous liquids	Light and thin-bodied liquids
Pressure drops due to valves, fittings, and flow meter low-pressure drops	Low pressure drops
Small flow rate (max. 27 GPM)	Large flow rate (max. capacity 60 GPM)
A small decrease of the flow rate at increasing operating pressure	Noticeable decrease of the flow rate at increasing operating pressure



Chemical Compatibility of pump tubes — please call if you don't see your chemical listed here.
Polypropylene PP: aluminum sulfate, calcium hydroxide, citric acid, ferric chloride, hydrochloric acid, hydrogen peroxide, polymers, potassium permanganate, soda ash, sodium bisulfate, sodium hydroxide

PVDF:

aluminum sulfate, bleach, calcium hydroxide, citric acid, ferric chloride, hydrochloric acid, hydrofluosilicic acid, hydrogen peroxide, polymers, potassium permanganate, soda ash, sodium hypochlorite, sodium bisulfate, sodium hydroxide, sulfuric acid

Aluminum:

non-flammable, thin-bodied oils, and lubricants

Stainless Steel SS:

methanol and many flammable liquids

Dispensing Nozzles

Use optional dispensing nozzles to stop flow momentarily without having to shut off your pump.

- Seal Material: FPM



Version	hose line 3/4"	male thread 1 1/4" BSP with swivel	hose barb 3/4"	hose barb 1"	hose barb 3/4" with swivel	hose barb 1" with swivel	male thread 1 1/4" BSP with swivel	hose barb 3/4"	hose barb 1"	hose barb 3/4" with swivel	hose barb 1" with swivel	male thread 1 1/4" BSP with swivel	hose barb 3/4" with swivel	hose barb 1" with swivel	hose barb 1 1/4" with swivel
Material	PP							PVDF				SS			
Suitable for	Neutral and Aggressive Liquids												Food and Pharmaceuticals		
Size	Outlet Spout 0.47" diameter, conical						Outlet Spout 0.9" diameter, cylindrical								
Operating Pressure	14.5 psi at 68°F							43.5 psi at 68°F							
Maximum Viscosity [cps]	300	760	760	760	760	760	760	760	760	760	760	760	760	760	760
Maximum Flow Rate [gpm]	10.5	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
Max. Temp Setting	122 °F	122 °F	122 °F	122 °F	122 °F	122 °F	176 °F	176 °F	176 °F	176 °F	176 °F	176 °F	176 °F	176 °F	176 °F
Order number	M51-0824-U2	M51-0819-U2	M51-0818-U2	M51-0817-U2	M51-0816-U2	M51-0815-U2	M51-0814-U2	M51-0813-U2	M51-0812-U2	M51-0811-U2	M51-0810-U2	M51-0823-U2	M51-0822-U2	M51-0821-U2	M51-0820-U2

Optional Accessory

Flow Meter

- Precision metering tells you exactly how much you're transferring
- High precision through overrun correction and characteristic adjustment
- Touch screen display with simple plain-text operation
- Safety and monitoring functions plus integrated help function
- Batch control functionality
- Comes with a durable lithium battery
- Plug & play modular design



Material	PPO	PPO	Stainless-Steel
Suitable for	Neutral liquids such as water, heating oil, diesel, and hydraulic fluids	Aggressive acids and caustic solutions such as hydrochloric acid, sulphuric acid, and caustics	Highly flammable and aggressive media such as ether, styrene, xylene, nitric acid, and tetrahydrofuran
Maximum Viscosity [cps]	2,000	2,000	5,000
Version	2" - 1 1/4" BSP	2" - 1 1/4" BSP	1 1/4" BSP
Range of Flow	2.6 - 26.4 gpm	2.6 - 26.4 gpm	2.6 - 26.4 gpm
Order number	M51-0846-U2	M51-0845-U2	M51-0844-U2

Foot Strainer

- For nonflammable liquids
- Suitable for Medium 32 up to 140 °F
- Operating Pressure: max. 87 PSI



Pallet Material	PP	PVDF	Stainless-Steel	SS (B70)
Suitable for	Pump tube: PP dia 1.62"	Pump tube: PVDF & HC dia 1.62"	Pump tube: SS dia 1.62"	Pump tube: B 70-V
Order number	M51-0842-U2	M51-0841-U2	M51-0843-U2	M51-0809-U2

Transparent PVC Hose

- For nonflammable liquids
- Suitable for Medium 32 up to 140 °F
- Operating Pressure: max. 87 PSI



	Hose Clamps 1"	Hose Clamps 3/4"	Hose Clamps 1 1/2"
External Dimensions W x D x H (in)	—	—	—
Total Load Capacity [lbs]	—	—	—
Shipping Weight [lbs]	1	1	1
Order number	M51-0837-U2	M51-0836-U2	M51-0835-U2

Air Pump for Acids and Corrosives

- All 316 stainless steel construction is great for pumping acids and corrosives
- Pumps 720 gallons per hour using a 1/2 horsepower, 6000 RPM motor
- Pumps are self-priming and self-draining
- Impeller, auger, and spacer made of Teflon, hose is EPDM
- Bung adapter provides a 1/4" air inlet
- Provides a 1 1/16" discharge spout with a 3/4" threaded female adaptor



Air Pump for Acids and Corrosives	
Immersion Depth [in]	39
Maximum Flow Rate [gpm]	12
Tube Material	SS
Shaft Material	SS
Drive Type	27 cfm Air
Order number	M51-0769-U2

Air Powered Oil Transfer Pumps

- Comes ready to use - no lubricators required
- Great for pumping motor oil, gear oil, or transmission fluid
- Comes with a 2" bung adapter
- Choose between a 1:1 pressure ratio between inlet and outlet which pumps 10 gpm or a 3:1 ratio pumping 5.8 gpm



	1:1 ratio	3:1 ratio
Immersion Depth [in]	39	39
Maximum Flow Rate [gpm]	10	6
Tube Material	AL	AL
Shaft Material	AL	AL
Drive Type	12.3 cfm Air	12.3 cfm Air
Order number	M51-0778-U2	M51-0779-U2

HazMat Stations for Drums

See page
92



Use Spill Containment Sumps for your safe storage of hazardous materials

See page
33



Barrel Pumps - Polypropylene (PP)

Barrel pumps made of polypropylene allow a fast transfer of liquids from barrels, canisters, and tanks. The good chemical resistance of PP allows acids, alkalis, and aggressive detergents to be transferred. The low-mounted non-return valve of the barrel pump and the immersion depth that can be steplessly adjusted using the barrel screw joints ensure good removal of residual liquid. The barrel screw joint fastens the barrel's pump securely to the barrel. Barrel screw joints and thread adapters for commercially available containers are available as optional accessories.



- Seals made of PTFE
- Immersion tube Ø 32 mm (1.26 in.)
- Capacity up to approx. 12 l/min (3.17 gpm)
- For barrels and tanks of 30–1000 liters (7.93–264.17 gallons)
- Choose between Barrel Pumps with rigid discharge tube or flexible discharge hose (length 3.94 ft) and stopcock



Barrel Pumps with discharge tube or discharge hose and stopcock

Immersion Depth [in]	19.70	25.59	31.50	39.37	49.21	59.06
Capacity per stroke [oz]	6.76	7.78	8.79	10.14	10.14	10.14
Order number with discharge tube	M77-0031-U2	M77-0033-U2	M77-0035-U2	M77-0037-U2	M77-0039-U2	M77-0041-U2
Order number with discharge hose/stopcock	M77-0032-U2	M77-0034-U2	M77-0036-U2	M77-0038-U2	M77-0040-U2	M77-0042-U2

Barrel Pumps - Stainless Steel

The Barrel Pumps made of stainless steel AISI 304 (1.4301) are suitable for filling combustible and easily flammable liquids. The barrel pump can conduct electricity and therefore fulfills the requirements for handling flammable liquids in combination with the accessory anti-static set. The PTFE gaskets ensure long-term and maintenance-free use. Pumping capacity approx. 2.38–5.81 gpm (9–22 l/min), dependent on pump length. The wide range of accessories makes it possible to adapt the pump to very different requirements.



Easy to use, also for flammable liquids

- Ideal for pumping flammable liquids
- Tested and suitable for EX zone 0 and 1, Explosion groups II A and II B
- Very good emptying of drum residual due to submerged non-return valve in the base
- Submersion pipe Ø 32 mm (1.26 in)
- Not suitable for acetone



Barrel Pumps with discharge tube or discharge hose/stopcock

Immersion Depth [in]	19.70	25.59	31.50	39.37	49.21	59.06
Capacity per stroke [oz]	6.76	7.78	8.79	10.14	10.14	10.14
Order number with discharge tube	M77-0031-U2	M77-0033-U2	M77-0035-U2	M77-0037-U2	M77-0039-U2	M77-0041-U2
Order number with discharge hose/stopcock	M77-0032-U2	M77-0034-U2	M77-0036-U2	M77-0038-U2	M77-0040-U2	M77-0042-U2



Order no. M77-0056-U2

Anti-Static Set

Eliminate Hazardous Sparks from Static Build-Up when pumping or dispensing Flammable Liquids

- Install and use proper cables to maintain a safe workplace in accordance with OSHA regulations
- Bonding cables should be installed between containers
- Grounding cable should be from the pump motor, hose, and drum to the building

Barrel Pumps - PTFE Ultrapure

Due to the high chemical resistance of the medium-contacting parts made of PTFE and FEP, even liquids that attack conventional materials such as PP or PVC can now be safely transferred (except for elemental fluorine) with this barrel pump. The barrel pump is also suitable for transferring ultra-pure liquids. The stopcock prevents hazardous vapors from escaping and stops dripping after transfer.

- Immersion tube 1.26 in. (Ø 32 mm)
- All valves are made of solid PTFE/PVDF
- Top quality – 3 years warranty
- Barrel screw joints for commercially available containers available as accessories



Barrel Pumps Ultrapure, with discharge tube or discharge hose / stopcock



Immersion Depth [in]	23.62	37.40
Capacity per stroke [oz]	9.14	13.53
Order number with Discharge Tube	M77-0062-U2	M77-0064-U2
Order number with Discharge Hose / Stopcock	M77-0063-U2	M77-0065-U2

Solvent Pumps - Hand or Foot operated

Solvent pumps for contamination-free removal of organic solvents and flavoring agents. The pumps work according to the overpressure principle. Excess pressure is built up in the tank with the pump ball, forcing the liquid out of the container. Pouring flammable liquids. All medium-contacting parts are made of stainless steel AISI 304 (1.4301) and PTFE. The Pumps are suitable for containers up to 60 liters (15.85 gal.). The solvent pump for tinfoil canisters has a connector thread for pull-out spouts.

- Sturdy and long-lasting
- Gastight version - Tote and pump can be hermetically closed by the screw connection and the stop valve to prevent undesirable vapors from escaping
- Submersion pipe steplessly adjustable to drum depth, pipe Ø: 21 mm
- Recommended acetone
- For dispensing high-purity fluids
- Approved for: IIA,b ex-zone 0
- With fixed spout incl, stainless steel / PTFE stop valve
- Screw connection for GL45 thread or R2" fine thread, for drums up to 55 gallons



Hand operated pump, use with tin-foil canisters

Version	for bottles or canisters up to 2.64 gallons, with GL 45 Thread	for tin-foil canisters - pull out spout Dia 1.38 inch)	for Drums, up to 55 gallons, with R 2" Thread		
Usage	Hand operated	Hand operated	Hand operated	Foot operated	Foot operated
Design	with Discharge Hose / Stopcock	with Tube and Stopcock	with Tube and Stopcock	with Discharge Tube	with Discharge Hose / Stopcock
Immersion Depth [in]	15.75	23.62	23.62	37.40	37.40
Maximum Flow Rate [gpm]	0.48	2.64	2.64	5.28	5.28
Order number	M77-0061-U2	M77-0059-U2	M77-0057-U2	M77-0058-U2	M77-0060-U2

OTAL - Foot and Hand Pumps

OTAL® Pumps with delivery tubes made of PP, resistant to weak acids, alkalis, and detergents. The telescopic immersion tube adapts itself to the container height. This ensures good removal of residual liquid and means that the foot pump can be used with different containers.

- Simple handling: Both hands remain free for filling
- Very good pump capacity due to large volume foot bellows
- With universal bungs made of soft PVC, for container openings of 30–70 mm (1.18–2.76 in.) Ø



The three-part universal plugs join pumps and containers together with an air-tight seal. Opening diameter 1.18 – 2.75 in.

Pallet Material	PP					PP/PVC	PVDF	Stainless-Steel
Immersion Depth [in]	17.8	27.6	27.6	27.6	35.5	27.6	27.6	35.5
Maximum Flow Rate [gpm]	1.06	3.70	5.30	6.90	8.00	3.20	5.30	6.90
Tube Diameter [in]	0.4	0.5	0.6	0.8	0.9	0.5	0.7	0.8
Order number Hand Pumps	M77-0014-U2	M77-0015-U2	M77-0016-U2	M77-0017-U2	–	M77-0020-U2	M77-0018-U2	M77-0019-U2
Order number Foot Pumps	–	–	M77-0005-U2	M77-0006-U2	M77-0007-U2	M77-0008-U2	M77-0009-U2	M77-0010-U2

OTAL Pumps - Single use

In OTAL pumps the medium being transferred comes in contact only with the delivery tube. The disposable delivery tube can be replaced quickly and easily after use. The delivery tube of the liquid transfer pump is made of a single piece and can easily be shortened to the respective container height using the cutter included with delivery. This offers maximum flexibility and guarantees good emptying of small remaining amounts from the container. The discharge of the delivery tube can also be shortened if necessary. The disposable pump is ideal when special purity is important or if cleaning is difficult or not possible at all.



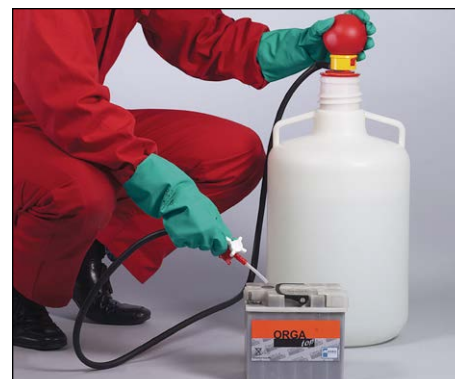
Version	Hand operated	Foot operated
Tube Material	Poly	
Tube Diameter [in]	0.47	
Maximum Flow Rate [gpm]	3.70	
Immersion Depth [in]	35.43	
Order number	M77-0022-U2	M77-0013-U2
Accessories	—	
Packaging unit (piece/pack)	10 pcs	10 pcs
Order number :	M77-0012-U2	M77-0012-U2

OTAL Pumps - Battery powered

OTAL® Pumps with delivery tubes made of PP, resistant to weak acids, alkalis, and detergents. The telescopic immersion tube adapts itself to the container height. This ensures good removal of residual liquid and means that the foot pump can be used with different containers.

- Simple handling: Both hands remain free for filling
- Very good pump capacity due to large volume foot bellows
- With universal bungs made of soft PVC, for container openings of 30–70 mm (1.18–2.76 in.) Ø

Drive Type	Battery Powered	
Version	Hand Pumps	Foot Pumps
Pallet Material	PP/PVC	PP/PVC
Immersion Depth [in]	28	28
Tube Diameter [in]	1	1
Order number	M77-0021-U2	M77-0011-U2



Mobile Pump Trolley

This trolley is ideal for internal transport and safe filling at different locations. The large wheels (diameter of 10 inches) ensure easy transport. The additional swivel castors (with arrestors) make maneuverability even in narrow spaces a breeze.

- Safe transport of drums
- Easy to handle due to large wheel and practical casters
- Place your pump directly on the trolley
- Use the prepared holding device for the nozzle
- Suitable for all drums up to 55 gal and pump tubes with max. 2.4-inch diameter and a hose with max 5 ft length



The ergonomic handle can be gripped safely even when wearing protective gloves



Storage compartment for nozzle



Backwall with an integrated compartment for storing absorbent pads and goggles



Holding device for pump tube



Large wheels (10 in diameter) for easy transport and 5 in swivel castors (with arrestors) for perfect maneuverability

Suitable for nearly all kinds of pumps



Protect yourself with PPE Equipment

See page
281



Mobile Pump Trolley showed here together with 55-gallon drum and a battery pump. Thus, a completely self-sufficient unit for filling machines can be created.

Dual Action Siphon-Lift Pump

- Quickly drains containers and spill sumps
- Supplied with 6' intake and 3' outlet hoses
- Non-sparking construction is compatible with fuels



Order no. M51-0240-U2

High-Quality Hand Level Piston Pump

- Great for dispensing oils, anti-freeze, and mild acids
- Nitrile seals are standard
- Anti-drip nozzle prevents splashing
- Dispenses 11 oz per stroke



Order no. M51-0210-U2

High Viscosity Liquid Pump

- Use for liquids up to SAE 90W
- Lever action pump
- Telescoping suction tube for use with 15, 30, and 55-gallon drums
- Delivers 10 oz per stroke



Order no. M51-0215-U2

Metering Stroke Pump

- Can be calibrated for a quart or liter dispensing
- Heavy-duty cast-iron construction
- Use with oils and other non-corrosive, non-flammable liquids
- Return drain eliminates drips and waste



Order no. M51-0105-U2

High Transfer Volume Piston Head Pump

- Suitable for fuels and light oils
- Lightweight cast aluminum body with stainless inner liner
- Lockable steel yoke handle
- Delivers up to 20 gpm



Order no. M51-0110-U2

Transfer Pump - UL Listed

- For fuels and other medium viscosity oils
- Telescoping suction pipe extends from 22" to 40"
- Equipped with an 8-foot hose and non-sparking nozzle
- Delivers up to 10 gpm

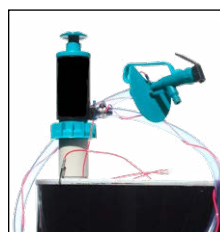
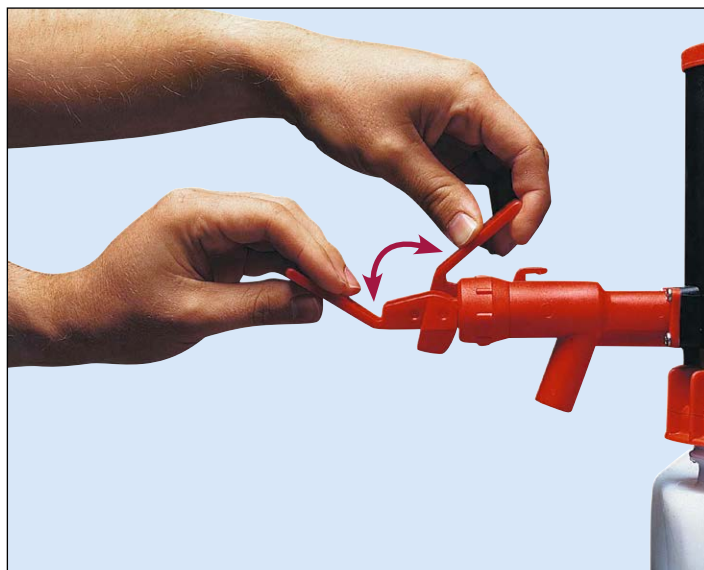


Order no. M51-0115-U2

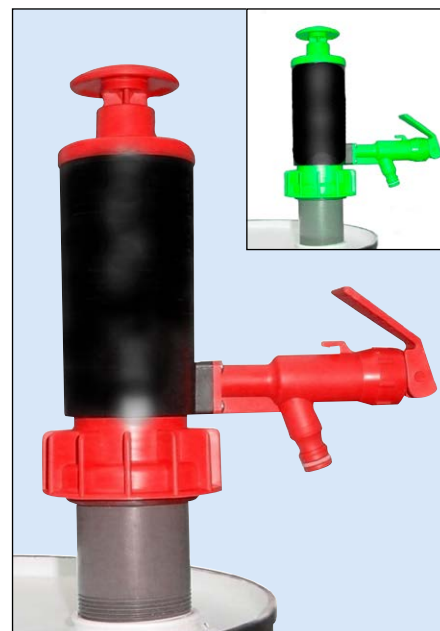
Hand Pumps for Drums and Pails

Hand Pumps for Drums and Pails

- Hand-pressurized pumps provide even, measurable flow control with a minimum of manual effort
- Ideal for small pails, carboys, and 55-gallon drums
- Pump performance: Up to 4.5 gal/min for water and up to 2 gal/min for SAE 30 Oil (at 70° F)
- Nitrile seals - for petroleum-based products including gasoline, diesel, glycerin, etc.
- EPDM seals - for general purpose chemicals tubing acids, acetates, alcohols, and phosphates
- Viton seals - for aggressive chemicals and solvents including sulphury acid, ethylene, nitric acid, and pesticides



Remote Nozzle
(tubing not included)



	Red / Nitrile	Blue / EPDM	Green / Viton
Order number	M51-0062-U2	M51-0064-U2	M51-0066-U2
Accessories	Remote Nozzle (tubing not included)		
Order number	M51-0068-U2	M51-0069-U2	M51-0070-U2

T-Handl Pump - Stainless Steel

- Stainless and Teflon construction is compatible with most common corrosives, detergents, and acids
- Dispenses 22 oz per stroke
- Includes a 2" bung adapter
- 1 1/4" x 41" long



Order no. M51-0162-U2

Drum & Pail Pump - PVC

- Pump is 100% PVC and resistant to a wide range of liquids
- Dispenses 8 oz per stroke
- Fits both 3/4" and 3" openings
- Attaches to 15, 30, and 55-gallon drums



Order no. M51-0230-U2

Poly Siphon Pump

- Bellows action quickly provides siphon action to quickly empty containers
- Perfect for water-based solutions, soaps, anti-freeze, and mild-corrosives
- Pumps up to 5 gpm
- Fits 2" bung adaptor
- Equipped with 4-foot discharge hose



Order no. M51-0040-U2

High Viscosity Pump

- Lever action pump is ideal for high viscosity fluids including motor oil, paraffin, and other lubricants
- Dispenses 32 oz per stroke
- Includes a 2" bung adapter and telescoping tube



Order no. M51-0175-U2

Rotary Pump - High Speed

- Great for transferring petroleum fluids
- Delivers 20 gpm
- Sturdy cast iron body with steel suction tube and 8' discharge hose
- 2" bung adapter



Order no. M51-0145-U2

Rotary Pump

- Suited for many organic acids, alcohols, and detergents
- Polypropylene construction
- Self-priming hand crank design
- Delivers 8 gpm
- Includes 3 pc. suction tube



Order no. M51-0280-U2

Rotary Pump - Ryton

- Provides extended life when transferring aggressive chemicals
- Use for ketones, alcohols, and bases
- Delivers 6 gpm
- Equipped with Viton lip seal, O-rings, and stainless discharge tube



Order no. M51-0285-U2

Acid Pump

- Equipped with Viton valves and seals
- Durable PVC body and shaft
- Delivers 28 oz per stroke
- Fits standard 2" bungs
- Pump and shaft are 38" long



Order no. M51-0225-U2

Drum Pump - Stainless Steel

- Ideal for most acids and corrosives
- Delivers 8 oz per stroke
- Includes a 22" Teflon extension tube and plunger
- 2" bung adapter



Order no. M51-0151-U2

High-Quality Chemical Pump - Plastic

- Polypropylene inhibits corrosion and contamination from most chemicals
- Adjustable dispensing provides 2, 4, 6, or 8 oz per stroke
- Fits both 3/4" and 2" bung openings
- Swivel spigot provides 360-degree rotation



Order no. M51-0220-U2

Hand-Held Mixers

Handlebar or Pistol Grip Air Mixer - Popular for mixing liquids in containers up to 55 gallons. Can also be used to mix mortar, drywall compound, and similar materials in 5-gallon containers.

- Air control valve for speed adjustment
- Optional "Deadman" trigger on right handle for safety



Handlebar for Mixer

Usage	for 5 to 10 gal pails	for 55 gal drums
Shaft Size Diameter [in]	0.5	0.5
Shaft Size Length [in]	21	40
Mixing Head Diameter [in]	5	5
Shipping Weight [lbs]	16	30
Order number - Hand-Held	M51-5241-U2	M51-5242-U2
Order number - Handlebar	M51-5243-U2	M51-5244-U2



Drum Mixers for High Viscosity Chemicals

- Shaft and propeller are Stainless Steel 316
- Available in Totally Enclosed Fan Cooled (TEFC) and Explosion Proof Class I Group D (XP) motors
- For mixing extremely heavy or shear sensitive chemicals in drums
- Designed to screw into standard 2-in. bung opening on 55-gallon drums

Drive Type	TEFC	TEFC
Maximum Viscosity [cps]	1,000	4,000
HP/Elec	1/3HP-1-115/230	1/2HP-1-115/230
Shipping Weight [lbs]	35	45
Order number	M51-5290-U2	M51-5291-U2

Drive Type	XP	XP
Maximum Viscosity [cps]	4,000	4,000
HP/Elec	1/3HP-1-115/230	1/2HP-1-115/230
Shipping Weight [lbs]	36	45
Order number	M51-5292-U2	M51-5293-U2



Bung Connection



Rim Clamp

Drum Mixers for Low Viscosity Chemicals

Choose between two styles for water-like solutions utilizing a folding propeller and two styles for viscous fluids which use permanent blades and are offered in higher horsepower.

- Shaft and folding propeller are 316SS. Propeller folds for entry; opens to 3 3/4-in. diameter when operating
- Motors are available in TEFC or explosion-proof enclosures (56C frame)

Drive Type	Bung Connection			
	Totally Enclosed Fan Cooled	Totally Enclosed Fan Cooled	XP Class 1 Group D	XP Class 1 Group D
HP/Elec	1/3HP-1-115/230	1/2HP-1-115/230	1/3HP-1-115/230	1/2HP-1-115/230
Shipping Weight [lbs]	35	45	45	55
Order number	M51-5286-U2	M51-5287-U2	M51-5295-U2	M51-5296-U2

Drive Type	Rim Clamp		
	Totally Enclosed Fan Cooled	Totally Enclosed Fan Cooled	Explosion-proof Class 1 Group D
HP/Elec	1/3HP-1-115/230	1/2HP-1-115/230	1/2HP-1-115/230
Shipping Weight [lbs]	50	55	55
Order number	M51-5288-U2	M51-5289-U2	M51-5298-U2

Versatile mixers for use in a wide variety of mixing applications. Attach the closed head or open head drums as well as IBCs and other tanks.

- Come standard with variable speed
- Standard Shaft size for all units is 5/8" x 27"
- Alternative shaft sizes are available
- All units come standard with dual propeller
- Blades and shafts constructed from stainless steel
- Propeller position can be easily adjusted



Air Powered C-Clamp Mixer
Order no. M51-5220-U2



Electric Mixer - Straddle Mount
Order no. M51-5485-U2



Electric Straddle Mount Mixer
Order no. M51-5485-U2

Hazardous Material
Handling

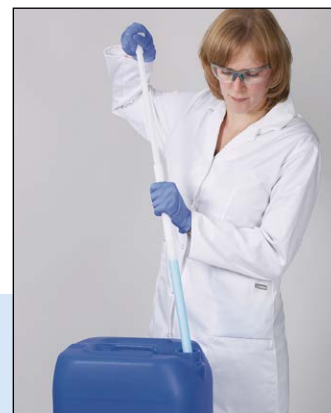
Drive Type	Air		Electric	
Horsepower	1	1	3/4	3/4
Blade Type	Collapsible	3-Blade	Collapsible	3-Blade
Blade Size	4"	6"	4"	5"
Order number Bung Mount	M51-5255-U2	—	M51-5460-U2	—
Order number C-Clamp Mount	—	M51-5220-U2	—	M51-5420-U2
Order number Straddle Mount	—	M51-5280-U2	—	M51-5485-U2

LiquiDispo Samplers

The LiquiDispo disposable sampler can be used to take samples of liquids from highly liquid to slightly viscous. An ergonomic handle makes it easier to draw the sample: up to 6.8 oz. (200 ml) can be drawn, as with a syringe.

- Cleanroom manufactured, individually packaged
- Without seals
- Produced with high-quality Polyethylene (HDPE)
- Ergonomic handle
- Optionally sterilized by gamma rays
- Opening diameter 0.1 inch

Capacity [oz]	3.38	6.76
Exterior Depth (in) [in]	19.70	39.37
External Diameter [in]	0.83	0.83
Quantity per Pack	20 pcs/Pack	20 pcs/Pack
Order number standard	M77-0218-U2	M77-0220-U2
Order number sterilized	M77-0219-U2	M77-0221-U2



LiquiSamplers

Sampler according to ISO 15528. Made of ultra-pure and chemically inert PTFE/FEP or PP for contamination-free sampling. Sampling from open and closed containers, tanks, drums, and water courses. Easy cleaning - all surfaces are free of pores and crevices, preventing the accumulation of dirt. Only round screw threads proven in foodstuffs hygiene are used.

- Practical one-handed use at the push of a button
- With scraping ring for marking of depth and cleaning
- Transparent
- Point sampling, all-layer sampling, and bottom sampling are possible

Material	PP			PTFE/FEP		
Capacity [oz]	5.07	8.45	16.91	5.07	8.45	16.91
Exterior Depth (in) [in]	23.62	39.37	78.74	23.62	39.37	78.74
External Diameter [in]	1.26	1.26	1.26	1.26	1.26	1.26
Order number	M77-0137-U2	M77-0138-U2	M77-0139-U2	M77-0140-U2	M77-0141-U2	M77-0142-U2



ViscoSamplers

ViscoSamplers with powerful suction for viscous media. The media is drawn up and discharged using the suction flask. Made of ultra-pure, chemically inert PTFE/FEP for contamination-free sampling. Specially developed for viscous substances such as slurries, silt, wet clay and soil samples, soil sediments, oils, emulsions, creams, etc. Easy cleaning - all surfaces are poreless and without crevices. Dirt accumulation is prevented.

Only round screw threads tried and tested in the field of food hygiene are used. ViscoDispo - These disposable samplers can be used to take samples of high-viscosity media up to 100.000 mPas. The ergonomically shaped handle and the very stable drawbar make it easy to draw even viscous substances. Cleanroom manufactured, individually packaged, and optionally sterilized by gamma rays.

Version	ViscoSampler						ViscoDispo	
Material	PP			PTFE/FEP			HDPE	
Capacity [oz]	5.41	10.14	21.98	5.41	10.14	21.98	3.38	6.76
Exterior Depth (in)	30.32	39.37	78.74	23.62	39.37	78.74	19.70	39.37
External Diameter [in]	1.26	1.26	1.26	1.26	1.26	1.26	0.83	0.83
Quantity per Pack	1 pcs.	1 pcs.	1 pcs.	1 pcs.	1 pcs.	1 pcs.	20 pcs/Pack	20 pcs/Pack
Order number standard	M77-0143-U2	M77-0144-U2	M77-0145-U2	M77-0146-U2	M77-0147-U2	M77-0148-U2	M77-0226-U2	M77-0228-U2
Order number sterilized	—	—	—	—	—	—	M77-0227-U2	M77-0229-U2



Telescopic Rods

The individual rods have been provided with an end stop. This means that one rod cannot accidentally slip out of another rod. The telescopic rods cannot be rotated radially, which means even better handling! The tools (angular beaker, pendulum beaker, bottle holder, stainless steel beaker, and dip net) are attached to the telescopic rod by a practical snap-in joint. Ideal for sampling from baths, tanks, shafts, open water courses etc. Sampling depths down to 19.7 ft. can be reached with the adjustable telescopic aluminum rod.

- Increased telescopic rod rigidity by using a cold-rolled profile rod
- Springs are made of stainless steel
- For industry and water treatment



Exterior Depth (in)	48	71	99	111	119	178	237
Weight [lbs]	1	2	2	2	2	3	4
Order number	M77-0158-U2	M77-0159-U2	M77-0160-U2	M77-0161-U2	M77-0162-U2	M77-0163-U2	M77-0164-U2



Angular Beaker - PP

The beaker is adaptable to different container shapes by adjustable angle setting (up to 90°).



Pendulum Beaker - Stainless Steel

This beaker automatically swigs to a horizontal position. Nothing can be spilled. Suitable therefore for deep and narrow shafts, Diameter 5.12 inch



Pendulum Beaker - PP

This beaker automatically swings to a horizontal position. Nothing can be spilled. Suitable therefore for deep and narrow shafts (Ø 5.91 inch)



Pendulum Beaker - PP

Beaker with scraper, sterilizable- ideal for powders, granules, pastes, and mud.



Bottle Holder

Holds all bottles up to 88 mm (3.46 in.) Ø. Plastic, glass, or metal bottles can be securely filled in this way. Angle steplessly adjustable up to 90°.



Model	Beaker				Pendulum Beaker			Bottle Holder	
Material	PP		Stainless-Steel		PP		Stainless-Steel	PP/PA	
Capacity [oz]	20.29	33.81	67.63	33.81	20.29	33.81	67.63	33.81	25.36
Order number	M77-0149-U2	M77-0150-U2	M77-0151-U2	M77-0152-U2	M77-0155-U2	M77-0156-U2	M77-0157-U2	M77-0153-U2	M77-0154-U2

Sampler - Complete Sets

While the Mini-Sampler is designed for laboratory use, the Profi-Sampler has been specially developed for rough industrial use. Applications: Sampling liquids in barrels, tanks, trucks, railway goods cars, ships, watercourses, groundwater, etc. - Profi-Samplers with Vacuum Technology have the advantage that the sample liquid only encounters the suction hose and the original sample bottle.

Version	Mini-Sampler	Mini-Sampler	Profi-Sampler	Profi-Sampler
Pallet Material	PE	PTFE	PP	Aluminum
Order number	M77-0099-U2	M77-0100-U2	M77-0101-U2	M77-0103-U2



Set Mini Sampler



Set Profi-Sampler - Aluminum

Zone samplers for all kinds of bulk goods

All-layer sampler, with an open inner tube, no separate chambers, and a large sampling volume. The big advantage of zone samplers is that all-layer samples can be collected from all layers of the container. Various bulk goods can be collected with the lances, from the finest powder to large grains such as corn or nuts. Safe and reliable sampling is made even easier with useful special accessories such as sealing sleeves, Quali-Paper, cleaning brushes, emptying devices, and close-it control seals. The zone samplers are available in different models for different sampling tasks.

- With an open inner tube, no separate chambers, and a large sampling volume
- Ultra-pure materials, excellent processing, robust model
- Smallest possible gap between the inner and the outer tube
- Type Jumbo - with a tube diameter of 1.97 in., ideal for coarse grains and larger quantities



Version	With open compartments								
Material	Aluminum						Stainless-Steel		
External Diameter [in]	0.98	0.98	0.98	1.97	1.97	1.97	0.98	0.98	0.98
Exterior Depth (in) [in]	21.65	33.46	59.06	37.40	64.96	104.33	21.65	33.46	59.06
Insertion Depth [in]	17	28	54	34	60	99	17	28	54
Number of compartments	3	3	5	3	5	7	3	3	5
Order number	M77-0121-U2	M77-0122-U2	M77-0123-U2	M77-0124-U2	M77-0125-U2	M77-0126-U2	M77-0112-U2	M77-0113-U2	M77-0114-U2

Version	With closed compartments											
Material	Aluminum			Stainless-Steel			Stainless-steel/PTFE			Aluminum/PTFE		
External Diameter [in]	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	1.97	1.97	1.97
Exterior Depth (in) [in]	21.65	33.46	59.06	21.65	33.46	59.06	21.65	33.46	59.06	37.40	64.96	104.33
Insertion Depth [in]	16.93	27.95	53.35	16.93	27.95	53.35	16.93	27.95	53.35	33.46	59.06	98.46
Number of compartments	3	3	5	3	3	5	3	3	5	3	5	7
Order number	M77-0118-U2	M77-0119-U2	M77-0120-U2	M77-0115-U2	M77-0116-U2	M77-0117-U2	M77-0106-U2	M77-0107-U2	M77-0108-U2	M77-0127-U2	M77-0128-U2	M77-0129-U2

Quick Picker

- Made of stainless steel AISI 316L (1.4404) approved for use with foodstuffs or PP transparent for aggressive chemicals
- Scratchproof, sterilizable, cost-effective
- Removable tip, easy cleaning
- Comes together with two 8.45 oz. PE sample bottles and a cleaning brush

Material	PP	Stainless-Steel
Capacity [oz]	2.54	2.54
Exterior Depth (in) [in]	19.70	19.70
External Diameter [in]	0.98	0.98
Insertion Depth [in]	11.81	11.81
Order number	M77-0131-U2	M77-0132-U2



Quick Picker - made of stainless steel AISI 316L (1.4404) approved for use with foodstuffs or PP transparent for aggressive chemicals

Uno Samplers

Uno sampler made of stainless steel AISI 316L (1.4404)/PTFE with a closed sample chamber for point sampling from a predetermined sampling depth.

- Outer tube stainless steel AISI 316L (1.4404), sample chambers made of PTFE



Zone Samplers UNO, available in three depths

Material	Stainless-steel/PTFE		
Exterior Depth (in) [in]	21.65	33.46	59.06
External Diameter [in]	0.98	0.98	0.98
Order number	M77-0109-U2	M77-0110-U2	M77-0111-U2

Powder samplers - "Tubes"

Sampler for pourable bulk goods up to approx. 0.4 in. in diameter. This makes it possible, for example, to remove hazelnuts, blends of tea, grain, or similar items from large sacks.

- Also for coarse-grained bulk goods
- Made of stainless steel AISI 316L (1.4404)

Material	Stainless-Steel	
Exterior Depth [in] [in]	15.15	31.50
External Diameter [in]	1.57	1.57
Order number	M77-0216-U2	M77-0217-U2



Powder Samplers with Lance

Universal powder and granules sampler made of stainless steel AISI 316L (1.4404). Developed initially for milk powder samples, conforms to standards of DIN and IDF (International Dairy Federation). The collector now is inserted into bags or casks and the sample is removed using a semi-circular profile lance.

Material	Stainless-Steel
Capacity [oz]	5.07
Insertion Depth [in]	15.16
Rack Depth C [in]	18.90
External Diameter [in]	2
Order number	M77-0130-U2



Close-it Labels

- All Close-it products have a very strong and powerful adhesive
- For the food & pharma version we have developed a control seal with an adhesive approved for use with foodstuffs
- Choose between labels with printing in black, blue, green, red, or yellow) or without printing in white

Version	Standard				Food & Pharma			
	Seal		Tape		Seal		Tape	
Model								
External Width [in]	3.74	5.91	3.74	5.91	3.74	5.91	3.74	5.91
Exterior Depth [in] [in]	3.74	5.91	—	—	3.74	5.91	—	—
Quantity per Pack	500 pcs/Roll	250 pcs/Roll	164.04 ft./Roll	164.04 ft./Roll	500 pcs/Roll	250 pcs/Roll	164.04 ft./Roll	164.04 ft./Roll
Order number White	M77-0068-U2	M77-0075-U2	M77-0074-U2	M77-0081-U2	M77-0083-U2	M77-0090-U2	M77-0084-U2	M77-0091-U2
Order number Black	M77-0069-U2	M77-0076-U2	—	—	M77-0088-U2	M77-0095-U2	—	—
Order number Red	M77-0070-U2	M77-0077-U2	—	—	M77-0082-U2	M77-0089-U2	—	—
Order number Yellow	M77-0071-U2	M77-0078-U2	—	—	M77-0085-U2	M77-0092-U2	—	—
Order number Blue	M77-0072-U2	M77-0079-U2	—	—	M77-0086-U2	M77-0093-U2	—	—
Order number Green	M77-0073-U2	M77-0080-U2	—	—	M77-0087-U2	M77-0094-U2	—	—



Close-it Dispenser

- The close-it Dispenser ensures safe storage and simple removal of the labels
- The labels can be conveniently written on due to the marking plate
- For close-it sizes 3.74 x 3.74 or 5.91 x 5.91 in.

Close-it Dispenser for labels 3.74 x 3.74 inch
Order no. M77-0096-U2

Close-it Dispenser for labels 5.91 x 5.91 inch
Order no. M77-0097-U2



Funnel Stand with Holders for 2 Funnels

Funnel Stands

- Sturdy and stable funnel stand, resistant to chemicals, shatterproof and with continuously variable height adjustment.
- The height of the funnel holder can be adjusted easily and flexibly with one hand
- Due to the removable reducing insert, also smaller funnels fit perfectly into the funnel holder



Additional Funnel Holder

Product Description	Funnel stand with two funnel holders, for funnels Ø 1.6 - 7.1 inch	Funnel stand with four funnel holders, for funnels Ø 1.6 - 7.1 inch
Order number	M77-0306-U2	M77-0307-U2
Accessories		
Additional Funnel Holder, for Funnel Stands		
Order number	M77-0305-U2	M77-0305-U2
Additional Funnel Holder, for Imhoff Sedimentation Funnels		
Order number	M77-0304-U2	M77-0304-U2

Draining Racks

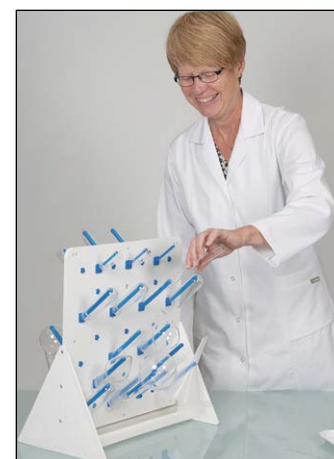
- Draining rack made of plastic, shatterproof, proven thousands of times in the lab
- The stable rods are individually placed into the holes of the draining rack and are clicked into place. Their positions can be changed at any time
- Draining rack 15.75 x 15.75 in.
comes with 10 rods 2.36 in., 39 x 3.94 in., and four extensions 5.91 in.
- Draining rack 19.69 x 19.69 in.
comes with 5 rods 2.36 in., 26 x 3.94 in., and two extensions 5.91 in.
- Draining rack 23.62 x 23.62 in.
comes with 15 rods 2.36 in., 56 x 3.94 in., and six extensions 5.91 in.



Draining Rack, wall-mounted



Draining Rack, Benchtop version, can be used on both sides



Version	Wall mounted - without Draining Channel			Wall mounted - with Draining Channel			Benchtop - with Draining Channel		
External Dimensions W x D (in)	15.75 x 15.75	19.68 x 19.68	23.62 x 23.62	15.75 x 15.75	19.68 x 19.68	23.62 x 23.62	15.75 x 15.75	19.68 x 19.68	23.62 x 23.62
Order number	M77-0312-U2	M77-0313-U2	M77-0314-U2	M77-0315-U2	M77-0316-U2	M77-0317-U2	M77-0318-U2	M77-0319-U2	M77-0320-U2
Accessories									
Rod for draining rack, LxØ 60x6 mm	M77-0311-U2	M77-0311-U2	M77-0311-U2	M77-0311-U2	M77-0311-U2	M77-0311-U2	M77-0311-U2	M77-0311-U2	M77-0311-U2
Rod for draining rack, LxØ 100x10 mm	M77-0309-U2	M77-0309-U2	M77-0309-U2	M77-0309-U2	M77-0309-U2	M77-0309-U2	M77-0309-U2	M77-0309-U2	M77-0309-U2
Additional Extension for rods, 5.91 x 0.47 in.	M77-0310-U2	M77-0310-U2	M77-0310-U2	M77-0310-U2	M77-0310-U2	M77-0310-U2	M77-0310-U2	M77-0310-U2	M77-0310-U2

DispoLance

The **DispoLance** disposable sampler can be used for taking large and small sample quantities quickly and easily, directly from bags. The sampler is suitable for free-flowing powders and small-grain granulates. The **DispoLance** sampler pierces into the container with the sturdy tip and the sample flows through the open inner tube directly into the container or bag that is held underneath.

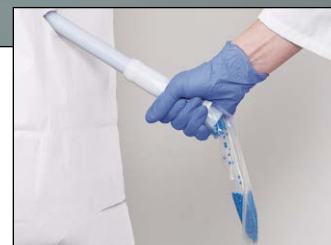
- Made of High-Quality Polyethylene (HDPE)
- Cleanroom manufactured, individually packaged
- Nominal width 0.55 in. (14 mm)
- Ø 0.83 in. (21 mm)
- Optionally sterilized by gamma rays

	DispoLance	
Exterior Depth (in)	11.81	19.70
External Diameter [in]	0.83	0.83
Order number standard	M77-0254-U2	M77-0256-U2
Order number sterilized	M77-0255-U2	M77-0257-U2



DispoLances, available in 2 dimensions and as standard or sterilized version

DispoLance - Sample your goods directly in bags (not included)



Dispo Samplers

- Made of High-Quality Polyethylene (HDPE)
- Cleanroom manufactured, individually packaged
- Optionally sterilized by gamma rays
- Ø 21 mm (0.83 in.) High-Quality Made of High-Quality Polyethylene (HDPE)
- Cleanroom manufactured, individually packaged
- Optionally sterilized by gamma rays
- Ø 21 mm (0.83 in.) e.g. For example Made of High-Quality Polyethylene (HDPE)
- Cleanroom manufactured, individually packaged
- Optionally sterilized by gamma rays

- Ø 21 mm (0.83 in.) e.g. For example Made of High-Quality Polyethylene (HDPE)
- Cleanroom manufactured, individually packaged
- Optionally sterilized by gamma rays
- Ø 21 mm (0.83 in.)



DispoPicker



MicroDispo



Version	MicroDispo		DispoPicker		MultiDispo		TargetDispo	
Capacity [oz]	0.34	0.34	2.03	3.38	3.38	6.76	3.38	6.76
Exterior Depth (in) [in]	19.70	39.37	11.81	19.70	19.70	39.37	19.70	39.37
External Diameter [in]	0.83	0.83	0.83	0.83	0.98	0.98	0.98	0.98
Order number standard	M77-0222-U2	M77-0224-U2	M77-0250-U2	M77-0252-U2	M77-0234-U2	M77-0236-U2	M77-0238-U2	M77-0240-U2
Order number sterilized	M77-0223-U2	M77-0225-U2	M77-0251-U2	M77-0253-U2	M77-0235-U2	M77-0237-U2	M77-0239-U2	M77-0241-U2



Flexible Heating Jackets - for Drums from 5 up to 55 gallons

- Modern heating technology - heats quickly and uniform
- Great for controlling viscosity and flow control
- Ability to operate in a range of temps (-40°F to +104°F)
- All units are thermostatically controlled
- High grade thermal insulation to reduce heat loss and increase efficiency while providing protection for the operator
- Safe to use 24/7 - Fit and forget, no regular maintenance required
- Fitted with NEMA 1-15P plug
- Fitted with adjustable retaining straps and quick-release buckles
- Choose between a low and a high-power version for use in ordinary or hazardous Areas (C1D2)



For Ordinary Industrial Locations ETL approved UL and CSA Standards.
Hazardous Areas C1D2 certified to UL / CSA standards (ETL marked) Class 1 Division 2.



Heating Jackets for use in Hazardous Areas C1D2
Order no. M51-5625-U2



Heating Jackets are sized for 5 to 55 gallons



Heating Jacket, approved for Class I
Zone 1 Locations are also available.
Please call the factory for more
information

Usage	Ordinary Locations									
Container Size	5 Gal		15 Gal		30 Gal			55 Gal		
Adjustable Circumference [in]	34 - 40		43 - 50		55 - 65			71 - 77		
Height [in]	16		18		18	24	18	34		
Primary Thermostat	32-194 °F	32-320 °F	32-194 °F	32-320 °F	32-194 °F	32-320 °F	32-194 °F	32-194 °F	32-194 °F	32-320 °F
Power [W]	350	500	450	700	700	1,150	600	1,200	1,450	2,600
Order number	M51-5600-U2	M51-5601-U2	M51-5602-U2	M51-5603-U2	M51-5604-U2	M51-5605-U2	M51-5606-U2	M51-5607-U2	M51-5608-U2	M51-5609-U2

Usage	Hazardous Areas C1D2									
Container Size	5 Gal		15 Gal		30 Gal			55 Gal		
Adjustable Circumference [in]	34 - 40		43 - 50		55 - 65			71 - 77		
Height [in]	16		18		15	24	18	34		
Power [W]	250	500	300	700	450	1,150	600	1,200	2,600	
Primary Thermostat	Fixed 122 °F	Fixed 194 °F	Fixed 122 °F	Fixed 194 °F	Fixed 122 °F	Fixed 194 °F	Fixed 122 °F	Fixed 194 °F	Fixed 194 °F	Fixed 194 °F
Secondary Thermostat	Fixed 158 °F	Fixed 248 °F	Fixed 158 °F	Fixed 248 °F	Fixed 158 °F	Fixed 248 °F	Fixed 158 °F	Fixed 248 °F	Fixed 248 °F	Fixed 248 °F
Order number	M51-5617-U2	M51-5618-U2	M51-5619-U2	M51-5620-U2	M51-5621-U2	M51-5622-U2	M51-5623-U2	M51-5624-U2	M51-5625-U2	

Heating Solutions for Drums

These full-coverage drum heaters can be used in a variety of applications including: viscosity control, freeze protection, temperature, maintenance, melting of solids, heating up the drum to the required temperature, and thermal mixing

- Built-in insulation
- Includes a digital temperature controller
- Silicone impregnated cloth facing and liner
- Digital 50 to 450°F on/off temperature controller
- Power cord 6 feet long with bare wire connection
- CE certification
- Choose from single & dual zoned covers

Version	Heating Jackets
Usage	fits for 55 gallon Drums
Power [W]	1,600
Order number 120 V	M51-5340-U2
Order number 240 V	M51-5339-U2



Go online! Discover even more exciting product highlights!
www.denios-us.com/shop



Strip Heaters - Standard

- The economical choice for non-hazardous areas
- Fiberglass reinforced silicone rubber
- Moisture and chemical resistant
- Adjustable thermostats heat from 50-425°F
- Grounded heating element
- Easy to operate spring closures
- 120 V units come with standard 3-prong plus, 240 V units come without a plug

Strip Heaters - Explosion Proof

- High limit thermostat prevents excess heating
- Double-layered, fiberglass-reinforced silicone rubber
- Moisture and chemical resistant
- Adjustable thermostat
- Grounded heating element
- FM Approved. Class 1 Division 2



Strip Heaters - Standard,
Order no. M51-3115-U2



Strip Heaters - Standard,
Order no. M51-3175-U2



Strip Heater - XP-Explosion Proofed,
Order no. M51-5352-U2

Version	Strip Heaters - Standard				Strip Heater - XP-Explosion Proofed			
	Plastic Drums		Steel Drums		Steel Drum - T3 Environment		Steel Drum - T4A Environment	
Container Size	30 Gal	55 Gal	30 Gal	55 Gal	30 Gal	55 Gal	30 Gal	55 Gal
Power [W]	250	300	750	1,100	1,000	1,300	1,000	1,300
Shipping Weight	4	4	4	4	34	34	34	34
Order number 120 V	M51-3115-U2	M51-3125-U2	M51-3150-U2	M51-3175-U2	M51-5352-U2	M51-5356-U2	M51-5360-U2	M51-5364-U2
Order number 240 V	M51-3114-U2	M51-3124-U2	M51-3149-U2	M51-3174-U2	M51-5351-U2	M51-5355-U2	M51-5359-U2	M51-5363-U2

Flexible Heating Jackets - for IBC Totes

- Modern Heating Technology - heats quickly and uniform
- Great for controlling viscosity and flow control
- Ability to operate in a range of temps (-40°F to +104°F)
- All units are thermostatically controlled
- High-grade thermal insulation to reduce heat loss and increase efficiency while providing protection for the operator.
- Safe to use 24/7 - Fit and forget, no regular maintenance required

- Fitted with NEMA 1-15P plug
- Fitted with adjustable retaining straps and quick-release buckles
- Premium oil, water, and abrasion resistant SOOW power cable
- Choose between a low and a high-power version for use in ordinary or hazardous Areas (C1D2)



For Ordinary Industrial Locations ETL approved UL and CSA Standards.

Hazardous Areas C1D2 certified to UL / CSA standards (ETL marked) Class 1 Division 2.



Heating Jacket for use in Ordinary Locations
Order no. M51-5613-U2



Option: Isolation Lid for 275 gal IBC Totes
Order no. M51-5611-U2



Heating Jacket for use in Hazardous Areas C1D2
Order no. M51-5610-U2



Container Size Usage	275 Gal						330 Gal					
	Ordinary Locations			Hazardous Areas C1D2			Ordinary Locations			Hazardous Areas C1D2		
Version	Heating Jackets						Heating Jackets & Insulation Lid					
Adjustable Circumference [in]	160 - 170	160 - 170	160 - 170	160 - 170	160 - 170	160 - 170	160 - 170	160 - 170	160 - 170	160 - 170	160 - 170	160 - 170
Height [in]	38	38	38	38	38	38	38	38	38	38	38	38
Shipping Weight [lbs]	26	37	47	26	37	47	36	47	57	36	47	57
Primary Thermostat	32-104 °F	32-194 °F	32-194 °F	Fixed 122 °F	Fixed 194 °F	Fixed 194 °F	32-104 °F	32-194 °F	32-194 °F	Fixed 122 °F	Fixed 194 °F	Fixed 194 °F
Secondary Thermostat	—	—	—	Fixed 158 °F	Fixed 248 °F	Fixed 248 °F	—	—	—	Fixed 158 °F	Fixed 248 °F	Fixed 248 °F
Power [W]	1,550	3,100	3,900	1,550	3,100	3,900	1,550	3,100	3,900	1,550	3,100	3,900
Order number	M51-5610-U2	M51-5613-U2	M51-5614-U2	M51-5626-U2	M51-5627-U2	M51-5628-U2	M51-5640-U2	M51-5643-U2	M51-5644-U2	M51-5646-U2	M51-5647-U2	M51-5648-U2

IBC Tote Heater

These full coverage drum heaters can be used in a variety of applications including viscosity control, freeze protection, temperature, maintenance, melting of solids, heating up the drum to the required temperature, and thermal mixing

- Designed for caged, plastic, or metal IBC Totes
- Dual thermostat, full coverage IBC Tote Blanket Heaters quickly, economically, and efficiently heat tote contents
- Adjustable straps enable the blanket to fit around most totes
- Dual adjustable thermostats heat totes from 50-160°F
- Does not contaminate or scratch your product



Optional insulated top cover reduces heat loss/accelerated heating
Order no. M51-5379-U2



Order no. M51-5371-U2

Provides easy access to IBC spigot



Controls temperature easily with an adjustable Thermostat

Order no. M51-5371-U2

The nylon straps and buckles allow for the blanket to fit several tote sizes



Go online! Discover even more exciting product highlights!

www.denios-us.com/shop

Hazardous Material Handling

Height [in]	IBC Tote Heaters					
	48		42		36	
Voltage	240 V	120 V	240 V	120 V	240 V	120 V
Power [W]	2,880	1,440	2,880	1,440	2,880	1,440
Order number	M51-5380-U2	M51-5381-U2	M51-5375-U2	M51-5376-U2	M51-5370-U2	M51-5371-U2

Base Heater - for Drums up to 55 gallons

The Base Heaters enable fast melting of solids, and heating of liquids, and allows mixing and dispensing all while heating. The containers/totes sit directly on the base of the heater and can reach a maximum temperature of 295°F. The Base Heater may be used by itself to provide heat to the base of a drum, alternatively, it can be used in conjunction with our heating jackets to reduce heating times.

- Suitable for heating steel, plastic, and fiber drums up to 55 gallons, including smaller containers up to 24 inches diameter
- Top plate temperatures can be set and clearly displayed on the integral microprocessor thermostat
- Temperature adjustment is made via a rear digital control unit
- Manufactured from 12 gauge mild steel for extra rigidity on uneven surfaces with tapered edges for safe ease of drum location
- Protected by a resilient high-temperature coating
- For use in safe, non-hazardous areas

Base Heater, 120 V,
with cord, 8 ft



Voltage	120 V
Power [W]	850
Dimensions L x H (in)	29.3 x 4
Diameter Intern [in]	24
Adjustable Temperature Range [°F]	32 - 295
Shipping Weight	75
Order number	M51-5636-U2



Base Heater, 120 V, with cord (8 ft) here shown together with Drum and Flexible Heating Jacket

Heating Coils

- Heater is constructed of 1" SCH10 pipe rolled to a 22" OD with a 5.5" pitch
- Inlet and outlet are 1" male pipe threads
- Coils are installed in a 22.5" diameter heavy-duty 10 gauge drum cover with 3" fusible vent/fill cap and 3.5" high guard

Suitable for	Order number
250 Gallon Stainless Steel IBC, compatible also for M72-7905	M51-3310-U2
250 Gallon Steel IBC, compatible also for M72-7910	M51-3315-U2
300 Gallon Stainless Steel IBC, compatible also for M72-7915	M51-3320-U2
300 Gallon Steel IBC, compatible also for M72-7920	M51-3325-U2
350 Gallon Stainless Steel IBC, compatible also for M72-7925	M51-3330-U2
350 Gallon Steel IBC, compatible also for M72-7930	M51-3335-U2
450 Gallon Stainless Steel IBC, compatible also for M72-7935	M51-3340-U2
450 Gallon Steel IBC, compatible also for M72-7940	M51-3345-U2
550 Gallon Stainless Steel IBC, compatible also for M72-7945	M51-3350-U2
550 Gallon Steel IBC, compatible also for M72-7950	M51-3355-U2



Heating Solutions for Gas Cylinders

Gas Cylinder Heaters keep gas warm in cold environments, reducing the amount of unused fuel due to temperature-related increased fuel density

- Provides 150°F maximum exposure temperature on the heating surface
- 120V unit comes with a standard 3-prong plug
- Class I Div I Groups B, C, and D certified
- Full surface coverage reduces heat loss



	Heating Jackets			
	Hazardous Area		Ordinary Area	
Suitable for				
Power [W]	150	150	150	150
Voltage	240 V	120 V	240 V	120 V
Shipping Weight [lbs]	28	28	4	4
Order number	M51-5324-U2	M51-5325-U2	M51-5320-U2	M51-5321-U2

Flexible Heating Jackets - for Gas Cylinders

- Modern Heating Technology - heats quickly and uniform
- Great for controlling viscosity and flow control
- Ability to operate in a range of temps (-40°F to +104°F)
- All units are thermostatically controlled
- High-grade thermal insulation to reduce heat loss and increase efficiency while providing protection for the operator.
- Safe to use 24/7 - Fit and forget, no regular maintenance required
- Fitted with NEMA 1-15P plug
- Fitted with adjustable retaining straps and quick-release buckles
- Choose between a low and a high-power version for use in ordinary or hazardous Areas (C1D2)

Usage	Ordinary Locations		Hazardous Areas C1D2	
Adjustable Circumference [in]	27 - 33			
Height [in]	48			
Voltage	120 V			
Power [W]	500	800	500	800
Primary Thermostat	Fixed 122 °F	32-194 °F	Fixed 122 °F	Fixed 158 °F
Secondary Thermostat	—	—	Fixed 158 °F	Fixed 194 °F
Shipping Weight [lbs]	8 lbs	8 lbs	8 lbs	8 lbs
Order number	M51-5615-U2	M51-5616-U2	M51-5629-U2	M51-5630-U2



Heating Jackets for Gas Cylinder, use in Ordinary or Hazardous Areas (C1D2)

High-Quality Induction Heating Units are suitable for nearly all heating applications. These super-efficient Heaters do not contact the drum. Induction heaters use a single coil within the cylinder's wall, made from a glass-reinforced resin. The coil generates heat uniformly around the container wall.

Faratherm Base Heater

- Induction heating with no radiant elements and no moving parts, so no maintenance (IP66 hose rating)
- Can be used on its own as a free-standing heating plate for drums
- Use Faratherm together with THERMOSAFE to save up to 40% time reduction when melting solids together
- Safe to use with steel or plastic drums, up to 55 gallons



Order no. M51-5633-U2

Thermosafe Induction Heaters

- Super-efficient drum heater that provides fast uniform heating
- Fast melting of solids and heating of liquids
- Allows mixing and dispensing while heating
- For 55 gallon drums or smaller steel containers
- Simply place the heater over the drum
- Runs on single-phase 120 or 240V, 50/60 Hz AC power, direct-wire



Order no. M51-5632-U2

Controller BF400A, 120 or 240 VAC

- Uniquely designed for use with the Induction heaters
- Burst firing controller enabling adjustment of heater output (0-100%)
- Selecting 50% will ensure the heater is on for 50% of the time (for example) on for 30 seconds and off for 30 seconds), therefore reducing the maximum drum temperature
- Whilst the Controller must be situated in a safe area, the THERMOSAFE® heater can still be operated in a hazardous area
- Integrated 25A mcb for circuit protection



Controller BF400A, 120 VAC
Order no. M51-5635-U2
Controller BF400A, 240 VAC
Order no. M51-5638-U2

Temperature Controller Prox-ATEX

Safe for use in hazardous locations
- Adjust ALL settings inside the hazardous area either by push buttons or via non-contact secure NFC cards. Two NFC cards are supplied pre-programmed with the user's settings.

- ETL approved to UL and CSA standards for use of Thermosafe and Faratherm Heaters in hazardous areas.
- Digital display to show measured values and other parameters
- Lock function with a password to ensure settings remain unchanged
- Adjustable timers for delayed start, and soak period
- Setpoint offset & Hysteresis adjustment for custom control environments



Temperature Controller,
Order no.

Temperature Controller 25A
Order no.



Approvals: North American Hazardous Area Markings: Class I Zone 1 Atex e IIC 170°C (T3) Gb, Class I Zone 1 Ex e IIC 170°C (T3) Gb, THERMOSAFE™ conforms to UL Std. 60079-0, UL Std. 60079-7, ANSI/UL Std. 499. Cert to CAN/CSA Std. C22.2 No.60079-0, CAN/CSA C22.2, No.60079-7. CAN/CSA C22.2 No 88, Class II Appliances "double insulated", no earth required



Thermosafe Heater Type A,
Order no. M51-5631-U2



Perfect Combination - Image shows Faratherm Base Heater plus
Thermosafe Heater Type A and an insulated rigid Top Hat

Description	Base Heater	Immersion Heater	Immersion Heater
Dimensions L x D x H	29.3 x 29.3 x 4	29.3 x 29.3 x 17	29.3 x 29.3 x 28
Power [W]	500	1,500	2,750
Voltage	240 V	120 V	240 V
Diameter Intern [in]	22	24	24
Shipping Weight [lbs]	75	90	165
Order number	M51-5633-U2	M51-5632-U2	M51-5631-U2

Optional Accessory

Rigid Top Hat

- Glass Fiber-reinforced plastic hood
- Additional protection against heat loss
- Approved for use in hazardous areas

Order no. M51-5652-U2



Lifting Frame

- For easy lifting of Thermosafe Heaters above a drum

Order no. M51-5651-U2



Fork Lift Attachment

- For easy lifting of Thermosafe Heaters above a drum by using a forklift or an AGV (Automated Guided Vehicle)

Order no. M51-5650-U2





Wet-area Insulator for 55-gal Drums,
Top Cover please order separately

Wet-Area Insulators

Wet-Area Insulators are a perfect addition to immersion heater. The result is an effective heating system. Performance tests show that the immersion heater when coupled with a Wet-Area Insulator, heats four times as fast as most of standard wrap-around heaters.

- Designed for Indoor/Outdoor or washdown locations
- Material: Extra Durable Polyester Cloth
- Ingress Protection Rating: IP54

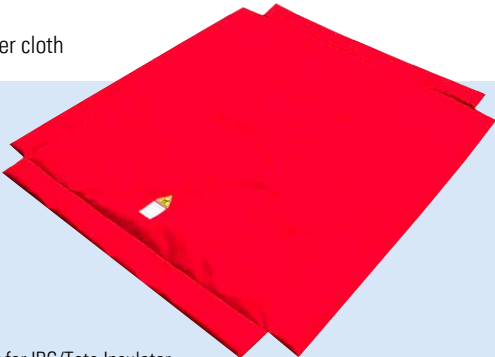


Wet-area Insulator for different
types of IBC totes, Top Cover
please order separately

Suitable for	for Drums, 55 gal	for Totes 175-250 gal	for Totes 275 gal	for Totes 330 gal
Height [in]	34	36	42	48
min. Circumference in	—	160	160	160
max. Circumference in	23	192	192	192
Order number	M51-5316-U2	M51-5400-U2	M51-5391-U2	M51-5392-U2

Insulated Top Covers

- Water resistant design for indoor/outdoor use and in wash-down environments
- Cloth Material: Extra-durable polyester cloth



Top cover for IBC/Tote Insulator
Order no. M51-5396-U2



Top cover for Drum Insulator
Order no. M51-5343-U2

Waterproof Cover for Drums and IBC-Totes

Our PVC heavy-duty Covers provide waterproof protection for the standard Flexible Heating Jackets where a customer's drum or IBC-tote is positioned outside, open to direct rain, or in a potentially wet environment, such as wash-down areas inside a food processing plant.



	Drum Cover	Cover for IBC-Totes	
Usage	for 55-gal Drums	for 275-gal Totes	for 330-gal Totes
Color	Green	Orange	Orange
Shipping Weight [lbs]	6.0	15.0	16.5
Order number	M51-5653-U2	M51-5654-U2	M51-5655-U2

Immersion Heaters

Immersion Heaters are easy to install, delivers 1,000/1,500 watts for maximum heat, have a built-in digital controller for easy programming, and a 10 ft (3 m) cord and plug for simple plug-and-play operation. Additionally, the superalloy Incoloy 840 heater will not corrode or contaminate the product, is grounded, and includes a 180°F (82°C) high-limit cut-off for safety and peace of mind. Incoloy 840 is also suitable for use with food ingredients. The Immersion Heaters can be paired with Wet-area Insulators for even better thermal performance. Both are suitable for use in wet or washdown environments.

- Improves the flow of highly viscous solutions and is also ideal for non-acidic materials
- Maximum thermal efficiency — Twice the heat-up rate compared to most of the standard wrap-around heaters
- Easy installation/universal fit — Screws directly into top of drums/tanks
- Adjustable control
- Grounded for safety
- Flange Connection Type: 2 in (51 mm) NPS Bushing - Adapter included
- Temperature Display: 3-digit digital
- Heater Construction: Incoloy 840
- Controller Ingress Protection Rating: IP55
- Accuracy: 0.2°F (0.1°C)
- Alarm: High-limit visual at 180°F (82°C)
- Power Cord: 10 ft (3 m) long
120V includes a standard 3-prong plug (NEMA 5-15)
240V includes bare wire leads



Suitable for	for 55-gal Drums			for IBC Totes	
Voltage	120	240	240	120	240
Power [W]	1,000	1,000	1,000	1,500	1,500
Heating Capacity_Size	167F	167°F	67°C	167°F	167°F
Immersion Depth [in]	32	32	32	34	34
Order number	M51-5313-U2	M51-5314-U2	M51-5315-U2	M51-5311-U2	M51-5312-U2

4



Small leaks or spills are more than housekeeping issues; they are a liability. Be prepared for any unexpected spills with absorbents, spill kits, stormwater management, and leak protection products. Quickly contain and clear clean-up accidents before they become serious problems.

Spill and Leak Response

219 Absorbents

223 Emergency Spill Kits

230 Drain and Stormwater
Management

232 Drain Plugs and Leak
Protection

234 Containment Pools & Berms



Resistance List for Absorbent Materials

Chemical	OIL-ONLY	UNIVERSAL	HAZMAT	Chemical	OIL-ONLY	UNIVERSAL	HAZMAT	Chemical	OIL-ONLY	UNIVERSAL	HAZMAT
Acetaldehyde		•	•	Dimethyl Sulfoxide	•	•	•	Methyl Ethyl Ketone	•	•	•
Acetic Acid			•	Diocetyl Phthalate	•	•	•	Methyl Isobutyl Ketone	•	•	•
Acetone	•	•	•	Ether	•	•	•	Methyl Methacrylate	•	•	•
Acetyl Chloride		•	•	Ethyl Acetate	•	•	•	Methylene Bromide	•	•	•
Acrylic Acid			•	Ethyl Alcohol	•	•	•	Mineral Oil	•	•	•
Allyl Alcohol		•	•	Ethyl Benzene	•	•	•	Mineral Spirits	•	•	•
Aminobenzoic Acid			•	Ethyl Chloride	•	•	•	Monoethanolamides	•	•	•
Ammonia (Anhydrous)	•	•	•	Ethyl Ether	•	•	•	Morpholine	•	•	•
Ammonium Fluoride	•	•	•	Ethyl Propionate	•	•	•	Motor Oil	•	•	•
Ammonium Hydroxide	•	•	•	Ethylene Dichloride	•	•	•	Naphta	•	•	•
Amyl Alcohol		•	•	Ethylene Glycol		•	•	Naphthalene	•	•	•
Aniline		•	•	Formaldehyde		•	•	Nitric Acid		•	•
Aviation Fuel	•	•	•	Formic Acid		•	•	Nitromethane	•	•	•
Benzaldehyde	•	•	•	Freon	•	•	•	Octane	•	•	•
Benzene	•	•	•	Fuel Oil	•	•	•	Oleic Acid	•	•	•
Benzoic Acid	•	•	•	Furfural	•	•	•	Paraffin	•	•	•
Benzyl Alcohol		•	•	Gasoline	•	•	•	Perchloroethylene	•	•	•
Boric Acid		•	•	Gearbox Oil	•	•	•	Phenol		•	•
Brake Fluid	•	•	•	Glycerol		•	•	Phosphoric Acid		•	•
Bromine Inorganic	•	•	•	Hexane	•	•	•	Potassium Hydroxide		•	•
Butyl Acetate	•	•	•	Hydrazine		•	•	Propanol		•	•
Butyl Alcohol	•	•	•	Hydrochloric Acid		•	•	Propionic Acid	•	•	•
Butyl Cellosolve	•	•	•	Hydrofluoric Acid		•	•	Propyl Alcohol	•	•	•
Calcium Hydroxide		•	•	Hydroquinone	•	•	•	Propylene Glycol	•	•	•
Carbolic Acid			•	Hydrogen Cyanide	•	•	•	Resorcinol		•	•
Carbon Disulphide		•	•	Hydrogen Peroxide		•	•	Silicone Oil	•	•	•
Carbon Tetrachloride	•	•	•	Isoamyl Acetate	•	•	•	Silver Nitrate		•	•
Cellosolve Acetate	•	•	•	Isobutyl Alcohol	•	•	•	Sodium Bicarbonate		•	•
Cellosolve Solvent	•	•	•	Isooctane	•	•	•	Sodium Chloride		•	•
Chlorobenzene		•	•	Isopropyl Acetate	•	•	•	Sodium Hydroxide		•	•
Chloroform	•	•	•	Isopropyl Alcohol	•	•	•	Sodium Hypochlorite		•	•
Chloronaphtalene	•	•	•	Kerosene	•	•	•	Sodium Nitrate		•	•
Chloroethene	•	•	•	Ketones	•	•	•	Styrene	•	•	•
Chromic Acid (50%)			•	Linoleic Acid			•	Sulphuric Acid		•	•
Citric Acid			•	Linseed Oil	•	•	•	Toluene	•	•	•
Cresol	•	•	•	Lubricating Oil	•	•	•	Transformer Oil	•	•	•
Cyclohexane	•	•	•	Methylamine	•	•	•	Trichloroethylene	•	•	•
Dibutyl Phthalate	•	•	•	Methyl Alcohol	•	•	•	Triethylene Glycol	•	•	•
Dimethylamine	•	•	•	Methyl Cellosolve	•	•	•	Turpentine	•	•	•
Diethyl Ether	•	•	•	Methyl Chloride	•	•	•	Xylene	•	•	•
Dimethyl Formamide	•	•	•	Methyl Ether	•	•	•				

Note:

This compatibility list applies to all polypropylene sorbents. The compatibility of DENSORB sorbents was tested for a variety of chemicals. Due to uncontrollable factors we cannot guarantee 100% absorbency. For your safety we recommend the implementation of compatibility and testing of your chemicals with DENSORB sorbents before buying. If you have questions, please call free at: 800-216-7776

Use Pads for nearly any general-purpose industrial or commercial cleanup. These polypropylene sorbents will soak up both oil and water-based non-aggressive liquids. Use these for routine maintenance and repair work wherever spills, drips, or leaks are likely to occur.

Oil-Only Absorbent Pads

- Specifically coated fibers to absorb oils, fuels, and other hydrocarbons while repelling water
- Use Heavy Weight for larger volume spills
- Available as rectangular pads or as round drum top, Pre-cut in 22" diameters for 55-gallon drums incl. cut-out hole for 2" bung opening

Version	Oil-Only		
Design	Medium Weight	Heavy Weight	Drum Top Pads
External Dimensions W x D (in)	19 x 15	19 x 15	—
Pack contents	100 pcs	100 pcs	25 pcs
Absorption Capacity [gal/unit]	20.0	26.0	8.6
Shipping Weight [lbs]	11	13	7
Order number	M28-6220-U2	M28-6222-U2	M28-6290-U2



Universal Absorbent Pads

- Soak up both oil and water-based, non-aggressive liquids
- Use for routine maintenance and repair work wherever spills, drips, or leaks are likely to occur
- Choose a single weight for small jobs or extra weight for large volumes
- Pads are perforated to provide a convenient selection of the proper amount of material
- The dark color is perfect for concealing dirt and grime
- Available as rectangular pads or as round drum top, Pre-cut in 22" diameters for 55-gallon drums incl. cut-out hole for bung opening

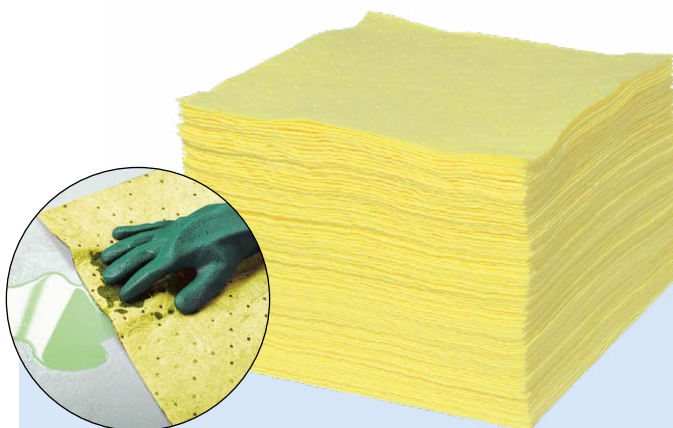
Version	Universal		
Design	Medium Weight	Heavy Weight	Drum Top Pads
External Dimensions W x D (in)	19 x 15	19 x 15	—
Pack contents	100 pcs	100 pcs	25 pcs
Absorption Capacity [gal/unit]	20.0	26.0	8.6
Shipping Weight [lbs]	11	13	7
Order number	M28-6120-U2	M28-6122-U2	M28-6190-U2



HazMat Absorbents Pads

- Sonic bonded absorbent pads are resistant to a wide range of chemicals including both acidic and basic liquids
- Quickly absorb liquids that are water-based or oil-based
- Special bonded technology provides highly efficient absorbency as well as tough, tear resistant construction
- Absorption efficiency guarantees great value
- Minimizes waste by absorbing up to 16 times its own weight

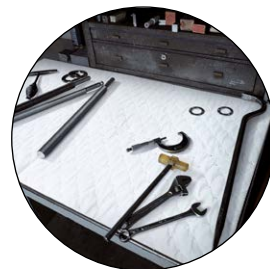
Version	HazMat	
Design	Medium Weight	Heavy Weight
External Dimensions W x D (in)	19 x 15	19 x 15
Pack contents	100 pcs	100 pcs
Absorption Capacity [gal/unit]	24.0	29.0
Shipping Weight [lbs]	11	13
Order number	M28-6322-U2	M28-6324-U2





Oil-Only Absorbent Rolls

- Specifically coated fibers to absorb oils, fuels, and other hydrocarbons while repelling water
- Use Heavy Weight for larger volume spills
- Rolls are perforated horizontally every 12"



Version	Oil-Only			
	Medium Weight		Heavy Weight	
Rolls	15 x 150		30 x 150	
Overall Dimensions W x L (in/ft)	15 x 150		30 x 150	
Pack contents	2 pcs		1 pcs	
Absorption Capacity [gal/unit]	40		50	
Shipping Weight [lbs]	21		26	
Order number	M28-6202-U2	M28-6204-U2	M28-6206-U2	M28-6208-U2



Universal Absorbent Rolls

- Soak up both oil and water-based, non-aggressive liquids
- Use for routine maintenance and repair work wherever spills, drips, or leaks are likely to occur
- Choose a single weight for small jobs or extra weight for large volumes
- Rolls are perforated to provide a convenient selection of the proper amount of material
- The gray color is perfect for concealing dirt and grime

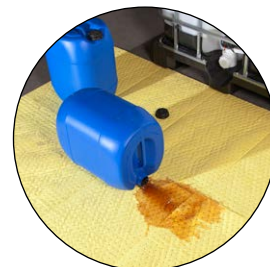


Version	Universal			
	Medium Weight		Heavy Weight	
Rolls	15 x 150		30 x 150	
Overall Dimensions W x L (in/ft)	15 x 150		30 x 150	
Pack contents	2 pcs		1 pcs	
Absorption Capacity [gal/unit]	40		50	
Shipping Weight [lbs]	21		26	
Order number	M28-6102-U2	M28-6104-U2	M28-6106-U2	M28-6108-U2



HazMat Absorbent Rolls

- Sonic bonded absorbent rolls are resistant to a wide range of chemicals including both acidic and basic liquids
- Quickly absorb liquids that are water-based or oil-based
- Special bonded technology provides highly efficient absorbency as well as tough, tear-resistant construction
- Absorption efficiency guarantees great value
- Minimizes waste by absorbing up to 16 times its own weight

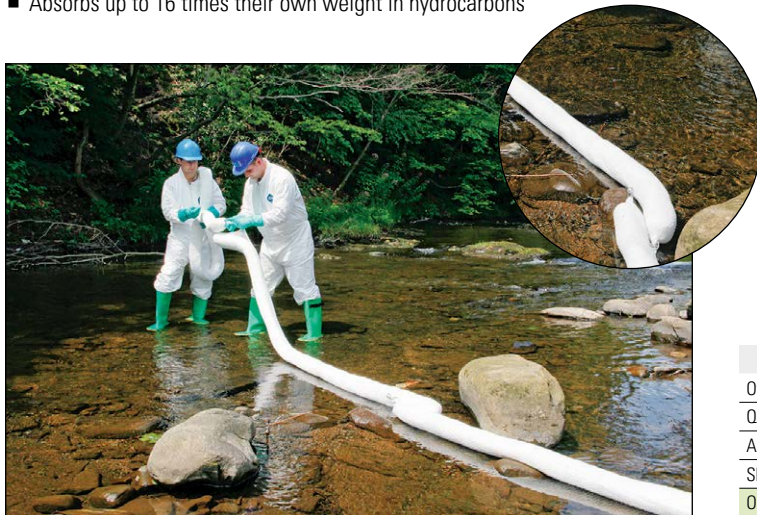


Version	HazMat		
	Medium Weight	Heavy Weight	
Rolls	30 x 150	15 x 150	
Overall Dimensions W x L (in/ft)	30 x 150	15 x 150	
Pack contents	1 pcs	2 pcs	
Absorption Capacity [gal/unit]	46	55	
Shipping Weight [lbs]	21	26	
Order number	M28-6304-U2	M28-6306-U2	M28-6308-U2

Oil-Only Absorbent Booms

Oil-Only Absorbent Booms are heavy-duty, water-repelling absorbents designed to capture and hold oil-based liquids spilled or deposited into waterways.

- Booms will continue to float even when fully saturated
- Sorbent material encased in a strong nylon webbing
- Hooks are provided allowing booms to be joined and strung together in any length required
- Absorbs up to 16 times their own weight in hydrocarbons



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» Expert advice: 800-216-7776

	Oil-Only		
Overall Dimensions Dia x L (in/ft)	5 x 10	8 x 10	8 x 20
Quantity per Pack	4	4	2
Absorption Capacity	30	38	38
Shipping Weight [lbs]	22	32	32
Order number	M28-6256-U2	M28-6252-U2	M28-6254-U2

Absorbent Pillows

Pillows provide a high absorption capacity in a compact space. Use to contain drips from machinery in hard-to-reach areas, or to quickly absorb large spills.

- Pillows Absorb Fluids in Tight Spaces



Absorbent Pillows "Universal"

Absorbent Pillows "Oil-Only"

Absorbent Pillows "HazMat"

	Universal		Oil-Only		HazMat	
External Dimensions W x D (in)	8 x 18	18 x 18	8 x 18	18 x 18	8 x 18	18 x 18
Quantity per Pack	20	10	20	10	20	10
Shipping Weight [lbs]	11	12	11	12	11	12
Sorbent Capacity [gal/pkg]	26	29	26	29	26	29
Order number	M28-6132-U2	M28-6134-U2	M28-6232-U2	M28-6234-U2	M28-6332-U2	M28-6334-U2



Universal Absorbents Socks

Universal Socks for use in most liquid cleanup jobs where aggressive chemicals are not likely to be encountered.

- Provide easy spill cleanup for jobs where aggressive chemicals are not likely to be encountered
- Socks absorb oils, coolants, solvents, and water
- Use wherever you have a variety of spills and only want to stock one sock to cover everything
- Socks easily mold to almost any shape

Version	Universal		
Overall Dimensions Dia x L (in/ft)	3 x 4	3 x 8	3 x 12
Pack contents	30 pcs	15 pcs	10 pcs
Absorption Capacity [gal/unit]	25	25	25
Shipping Weight [lbs]	30	30	30
Order number	M28-6142-U2	M28-6140-U2	M28-6144-U2

Oil-Only Absorbents Socks

Oil-Only Socks are especially designed to quickly wick oil-based liquids and fuels.

- Specially designed to quickly wick oil-based liquids and fuels
- Perfect for outdoor placement to absorb hydrocarbons without becoming saturated with rainwater



Version	Oil-Only		
Overall Dimensions Dia x L (in/ft)	3 x 8	3 x 4	3 x 12
Pack contents	15 pcs	30 pcs	10 pcs
Absorption Capacity [gal/unit]	25	25	25
Shipping Weight [lbs]	30	30	30
Order number	M28-6240-U2	M28-6242-U2	M28-6244-U2



HazMat Absorbents Socks

HazMat Socks are suited for absorbing acids, bases, and other aggressive liquids. They are also able to be used for oil or water-based spills.

- Excellent for quickly containing spills
- Great for using on spills of unknown chemicals



Design	—
External dimensions W x D x H [mm]	—
Order number	M28-6344-U2 M28-6342-U2 M28-6346-U2



Spill Cart

These mobile spill carts can access a spill site quickly and easily. Stored sorbents can absorb up to 124 gallons.

- These mobile emergency carts can access a spill site quickly and easily
- 31" width fits easily in aisles and doorways
- 5" wheels are great for indoor/smooth surfaces
- Can also be moved with a forklift
- Lockable to protect contents
- Available in Universal, HazMat, and Oil-Only



React to spills quickly and safely with our Emergency Spill Kits.



Spill Cart Oil-Only
Order no. M28-1860-U2



Spill Cart Universal
Order no. M28-1864-U2



Spill Cart HazMat
Order no. M28-1868-U2

Model	Absorbent Spill Cart		
Version	Universal	Oil-Only	HazMat
Contents	Each Cart Includes: 160 Pads - 15" x 19' 30 Socks - 3" x 4' 10 Socks - 3" x 8' 112 Wipers 4 Disposal Bags and Ties 1 Emergency Response Book 1 Pair of Nitrile Gloves 1 Pair of Safety Goggles		
External Dimensions W x D x H (in)	48 x 31 x 38		
Absorption Capacity [gal/unit]	104	110	86
Shipping Weight	204	205	185
Order number	M28-1864-U2	M28-1860-U2	M28-1868-U2
Accessories	Refills		
Order number	M28-1865-U2	M28-1861-U2	M28-1869-U2

Portable Sorbent Caddies

These Emergency Spill Kits can be brought quickly to the scene of the leak. The range consists of socks for containment as well as mats/rolls and cushions for absorbing leaked fluid. Personal protection equipment for use at the site of the incident such as safety goggles and gloves complete the set.

- Contain high-quality absorbent materials
- These wheeled Spill Kits make spill response quick, while interior shelves and easy-view compartments keep supplies at hand and organized
- Lockable for added safety
- Functional Caddy for easy, quick maneuverability
- Caddies are available in 3 different dimensions
- Choose between a content with:
Oil Only, Universal or HazMat for aggressive chemicals



i React to spills quickly and safely with our Emergency Spill Kits.



Portable Absorbent Caddy, filled with HazMat Absorbents



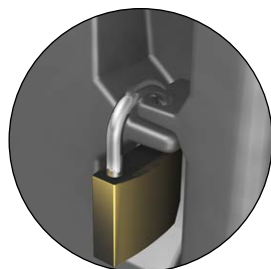
Portable Absorbent Caddy, filled with Universal Absorbents

Model	Portable Absorbent Spill Caddy		
Contents	100 Pads - 11" x 13"		
	6 Socks - 3" x 4'		
	4 Pillows - 8" x 18"		
	1 Pair of Safety Goggles		
	1 Pair of Nitrile Gloves		
Version	3 Disposal Bags and Ties		
	1- 7" Epoxy Stick		
	1- 6" Light Stick		
	1 Emergency Response Book		
	Oil-Only	Universal	HazMat
External Dimensions W x D x H (ft)	1.67 x 1.67 x 3.33	1.67 x 1.67 x 3.33	1.67 x 1.67 x 3.33
Absorption Capacity [gal/unit]	28	30	28
Shipping Weight [lbs]	56	56	56
Order number	M28-1830-U2	M28-1835-U2	M28-1839-U2
Accessories	Refills		
Order number	M28-1833-U2	M28-1837-U2	M28-1841-U2

Spill and Leak Response



Large, wide-opening door for efficient access to the absorbent materials



Caddy MEDIUM is prepared to receive a padlock or seal, protecting against unauthorized access



Caddy MEDIUM comes together with a Warning Sign



Ergonomic handle can be gripped safely even when wearing protective gloves and optimizes maneuverability

Emergency sets in three designs:

OIL	Absorbs oil and repels water
UNIVERSAL	Universally applicable, absorbs oil, water & other chemicals
SPECIAL	For acids, alkalis, and chemicals

Model	Portable Absorbent Spill Caddy EXTRA LARGE			Portable Absorbent Spill Caddy MEDIUM		
Contents	1 Roll - 295 ft x 15" 12 Socks - 47 x 3" 6 Pillows - 9.9 x 9.9" 1 Sack with Granulate 18 lbs 1 Shovel 1 Pair of Safety Goggles 2 Pair of Safety Gloves 10 Disposal Bags			1 Roll - 148 ft x 15" 7 Socks - 47 x 3" 2 Pillows - 9.9 x 9.9" 1 Sack with Granulate 18 lbs 1 Shovel 1 Pair of Safety Goggles 2 Pair of Safety Gloves, 10 Disposal Bags 25 Wipers - 38 x 39" 1 Warning Sign		
Spill Control Transport	Oil-Only	Universal	HazMat	Oil-Only	Universal	HazMat
External Dimensions (vent hoods included) W x D x H (ft)	2.68 x 2.3 x 4.27	2.68 x 2.3 x 4.27	2.68 x 2.3 x 4.27	1.93 x 2.02 x 3.58	1.93 x 2.02 x 3.58	1.93 x 2.02 x 3.58
Absorption Capacity [gal/unit]	190	188	187	102	100	100
Shipping Weight [lbs]	155	155	155	142	142	142
Order number	M28-1832-U2	M28-1836-U2	M28-1840-U2	M28-2032-U2	M28-2036-U2	M28-2040-U2
Accessories	Refills					
Order number	M28-1932-U2	M28-1936-U2	M28-1940-U2	M28-2132-U2	M28-2136-U2	M28-2140-U2

5-Gallon Spill Kits

- Respond to small and remote spills quickly, safely, and effectively with our 5-Gallon Spill Kit
- Contents pre-packed in a DOT-approved 5-Gallon Overpack (UN 1H2/Y1.5/30) for transporting liquid

Contents:

10 Pads - 15" x 19"
2 Socks - 3" x 4"
1 Pair of Safety Goggles
1 Pair of Nitrile Gloves
1 Disposal Bags and Ties

	5-Gallon Spill Kit		
Version	Universal	Oil-Only	HazMat
Absorption Capacity [gal]	5.2	5.2	5.2
External Dimensions Dia x H (in)	12 x 16.8	12 x 16.8	12 x 16.8
Shipping Weight [lbs]	12	12	12
Order number	M28-1602-U2	M28-1605-U2	M28-1608-U2



5-Gallon Spill Kit
Order no. M28-1602-U2



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10-Gallon Spill Kits

- Respond to spills with this 10-Gallon Spill Kit
- White lid with plastic lever-lock band closure
- Yellow blow-molded, high-density polyethylene drum with UV inhibitors
- Durable, the lightweight kit is weather and chemical resistant
- Available in Universal, HazMat, and Oil-Only

Contents:

20 - 15" X 19" Gray Universal Defender Pads
3 - 3" x 4' Gray Universal Sorbent Socks
1 - 8" X 18" Gray Universal Sorbent Pillow
2 - 18" X 6" X 30" Yellow Disposal Bags & Ties
1 - Pair Nitrile Gloves
1 - Safety Goggles
1 - 3" X 5" Vinyl Spill Kit Label
1 - 15" X 18.3" Yellow 10 Gallon Drum
1 - 6" X 2" Tamper-proof Seals

Model	10-Gallon Spill Kit		
Version	Universal	HazMat	Oil Only
External Dimensions Dia x H (in)	15 x 18.3	15 x 18.3	15 x 18.3
Absorption Capacity [gal/unit]	11	10	10
Shipping Weight [lbs]	15	15	15
Order number	M28-1607-U2	M28-1650-U2	M28-1669-U2
Accessories	Refills		
Order number	M28-1600-U2	M28-1636-U2	M28-1666-U2



10-Gallon Spill Kit "Hazmat"
Order no. M28-1650-U2

10-Gallon Spill Kit "Universal"
Order no. M28-1607-U2



10-Gallon Spill Kit "Oil Only"
Order no. M28-1669-U2

20-Gallon Spill Kits

- Lever Lock Poly Ring ensures sealed and secure closure to protect sorbents from moisture, dirt, and damage
- Rust and corrosion-free 100% polyethylene is durable to withstand rough handling
- Available in Universal, HazMat, and Oil-Only

Contents:

25 Pads - 15" x 19"
 4 Socks - 3" x 8"
 2 Pillows - 18" x 18"
 1 Pair of Safety Goggles
 1 Pair of Nitrile Gloves
 2 Disposal Bags and Ties

Model	20-Gallon Spill Kit		
Version	Universal	Oil-Only	HazMat
External Dimensions Dia x H (in)	23 x 19.5	23 x 19.5	23 x 19.5
Absorption Capacity [gal/unit]	17	16	16
Shipping Weight [lbs]	24	24	24
Order number	M28-1620-U2	M28-1623-U2	M28-1626-U2
Accessories	Refills		
Order number	M28-1622-U2	M28-1624-U2	M28-1628-U2



30-Gallon Spill Kits

- Lever Lock Poly Ring ensures sealed and secure closure to protect sorbents from moisture, dirt, and damage
- Rust and corrosion-free 100% polyethylene is durable to withstand rough handling
- Available in Universal, HazMat, and Oil-Only

Contents:

25 Pads - 15" x 19"
 4 Socks - 3" x 8"
 4 Pillows - 18" x 18"
 1 Pair of Safety Goggles
 1 Pair of Nitrile Gloves
 3 Disposal Bags and Ties
 1 Emergency Response Book

Model	30-Gallon Spill Kit		
Version	Universal	Oil-Only	HazMat
External Dimensions Dia x H (in)	23 x 30	23 x 30	23 x 30
Absorption Capacity [gal/unit]	26	24	24
Shipping Weight [lbs]	34	34	33
Order number	M28-1630-U2	M28-1634-U2	M28-1638-U2
Accessories	Refills		
Order number	M28-1631-U2	M28-1635-U2	M28-1637-U2

Emergency sets in three designs:	
OIL	Absorbs oil and repels water
UNIVERSAL	Universally applicable, absorbs oil, water & other chemicals
SPECIAL	For acids, alkalis, and chemicals





50-Gallon Transportable Drum Overpack & Spill Kits

Built-in handle and wheels make transporting the kit to the spill quick and easy. Overpack is UN and DOT approved.

- Contains everything necessary to clean up a spill quickly and efficiently as well as provides an overpack for convenient and compliant disposal
- Contents are pre-packed in X-rated DOT-approved overpack (UN 1H2/X200/S)
- Available in Universal, HazMat, and Oil-Only

Contents:

100- 15" x 19" Pads
6- 3" x 4' Socks
4- 18" x 18" Pillows
1 Pair of Safety Goggles
2 Pair of Nitrile Gloves
3 Disposal Bags and Ties
1 7" Epoxy Putty Stick
1 6" Light Stick
1 Emergency Response Book

Emergency sets in three designs:

OIL	Absorbs oil and repels water
UNIVERSAL	Universally applicable, absorbs oil, water & other chemicals
SPECIAL	For acids, alkalis, and chemicals

55-Gallon Drum Overpack & Spill Kits

It's important to have the right sorbents on-hand when these spills occur to eliminate the slip-and-fall hazard immediately. A quick response is the first order of business and your best weapon in the fight against spills. This Spill Kit includes a variety of sorbents; pre-packed in an X-rated DOT-approved 55-Gallon Open Head Drum with Lever Lock.

- Lever Lock Poly Ring ensures sealed and secure closure to protect sorbents from moisture, dirt, and damage
- Rust and corrosion-free 100% polyethylene is durable to withstand rough handling
- Available in Universal, HazMat, and Oil-Only

Contents:

100 Pads 15" x 19"
10 Socks 3" x 4'
5 Pillows 18" x 18"
2 Nitrile Gloves One Size
4 Yellow Temporary Disposal Bags & Ties 30" x 6" x 60"
1 Emergency Guidebook One Size
6 Tamper Proof Seals 6" x 2"
1 Vinyl Spill Kit Label 3" x 5"
1 Yellow 55-Gallon Drum with plastic lever lock Lid (UN 1H2/X100/S and 1H2/Y100/S)

	50-Gallon Transportable Spill Kit		
Version	Universal	Oil-Only	HazMat
External Dimensions Dia x H (in)	28.8 x 45.5	28.8 x 45.5	28.8 x 45.5
Absorption Capacity [gal/unit]	44	44	44
Shipping Weight [lbs]	74	74	74
Order number	M28-1842-U2	M28-1846-U2	M28-1855-U2
	Refills		
Order number	M28-1851-U2	M28-1847-U2	M28-1856-U2



55 Gallon Drum Overpack & Spill Kit
Order no. M28-1612-U2\$

Version	HazMat	Universal	Oil-Only
External Dimensions Dia x H (in)	24 x 40	24 x 40	24 x 40
Absorption Capacity [gal/unit]	49	52	49
[lbs]	56	56	56
Order number	M28-1656-U2	M28-1612-U2	M28-1672-U2

65-Gallon Drum Overpack & Spill Kits

Tough, secure, and highly visible, this top-quality screw-topped overpack drum meets UN and DOT specifications.

- This Spill Kit contains everything necessary to clean up a spill quickly and efficiently as well as provides a 65 Gallon Overpack for convenient and compliant disposal
- Contents are pre-packed in X-rated DOT-approved 65-Gallon Overpack (UN 1H2/X200/S)
- Available in Universal, HazMat, and Oil-Only

Contents:

40 Pads - 15" x 19"
6 Socks - 3" x 8'
10 Socks - 3" x 4'
6 Pillows - 18" x 18"
2 Pair of Nitrile Gloves
3 Disposal Bags and Ties

Version	HazMat	Oil-Only	Universal
External Dimensions Dia x H (in)	28.3 x 37.4	28.3 x 37.4	28.3 x 37.4
Absorption Capacity [gal/unit]	44	44	51
Shipping Weight [lbs]	82	82	82
Order number	M28-1853-U2	M28-1852-U2	M28-1850-U2
Accessories	Refill		
Order number	M28-1646-U2	M28-1858-U2	M28-1857-U2



95-Gallon Drum Overpack & Spill Kits

Tough, secure, and highly visible, this top-quality screw-topped overpack drum meets UN and DOT specifications.

- This Overpack Spill Kit contains everything necessary to clean up a large spill quickly and efficiently as well as provides a 95 Gallon Overpack for convenient and compliant disposal
- Contents are pre-packed in X-rated DOT-approved 95-Gallon Overpack (UN 1H2/X295/S, UN 1H2T/Y295/S)
- Available in Universal, HazMat, and Oil-Only

Contents:

150 Pads - 15" x 19"
7 Pillows - 18" x 18"
12 Socks - 3" x 4'
6 Socks - 3" x 8'
3 Plugs and Dikes
4 Disposal Bags and Ties
1 Emergency Response Book
1 Pair of Safety Goggles
1 Pair of Nitrile Gloves

Version	HazMat	Universal	Oil-Only
External Dimensions Dia x H (in)	31.8 x 41.5	31.8 x 41.5	31.8 x 41.5
Absorption Capacity [gal/unit]	80	87	80
Shipping Weight [lbs]	106	106	106
Order number	M28-1659-U2	M28-1890-U2	M28-1892-U2
Accessories	Refill		
Order number	M28-1647-U2	M28-1893-U2	M28-1894-U2



Drain Covers

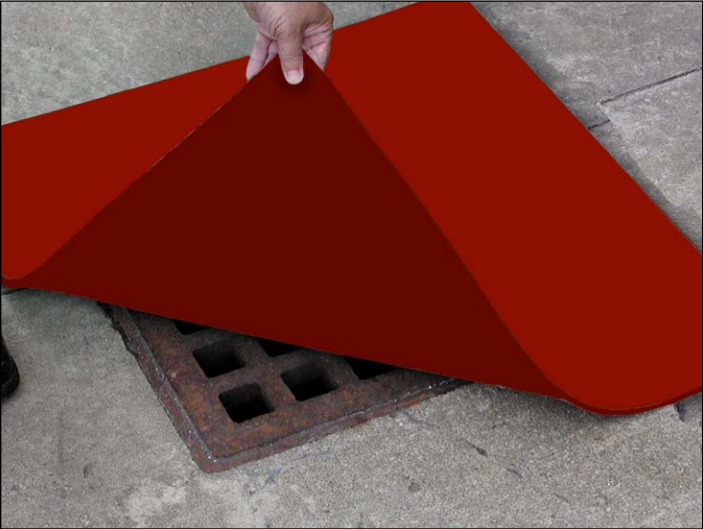
These products help your facility comply with federal and local regulations while avoiding costly fines and public relations issues. Prevent spills and leaks from reaching sanitary and/or storm sewers with our complete program of drain covers, plugs, and barriers.

- Easy to use in emergencies
- Seal drains tightly to prevent spills from entering floor drains
- Made of chemically resistant flexible polyurethane and resist water, oil, and most aggressive chemicals
- Clean up with soap and water and reuse



Just give us a call. We would be pleased to provide you with advice!

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Version	Square							
External Dimensions W x D (in)	18 x 18	24 x 24	36 x 36	42 x 42	48 x 48	54 x 54	60 x 18	60 x 36
Shipping Weight [lbs]	4	7	15	20	26	34	13	26
Order number	M28-5025-U2	M28-5030-U2	M28-5035-U2	M28-5040-U2	M28-5043-U2	M28-5045-U2	M28-5047-U2	M28-5049-U2



Version	Round			
External Diameter [in]	12	20	30	42
Shipping Weight [lbs]	6	6	6	6
Order number	M28-5052-U2	M28-5055-U2	M28-5058-U2	M28-5061-U2

Drain Berms



- Prevent spills and leaks from reaching sanitary water or storm sewers
- Prevent spills from reaching storm and other drains
- Flexible urethane conforms to rough surfaces providing a tight seal



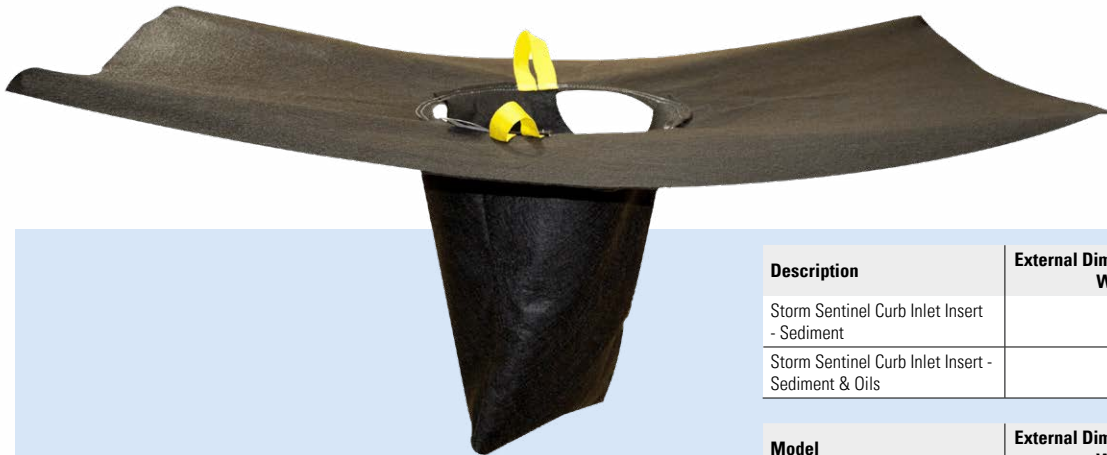
Version	Shipping Weight [lbs]	Order number
Drain Berm - 10 ft - black	30	M28-5072-U2
Drain Berm - 10 ft - orange	30	M28-5070-U2
Drain Berm - 90 degree corner - orange	3	M28-5076-U2
Drain Berm - Connector - black	2	M28-5077-U2

Frameless Drain Inserts

- Storm Sentinel catch basin inserts are the ideal products for preventing harmful pollutants from washing into storm drains
- This adjustable curb inlet model slides easily into place and fits curb openings from 24"-30" wide
- It is lightweight, easy to use, and helps companies conform to NPDES by

preventing contaminated sediment from entering stormwater systems

- Fits curb inlets 24"-30" wide
- Multiple sizes, models, and custom sizes are available
- No special tools are required for installation
- Sediment and Oils model that absorbs hydrocarbons



Frameless Drain Inserts - Sediment - Oils
Order no. M76-1176-U2

Description	External Dimensions W x D (in)	Shipping Weight [lbs]	Order number
Storm Sentinel Curb Inlet Insert - Sediment	30 x 30	2	M76-1625-U2
Storm Sentinel Curb Inlet Insert - Sediment & Oils	30 x 30	3	M76-1626-U2

Model	External Dimensions W x D (in)	Shipping Weight [lbs]	Order number
Frameless Drain Inserts	48 x 36	2.0	M76-1174-U2
	60 x 60	3.0	M76-1176-U2

Catch Basin Inserts

- Framed Storm Drain inserts are the ideal products for preventing harmful pollutants from washing into storm drains
- Framed model comes complete with an adjustable steel wire frame for simple, one-person installation and removal
- Sits below the grate, making it low-profile and unobtrusive
- Geotextile fabric prevents contaminated sediment from washing into the drain, protecting you from fines and fees



Order no. M76-1182-U2



Product Description	Shipping Weight [lbs]	Order number
Catch Basin Insert - Round - Sediment - 27 in to 29 in - 4340	2.0	M76-1005-U2
Catch Basin Insert - Square - Sediment - 16 in x 20 in - 28 in x 36 in - 4341	2.0	M76-1006-U2
Catch Basin Insert - Round - Sediment - 22 in to 24 in - Low-Profile - 4340-22	2.0	M76-1178-U2
Catch Basin Insert - Round - Sediment & Oils - 27 in to 29 in - Low-Profile - 4340-IB	2.0	M76-1179-U2
Catch Basin Insert - Round - Sediment & Oils - 22 in to 24 in - Low-Profile - 4340-22-IB	2.0	M76-1180-U2
Catch Basin Insert - Round - Sediment & Oils - 16 in x 20 in - 28 in x 36 in - 4341-IB	2.0	M76-1181-U2
Catch Basin Insert - Round - Sediment - 16 in x 20 in - 28 in x 36 in - No Overflow - 4341-NO	2.0	M76-1182-U2
Catch Basin Insert - Square - Sediment & Oils - 25 in x 25 in - 42 in x 42 in - 4343-IB	3.0	M76-1184-U2

Drain Plugs

- Prevent spills and leaks from reaching sanitary water or storm sewers with this 2" Drain Plug
- Conical shaped drain plugs are made of durable, chemical resistant PVC and designed with a "metal eye" for ease of insertion and removal
- For everyday use to keep spills and leaks from entering the drainage system, and during cleaning to prevent wastewater entry. Rinse and reuse

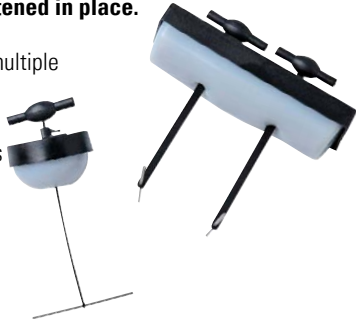


	Drain Plugs			
External Diameter [in]	2	3	4	6
Shipping Weight [lbs]	5.0	5.0	5.0	7.0
Order number	M28-5005-U2	M28-5007-U2	M28-5009-U2	M28-5011-U2

RuptureSeals

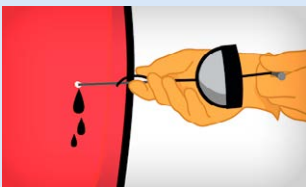
RuptureSeal™ is a line of quick and easy leak-stopping devices that is durable, easily deployed in seconds, and forms a secure mechanical seal that stops the leak for hours. Using newly patented technology, RuptureSeal™ can safely close breaches, minimize damage, help protect the environment, preserve health and safety, potentially save thousands of dollars through spill remediation, and save lives. Keep the RuptureSeal on hand in case you experience an emergency leak - experience up to ten hours of relief until a permanent fix is available. The industrial RuptureSeal is operated quickly by compressing a silicone pad into the rupture, just pull back easily on the handle and the seal becomes mechanically fastened in place.

- Designed to assist in stopping leaks from accidental ruptures in multiple environments
- Quick and easy to install, Deployment speed less than 20 seconds
- Mechanical seal to any ruptured surface



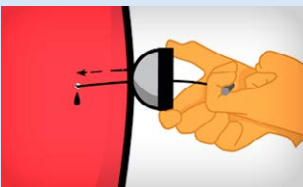
	Small	Medium	Large	3 Pack	Pipe Leak Plug - 3 Pack
Leak Diameter	1/8" - 1"	1/4" - 2"	1/4" x 4" - 2" x 6"	1 of each (Small, Medium, Large)	up to 3"
Order number	M28-0350-U2	M28-0351-U2	M28-0352-U2	M28-0353-U2	M28-0354-U2

How to use:



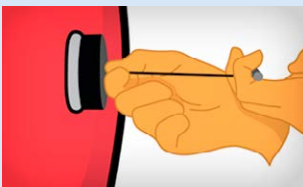
Step 1

Approach the rupture from the side, outside the path of the flow of liquid. Flip the pin so it is parallel with the nylon tie.



Step 2

Insert the pin into the rupture. Once the pin is in the rupture, quickly let go and drive the plug into the rupture, holding it in place to stop the flow of liquid.



Step 3

As you push the plug into the rupture, GENTLY pull on the handle. When the handle is fully extended and the clicking stops, the RuptureSeal is deployed.

Leak Diverters

- Protect your plant and employees with Leak Diverters
- High chemical resistance and durable design
- comes with a standard 3/4" drain to divert liquids to a safe spot
- Edges have grommets for proper positioning
- Bungee cords for securing in place included
- 10' and 25-leak-diverter-hose available
- Available in a wide variety of convenient sizes, Custom sizes are available



Leak Diverter - available in different designs and dimensions. Hoses 10 or 25 feet are available as an option.



18 inch Round-Leak Diverter

Version	Drop Ceiling Diverter	
Size	2 ft x 2 ft	2 ft x 4 ft
Shipping Weight [lbs]	2.0	5.0
Order number	M76-1622-U2	M76-1624-U2

Optional Accessory

- Safely lead spills away from work areas and into a containment unit with this clear plastic hose
- Comes with a standard 3/4 in. garden hose fitting and is also available in 10 or 25 foot sections.

Hose, 10 ft.,
Order no. M76-1206-U2
Hose, 25 ft.,
Order no. M76-1207-U2

Version	Leak Diverter - Round Format	Leak Diverter - Square Format												
Container Size	18 in	3 ft x 3 ft	3 ft x 6 ft	3 ft x 10 ft	5 ft x 5 ft	5 ft x 5 ft	6 ft x 10 ft	6 ft x 12 ft	10 ft x 10 ft	10 ft x 12 ft	12 ft x 12 ft	12 ft x 20 ft	18 ft x 18 ft	24 ft x 24 ft
Shipping Weight [lbs]	2.0	2.0	4.0	6.0	2.0	6.0	5.0	14.0	9.0	8.0	12.0	19.0	27.0	47.0
Order number	M76-1208-U2	M76-1193-U2	M76-1194-U2	M76-1195-U2	M76-1196-U2	M76-1197-U2	M76-1198-U2	M76-1199-U2	M76-1628-U2	M76-1200-U2	M76-1201-U2	M76-1202-U2	M76-1203-U2	M76-1204-U2



Duck Ponds

Small enough to fit in a cabinet or store on a shelf, a Duck Pond can hold various drum sizes with ease and affordability. Providing both reliable and reusable secondary containment for oils, fluids, and gasoline; ponds are easy to maneuver and can withstand extremely cold temperatures to -55°F/-48°C. Great for indoor and outdoor applications. Duck Ponds 100% are leak tested.

- Quick response to leaking machines/vehicles
- Spill/leak protection while changing oils/fluids
- Protecting bottom surfaces while dispensing
- Performing maintenance on any item that has a spill potential
- 4" Foam sidewalls can handle vehicle traffic
- Features handles and tie-down straps so that it can be secured to your truck with little effort and placed underneath to catch incidental spills when you are not in motion
- Protects the ground while dispensing liquids



Duck pond 48 x 24 x 4 inches, with handles



Description*	Duck Pond			
External Dimensions W x D x H (in)	24 x 24 x 4	36 x 24 x 4	48 x 24 x 4	36 x 36 x 4
Order number	M76-1428-U2	M76-1430-U2	M76-1432-U2	M76-1434-U2

*More sizes available online

Folding Duck Ponds

It features 6" foam sidewalls that accordion fold to easily fit in the cab of a truck or another storage compartment. When needed, this flexible containment sump is easily deployed to prevent disasters from surprise leaks. This is the perfect product to place under valves when pumping liquid from one tank to another.

- Complies with EPA, SPCC, and NPDES regulations
- When needed, this flexible containment sump is easily deployed to prevent disasters from surprise leaks
- Industrial fabric can handle extreme temperatures
- Multiple/custom sizes available



Folding Duck Pond, 2 ft. x 3 ft. x 6 in



Description*	Folding Duck Pond			
External Dimensions W x D x H (in)	24 x 24 x 6	36 x 24 x 6	48 x 24 x 6	36 x 36 x 6
Order number	M76-1429-U2	M76-1431-U2	M76-1433-U2	M76-1435-U2

*More sizes available online

Dripillow Berms

- Dripillow Berms are engineered to be the ideal portable, outdoor drip, and leak protection
- Absorbents sewed in UV resistant mesh for protection from the elements
- These pads are placed inside a tough, industrial fabric shell to prevent excessive spills from reaching the ground
- Replacement absorbent pads are available



Dripillow Berms, sold 5 per box

Version	Small	Medium	Large	X-Large
External Dimensions W x D (in)	22 x 22	36 x 24	54 x 24	42 x 38
Order number - Dripillow Berm	M76-1445-U2	M76-1450-U2	M76-1453-U2	M76-1455-U2
Order number - Replacement Pads	M76-1446-U2	M76-1451-U2	M76-1454-U2	M76-1456-U2



Filter-Spillpad 24 x 24 x 3 inches

Filter-Spillpads, used for Maintenance and Service work

Filter-Spillpads

- Similar to the standard Spillpad, the Filter-Spillpad has the added benefit of absorbent socks built right into the sidewall for easy cleanup
- Great for doing maintenance on generators and other small equipment
- Soft foam sidewalls make it easy to load /unload equipment with hand trucks
- This medium size bridges the gap to provide the perfect fit for your application
- Removable, replaceable absorbent contain hazardous materials
- Lightweight, portable, and folds out of the way when not in use
- Multiple/custom sizes available

Description	Filter-SpillPads		
External Dimensions W x D x H (in)	24 x 24 x 3	24 x 48 x 3	48 x 48 x 3
Order number	M76-1423-U2	M76-1424-U2	M76-1425-U2

Poly-Spillpads

- Handles the messiest of smaller jobs
- Lightweight and easily moved
- Great on your plant floors or to prevent incidental spills
- The large sump area allows for an extended response time
- Sturdy inner polyethylene grate provides protection while vinyl berm keeps incidental spills contained
- Removable 100% polyethylene grate allows easy access to the sump

Description	Poly-SpillPads		
External Dimensions W x D x H (in)	24 x 24 x 2	24 x 48 x 2	48 x 48 x 2
Order number	M76-1422-U2	M76-1426-U2	M76-1427-U2



Prowler Spill Containment Pools, available from 20 up to 150 Gallons.

Prowler Pools

Polyethylene construction provides a tough, tear-resistant, and chemical-resistant containment pool for leaks and spills.

- They fold up for compact storage and deploy quickly for rapid response
- The teardrop design and top tension ring make them self-supporting
- Extreme chemical resistance

Description	Prowler Pool			
Sump Capacity [gal]	20	66	100	150
Top Diameter [in]	18	36	32	44
Base Diameter [in]	28	48	48	60
Order number	M28-4505-U2	M28-4510-U2	M28-4515-U2	M76-1487-U2

HazMat Pools

The Hazmat Pool is an inexpensive, quick deployment pool that is small enough to be stored on any truck or emergency response vehicle. Decontaminate for reuse or discard according to regulations. Excellent puncture abrasion and chemical resistance along with a -60° F cold crack. With resistance to the widest range of chemicals, and set up in seconds, the Hazmat Pool is your answer to decontamination.

- They fold up for compact storage and deploy quickly for rapid response
- The teardrop design and top tension ring make them self-supporting, making them one less item to worry about in a high-stress spill scenario
- 100-gallon model is ideal for trucks with two 50-gallon saddle tanks
- Extreme chemical resistance

Description	Hazmat Pool
External Dimensions W x D x H (in)	74 x 74 x 8
Sump Capacity [gal]	100
Order number	M76-1485-U2



HazMats Pools

Poly Tank Berms

- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC and other regulations
- Secure Storage - Sumps are 100% tested and 100% guaranteed leak-free
- Spill solution - Eliminate costly spills while storing fuels, oils, and other hazardous liquids
- Rugged, all-polyethylene construction will not rust or corrode
- Pullover Cover option keeps rainwater out, yet allows easy access for pumping waste collection

Description	Poly Tank Berm	
Sump Capacity [gal]	275	550
External Dimensions W x D x H (in)	85 x 44 x 29	87 x 63 x 33
Order number - w/ Drain	M28-4750-U2	M28-4760-U2
Order number - w/o Drain	M28-4755-U2	M28-4765-U2



Poly Tank Berms, available from 275 up to 550 Gallons, with or without Drain

Stinger PolyBerm

- The Stinger PolyBerm is a hybrid containment system that takes advantage of the strength of molded plastic and blends it with the portability of industrial fabrics
- Combined with a simple setup, these features make this containment system the best option for large tanks and transformers
- Provides smaller footprint storage for large volume vertical tanks
- No excavation or anchoring is required
- Lightweight, modular design can install with as few as two people
- Includes 4 ft. sidewalls and a chemically resistant, durable liner
- Can be used as a permanent structure, or easily disassembled and transported
- 1' to 4' tall sidewall options are available



Description	Stinger PolyBerm				
Sump Capacity [gal]	10,988	26,960	48,623	79,982	71,843
External Dimensions W x D x H (ft)	21 x 21 x 4	53 x 17 x 4	65 x 25 x 4	81 x 33 x 4	49 x 49 x 4
Order number	M76-1637-U2	M76-1638-U2	M76-1639-U2	M76-1640-U2	M76-1641-U2

Stinger L-Bracket Berm

- Industry standard L-bracket berms are durable, dependable, and proven
- Sidewalls are held in place by a powder-coated steel bracket that can be oriented towards or away from the sump
- The two-foot sidewall provides ample containment for compliance with larger containers
- Contains more liquid in less space with its small footprint and tall sidewall
- Easy to set up and takedown
- Custom sizes available
- Ground pad and TracMat available for added protection
- Optional trickle filter/shut-off valve



Description	Stinger L-Bracking Berms			
Sump Capacity [gal]	1,496	3,366	3,591	5,984
External Dimensions W x D x H (ft)	10 x 10 x 2	15 x 15 x 2	10 x 24 x 2	20 x 20 x 2
Order number	M76-1232-U2	M76-1251-U2	M76-1234-U2	M76-1256-U2

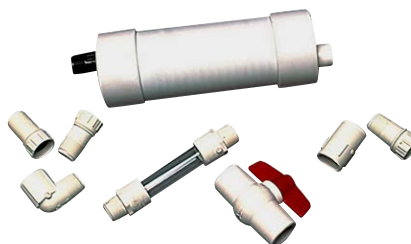
Optional Accessory

Hydrocarbon Filters for Poly Tank Berms

- Optional filter captures hydrocarbons in contained water when draining from a poly sump
- Designed to fit on poly sump models with drain.

Filter,
Order no. M28-4770-U2

Filter Refill (2 pieces),
Order no. M28-4771-U2





Snap-Up Berms - Yellow

- Yellow Jacket Berms feature our snap-up stay design with an 8" tall sidewall height for a lower profile
- They are very chemically resistant and are cold rated to -55 degrees F
- This model is suitable for up to six 55-gallon drums and works well as a decon pool
- Compatible with grates to create a raised floor
- Innovative stay design prevents lost stays and is easy to setup
- Folds flat for easy transport and storage



Description*	Stinger Yellow Jacket Berm						
External Dimensions W x D x H (in)	48 x 48 x 8	48 x 72 x 8	48 x 96 x 8	72 x 72 x 8	96 x 96 x 8	96 x 120 x 8	120 x 120 x 8
Capacity [gal]	80	120	160	180	320	400	501
Shipping Weight [lbs]	15	18	28	24	31	33	36
Order number	M28-4606-U2	M28-4616-U2	M28-4626-U2	M28-4631-U2	M28-4636-U2	M28-4637-U2	M28-4641-U2

*More sizes available online

Snap-Up Berms - Black

- Stinger Snap-Up berms are available in a wide variety of sizes and triangular stays create a sturdy sidewall and are welded in place, leaving no loose part that can be lost
- Easy to setup and sidewalls can be laid flat to be driven over by vehicles and other equipment
- This model can be used as a portable spill pallet as it is perfectly sized to hold a standard wooden pallet
- Compact storage and transport
- Air-lance tested for maximum product performance
- Ground Pad and TracMat available for added protection
- Custom sizes



Description*	Snap-Up Containment Berm					
External Dimensions W x D x H (in)	48 x 48 x 8	48 x 48 x 12	48 x 72 x 8	48 x 96 x 8	75 x 72 x 12	96 x 96 x 8
Capacity [gal]	80	119	119	159	269	319
Shipping Weight [lbs]	11	18	25	21	37	35
Order number	M28-4605-U2	M28-4610-U2	M28-4615-U2	M28-4625-U2	M28-4630-U2	M28-4635-U2

*More sizes available online

Econo Berms

- Industry standard L-bracket berms are durable, dependable, and proven
- Sidewalls are held in place by an aluminum bracket that can be oriented towards or away from the sump
- They are available in a wide range of standard sizes and fold flat for easy shipping, storage, and transportation
- Place a standard wooden pallet with drums directly into this convenient size
- Easy to setup



- Custom sizes available
- Low-profile sidewall
- Material: Standard 22 oz PVC



Description*	Econo-Berm			
External Dimensions W x D x H (ft)	4 x 4 x 1	4 x 6 x 1	5 x 5 x 1	6 x 8 x 1
Capacity [gal]	119	179	187	359
Shipping Weight [lbs]	16	20	22	33
Order number	M76-1271-U2	M28-4620-U2	M76-1284-U2	M76-1299-U2

*More sizes available online

IBC Berms

Uses a unique L-Bracket sidewall support system mounted on the exterior leaving the interior free from interference. Removable L-Brackets allow sidewalls to lay flat for entry and exit. This berm is convenient for containing IBC units or any application that requires a durable, long-lasting, portable containment unit.

- It has rugged, two-foot-tall steel L-brackets to form the sidewall and is made from chemically resistant PVC
- Easy to set up and tear down
- Folds flat for minimum storage and simple transport
- Sidewalls can be laid flat for forklift access
- Compliant Sump volumes meet EPA, OSHA, NFPA, UFC, and other regulations



Description*	IBC - Berm		
External Dimensions W x D x H (ft)	4 x 5 x 2	4 x 6 x 2	5 x 5 x 2
Sump Capacity [gal]	299	359	374
Shipping Weight [lbs]	84	21	102
Order number	M76-1272-U2	M76-1274-U2	M76-1285-U2

*More sizes available online

Stinger Rail Berms

Designed to provide portable spill containment and control for bottom loading and unloading rail tank cars. At only 38 lb., this berm can be set down by a single operator. The berm provides a 4' x 4' x 12" sump area that sits in the void between the tracks directly under the valves. Should a large release occur, the captured liquid would begin to fill this berm. The spilled product would then be directed over the outside rail to an alternate compartment 4' x 18" x 12" H.

- Large spill capacity with secondary containment sump
- Includes two 2 in. drains with male CAM-LOC fittings for easy cleanup and decontamination



Order no. M76-1304-U2

5



Large Area Spill Containment

Many situations do not lend themselves to common secondary containment equipment. Processing or warehousing often involves larger volumes or areas than can be practically housed in a hazmat enclosure. In addition, what about damage to facilities from outside floodwaters? OSHA and EPA regulations require that all releases be contained and that the flow of chemicals and/or sprinkler water be prevented from migrating into drains, sewers, or the environment. Such large volume spills can prove to be catastrophic in scope and expenses involve reclamation, repair, and monetary fines. DENIOS is your best partner for analyzing and solving your Large Area Spill Containment issues.

Spill and Flood Barriers

242 FM Approved Flood Barrier

244 Automatic Doorway Spill Barriers

246 Automatic Spill Barriers

247 Manual Doorway Spill and Flood Barriers





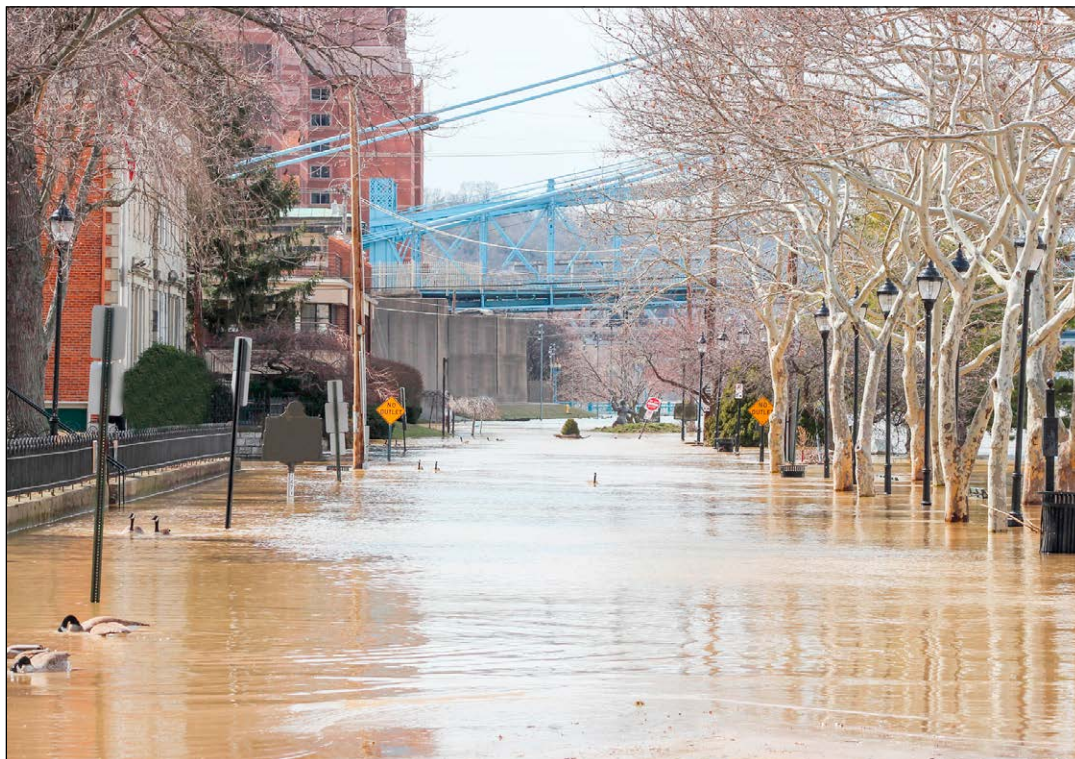
Protect Facilities in Events of Flash Floods (FM Approvals Class 2510)

One inch of water can cause \$25,000 in damage. Flooding is the most common and costly natural disaster in the United States. Within the last five years, all 50 states have experienced flash floods.

As a result, flooding is the number one insurance damage claim. More than 20 percent of flood claims come from properties outside of high-risk zones.

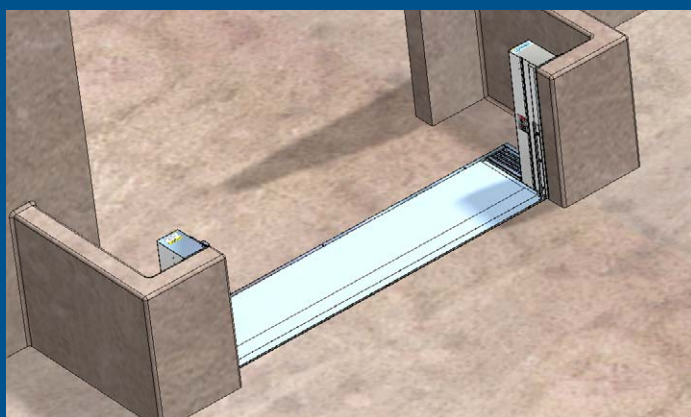
The Doorway Flood Barrier installs easily in existing doorways, and stores horizontally, permitting normal vehicular and personnel traffic, until a flood occurs.

With the first flow of water, the Passive Barrier automatically closes. Your facility is protected 24/7 without the need of any personnel or electricity.

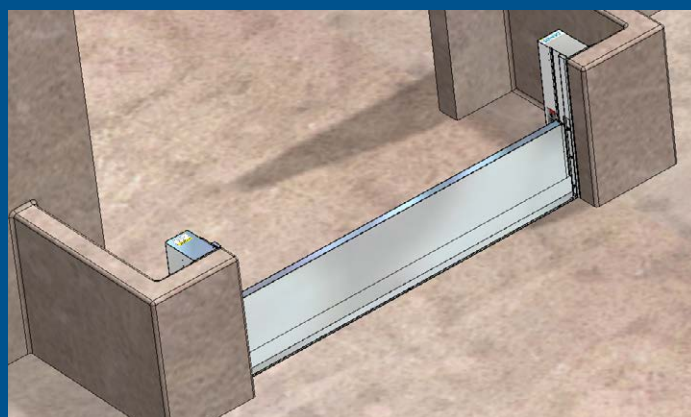


- 90% of all U.S. natural disasters involve flooding
- Floods cause an average of \$8 billion in damages each year
- One inch of water can cause \$25,000 in damage
- 98% of U.S. counties have been impacted by a flooding event
- \$42,000 is the average flood claim payout

- All 50 states experience flash flooding
- 6 inches of fast-moving flood water can knock you off your feet
- 40% of small businesses never reopen their doors following a flooding disaster
- Flash floods can bring walls of water from 10 to 20 feet high



When not deployed, the Doorway Flood Barrier stores flat in the floor, eliminating the need for ramps or berms. The Doorway Flood Barrier permits normal vehicular and personnel traffic until a flood occurs. With the first flow of water, the Barrier automatically closes.



Fully automatic operation, no external power source or compressed air required.



Pop-Up Passive Flood Barrier

Provides all the durable construction and operational characteristics of our doorway spill barrier but is designed specifically for floodwaters.

- Solid welded stainless-steel construction
- Self-contained one-piece system design
- Fully automatic operation, no external power source or factory compressed air required
- While lying flat, Barrier provides up to 6.5 tons of axle weight capacity
- Door heights of 12, 18, and 24 inches. Widths from 3 to 12 feet
- Flexible design allows installation either inside or outside exterior doors
- FM Approved



Large Area Spill Containment

Nominal Width of Door	3 ft	4 ft	6 ft	8 ft	10 ft	12 ft
Opening Span	36 in	48 in	72 in	96 in	120 in	144 in
Sealed Width	40 in	52 in	76 in	100 in	124 in	148 in
Liquid Retention Height (in): 12 in						
Order number	R11-0312-U2	R11-0412-U2	R11-0612-U2	R11-0812-U2	R11-1012-U2	R11-1212-U2
Liquid Retention Height (in): 18 in						
Order number	R11-0318-U2	R11-0418-U2	R11-0618-U2	R11-0818-U2	R11-1018-U2	R11-1218-U2
Liquid Retention Height (in): 24 in						
Order number	R11-0324-U2	R11-0424-U2	R11-0624-U2	R11-0824-U2	R11-1024-U2	R11-1224-U2



Pop-Up Automatic Doorway Spill Barriers

Contain Large Spills to a Single Room

DENIOS prides itself on leading the spill control and containment industry in product development.

Spill containment or Secondary Containment systems are generally conceived to hold a pre-defined volume of liquid in a containment or spill sump sized for the specific volume of product being stored. These products confine a spill in the sump to prevent the spill from spreading.

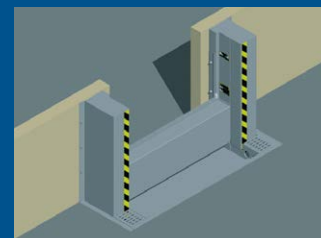
Many situations do not lend themselves to common secondary containment equipment. What options are there for containing larger spills that threaten wide areas?

Our Pop-Up Automatic Doorway Spill Barriers require no power source and provide the protection to contain large spills by closing off any doorway or opening in the affected room at the first sign of flowing liquids.



Pop-Up Automatic Doorway Spill Barriers quickly seal off a room, preventing any spill from contaminating other parts of your plant. The ADSB operates without any power assist and lays flat until triggered by a spill.

Fully automatic operation ensures barrier will close even in cases of power loss



When not deployed, the Pop-Up barrier door stores flat on the floor, eliminating the need for ramps or berms. Automatically closes with the introduction of liquid in the built-in collection sump, creating a liquid-tight seal and containing the spill in the room where it originated

Federal Regulations along with Local Jurisdictions require that sprinkler water in combination with regulated or hazardous materials be prevented from being released into the environment via sewers, streams, or ground contamination. When a release occurs, fines and clean-up costs can be staggering.

■ OSHA 1910.106 (d) (4) (i)

Openings to other rooms or buildings shall be provided with non-combustible liquid-tight raised sills or ramps at least 4" in height

■ IFC-2704.2.2.3 (2009)

Secondary containment for indoor storage areas shall be designed to contain a spill from the largest vessel plus the design flow volume of fire-protection water calculated to discharge from the fire-extinguishing system over the minimum required system design area or area of the room... for a period of 20 minutes.

■ NFPA-30 9.13.3

Curbs, scuppers, special drains, or other suitable means shall be provided to prevent the flow of liquids under emergency conditions into an adjacent building areas.

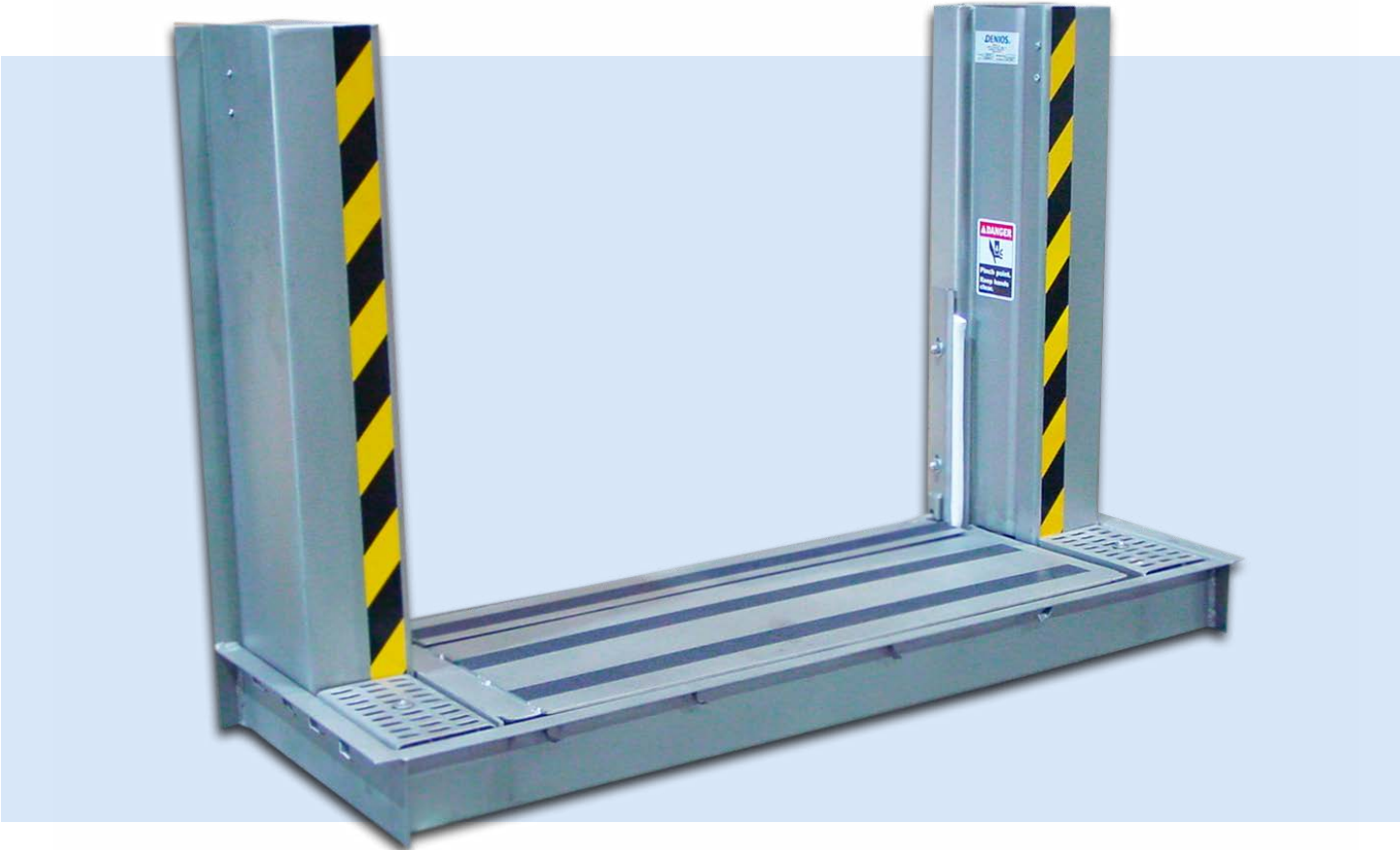
■ OSHA 1910.106 (e) (3) (iv) (a)

Emergency drainage systems shall be provided to direct flammable or combustible liquid leakage and fire protection water to a safe location. This may require curbs, scuppers, or special drainage systems to control the spread of fire.

Pop-Up Automatic Doorway Spill Barrier

Features of the Pop-Up Automatic Doorway Spill Barrier Include:

- Solid welded stainless-steel construction
- Self-contained one-piece system design
- Fully automatic operation, no external power source or factory compressed air required
- Easy installation in existing doorways; stores horizontally in the floor, permitting unobstructed vehicular and personnel traffic until a spill occurs
- While lying flat, Barrier provides up to 6.5 tons of axle weight capacity
- Designed to fit in doorways between 3 and 16 feet, with barrier heights of 12 to 24 inches



Large Area Spill Containment

Nominal Width of Door	3 ft	4 ft	6 ft	8 ft	8 ft	10 ft	10 ft	12 ft	12 ft	14 ft	16 ft
Opening Span	36 in	48 in	72 in	96 in	120 in	120 in	144 in	144 in	168 in	168 in	192 in
Sealed Width	40 in	52 in	76 in	100 in	100 in	124 in	124 in	148 in	148 in	172 in	196 in
Liquid Retention Height (in): 12 in											
Order number	R14-0312-U2	R14-0412-U2	R14-0612-U2	R14-0812-U2	–	R14-1012-U2	–	R14-1212-U2	–	R14-1412-U2	R14-1612-U2
Liquid Retention Height (in): 18 in											
Order number	R14-0318-U2	R14-0418-U2	R14-0618-U2	R14-0818-U2	–	R14-1018-U2	–	R14-1218-U2	–	R14-1418-U2	R14-1618-U2
Liquid Retention Height (in): 24 in											
Order number	R14-0324-U2	R14-0424-U2	R14-0624-U2	–	R14-0824-U2	–	R14-1024-U2	–	R14-1224-U2	R14-1424-U2	–

Fully automatic operation ensures barriers will close even in cases of power loss

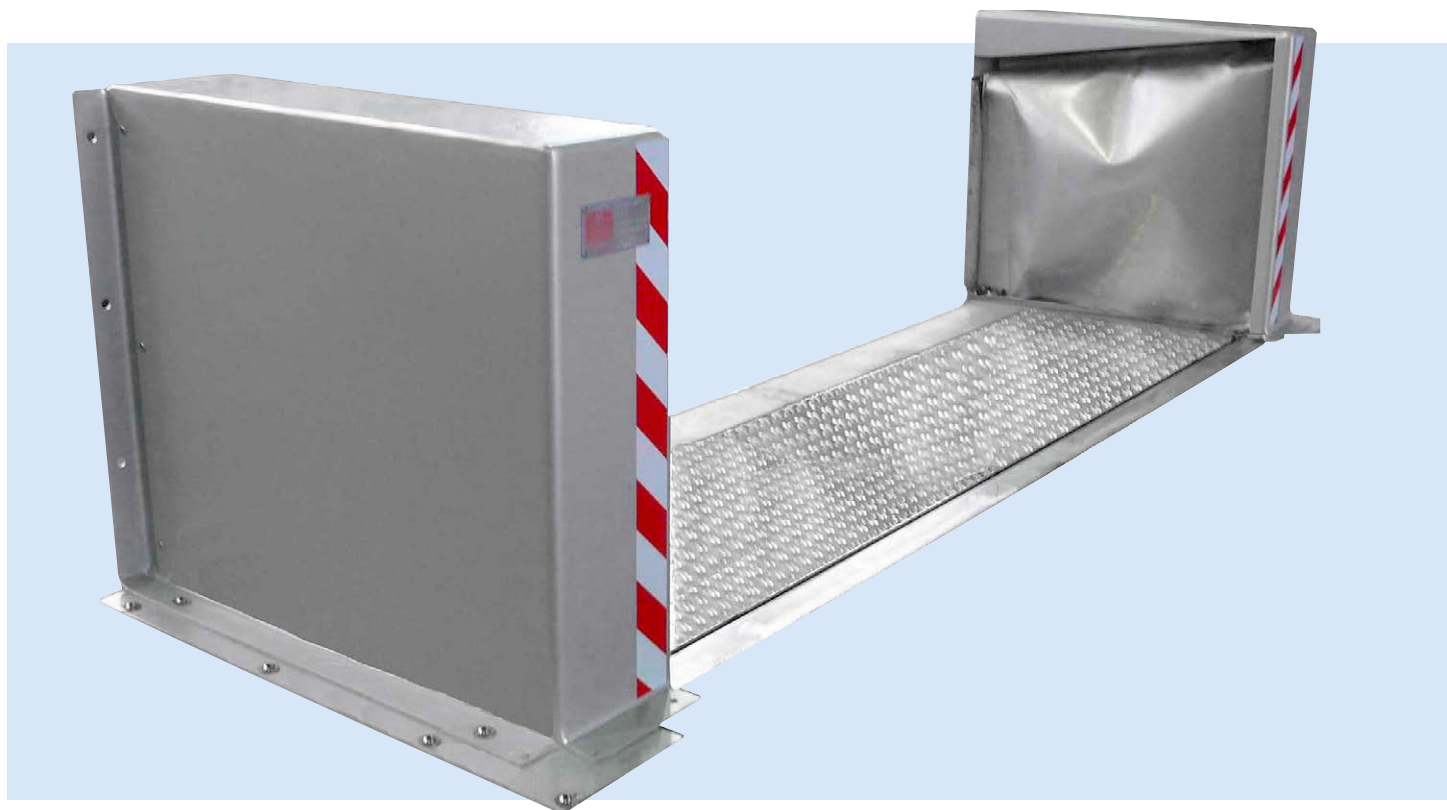
Operation – The flow of liquid triggers the Barrier to automatically shut the door will automatically close with the introduction of liquid in the built-in collection sump, creating a liquid-tight seal and containing the spill in the room where it originated.

Features of the Automatic Doorway Spill Barrier Include:

- Solid welded stainless-steel construction
- Self-contained one-piece system design
- Fully automatic operation, no external power source or factory compressed air required
- Easy installation in existing doorways; stores horizontally on the floor, permitting unobstructed vehicular and personnel traffic until a spill occurs
- While lying flat, Barrier provides up to 6.5 tons of axle weight capacity
- Designed to fit in doorways between 3 and 16 feet, with barrier heights of 12 to 24 inches
- FM Approved



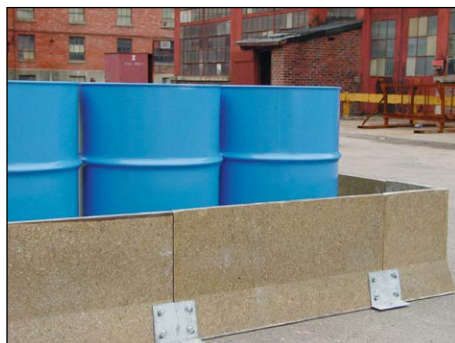
The Anhamm barrier is FM Approved for flammable liquid retention.



Nominal Width of Door	3 ft	4 ft	6 ft	8 ft	10 ft	12 ft
Opening Span	36 in	48 in	72 in	96 in	120 in	144 in
Sealed Width	40 in	52 in	76 in	100 in	124 in	148 in
Liquid Retention Height (in): 12 in						
Order number	R15-0312-U2	R15-0412-U2	R15-0612-U2	R15-0812-U2	R15-1012-U2	R15-1212-U2
Liquid Retention Height (in): 18 in						
Order number	R15-0318-U2	R15-0418-U2	R15-0618-U2	R15-0818-U2	R15-1018-U2	R15-1218-U2
Liquid Retention Height (in): 23 in						
Order number	R15-0323-U2	R15-0423-U2	R15-0623-U2	R15-0823-U2	R15-1023-U2	R15-1223-U2

HazBerm

- Polymer concrete segments are highly chemical and fire-resistant
- Available in tan or black
- Easy Installation - Does not require floor footers, forms, or on-site concrete pouring
- The HazBerm can be combined with DENIOS US Spill Barriers to providing easy entry or exit to the containment area
- Recommended for smaller footprints with level/ well-maintained floors
- Easily relocated or altered as needs change - no need to jack-hammer and replace the existing system



The HazBerm can be placed around processing equipment to contain potential leaks and spills



The HazBerm is available in 1 and 3-foot segments as well as the 1-foot corner and reverse corner segments. (Reverse corner not shown. Hardware included, but not shown.)

Model	1' Straight		3' Straight	
External Dimensions W x D x H (in)	12 x 4 x 18		36 x 4 x 18	
Color	Tan	Black	Tan	Black
Shipping Weight [lbs]	27		84	
Order number*	R05-0210-U2	R05-0211-U2	R05-0230-U2	R05-0231-U2
Accessories				
Order number 1' Corner	R05-0290-U2	R05-0291-U2	R05-0290-U2	R05-0291-U2
Order number 1' Reverse Corner	R05-0292-U2	R05-0293-U2	R05-0292-U2	R05-0293-U2

*Not to exceed 1,000 gallon capacity or 150 square feet.



Note: Other heights and widths available! Please call us: 800-216-7776

Manual Doorway Spill and Flood Barriers

Barriers clamp securely into preset piers mounted on either side of the opening. Designed to contain spills, leaks, and/or sprinkler water releases. By sealing off doorways or other openings, liquids are prevented from spreading beyond the immediate room or area. Barriers may also be used on the exterior of doorways to prevent high water from storms or floods from entering critical areas and damaging, expensive equipment or inventory. On-site installation is easily accomplished in new or existing facilities using the step-by-step installation instructions provided.

- Chemical-resistant gaskets maintain a tight seal in both hot and cold conditions
- Rigid design withstands extreme temperatures during a fire
- Unique clamping mechanism secures the barrier in place between piers
- Eliminates need for ramps/berms at doorways or other openings
- Deploys in Seconds!

External Dimensions W x H (in)	Order number
36 x 12	R12-0312-U2
48 x 12	R12-0412-U2
72 x 12	R12-0612-U2
96 x 12	R12-0812-U2
120 x 12	R12-1012-U2



Manual Doorway Spill and Flood Barriers are great for low traffic areas. The door easily lifts out for access to the sealed area, otherwise the door normally in place.



Barrier piers are mounted on both sides of the doorway, allowing normal traffic when the barrier is not deployed



At the first sign of an incident the barrier is lowered into position.



Within seconds the doorway is secured against flowing liquids.



When open, store the barrier close to the mounting piers for quick, easy deployment in the event of a spill

6



There are many safety requirements that are crucial to consider when planning and operating production processes. Safely transporting your production materials is equally as important as having correct signage in place in your facility. You need to consider all these essential on-site requirements when you plan, implement, and maintain production operations throughout your company. DENIOS is a trusted expert in the field of occupational safety and facility maintenance.



Facility Maintenance & Work Safety

250 Tilt Trucks & Hoppers

254 Waste Tanks & Cans, Salvage Drums

256 Waste Cans

258 Scrapers, Scoops & other
Laboratory Equipment

260 Industrial Vacuums

262 Lock-Out / Tag-Out

271 Mirrors

274 Posts, Bollards & Guards

280 PPE - Personal Protection Equipment

291 Eye Wash and Shower Systems



Low-Profile Hoppers

- The low-profile hopper design is an ideal addition to the manufacturing and maintenance facilities
- The powder coated design is smooth for comfortable handling during use
- The unit can be transferred from workstation to workstation quietly and easily by utilizing the attached casters
- The height of the unit allows for a more ergonomic posture of the user to reduce bending and twisting
- Models with forklift pockets usually used for long distance transport and dumping
- The included safety restraint should be properly secured to a fork truck before dumping



Low Profile Hopper with Forklift Pockets, Casters and Handle, Order no. M75-1082-U2



Low Profile Hopper - easy dumping when using a forklift truck



Low Profile Hopper with Casters and Handle, Order no. M75-1206-U2

Version	With Casters		With Casters and forklift pockets	
Storage Capacity*	1/4 cubic yard	1/3 Cubic Yard		1/2 Cubic Yard
External Dimensions W x D x H (in)	43 x 27 x 37	55 x 31 x 37	54 x 30 x 34	55 x 49 x 34
Total Load Capacity [lbs]	1,000	1,000	2,000	2,000
Shipping Weight [lbs]	126	155	199	340
Order number	M74-0802-U2	M75-1206-U2	M75-1083-U2	M75-1082-U2

*More sizes available online

Self-Dumping Hoppers

- This Self-Dumping Steel Hopper with Bumper Release automatically dumps when bumper release contacts the side of the dumpster
- Hopper returns to an upright and locked position automatically after it dumps
- Also includes a cable that may be operated from the seat of the fork truck to manually dump the hopper
- The included safety restraint should be properly secured to a fork truck before dumping
- Full-length fork tube provide a solid base
- Safety restraint secures the hopper to the fork truck



Medium Duty Hopper,
Order no. M75-0510-U2



Light Duty Hopper,
Order no. M75-0382-U2



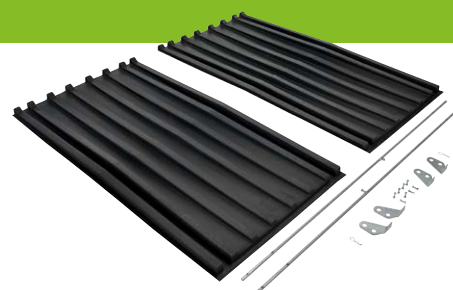
Storage Capacity*	0.25 Cubic Yard	0.50 Cubic Yard	0.75 Cubic Yard	1 Cubic Yard	2 Cubic Yard		3 Cubic Yard	
External Dimensions W x D x H (in)	52 x 26 x 38	52 x 33 x 38	61 x 31 x 43	61 x 41 x 43	68 x 56 x 52	68 x 56 x 52	69 x 81 x 52	69 x 81 x 52
Total Load Capacity [lbs]	2,000	2,000	2,000	2,000	2,000	4,000	4,000	6,000
Shipping Weight [lbs]	335	365	449	479	613	701	940	940
Order number	M75-0601-U2	M75-0767-U2	M75-0821-U2	M75-0382-U2	M75-0492-U2	M75-0510-U2	M75-0674-U2	M75-0638-U2
Accessories	Hinged Lid				—	—	Hinged Lid	
	Color	Blue	Black	Black	Blue	—	—	Black
Order number	M75-1170-U2	M75-1179-U2	M75-1183-U2	M75-1188-U2	—	—	M75-1173-U2	M75-1173-U2

*More sizes available online

Optional Accessory

Poly Lids

- Keep the contents of hoppers out of sight for a cleaner appearance with our Heavy-Duty Poly Lid
- Constructed from heavy-duty polyethylene material, this lid is lightweight and easy to open
- The top of the lid includes a crown for water drainage and a ribbed design for strength and aesthetics
- Factory installed when ordered with hopper
- Easily field-installable with hardware and instructions included.
- Other colors available online



Poly Tilt Trucks

- Seamless bodies molded in heavy-duty polyethylene will not dent, chip, corrode or absorb moisture
- Steel chassis is all-welded, superior to bolted frames
- High-quality wheels, casters and hardware are used to ensure that overall wheel and caster capacity is greater than truck rated weight capacity
- All wheels are rubber molded on cast steel, roller bearing hubs
- All casters are urethane on polymer
- Unique nesting ability due to inset wheels allows for reduced shipping and storage costs, while also protecting walls and door frames from accidental wheel impact



Poly Tilt Truck with Handle, 1.1 cubic yard, blue
Order no. M74-0245-U2



Poly Tilt Truck, 1.1 Cubic Yard. gray,
Order no. M74-0220-U2



Poly Tilt Truck, 5/8 Cubic Yard, yellow
Order no. M74-0184-U2

Storage Capacity*	5/8 Cubic Yard		1.1 Cubic Yard	
Version	Multi Purpose		Multi Purpose	Heavy Duty - with Handle
Total Load Capacity [lbs]	300		600	2,100
External Dimensions W x D x H [in]	56 x 27 x 36		69 x 32 x 40	69 x 32 x 42
Shipping Weight [lbs]	65		85	167
Order number Gray	M74-0180-U2		M74-0220-U2	M74-0244-U2
Order number Blue	M74-0181-U2		M74-0221-U2	M74-0245-U2
Order number Red	M74-0182-U2		M74-0222-U2	M74-0246-U2
Order number Green	M74-0183-U2		M74-0223-U2	M74-0247-U2
Order number Yellow	M74-0184-U2		M74-0224-U2	M74-0248-U2
Order number Orange	M74-0185-U2		M74-0225-U2	M74-0249-U2
Order number Black	M74-0186-U2		M74-0226-U2	M74-0250-U2
Order number Translucent	M74-0187-U2		M74-0227-U2	—

*More sizes and configurations available - call for details

Self-Dumping Poly Tilt Trucks

- Self-dumping poly tilt truck employs wheels and can be used with fork truck for easy transport and dumping
- Designed to dump up to 40 degrees below horizontal to ensure total emptying of contents
- Seamless, molded polyethylene body is supported by steel tube frame
- 6" casters allow for easy maneuverability
- Hinged lids are available
- Standard framework is painted black
- Hoppers should be secured to forklift or Floor before dumping



Storage Capacity	5/8 Cubic Yard	1.1 Cubic Yard	1.7 Cubic Yard	2.2 Cubic Yard
External Dimensions W x D x H (in)	59 x 26 x 42	71 x 31 x 46	80 x 40 x 55	80 x 51 x 55
Total Load Capacity [lbs]	750	1,000	1,200	1,500
Shipping Weight [lbs]	220	258	354	386
Order number Black	M74-0450-U2	M74-0458-U2	M74-0466-U2	M74-0474-U2
Order number Blue	M74-0445-U2	M74-0453-U2	M74-0461-U2	M74-0469-U2
Order number Green	M74-0447-U2	M74-0455-U2	M74-0463-U2	M74-0471-U2
Order number Orange	M74-0449-U2	M74-0457-U2	M74-0465-U2	M74-0473-U2
Order number Red	M74-0446-U2	M74-0454-U2	M74-0462-U2	M74-0470-U2
Order number Yellow	M74-0448-U2	M74-0456-U2	M74-0464-U2	M74-0472-U2
Order number Gray	M74-0444-U2	M74-0452-U2	M74-0460-U2	M74-0468-U2
Order number Translucent	M74-0451-U2	M74-0459-U2	M74-0467-U2	M74-0475-U2

Large Tote Bins

- Totes are built to last and offer large storage for a variety of tasks
- Use them as a spill kit container for storage of spill response equipment, or as a general-purpose bulk container
- Durable, UV resistant, weather resistant design
- Stackable, nestable, forkliftable
- Choose between Bin-only or models with Lids and 4" polyurethane or 8" solid rubber wheels



Version	Large			X-Large		
Capacity [gal]	123			223		
Contents	Bin only	w/ Lid and 4" wheels	w/ Lid and 8" wheels	Bin only	w/ Lid and 4" wheels	w/ Lid and 8" wheels
External Dimensions W x D x H (in)	44.5 x 35 x 30.4	45 x 35.5 x 36	45 x 35.5 x 40	51 x 46.5 x 33	51.5 x 47.3 x 38	51.5 x 47.3 x 42
Total Load Capacity [lbs]	500	500	500	500	500	500
Shipping Weight [lbs]	49	55	74	55	79	98
Order number	M76-1142-U2	M76-1145-U2	M76-1146-U2	M76-1147-U2	M76-1150-U2	M76-1151-U2

Tanks for Storing Used Oils

The ideal double-wall tank with 110% secondary containment. Safe, Easy-To-Use Storage Tank for Used Oils, made of 100% Recyclable Polyethylene.

- Meets the latest EPA standards for used oil storage containers CFR 40-279.22
- Weather resistant and vented with hinged, lockable manway - suitable for exterior storage
- Translucent "Safety Yellow" containment tank for easy routine inspection
- Maintenance-free, won't rust, chip or dent
- Easy to clean
- Oil level monitoring gauge
- Large sink with debris screen and removable debris strainer
- Automatic overflow shutoff
- 2" external quick release drain coupling
- Available with volumes from 100 up to 385 gallons. Other dimensions up to 1,000 gallons are available on request



Tank for used oils, available with volumes from 100 up to 385 Gallons



Tank for used oils, 385 gallons
Order no. M72-1895-U2

Capacity	100 gal	150 gal	200 gal	385 gal
External Dimensions Dia x H (in)	35 x 41	34 x 49	41 x 53	64 x 42
Shipping Weight [lbs]	100 lbs	125 lbs	140 lbs	250 lbs
Order number	M72-1890-U2	M72-1891-U2	M72-1894-U2	M72-1895-U2
Accessories	Spill Pan			
Order number	M72-1892-U2	M72-1892-U2	—	—

Drip Pans

- Designed with molded handles/hand grips for easy carrying and pouring



8 quart models for open reservoir
Order no. M28-0022-U2



15 quart model features a center drain with cap
Order no. M28-0020-U2



20 quart models for open reservoir
Order no. M28-0021-U2



58 quart model features a center drain with cap and is equipped with roller wheels for easy transport
Order no. M28-0023-U2

Capacity [qt]	8	15	20	58
External Dimensions L x D x H (in)	20.6 x 15.6 x 5.8	23.1 x 17.8 x 6.9	24 x 18 x 6.2	36 x 26 x 9.5
Order number	M28-0022-U2	M28-0020-U2	M28-0021-U2	M28-0023-U2

Salvage Drums, UN certified

These Salvage Drums feature an innovative UN qualified lever lock drum ring that eliminates the need for closing tools and takes the guesswork out of complying with technical closure instructions. The quick-lever closure secures easily, with no need to measure torque or ring gap.

- Steel Salvage Drums are approved for the storage and transport of hazardous materials
- Drums are pre-labeled in immediately identify them as salvage drums
- All are certified to comply with UN requirements
- Drums are equipped with a unique quick lever closure for tight, secure closing without the need for additional hand tools



Capacity [gal]	5	8	10	20	55	85
External Dimensions Dia x H (in)	14 x 8.9	14 x 14.5	14 x 17.4	18.3 x 19.3	22.5 x 32.8	26 x 36.8
UN Code	1A2/X60/S	1A2/X96/S	A2/X96/S	1A2/X220/S	1A2/X430/S	1A2/Y440/S
Shipping Weight [lbs]	10	14	15	27	50	82
Order number	M72-6910-U2	M72-6915-U2	M72-6920-U2	M72-6925-U2	M72-6930-U2	M72-6935-U2

Salvage Drums and Overpacks, UN certified

DENIOS offers a complete range of DOT compliant Salvage Drums to meet a variety of waste containment and transport requirements.

- Wide opening for comfortably use
- High Density Polyethylene with UV inhibitors provides long life
- Resistant material against many hazardous materials and against aggressive chemicals like acids and alkalis
- Stackable when not in use
- Comes in high-viz yellow
- Use the 20 and 30-gallon drums for 5-gallon pails and other smaller items
- Use the 65 and 95-gallon drums for 55-gallon and smaller drums and containers
- Comply with UN Regulations and DOT 49 CFR 173.3



Mobile Salvage Drums are available as 50- and 95- gallon model

Salvage Drums and Overpacks, UN certified, 95 Gallon

Capacity [gal]	20	30	65	95	110	50	95	95	180	600
	Salvage Drum				Salvage Drum, wheeled			Salvage Drum, lockable	Overpack	
UN Code	UN 1H2/X75/S, UN 1H2/Y100/S	UN 1H2/X100/S	UN 1H2/X200/S	UN 1H2/X295/S	UN 1H2/X295/S	UN 1H2/X125/S	UN 1H2/X113/S	UN 1H2/X295/S	—	—
External Dimensions Dia x H (in)	22.3 x 19	22.3 x 30.5	27.8 x 16.8	31.5 x 40	31.5 x 45	24 x 46	31.4 x 47.5	32 x 44	40.3 x 57	71 x 69
Shipping Weight [lbs]	10	13	47	47	49	47	56	56	102	225
Order number	M76-1029-U2	M76-1031-U2	M76-1034-U2	M76-1037-U2	M76-1039-U2	M76-1032-U2	M76-1027-U2	M76-1025-U2	M76-1040-U2	M76-1041-U2

Oily Waste Cans - Steel & Stainless-Steel

Prevent Fire Hazards and spontaneous combustion by disposing solvent laden refuse, rags, or other materials in segregated waste containers.

- Clean fire protection solution for your workplace
- Exceeds FM Standards for impact, stability, and fire testing
- Meets OSHA and NFPA Code 30
- Rigid steel design
- Foot lever operated
- Bottom ventilation prevents heat build-up
- Leak-proof welded cans avoid leaking of residual liquids
- Self-closing lids reduce fume migration and cut off oxygen supply to the stored materials
- Significant noise reduction due to damped lid mechanism
- Big ergonomically handle at the back serves for easy emptying of the Oily Waste Can
- 3" Scraper, Metal Detectable, available in 4 colors
- Choose between rust-free stainless steel or steel with a baked on red warning finish



Oily waste container made of red painted steel, with self-closing lid and floor ventilation



Small burning parts can easily be disposed in waste containers. The flames are reliably extinguished due to the tight-closing lid



Significant noise reduction due to damped lid mechanism



The ergonomic handle makes it easy and safe to empty the container



Each Oily Waste Can comes with a multilingual safety label



Capacity	5.3 gal	9.2 gal	13.2 gal	17.1 gal
External Dimensions W x D x H (in)	15.1 x 15.2 x 16.9	17.3 x 17.7 x 19.3	19.5 x 19.9 x 21.3	21.1 x 21.5 x 22.9
Shipping Weight	14	16	18	21
Order number Steel	M72-1869-U2	M72-1875-U2	M72-1877-U2	M72-1881-U2
Order number Stainless-Steel	M72-1870-U2	M72-1876-U2	M72-1878-U2	M72-1882-U2

Automatic Drum Cover with Fusible Link

- Turn ordinary drums into fire-safe waste collection centers
- Spring-loaded cover slams shut in case of fire
- Durable steel construction with powder-coat finish
- Excellent chemical resistance
- Attaches easily requiring only a screwdriver and a wrench



55 Gallon
Order no. M72-7170-U2, \$



30 Gallon
Order no. M72-7150-U2, \$

	30-Gallon - Self-Closing	55-Gallon - Self-Closing
External Diameter [in]	19	23
Shipping Weight [lbs]	14	17
Order number	M72-7150-U2	M72-7170-U2

Waste Disposal Tops

- Convert empty drums into waste recycling, general or disposal containers
- Spring-loaded doors close automatically to prevent bugs and bees from entering
- Fits standard steel drum

- Secures to drum top with set screws
- Powder coat finish
- Choose between a steel and a fiber glass version, each available in different colors



	Single Door Waste Disposal Top for Drums				Double Door Waste Disposal Top for Drums			
External Dimensions Dia x H (in)	24.5 x 10.75							
Shipping Weight [lbs]	8							
Color	Black	Green	Gray	Red	Black	Green	Gray	Red
Order number Steel	M75-0313-U2	M75-1313-U2	M75-1315-U2	M75-1314-U2	M75-1321-U2	M75-1320-U2	M75-1322-U2	M75-1319-U2

Scrapers

- Excellent solution for your scraping needs
- These tools are a great alternative to stainless steel
- Durable, lightweight construction will not rust or corrode
- Choose between different colors and Sparkless or Detectable versions

4" Large Scraper - Sparkless



Version	3" Scraper		4" Scraper	
	Sparkless	Metal Detectable	Sparkless	Metal Detectable
External Dimensions W x D x H (in)	3 x 0.8 x 7.8	3 x 1 x 9	4.3 x 0.9 x 9.2	5 x 1 x 10
Order number Green	M28-5115-U2	M74-0136-U2	M28-5116-U2	M74-0140-U2
Order number Blue	—	M74-0137-U2	—	M74-0141-U2
Order number Red	—	M74-0138-U2	—	M74-0142-U2
Order number White	—	M74-0139-U2	—	M74-0143-U2



Bench Scrapers

- Excellent solution for your bench top scraping needs
- These tools are a great alternative to stainless steel
- Durable, lightweight construction will not rust or corrode
- Choose between different colors

Version	Mini Bench Scraper	Bench Scraper
	Metal Detectable	Metal Detectable
External Dimensions W x D x H (in)	5.3 x 0.9 x 3.4	8.3 x 0.9 x 5.2
Order number Blue	M74-0129-U2	M74-0121-U2
Order number Green	M74-0128-U2	M74-0120-U2
Order number Red	M74-0130-U2	M74-0122-U2
Order number White	M74-0131-U2	M74-0123-U2



Scoops

- Excellent solution for your bench top scraping needs
- These tools are a great alternative to stainless steel
- Durable, lightweight construction will not rust or corrode
- Choose between different colors and Sparkless or Detectable versions

Version	32 oz. Scoop		82 oz. Scoop	
	Sparkless	Metal Detectable	Sparkless	Metal Detectable
External Dimensions W x D x H (in)	4.3 x 11.5 x 3	4.3 x 11.5 x 3	5.9 x 15.1 x 3.3	5.9 x 15.1 x 3.3
Order number Green	M28-5113-U2	M74-0152-U2	M28-5114-U2	M74-0124-U2
Order number Blue	—	M74-0153-U2	—	M74-0125-U2
Order number Red	—	M74-0154-U2	—	M74-0126-U2
Order number White	—	M74-0155-U2	—	M74-0127-U2



Paddles

- This two-in-one tool is handy for both mixing and scraping
- Great for a variety of applications such as soup, confectionery, dough, and sauce manufacturing as well as many other foods processing or other mixing tasks
- One-piece construction and the unique long-handle design make it easy to use for many jobs
- These tools are a great alternative to stainless steel

Version	52" Paddle
	Metal Detectable
External Dimensions W x D x H (in)	6 x 2 x 52
Order number Blue	M74-0133-U2
Order number Green	M74-0132-U2
Order number Red	M74-0134-U2
Order number White	M74-0135-U2



Shovels

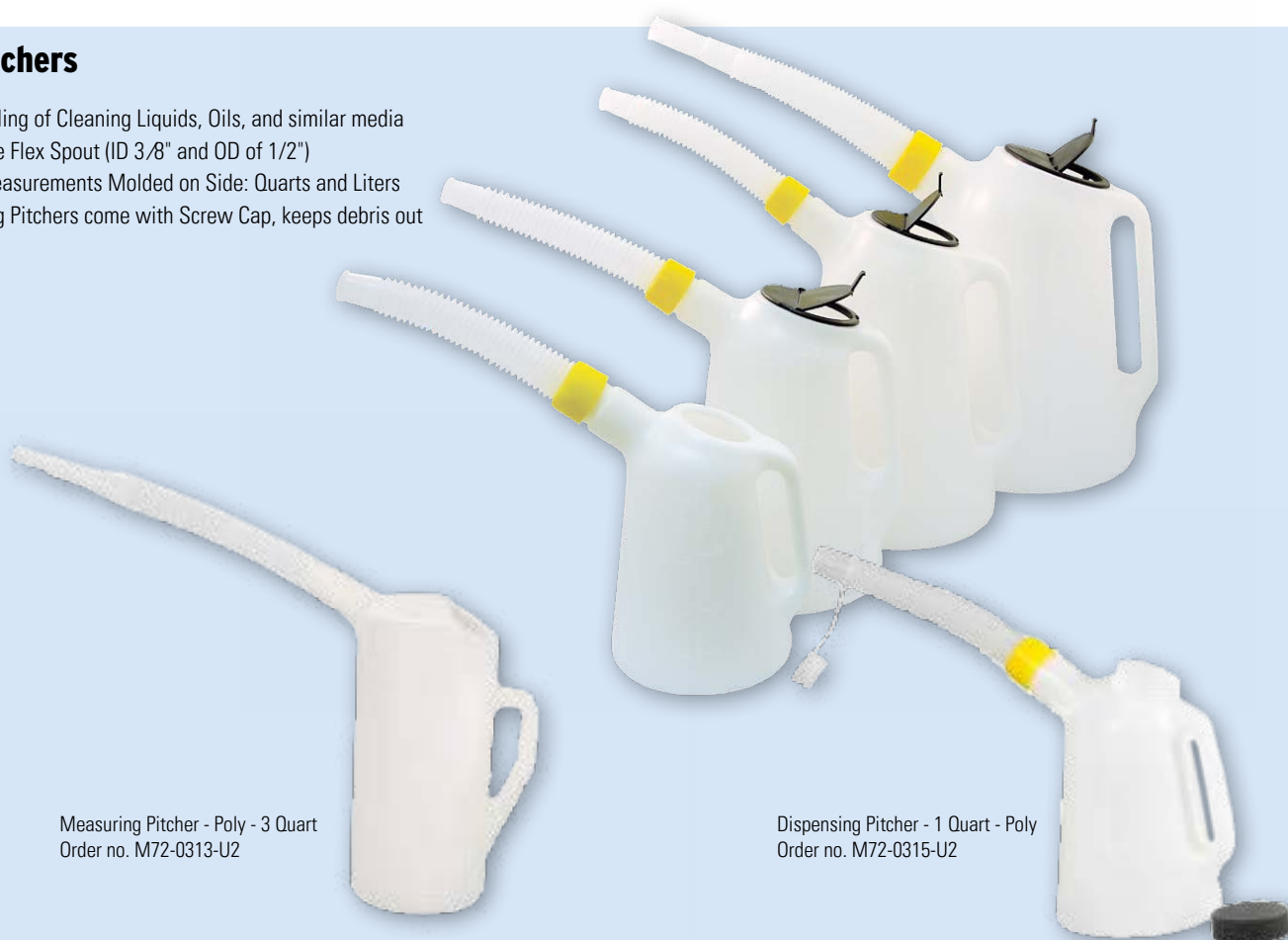
- One-piece polypropylene shovels are tough, lightweight, and hygienic, molded from FDA-compliant polypropylene,
- A workhorse for moving bulk materials and an integral part of any professional cross-contamination containment, food safety or HACCP program
- These shovels are popular for meat, dairy, seafood, and poultry processing, as well as commercial fishing and other food handling applications
- These tools are a great alternative to stainless steel
- Metal detectability - employs semi-ferrous additive
- Choose between different colors and Sparkless or Detectable versions

Version	10" Shovel		14" Shovel	
	Sparkless	Metal Detectable	Sparkless	Metal Detectable
External Dimensions W x D x H (in)	10.2 x 5.5 x 37.5	10.2 x 5.9 x 37.5	13.8 x 6.6 x 42.5	13.8 x 6.9 x 42.5
Order number Green	M28-5110-U2	M74-0144-U2	M28-5111-U2	M74-0148-U2
Order number Blue	—	M74-0145-U2	—	M74-0149-U2
Order number Red	—	M74-0146-U2	—	M74-0150-U2
Order number White	—	M74-0147-U2	—	M74-0151-U2



Poly Pitchers

- Safe handling of Cleaning Liquids, Oils, and similar media
- Removable Flex Spout (ID 3/8" and OD of 1/2")
- Raised Measurements Molded on Side: Quarts and Liters
- Dispensing Pitchers come with Screw Cap, keeps debris out



Version	Measuring Pitcher					Dispensing Pitcher			
	0.5	1.0	2.0	3.0	5.0	1.0	2.0	3.0	5.0
Capacity [qt]									
External Dimensions W x D x H (in)	14 x 14 x 14	25 x 12 x 20	25 x 12 x 20	16 x 16 x 16	30 x 15 x 24	20 x 14 x 6	24 x 10 x 10	16 x 16 x 20	36 x 24 x 16
Color	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent
Shipping Weight [lbs]	2.8	10.1	10.0	6.0	15.5	3.0	6.0	10.0	16.0
Order number	M72-0310-U2	M72-0311-U2	M72-0312-U2	M72-0313-U2	M72-0314-U2	M72-0315-U2	M72-0316-U2	M72-0317-U2	M72-0318-U2

Chip Vac System

Great for cleaning wet or dry chips from fixtures, machines, parts, and work areas. Available in 5-, 30-, 55-, and 110-gallon capacities.

- Include drum and drum dolly
- Come with heavy duty, metal tools for added durability
- No electricity required, all systems operate on compressed air
- Warning: Do not use with any material with a low flash point or with flammable liquids such as fuel oil, alcohol, mineral spirits, gasolines, or kerosene
- Meets OSHA noise and pressure requirements



Capacity [gal]	5	30	55	110
Shipping Dimensions L x W x H (in)	12 x 22 x 22	21 x 35 x 21	41 x 25 x 25	51 x 48 x 42
Weight [lbs]	39	121	160	220
Order number	M28-5260-U2	M28-5261-U2	M28-5262-U2	M28-5264-U2

Chip Trapper System

Separates chips and shavings from used coolant or other liquids. Great for cleaning out sumps, parts washers, tanks, and storage containers. Available in 30-, 55-, and 110-gallon capacities.

- Removes unwanted solids from liquids
- Recycles coolants
- No motors to clog or wear out
- Self priming stainless-steel pump
- Built-in pressure/vacuum relief
- Spill free - auto safety shut off



Capacity [gal]	30	55	110
Shipping Dimensions L x W x H (in)	21 x 35 x 21	41 x 25 x 25	51 x 48 x 42
Weight [lbs]	121	180	220
Order number	M28-5265-U2	M28-5267-U2	M28-5269-U2

Facility Maintenance & Work Safety

Reversible Drum Vac System

Fills and then can deposit into drums/containers recovered liquids. Great for spill recovery of chemicals or emptying of coolant sumps.

- Fills a 55-gallon drum in less than 2 minutes
- Uses no electricity
- No moving parts, assuring maintenance free operation
- CE Certified



Capacity [gal]	5	30	55	110
Shipping Dimensions L x W x H (in)	12 x 22 x 22	5.5 x 26 x 8	5.5 x 26 x 8	49 x 48 x 42
Weight [lbs]	49	48	64	196
Order number	M28-5208-U2	M28-5209-U2	M28-5210-U2	M28-5211-U2

Heavy Duty Vac System

High-powered, heavy-duty vacuum outperforms conventional models. Great for cleaning abrasives like steel shot, sand, garnet, and metal chips. Available in 30-, 55-, and 110-gallon capacities.



Capacity [gal]	30	55	110
Shipping Dimensions L x W x H (in)	21 x 35 x 21	24 x 41 x 24	51 x 48 x 42
Weight [lbs]	121	35	220
Order number	M28-5270-U2	M28-5272-U2	M28-5274-U2

- Hardened construction resists wear
- No moving parts - maintenance free
- No motors to wear out or clog
- No electricity needed
- Static resistant hose
- CE Certified



Facility Maintenance & Work
Safety

STOPOUT® Lockout Kits

- Lockout box is manufactured using a strong and durable polyethylene material
- Durable, rugged polyethylene boxes have a carry handle and room for you to add more components to customize your kits
- STOPOUT® Lockout Kits

Pouch Kit

- Portable pouch provides on-the-spot lockouts in remote locations, immediately and easily
- Contoured pouch is a red nylon 11-inch W x 5-inch H x 3-inch D with a front zipper, adjustable waist strap, and buckle clip
- STOPOUT® Lockout Kits

Contents:

- 1 - Lockout Scissor Hasps, 1 1/2" opening
- 2 - Steel Padlock, 3/4" shackle
- 10 - HS-Laminate Lockout Tags
- 2 - STOPOUT® Circuit Breaker Lockouts
- 25 - STOPOUT® Circuit Breaker Lockout Tab Tags
- 1 - STOPOUT® Universal Wall Switch Lockout



Order no. M74-2102-U2

Lockout Kit - Standard

- Lockout box is manufactured using a strong and durable polyethylene material
- Durable, rugged polyethylene boxes have a carry handle and room for you to add more components to customize your kits

Contents:

- 1 - Lockout Box, Plastic, 18"L x 6 1/2"W x 4 3/4"H
- 2 - Lockout Scissor Hasps, 1" opening
- 1 - STOPOUT® Aluma-Tag™ Hasp, 1 1/2" opening
- 3 - Steel Padlocks (keyed differently), 3/4" shackle
- 50 - Labels for Padlocks
- 25 - HS-Laminate Lockout Tags
- 2 - STOPOUT® Circuit Breaker Lockouts
- 25 - STOPOUT® Circuit Breaker Lockout Tab Tags
- 1 - STOPOUT® StopPlug™ Multi-Plug Lockout



Order no. M74-2101-U2

Lockout Kit - Standard PLUS

- Similar to our standard kit but features more STOPOUT® valve lockouts and comes with an additional 3 1/2" x 5" magnetic label; DANGER: EQUIPMENT LOCKED OUT, DO NOT REMOVE LOCKS
- Comes in a durable plastic box made to withstand the daily wear and tear of a work environment

Contents:

- 1 - Lockout Box, Plastic, 18"L x 6 1/2"W x 4 3/4"H
- 2 - Lockout Scissor Hasps, 1" opening
- 1 - STOPOUT® Aluma-Tag™ Hasp, 1 1/2" opening
- 1 - Lockout Box, Plastic, 16"L x 8 3/8"W x 8"H
- 2 - Lockout Scissor Hasps, 1" opening
- 1 - STOPOUT® Aluma-Tag™ Hasp, 1 1/2" opening
- 6 - Steel Padlocks (keyed differently), 3/4" shackle
- 50 - Labels for Padlocks
- 25 - HS-Laminate Lockout Tags
- 2 - STOPOUT® Circuit Breaker Lockouts
- 25 - STOPOUT® Circuit Breaker Lockout Tab Tags
- 1 - STOPOUT® Ball Valve Lockout, 3/8" - 1 1/4" Valve
- 1 - STOPOUT® Ball Valve Lockout, 1 1/2" - 2" Valve
- 1 - STOPOUT® Gate Valve Lockout, 1" - 2 1/2" Handle
- 1 - STOPOUT® Gate Valve Lockout, 2 1/2" - 5" Handle
- 1 - Magnetic Label, 3 1/2" x 5", DANGER: EQUIPMENT LOCKED OUT, DO NOT REMOVE LOCKS



Order no. M74-2105-U2

Lockout Kit - Deluxe

- Deluxe kit features many items not included in other kits and is easily transportable
- Features a training booklet to instruct workers on how to properly use each item in the kit
- Comes with 6 padlocks, 3 with a 3/4-inch shackle and the other 3 with 1 1/2-inch shackle



Lockout Kit - Deluxe PLUS

- Similar to our Lockout Kit "Deluxe" but features much more items for additional safety



Lockout Kit- Ultimate

- Over 200+ items are included in this kit



i Lockout Tagout is a top OSHA violation.

Contents:

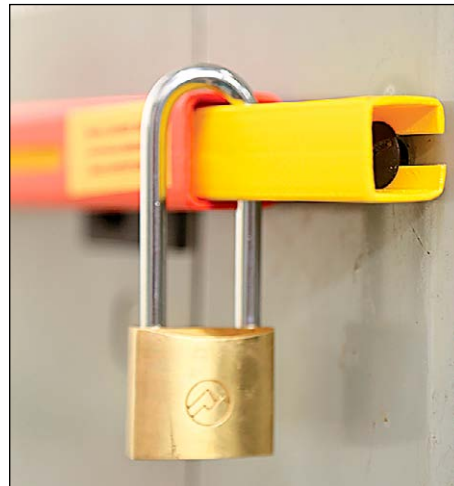
- 1 - Lockout Box, Plastic, 19"L x 9 1/2"W x 9 1/2"H
- 2 - Lockout Scissor Hasps, 1" opening
- 2 - Lockout Scissor Hasps, 1 1/2" opening
- 2 - STOPOUT® Aluma-Tag™ Hasps, 1 1/2" opening
- 3 - Steel Padlocks (keyed differently), 3/4" shackle
- 3 - Steel Padlocks (keyed differently), 1 1/2" shackle
- 100 - Labels for Padlocks
- 50 - HS-Laminate Lockout Tags
- 2 - STOPOUT® Circuit Breaker Lockouts
- 25 - STOPOUT® Circuit Breaker Lockout Tab Tags
- 2 - STOPOUT® Universal Wall Switch Lockouts
- 1 - STOPOUT® StopPlug™ Multi-Plug Lockout
- 1 - STOPOUT® StopPlug™ 110 VAC Plug Lockout
- 1 - AC Voltage Sensor
- 1 - Training Booklet

Contents:

- 1 - Lockout Box, Plastic, 19"L x 9 1/2"W x 9 1/2"H
- 2 - Lockout Scissor Hasps, 1" opening
- 2 - Lockout Scissor Hasps, 1 1/2" opening
- 2 - STOPOUT® Aluma-Tag™ Hasps, 1 1/2" opening
- 6 - Steel Padlocks (keyed differently), 3/4" shackle
- 6 - Steel Padlocks (keyed differently), 1 1/2" shackle
- 100 - Labels for Padlocks
- 50 - HS-Laminate Lockout Tags
- 2 - STOPOUT® Circuit Breaker Lockouts
- 25 - STOPOUT® Circuit Breaker Lockout Tab Tags
- 2 - STOPOUT® Universal Wall Switch Lockouts
- 1 - STOPOUT® StopPlug™ Multi-Plug Lockout
- 1 - STOPOUT® StopPlug™ 110 VAC Plug Lockout
- 1 - STOPOUT® Ball Valve Lockout, 3/8" - 1 1/4" Valve
- 1 - STOPOUT® Ball Valve Lockout, 1 1/2" - 2" Valve
- 1 - STOPOUT® Gate Valve Lockout, 1" - 2 1/2" Handle
- 1 - STOPOUT® Gate Valve Lockout, 2 1/2" - 5" Handle
- 1 - STOPOUT® Gate Valve Lockout, 5" - 6 1/2" Handle
- 1 - STOPOUT® Cinch Cable Lockout
- 1 - Training Booklet
- 1 - Magnetic Label, 3 1/2" x 5", DANGER EQUIPMENT LOCKED OUT DO NOT REMOVE LOCKS

Contents:

- 1 - Lockout Box, Plastic, 19"L x 9 1/2"W x 9 1/2"H
- 2 - Lockout Scissor Hasps, 1" opening
- 2 - Lockout Scissor Hasps, 1 1/2" opening
- 2 - STOPOUT® Aluma-Tag™ Hasps, 1 1/2" opening
- 6 - Steel Padlocks (keyed differently), 3/4" shackle
- 6 - Steel Padlocks (keyed differently), 1 1/2" shackle
- 100 - Labels for Padlocks
- 50 - HS-Laminate Lockout Tags
- 2 - STOPOUT® Circuit Breaker Lockouts
- 25 - STOPOUT® Circuit Breaker Lockout Tab Tags
- 2 - STOPOUT® Universal Wall Switch Lockouts
- 1 - STOPOUT® StopPlug™ Multi-Plug Lockout
- 1 - STOPOUT® StopPlug™ 110 VAC Plug Lockout
- 1 - AC Voltage Sensor
- 2 - STOPOUT® Ball Valve Lockouts, 3/8" - 1 1/4" Valve
- 2 - STOPOUT® Ball Valve Lockouts, 1 1/2" - 2" Valve
- 2 - STOPOUT® Gate Valve Lockouts, 1" - 2 1/2" Handle
- 2 - STOPOUT® Gate Valve Lockouts, 2 1/2" - 5" Handle
- 1 - Training Booklet
- 1 - Magnetic Label, 3 1/2" x 5", DANGER EQUIPMENT LOCKED OUT DO NOT REMOVE LOCKS



	Order number
Electrical Panel Lockout (Standard) Kit	M74-2082-U2
Lockout Clips, to fasten Panels / Pair	M74-2085-U2
6" Extension, telescoping Lockout Bar	M74-2083-U2
11" Extension, telescoping Lockout Bar	M74-2084-U2

Electrical Panel Lockout Kits

- Constructed of sturdy, non-conductive material and installs in seconds
- Be able to lock out entire circuit breaker panels with this lockout device
- Telescoping lockout bar attaches to breaker box cover screws
- Prevents removal of breaker box cover or opening of the panel box
- For use on 14"-20" inch wide breaker boxes

Contents:

Kit Includes:

- 1 - Panel lockout board
- 1 - Brass padlock with 3 keys
- 1 - Releasable tag



Contents:

- 1 - Cabinet, Steel, 16 - 1/4"H x 15"W x 5 1/2"D
- 1 - Lockout Scissor Hasp, 1" opening
- 1 - Lockout Scissor Hasp, 1 1/2" opening
- 1 - STOPOUT® Aluma-Tag™ Hasp, 1 1/2" opening
- 3 - Steel Padlocks (keyed differently), 3/4" shackle
- 3 - Steel Padlocks (keyed differently), 1 1/2" shackle
- 25 - HS-Laminate Lockout Tags
- 25 - Plastic Ties
- 2 - STOPOUT® Circuit Breaker Lockouts
- 25 - STOPOUT® Circuit Breaker Lockout Tab Tags
- 2 - STOPOUT® Gate Valve Lockouts, 1" - 2 1/2" Handle
- 2 - STOPOUT® Gate Valve Lockouts, 2 1/2" - 5" Handle
- 1 - STOPOUT® StopPlug™ Multi-Plug Lockout
- 1 - STOPOUT® StopPlug™ 110 Plug Lockout

Order no. M74-0953-U2

Lockout Tagout Center

- Store and transport your lockout devices in an industrial strength cabinet
- Lockout / Tagout products are conveniently placed on shelves inside the cabinet
- Side-hinged door has a lockable clasp for added security
- All-steel cabinet with two adjustable shelves is powder coated for durable, scratch-resistant finish - measures 16 1/4" x 15" x 5 1/2"
- Lockout Tagout is a top OSHA violation



Contents:

- 2 - Steel Padlock, 3/4" shackle
- 2 - Aluma-Tag™ Hasps, 1 1/2" opening
- 2 - Circuit Breaker Lockouts
- 25 - Circuit Breaker Lockout Tab Tags
- 10 - HS-Laminate Lockout Tags
- 1 - StopPlug™ 110 Plug Lockout
- 1 - Training Booklet
- 1 - Magnetic Label 3 1/2" x 5"; DANGER: EQUIPMENT LOCKED

Order no. M74-2106-U2

Lockout Tagout Kit

- All your lockout needs are contained in convenient and easily accessible kit
- Order as a full kit for all your needs, or order just the box to help keep your existing products organized
- 6 1/2" x 9 3/16" case is weather resistant with a dual-purpose handle that can be used to hang on the wall
- Kit contains almost every lockout product needed to contribute to your safety needs

Gate Valve Lockouts

Rugged, hinged clamshell housing fully encloses valve handles and prevents unauthorized access.

- Prevents valve handles from being turned and keeps them in their position prior to lockout
- A unique pry guard prevents the ability to insert a screwdriver in between the halves to pry them apart
- In the center, a thinner area allows for easy drilling through and attachment on rising stem gate valves
- Comes with an eye-catching safety label with red diagonal hazard stripes and space to write in pertinent lockout information
- Secures with padlocks (sold separately); shackle diameter up to 9/32"
- Red octagon shape reinforces lockout status and conveys STOP
- Available to fit five sizes of valve handle diameters



Gate Valve Lockouts					
Valve Handle Diameter	1" – 2 1/2"	2 1/2" – 5"	5" – 6 1/2"	6 1/2" – 10"	10" – 13"
Size	3" x 1"	5 1/2" x 2"	7" x 2"	10 1/2" x 3"	13" x 3 1/2"
Order number	M74-2058-U2	M74-2059-U2	M74-2060-U2	M74-2061-U2	M74-2062-U2

Ball Valve Lockouts

- Ball valve lockouts serve to prevent valves from being turned on accidentally
- Uniquely rectangular shape to encourage one to take notice
- Can attach and lockout handle either perpendicular or parallel
- Secure with a padlock (sold separately)
- Quickly and simply secure over any closed ball valve handle
- Red octagon shape reinforces lockout status and conveys STOP



Ball Valve Lockouts Size 3/8" - 1 1/4"
Order no. M74-2056-U2



Ball Valve Lockouts Size 3/8" - 1 1/4"
Order no. M74-2057-U2

Laminated Steel Padlocks

The durable security device features hardened steel shackles and laminated steel construction.

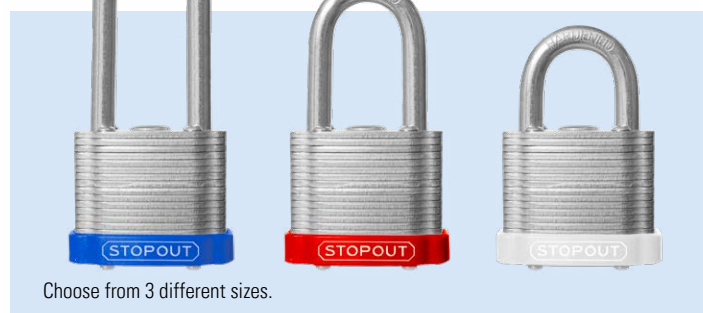
- Heavy-duty lock utilizes a special coating for corrosion resistance
- 5-pin tumbler, drilling and pulling protected
- Lock measures in 1/4" shackle diameter and 13/16" apart steel shackle
- STOPOUT® Lockout Kits

Differently Keyed Laminated Steel Padlocks			
Shackle Clearance Height	3/4"	1 1/2"	2"
Order number* Black	M74-2204-U2	M74-2214-U2	M74-2224-U2
Order number* Blue	M74-2205-U2	M74-2215-U2	M74-2225-U2
Order number* Green	M74-2201-U2	M74-2211-U2	M74-2221-U2
Order number* Orange	M74-2206-U2	M74-2216-U2	M74-2226-U2
Order number* Purple	M74-2207-U2	M74-2217-U2	M74-2227-U2
Order number* Red	M74-2200-U2	M74-2210-U2	M74-2220-U2
Order number* White	M74-2203-U2	M74-2213-U2	M74-2223-U2
Order number* Yellow	M74-2202-U2	M74-2212-U2	M74-2222-U2

*Keyed alike and Master keyed options available online



Available in 8 colors.



Choose from 3 different sizes.



Aluma-Tag™ Hasps

These devices provide the ideal solution when procedures require multiple workers on locked-out equipment. Workers can be assigned a padlock (sold separately) with shackle diameter up to 9/32" to attach to the hasp before starting their task. Ensure the energy source stays locked out — with multiple workers' padlocks in the holes of the closed hasp. Once each worker completes their task, they remove their padlock. The hasp cannot be removed until the last padlock is removed.

- Lock out more equipment with the large reach hasp made to withstand tough environments
- Traditional OSHA-style signs, tags and labels are the most widely recognized design format in the industry
- Comes with bright contrasting red/white/black lockout hazard message labels on both sides - which allows space for writing in necessary information
- Scissor-style hasp comprised of two high-strength .090 aluminum pieces
- Features six eyelets to hold up to six padlocks
- Crossover jaw ends prevent prying and tampering
- Get true 1 1/2" round reach with the full jaw opening
- Red octagon shape reinforces lockout status and conveys STOP

	Aluma-Tag™ Hasps		
Version	LOCKED OUT - DO NOT OPERATE	DO NOT OPERATE	DO NOT START
Size	7"H x 2 3/4"W		
Order number	M74-0952-U2	M74-0956-U2	M74-2054-U2



Double Cross Aluma-Tag™ Hasps

Lock out equipment with large reach, pry-resistant hasps

- Two red anodized, .090" aluminum plates make up this high-strength, versatile hasp
- Double-crossed, octagon-shaped jaws are offset to cross over one another when closed, preventing the hasp from being easily pried apart
- Openings provide optimal reach: 1 3/4" diameter on one end, 3/4" on the other
- Measures 7"H x 3 1/8"W (2 3/4" in the body) with hazard message labels on both sides
- Red octagon shape reinforces lockout status and conveys STOP

	Double-Cross Aluma-Tag™ Hasps	
Version	LOCKED OUT - DO NOT OPERATE	DO NOT OPERATE
Size	7"H x 3 1/8"W (2 3/4" in the body)	
Order number	M74-0954-U2	M74-0955-U2



Gas Cylinder Lockout Caps

- This cylinder cap was designed to fit universally on all high- and low-pressure gas systems
- Snap Cap™ completely covers main cylinder control and regulator attachment
- Snap downside arm and secure device with padlock (included)
- Yellow powder-coated, welded steel construction
- Meets DOT standards
- 6 1/2" x 3 1/8" x 11" UN

	Gas Cylinder Lockout Caps			
Version	High Pressure		Low Pressure	
Fits to	Fine Thread	Coarse Thread	Fine Thread	Coarse Thread
Order number	M74-2064-U2	M74-2065-U2	M74-2066-U2	M74-2067-U2



Twist 'N Lock Cinch Lockout Hasps

Run the cable through various devices; then, with a quick twist of the hasp, cinch the cable to prevent unauthorized access.

- Prevent unauthorized access of various devices with quick twist and cinch of lockout hasp
- Easy-to-use cable and cinch lockout hasp solution
- Polycarbonate, compact hasp comprised of two 3" dia. x 1 1/2" thick rotating halves with red plastic-coated steel cable
- Visible red octagon shape reinforces the lockout situation
- To use, insert the cable through the devices to lock out; then pull the cable taut
- Short 15° turn of the hasp halves tightens down and cinches the cable in place
- Pin pops up to hold the device in the secured position and lines up the four padlock holes
- Place lockout tag and up to four padlocks (available separately) in the open holes to secure in place



Twist 'n Lock Cinch Lockout Hasps



Size	Order number
Hasp with 3-ft. cable	M74-0957-U2
Hasp with 6-ft. cable	M74-0958-U2
Hasp with 9-ft. cable	M74-0959-U2
Hasp with 12-ft. cable	M74-0960-U2

Scissor-Lok™ Cable-Hasps

Use to loop and lock out multiple electrical boxes, switch handles, and much more. The vinyl-coated steel cable loops through switch handle holes, hand wheel spokes, or any other handle openings on equipment to be locked out.

- Vinyl-coated steel cable loops help securely loops with the lockout hasp
- Able to accommodate 3 padlocks at once
- Compact, scissor-style, nylon plastic hasp closes to 1" x 4 1/2" x 5/8"
- STOPOUT® Lockout Kits



Cable-Hasp, yellow
Order no. M74-2052-U2



Order no. M74-2050-U2

	Scissor-Lok Cable-Hasps	
Cable Length	3 ft	10 ft
Order number Red	M74-2050-U2	M74-2051-U2
Order number Yellow	M74-2052-U2	M74-2053-U2

Tag 'N Hang Hasp

Change out, insert, and secure a tag for each lockout situation with this Tag 'N Hang Hasp

- 5 1/4-in x 3-in hasp fits in the palm of the hand
- Lightweight, all-dielectric plastic design
- Stop-shaped octagon front panel contains changeable Tab Tag (sold separately below)
- Hasp hangs by the 1 3/8" x 2 3/4" closed oval loop
- Secures with up to three padlocks (sold separately)



Order no. M74-0965-U2



Multi-Power Electrical Plug Lockout Box
Order no. M74-2077-U2

Multi-Power Electrical Plug Lockout Box

- Make maintenance and repairs safer with this quick and easy to deploy lockout device
- Sized to contain and isolate the large connector head of an industrial battery connector
- Various openings can lockout propane connector, valve end, electrical plug, 12-volt battery end, and gas cylinder head
- Lockout a wide variety of machine and energy sources
- 6 1/4" x 3 3/8" x 2 1/2" with a hinged red plastic case with 1/2" flange for four 5/16" hole openings to secure by padlocks (sold separately)

StopPlugs™

Prevent accidental plug-in of power cord or any sort of unauthorized action



- Insert plug, close, and secure with padlock (sold separately – shackle diameter up to 9/32")
- Tamper-proof, pry-guard edge design
- Red octagon shape reinforces lockout status and conveys STOP
- STOPOUT® Lockout Kits

Model	110 VAC Plug Lockout	Multi-Plug Lockout
External Dimensions (vent hoods included) W x D x H (in)	3.5 x 2.25 x 2.25	6 x 3 x 3
Order number	M74-2076-U2	M74-2075-U2
Accessories	Warning Label, English, French, Spanish	
Order number	M74-2079-U2	M74-2078-U2

Blind Flange Lockout



Effectively lockout and prevent unintentional pipe blind removal during maintenance. The adjustable Blind Flange Lockout fully conceals flange bolts, eliminating the opportunity to remove ALL bolts and prevent removal of blind.

- Constructed of durable, high-impact plastic to withstand harsh environments
- Ideal for use in temperature of -4°F to 140°F
- Maximum shackle diameter 9/32"
- Adjustable device provides a tight fit

Model	Small	Medium	Large
Class 150 Nut Diameter	.62" - .88"	.75" - .88"	1"
Class 150 Pipe Diameter	.5", .75", 1.0", 1.25", and 1.5"	2.0", 2.5", 3.0", 3.5" 4.0", 5.0", 6.0", and 8.0"	10" and 12"
Class 300 Nut Diameter	.62" - .88"	.75" - 1.0"	1"
Class 300 Pipe Diameter	.5", .75", 1.0", and 1.25"	2.0", 2.5", 3.0", 3.5" 4.0", 5.0", and 6.0"	8.0"
Pipe Flange Width Range	1-1/2" - 5-5/8"	3-3/4" - 10-3/4"	7-3/4" - 17-7/8"
Order number	M74-2068-U2	M74-2069-U2	M74-2070-U2

Transparent Gate Valve Lockouts

Transparent Gate Valve Lockout allows for visual inspection of the valve position and condition without having to remove the lockout device.



- Constructed of rugged injection-molded plastic for superior impact and chemical resistance
- Knockout center fits Outside Stem & Yoke (OS&Y) or rising stem valves
- Secure with padlocks or hasp (sold separately); shackle size up to 3/8" in diameter
- Service Temperature Range -400° F to 302° F
- STOPOUT® Lockout Kits

Compatibility	1" - 2 1/2"	2 1/2" - 5"	5" - 6 1/2"	8 1/2" x 10"
Order number	M74-2071-U2	M74-2072-U2	M74-2073-U2	M74-2074-U2

Cinch Cable Lockouts

- Easily lockout multiple devices quickly, effectively, and neatly
- Unique hexagonal shape of the device conveys STOP
- Lockout contains internal cable spooling feature to extend and loop the 6-ft. nylon-coated, steel cable through several devices to lock them out quickly, simply, and neatly and loop the 6-ft. nylon-coated, steel cable through several devices to lock them out
- When cable is cinched tight, device can then be secured with a padlock (sold separately)
- When the cable is pulled tight, it automatically holds
- Durable plastic cinching lockout device measures 3 1/3" x 4" x 1" and is the only standard size lockout device that will spool the cable all the way inside the device for easy storage
- When finished, spool the cable back inside the device for neat, easy storage
- Octagon shape reinforces lockout status and conveys STOP



	Cinch Lockout with 6-ft. cable
Order number	M74-0961-U2
Accessories	Optional 15 ft. Cable
Order number	M74-0962-U2



Lockout Tagout is a top OSHA violation.

Drum Lockouts

Secure standard 55 gallon metal and plastic storage drums around the lip seal.

- Prevent drum access, contamination, theft, and mishandling during transportation
- Secures around the "lip" by completely covering bung opening without removing the original seal plug
- Non-sparking, environmentally safe, zinc die-cast construction
- Never touches the chemical, and does not rust in moist conditions
- Accommodates up to 9/32" shackle padlock (sold separately) or security pin (not included)
- Available as a set - contains lockout devices for both openings of one standard metal and plastic 55-gallon drum



Lockout Set for Steel Drums

Order no. M74-2080-U2

Order no. M74-2081-U2

Aluminum Lockout Boards

Durable aluminum boards are protected by Duck Armor™ and feature aluminum pronged hooks to hang padlocks and lockout hasps. Thick, molded, clear poly pocket measures 4 3/4"H x 3 5/8"W x 2"D to hold lockout tags. Designed for tough environments. Available in 6- and 12-padlock capacity sizes along with 1- and 2-pockets, respectively.

- Center boards communicate the lockout safety message while storing lockout supplies
- The printed backboard sign is designed so that your padlocks, tags, and lockout devices are conveniently available and easily accessible
- Hang the center boards near equipment and machinery, or in a central location in your plant
- STOPOUT® Lockout Kits

Language	English	French/English	Spanish/English
External Dimensions (vent hoods included) W x D x H (in)		24 x 4.5 x 30	
Internal Dimensions W x D x H (in)		23 x 4 x 5.8	
Order number - Board Only	M74-2098-U2	M74-2099-U2	M74-2100-U2
Order number - Board with Kit	M74-2095-U2	M74-2096-U2	M74-2097-U2



Order no. M74-2095-U2

Contents:
 6 Steel Padlocks, 3/4" shackle
 25 HS-Laminate Plastic Tags - Locked out Do Not Operate
 25 Plastic Ties
 2 STOPOUT® Aluma-Tag™ Tag Label Hasps
 3 Standard Style Scissor Hasps, 1" opening
 2 Standard Style Scissor Hasps, 1 1/2" opening
 25 Lockout Safety Booklets



Order no. M74-2100-U2

Aluminum Lockout Boards

Durable aluminum boards are protected by Duck Armor™ and feature aluminum pronged hooks to hang padlocks and lockout hasps. Thick, molded, clear poly pocket measures 4 3/4"H x 3 5/8"W x 2"D to hold lockout tags. Designed for tough environments. Available in 6- and 12-padlock capacity sizes along with 1- and 2-pockets, respectively.

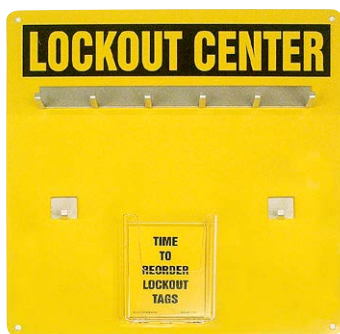
- Center boards communicate the lockout safety message while storing lockout supplies
- The printed backboard sign is designed so that your padlocks, tags, and lockout devices are conveniently available and easily accessible
- Hang the center boards near equipment and machinery, or in a central location in your plant
- STOPOUT® Lockout Kits
- Available in three languages

Contents:

6 steel Padlocks
10 Laminated Plastic Tags -
Locked out Do Not Operate
10 Plastic Ties
1 Standard Style Scissor Hasp, 1"
opening
1 Standard Style Scissor Hasp, 1 1/2"
opening

Contents:

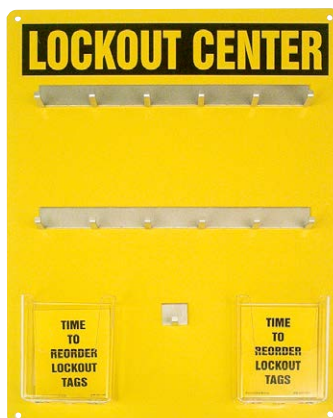
6 steel Padlocks
10 Laminated Plastic Tags -
Locked out Do Not Operate
10 Plastic Ties
1 Standard Style Scissor Hasp,
1" opening
1 Standard Style Scissor Hasp,
1 1/2" opening



Order no. M74-2089-U2



Order no. M74-2087-U2



Order no. M74-2093-U2



Order no. M74-2091-U2

Language	English		French	
Model	for 6 Padlocks	for 12 Padlocks	for 6 Padlocks	for 12 Padlocks
External Dimensions W x H (in)	14 x 14	20 x 14	14 x 14	20 x 14
Internal Dimensions W x D x H (in)	3.6 x 2 x 4.8	3.6 x 2 x 4.8	3.6 x 2 x 4.8	3.6 x 2 x 4.8
Order number - Board Only	M74-2089-U2	M74-2093-U2	M74-2090-U2	M74-2094-U2
Order number - Board with Kit	M74-2087-U2	M74-2091-U2	M74-2088-U2	M74-2092-U2



Order no. M74-0951-U2

Aluminum Lockout Boards

- Organize lockout devices and tags with a padlock lockout center
- STOPOUT® Lockout Kits

All your lockout needs are contained in a kit, making it convenient, easily accessible, and portable. Kits contain a variety of lockout devices and accessories for shutting down equipment and machinery before conducting maintenance or repairs. Choose from several kits to help you solve your lockout situations and provide the necessary equipment to help you comply with OSHA safety lockout requirements. Durable, rugged polyethylene boxes have carried handles and room for you to add more components to customize your kits.

Contents:

6 - Steel Padlocks,
3/4" shackle (keyed differently)
10 - HS-Laminate Lockout Tags
10 - Plastic Ties
1 - Scissor Hasp,
1" opening
1 - Scissor Hasp,
1 1/2" opening

Handheld Inspection Mirrors

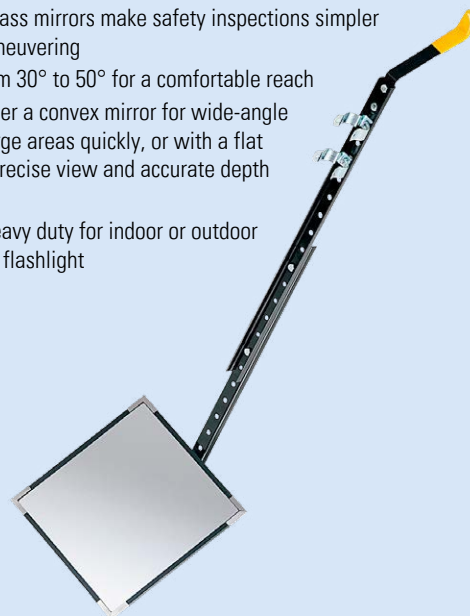
- This mirrors can conveniently be held in hand to inspect various equipment
- Ergonomic chrome arm adjusts from 25° to 30°
- Slip-resistant finger grip handle
- Glass mirror has a metal backer and ball swivel mount
- Ideal for maximum portability



External Diameter [in]	6	8
Shipping Weight	5	5
Order number	M74-0970-U2	M74-0971-U2

Inspection Mirrors

- Easily inspect under equipment, tanks, machinery, and vehicles
- Sturdy, wheeled glass mirrors make safety inspections simpler with effortless maneuvering
- Handle adjusts from 30° to 50° for a comfortable reach
- Available with either a convex mirror for wide-angle viewing to scan large areas quickly, or with a flat mirror for a more precise view and accurate depth perception
- Deluxe model is heavy duty for indoor or outdoor use and includes a flashlight



Version	Flat	Convex
External Dimensions W x D (in)	12 x 12	12 x 12
Shipping Weight	11	11
Order number	M74-0982-U2	M74-0981-U2

8" Convex Inspection Mirror

- 20 percent brighter than glass
- 35" angled handle with vinyl grip



External Diameter [in]	8
Shipping Weight	7
Order number	M74-1105-U2

Inspection Mirror with Wheels and Light

- Deluxe Model for quality view and great mobility
- LED light mounted for upward exposure
- 50" angled handle with vinyl grip
- Articulated wheel assembly for easy directional adjustment



External Diameter [in]	12
Shipping Weight	12
Order number	M74-1104-U2

Half-Dome Acrylic Safe Mirrors - 180 degrees

- Improve visibility and safety with high-grade, optically sharp safety mirror
- Provides large viewing areas
- Comes with adjustable hardware
- Ideal for hallways, aisles, and docks



	180 degrees Half-Dome		
External Diameter [in]	18	26	36
Shipping Weight	2	7	7
Order number	M74-0978-U2	M74-0979-U2	M74-0980-U2

Half and Full-Dome Acrylic Safety Mirrors - 360 degrees

- Dome mirrors are perfect for any high traffic industrial area
- Crisp clear reflection allows for additional safety when entering blind spots
- Lightweight design ensures surveillance in the most hazardous of places
- Hanging hardware is included for maximum efficiency
- Use full dome for four-way intersection or panoramic view



Version	Half Dome			Full Dome			
External Diameter [in]	18	28	34	18	28	34	36
Shipping Weight [lbs]	3	5	10	5	9	15	18
Order number	M74-1094-U2	M74-1095-U2	M74-1096-U2	M74-1090-U2	M74-1091-U2	M74-1092-U2	M74-1093-U2

Full-Dome Acrylic Safety Mirrors - 360 degrees

- Dome mirrors allow you to have a large viewing area and improve safety in a facility
- Large viewing areas for overhead viewing at blind corners, intersections, entrances, and exits
- Full-dome for four-way intersection or panoramic view

	360 degrees Full-Dome		
External Diameter [in]	18	26	36
Shipping Weight	5	10	35
Order number	M74-0983-U2	M74-0984-U2	M74-0985-U2



Convex Safety Mirrors - Glass

- Improve overall visibility and safety in a facility
- Wide angle viewing – 160°+ viewing angle
- Install in low ceiling areas and small viewing areas
- Durable and warp-resistant

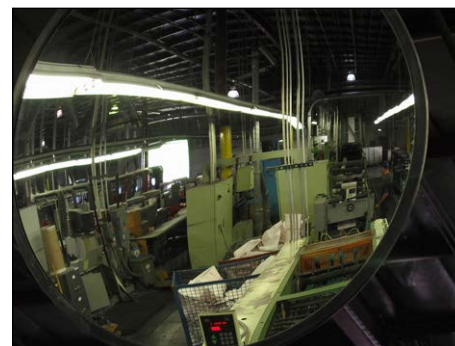
	Convex Safety Mirror - Glass		
External Diameter [in]	12	18	26
Shipping Weight	3	5	15
Order number	M74-0972-U2	M74-0973-U2	M74-0974-U2



Wide View Convex Mirrors

- Provides wider angle of visual space than flat mirrors
- Lightweight design made from the finest quality materials
- Comes standard with hanging or mounting hardware

Usage	Outdoor		
External Diameter [in]	18	26	36
Shipping Weight [lbs]	8	17	23
Order number	M74-0975-U2	M74-0976-U2	M74-0977-U2



Convex Industrial Mirrors - Acrylic

- Eliminate those blind spots and danger areas found in industrial settings
- Lightweight design made from the finest quality materials
- Easy to mount
- Comes standard with hanging or mounting hardware



Usage	Indoor				Outdoor			
	12	18	26	30	18	26	30	36
External Diameter [in]	4	5	10	12	10	16	20	28
Shipping Weight [lbs]	M74-0986-U2	M74-0987-U2	M74-0988-U2	M74-0989-U2	M74-0990-U2	M74-0991-U2	M74-0992-U2	M74-0993-U2
Order number								

Wide View Convex Mirrors

- Provides wider angle of visual space than flat mirrors
- Lightweight design made from the finest quality materials
- Comes standard with hanging or mounting hardware



for Indoor use



For Outdoor and Indoor use

Usage	Indoor			Outdoor		
External Diameter [in]	4	5	7	4	5	7
Shipping Weight [lbs]	6	12	21	8	16	24
Order number	M74-1098-U2	M74-1099-U2	M74-1100-U2	M74-1101-U2	M74-1102-U2	M74-1103-U2



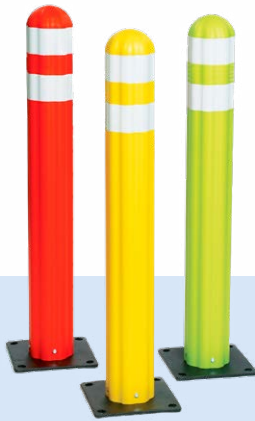
Ornamental Steel Bollards,
Removable
Order no. M75-1306-U2

Removable Ornamental Steel Bollard

Provide an attractive yet functional barrier to vehicle access and parking. Bollards are 4-1/2" in diameter, while rings make the overall diameter 6". Padlock not included. The bollard locks into a galvanized steel socket that is cemented into the ground. When the bollard is removed, a cover plate protects the hole leaving no protrusion above the surface. A galvanized base is included with the bollard.

- Steel constructed barrier offers solid reliable protection
- Built in chain attachment eyes provide added protection
- Attractive design - powder coat black offers a long-lasting finish

Height	47
External Dimensions W x D (in)	7.3 x 5.1
Shipping Weight [lbs]	121
Order number	M75-1306-U2



Poly-Guide Post Bollards

- Highly visible post bollards stand out when placed in crowded areas
- Brightly colored, high-density polyethylene plastic posts
- Lightweight and portable, yet durable and weather-resistant
- Add an internal sandbag to increase stability and weight

Color	Orange	Yellow	Lime
External Dimensions W x D x H (in)	10 x 10 x 24	10 x 10 x 24	10 x 10 x 24
Shipping Weight [lbs]	6	6	6
Order number	M61-3052-U2	M61-3051-U2	M61-3050-U2



Corner and Wall Protectors

- Made of durable polyethylene, protectors are quick and simple to install, using the provided hardware kit
- Sturdy material does not require constant upkeep
- Reduce maintenance costs around your facility by reducing chips, dents and dings to walls and corners
- Eye-catching, safety yellow color promotes visibility, warning workers to stay alert and stay clear



Version	Wall Protector	Corner Protector
External Dimensions W x D x H (in)	6 x 2 x 48	5.8 x 5.6 x 42
Shipping Weight [lbs]	7	5
Order number	M62-2114-U2	M62-2113-U2

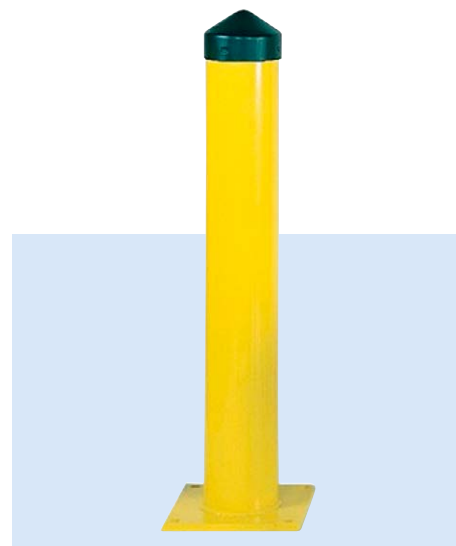
Steel Post Bollards Body

- Protect people and prevent damage to your facility by posting these bollards up
- Constructed of 1/4" thick steel mounted on 3/8" thick plate
- Four pre-drilled 3/4" mounting holes in base plate for easy installation

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External Height [in]	36		42	
External Dimensions W x D x H (in)	8 x 8 x 36	10 x 10 x 36	8 x 8 x 42	10 x 10 x 42
External Dimensions W x D (in)	8 x 8	10 x 10	8 x 8	10 x 10
Shipping Weight [lbs]	45	65	50	72
Order number	M61-3053-U2	M61-3054-U2	M61-3055-U2	M61-3056-U2

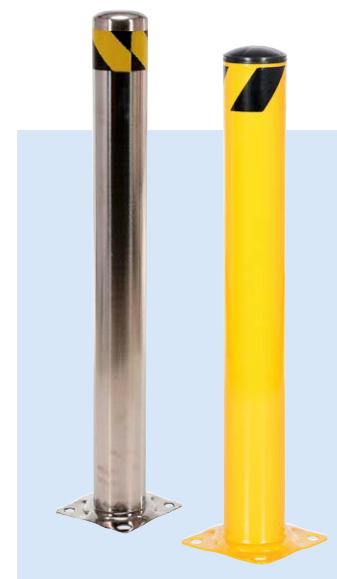


Steel Pipe Safety Bollard

- Safety pipe design can be used either inside or out
- Heavy-duty welded steel construction provides long-lasting protection
- Base plate includes four pre-drilled mounting holes for quick and easy installation
- Powder coat safety yellow finish offers an attractive long-lasting look



Material	Steel				Stainless-Steel			
Height [in]	36		42		36		42	
External Dimensions W x D (in)	4 x 4	8 x 8	4 x 4	8 x 8	4 x 4	8 x 8	4 x 4	8 x 8
External Diameter [in]	2	5	6	2	5	6	5	5
Shipping Weight [lbs]	9	22	29	10	26	34	25	28
Order number	M75-1300-U2	M75-1301-U2	M75-1302-U2	M75-1311-U2	M75-1303-U2	M75-1304-U2	M75-1324-U2	M75-1309-U2



Steel Pipe Bollard with Chain Slots

Create barriers around workstations, machinery, and outdoor space. Ideal for indoor and outdoor applications. Easy to assemble. The chain slots hold chain connected to other bollards.

- Safety pipe design can be used either inside or out
- Powder coat safety yellow finish offers an attractive long-lasting look
- Heavy-duty welded steel construction provides long-lasting protection
- Base plate includes four pre-drilled mounting holes for quick and easy installation

Height [in]	36	42
External Dimensions W x D (in)	8 x 8	8 x 8
External Diameter [in]	4.5	4.5
Shipping Weight [lbs]	24	27
Order number	M75-1344-U2	M75-1305-U2



Comes with removable bolt-on steel top cap with socket setscrew



Pour In Place Bollards

Make your bollards permanent by setting them in concrete. The extra length of the Pour in Place Bollard allows you to maintain the needed height while fixing the bollard in concrete. Bollard comes with slide through lag anchors and a removable cap (except models with outside diameter of 6-5/8" are open topped, no cap) so the bollard can be filled with concrete to increase its strength and durability. Baked-in powder-coated or hot dipped galvanized finish for added toughness. Assembly required.

- Safety pipe design can be used either inside or out
- Powder coat safety yellow or Galvanized finish offers an attractive long-lasting look
- Heavy-duty steel construction provides long-lasting look
- Slide through lag anchors secure bollard in poured concrete

Height [in]	53	53
External Dimensions W x D (in)	12.6 x 12.6	12.6 x 12.6
External Diameter [in]	5.6	4.5
Shipping Weight [lbs]	37	35
Order number	M75-1307-U2	M75-1347-U2

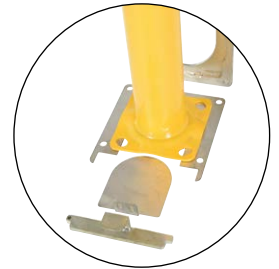
Surface Mounted Safety Bollards - removable

Bollards can be used both indoors and outdoors to protect work areas, racking, and personnel. Surface mounted zinc coated steel base plate allows for quick and easy bollard removal. Steel base plate is bolted in place. Guard is easily inserted into base plate then secured in place. A padlock may be added to prevent unauthorized removal (padlock not included) Base plate measures 10-1/4"W x 10-1/2"L x 2"H height and include four (4) pre-drilled mounting holes. Plastic top caps are removable. Baked-in yellow powder coat finish for added toughness. Welded steel construction.

- Safety pipe design can be used either inside or out
- Powder coat safety yellow finish offers an attractive long-lasting look
- Heavy-duty welded steel construction provides long-lasting look
- Surface-mounted steel base plate allows for quick & easy bollard removal



Protect your bollards with padlocks, optional



Easy to mount, easy to remove

Height [in]	36	42
External Dimensions W x D (in)	10.25 x 10.25	
External Diameter [in]	4.5	5.5
Shipping Weight [lbs]	32	35
Order number	M75-1348-U2	M75-1349-U2
		M75-1308-U2
		M75-1350-U2



Tanks and IBC Totes

See page
166



Drum Handling Equipment

See page
138



Heavy Duty Steel Column Protector

- 2-piece, heavy gauge steel protectors wrap around posts and beams for high protection
- Interior clearance of 20x20 inches protects a wide variety of beam sizes
- Connecting hardware for joining the 2 segments
- Sturdy base plates are pre-drilled for anchoring (anchors not included)
- Long lasting powder coat finish in traffic yellow for high visibility

Version	24" High	36" High	48" High
External Dimensions W x D (in)	29 x 35	29 x 35	29 x 35
Internal Width [in]	20	20	20
Internal Depth [in]	20	20	20
Shipping Weight [lbs]	125	137	140
Order number	M65-2510-U2	M65-2515-U2	M65-2520-U2



90° Corner Guards

- Protect corners of equipment and facilities
- 90° bend fits snugly around corners to protect assets from a traffic flow area
- Base plates are predrilled for fastening (anchors not included)



Version	24" High		36" High		42" High	
External Dimensions W x D (in)	24.6 x 24.6	30.6 x 30.6	24.6 x 24.6	30.6 x 30.6	24.6 x 24.6	30.6 x 30.6
Shipping Weight [lbs]	96	108	108	114	116	120
Order number	M62-3015-U2	M62-3024-U2	M62-3018-U2	M62-3027-U2	M62-3021-U2	M62-3030-U2



High Profile Machinery Guards

- Four pre-drilled mounting holes in base plate allow quick lag down installation
- Powder coat yellow finish provides long lasting durable coverage
- Heavy-duty welded steel construction protects racks, building walls, expensive equipment, and hundreds of other applications



High Profile Machinery Guards,
Diameter 4-1/2 inch, Stainless Steel



High Profile Machinery Guards,
Diameter 4-1/2 inch



High Profile Machinery Guards, Diameter 1-11/16 inch

Material	Steel														Stainless-Steel			
Exterior Length (in)	38.4			40.2			50.4			52.2			64.1	76.2	40.3		52.2	
Height [in]	24.4	36.4	42.4	24.6	36.6	42.6	24.4	36.4	42.4	24.6	36.6	42.6	42.6	42.6	36.3	42.3	36.3	42.3
External Diameter [in]	1.7	1.7	1.7	4.5	4.5	4.5	1.7	1.7	1.7	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Shipping Weight [lbs]	15	20	22	50	60	72	30	22	30	55	60	80	130		100	105		110
Order number	M75-1325-U2	M75-1327-U2	M75-1329-U2	M75-1331-U2	M75-1333-U2	M75-1335-U2	M75-1326-U2	M75-1328-U2	M75-1330-U2	M75-1332-U2	M75-1334-U2	M75-1310-U2	M75-1336-U2	M75-1337-U2	M75-1338-U2	M75-1340-U2	M75-1339-U2	M75-1341-U2



Hazard Stripes Belt

CAUTION - DO NOT ENTER

CAUTION - DO NOT ENTER Belt

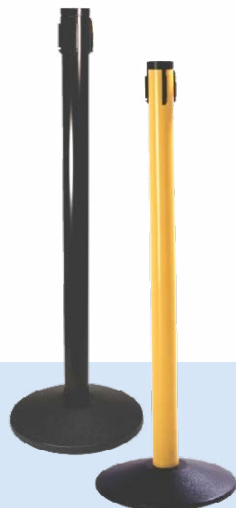
Outdoor Retractable Belt Tape Post, showing hazard stripe belt, available in 10' and 15' length.

Outdoor Retractable Belt Tape Posts

Sturdy aluminum stanchion is ideal for use outdoors and in tough indoor environments.

- 2 1/2" diameter aluminum post measures 40" high with a sturdy 14" diameter base
- Uses rust-proof stainless steel hardware
- Belt top has 2" wide retractable belt tape with ergonomic, rounded corner belt end and noticeable red slide action lock
- Can accept up to three additional belt ends from other belt tape posts
- Available with either 10-ft. or 15-ft. belt tape with contrasting black and yellow hazard stripes or Caution message

Belt Tape Version	Hazard Stripes	Caution Message
Design	Black Post, Head, & Base	Black Post, Head, & Base
Order number - 10" Belt Tape	M62-4023-U2	M62-4024-U2
Order number - 15" Belt Tape	M62-4025-U2	M62-4026-U2



Outdoor Belt Tape Receiver Posts

- Sturdy aluminum stanchion is ideal for use outdoors and in tough indoor environments
- 2 1/2-inch diameter aluminum post measures 40 inches high with a sturdy 14-inch diameter base
- Features rust-proof stainless steel hardware
- Accepts up to four additional belt ends from other belt tape posts
- Post does not contain belt tape

Model	For a 10 ft Belt	For a 15 ft Belt
External Dimensions Dia x H (in)	14 x 40	14 x 40
Shipping Weight [lbs]	57	57
Order number Yellow	M62-4013-U2	M62-4014-U2
Order number Black	M62-4015-U2	M62-4016-U2

Indoor Retractable Belt Tape Posts

- Use for crowd control and guiding pedestrian traffic, or as a barrier to prevent entry
- Stanchion post has a clean, durable design for indoor use
- 2 1/2" diameter steel post measures 40" high with a sturdy 14-inch diameter base
- Belt top has 2" wide retractable belt tape with ergonomic, rounded corner belt end and noticeable red slide action lock
- Can accept up to three additional belt ends from other belt tape posts
- Post and belt color is black
- Choose between either 10-feet or 15-feet belt tape

Model	10 ft	15 ft
External Dimensions Dia x H (in)	14 x 40	14 x 40
Shipping Weight	57	57
Order number	M62-4017-U2	M62-4018-U2



Utility Retractable Belt Tape Posts

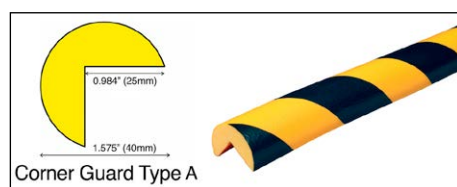
- Made of industrial-strength aluminum for the toughest environments to direct foot traffic
- Heavy-duty belt tapes resist fraying or puckering
- Features eye-catching black and yellow hazard stripe design



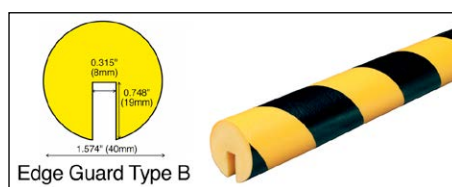
Version	Post with 10 ft Belt Length	Post with 15 ft Belt Length
External Dimensions W x D x H (in)	15 x 15 x 40	15 x 15 x 40
Shipping Weight [lbs]	23	30
Order number	M62-4012-U2	M62-4011-U2

Protective Bumper Guards

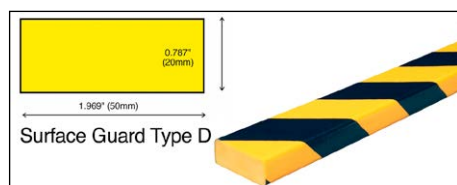
- Reduce the risk of injury from protruding corners, edges, and obstacles
- Use protective bumper guards to ensure potentially hazardous surfaces are covered
- Film cover protects colors from fading, even with heavy use
- Visual warning with black hazard stripes on a yellow background
- Long-lasting polyurethane foam protects workers from sharp and hard edges
- All bumper guards are 39 3/8 inches long



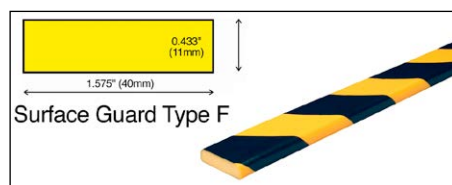
Corner Guard Type A, Order no. M62-2115-U2



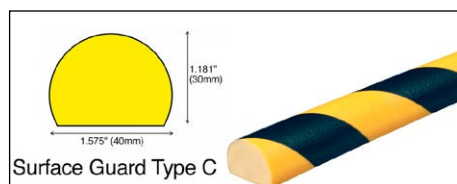
Edge Guard Type B, Order no. M62-2116-U2



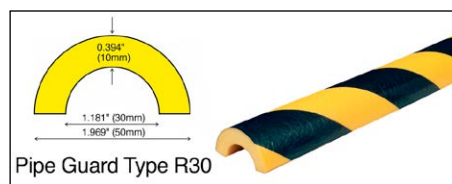
Surface Guard Type D, Order no. M62-2119-U2



Surface Guard Type F, Order no. M62-2120-U2



Surface Guard Type C, Order no. M62-2117-U2



Pipe Guard Type R30, Order no. M62-2121-U2



Why use Personal Protective Equipment?

Personal protective equipment, commonly referred to as "PPE", is equipment worn to minimize exposure to serious workplace injuries and illnesses. These injuries and illnesses may result from contact with chemical, radiological, physical, electrical, mechanical, or other workplace hazards. Personal protective equipment may include items such as gloves, safety glasses, respirators, coveralls, and fully encapsulated suits.

Employers are responsible for providing a safe and healthy workplace for their employees. OSHA (Occupational Safety and Health Administration) regulations such as 1910.132(a) are an important basis for this. "Protective equipment,

including personal protective equipment for eyes, face, head, and extremities, protective clothing, respiratory devices, and protective shields and barriers, shall be provided, used, and maintained in a sanitary and reliable condition wherever it is necessary by reason of hazards of processes or environment, chemical hazards, radiological hazards, or mechanical irritants encountered in a manner capable of causing injury or impairment in the function of any part of the body through absorption, inhalation or physical contact."

Eye Protection

The Challenge: Eye Injuries are Prevalent in the Workplace

Every day, approximately 2,000 U.S. workers sustain a work-related eye injury that requires medical treatment. This is a problem for both employers and their workers, because about 1 in 10 injuries require one or more missed workdays to recover.

Eye Injuries occur for two main reasons:

- Nearly three out of every five workers injured are not wearing eye protection at the time of the accident.
- 40% of the injured workers were wearing some form of eye protection when the accident occurred. However, these workers were most likely to be wearing protective eyeglasses that offered inadequate eye protection.



Hand Protection

Gloves are relied upon to prevent cuts, abrasions, burns, and skin contact with chemicals. Employers are required to provide workers with gloves suited specifically for each work task that will provide the best protection possible.



Respiratory Protection

Respirators protect employees from inhaling harmful substances, including chemical, biological, and radiological agents. These substances can be in the form of airborne vapors, gases, dust, fogs, fumes, mists, smokes, or sprays.



Fall Protection

The ANSI/ASSE Z359 Fall Protection Standards System provides the requirements to help minimize serious injuries often caused by misuse, poor product selection, inadequate training, or possibly damaged/worn fall protection equipment.

This document provides a basic understanding of the standards and the key changes that have either been incorporated or are in development. It is intended to provide an overview of the standards only. It is not an exhaustive, all-inclusive, account of every change in all the included or planned standards.



Ansell Hyflex Foam 11-800

- Big Comfort when handling small parts
- Foam Nitrile coating channels oil away from gloves surface for sure grip in light oil
- Molds naturally to the hand, minimizing fatigue and providing exceptional, unmatched comfort
- ANSI level 1 cut resistance, ANSI level 3 abrasion resistance
- Certified skin friendly by Oeko-Tex™



Ansell

	Ansell Hyflex Foam Gloves 11-800		
Size	7	8	9
Quantity per Pack	12	12	12
Order number	M74-1894-U2	M74-0919-U2	M74-0916-U2

Ansell Hyflex Foam 11-801

- Light-Duty Multi-Purpose Gloves
- Safety without sacrificing performance
- Foam nitrile palm coating offers maximum tactile sensitivity in the finger area for exceptional feel
- Enables excellent fit and performance to maintain high productivity
- Ultra-cool stretch nylon line
- Machine washable
- ANSI level 1 cut resistance, ANSI level 3 abrasion resistance



Ansell

	Ansell Hyflex Foam Gloves 11-801	
Size	9	10
Quantity per Pack	12	12
Order number	M74-0917-U2	M74-0918-U2

Ansell Nitrile Gloves

- High performance nitrile compound provides an outstanding combination of chemical resistance and strength
- Offers superior snag, puncture, and abrasion protection over rubber or neoprene gloves
- High levels of flexibility, comfort, and dexterity
- Won't swell, weaken, or degrade



Ansell

	Ansell Nitrile Gloves		
Size	S	M	L
Quantity per Pack	50 pair	50 pair	50 pair
Order number	M74-0910-U2	M74-0911-U2	M74-0912-U2

Neoprene Short Gloves

- Provide excellent protection from petroleum, oils and lubricants (POLs), including fueling operations
- Neoprene also is flame resistant
- Neoprene is also better against cleaning products and solvents



	Neoprene Short Gloves				
Size	8	9	10	11	12
Exterior Length (in)	14				
Material Thickness mil	35				
Quantity per Pack	1 pair				
Order number*	M74-1850-U2	M74-1851-U2	M74-1852-U2	M74-1853-U2	M74-1854-U2

*other mil and lengths available



Honeywell

Honeywell Butyl Gloves

- Butyl has the highest permeation resistance to gas and water vapor, highly resistant to ketones (MEK, MIBL, acetone) and esters (tricresyl phosphate, amyl acetate, ethyl acetate)
- Unsupported
- 13 mil
- Rough grip



Honeywell Butyl Gloves			
Size	S	M	L
Quantity per Pack	1 pair/EA	1 pair/EA	1 pair/EA
Order number	M74-0913-U2	M74-0914-U2	M74-0915-U2



Butyl Short Gloves - Smooth or Rough Grip

- Guardian® chemical resistant gloves are the hallmark of bio-chem warfare protection for troops, and first responders and are widely used by several industries
- The unique, solution-dipped process provides seamless, tight molecular structures, the key to chemical impermeability
- The Surgical Fit or “Fitted” option provides a snug fit for precision tactility
- Multiple thicknesses are available depending on the chemicals and length of exposure (vapor or emersion)
- ROUGH-GRIP™ finish provides preferred surety of grip for slick or wet surfaces
- 5 & 7mil Butyl gloves are perfect for First Responders dealing with the likes of Fentanyl that readably penetrates disposables
- Guardian’s thin/lighter gloves address Center for Disease Controls warnings of the prevalence of skin absorption thru disposable gloves in a broad spectrum of industrial and household chemicals



**Rough Grip - Safe palm for wet applications.
Smooth finish offers excellent touch and increases dexterity**

Material Thickness mil	5 mil					7 mil				
Size	Extra Small	Small	Medium	Large	Extra Large	Extra Small	Small	Medium	Large	Extra Large
Quantity per Pack	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair
Order number - Smooth	M74-0850-U2	M74-0851-U2	M74-0852-U2	M74-0853-U2	M74-0854-U2	M74-0855-U2	M74-0856-U2	M74-0857-U2	M74-0858-U2	M74-0859-U2
Order number - Rough Grip	—	—	—	—	—	M74-0880-U2	M74-0881-U2	M74-0882-U2	M74-0883-U2	M74-0884-U2

Material Thickness mil	14 mil					20 mil				
Size	Extra Small	Small	Medium	Large	Extra Large	Extra Small	Small	Medium	Large	Extra Large
Quantity per Pack	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair
Order number - Smooth	M74-0860-U2	M74-0861-U2	M74-0862-U2	M74-0863-U2	M74-0864-U2	M74-0865-U2	M74-0866-U2	M74-0867-U2	M74-0868-U2	M74-0869-U2
Order number - Rough Grip	M74-0885-U2	M74-0886-U2	M74-0887-U2	M74-0888-U2	M74-0889-U2	M74-0890-U2	M74-0891-U2	M74-0892-U2	M74-0893-U2	M74-0894-U2

Material Thickness mil	25 mil					35 mil				
Size	Extra Small	Small	Medium	Large	Extra Large	Extra Small	Small	Medium	Large	Extra Large
Quantity per Pack	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair
Order number - Smooth	M74-0870-U2	M74-0871-U2	M74-0872-U2	M74-0873-U2	M74-0874-U2	M74-0875-U2	M74-0876-U2	M74-0877-U2	M74-0878-U2	M74-0879-U2
Order number - Rough Grip	M74-0895-U2	M74-0896-U2	M74-0897-U2	M74-0898-U2	M74-0899-U2	—	—	—	—	—

Silver Shield® Gloves

- Resistant to over 280 chemicals, including alcohols, aliphatic, aromatics, chlorines, ketones, and esters
- Does not contain latex or chemical accelerators that can cause allergic reactions
- Can be used as a secondary inner glove
- Features 2.7-mil thickness and either 14 1/2" or 16" length
- Used in aerospace, chemical processing, transporting, and domestic preparedness



Material Thickness mil	2.7		
Size	9	10	11
Quantity per Pack	10	10	10
Order number	M74-2505-U2	M74-2506-U2	M74-2507-U2

NitriGuard Plus™ Unsupported Nitrile Gloves

- 100% Nitrile content offers excellent resistance to cuts, snags, and abrasions
- Nitrile material resists most common solvents, oils, and acids for dependable, long-lasting protection
- Free of latex proteins which can cause allergic reactions
- 21 CFR, for use in food processing

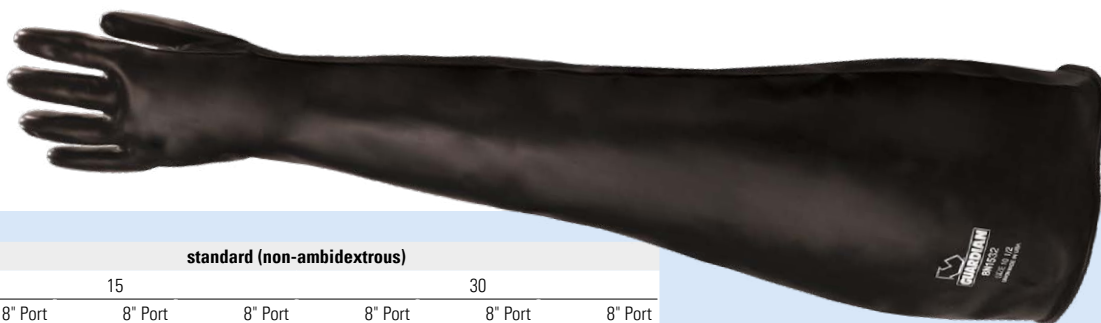


Version	sanitized liner			flocked liner	
Material Thickness mil [mil]	11			15	
Size	9	10	11	9	10
Quantity per Pack	12	12	12	12	12
Order number	M74-2500-U2	M74-2501-U2	M74-2502-U2	M74-2503-U2	M74-2504-U2

Glovebox Gloves - Neoprene



- In conjunction with dry boxes, isolators, and containment spaces, Guardian's® Neoprene long gloves are used for radiation application in defense, industrial, and nuclear facilities
- Chemical production equipment requires regular clean-outs as does the handling of pharmaceutical ingredients
- Neoprene is also very heat resistant, frequently required by the lab and industrial processes



Model	standard (non-ambidextrous)					
Material Thickness mil	15			30		
Version	8" Port	8" Port	8" Port	8" Port	8" Port	8" Port
Size	8.5	9.75	10.5	8.5	9.75	10.5
Quantity per Pack	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair
Order number	M74-1878-U2	M74-1879-U2	M74-1880-U2	M74-1884-U2	M74-1885-U2	M74-1886-U2

Material Thickness mil	15 mil					30 mil				
Version	6" Port		8" Port		10" Port	6" Port		8" Port		10" Port
Size	9.75	8.5	9.75	10.5	9.75	9.75	8.5	9.75	10.5	9.75
Quantity per Pack	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair
Order number	M74-1873-U2	M74-1875-U2	M74-1876-U2	M74-1877-U2	M74-1887-U2	M74-1874-U2	M74-1881-U2	M74-1882-U2	M74-1883-U2	M74-1888-U2

Respirators protect employees from inhaling harmful substances, including chemical, biological, and radiological agents. These substances can be in the form of airborne vapors, gases, dust, fogs, fumes, mists, smokes, or sprays. - Visit www.osha.gov for complete details and regulation requirements.

Particulate Respirator 8210, N95

- Designed to help provide comfortable, reliable worker respiratory protection against certain non-oil-based particles in suggested applications including grinding, sanding, sweeping, bagging, and other dusty operations
- Lightweight construction helps promote greater worker acceptance and comfort
- Features 3M's Advanced Electret Media, welded strap attachment, soft nose foam and adjustable nose clip to help provide a custom and secure seal
- NIOSH Approval TC-84A-0007



Particulate Respirator 8210, N95, Pack of 20
Order no. M74-1930-U2

Particulate Respirator 8210V, N95 with 3M™ Cool Flow™ Valve

- Proprietary 3M™ Cool Flow™ Valve is designed for easy exhalation and reduces heat build-up inside respirator to help keep wearer more comfortable
- Features an adjustable nose clip and 2-strap design with dual point attachment
- Ideally suited for many work settings that involve heat, humidity or longer periods of wear
- NIOSH Approval TC-84A-5410



Particulate Respirator 8210V, Pack of 10
Order no. M74-1931-U2

3M Half Mask Respirators

- Lightweight facepiece
- Easy-to-adjust head straps
- Facepiece can be used with any of the 3M™ bayonet-style filters and cartridges and can be easily replaced
- Swept-back design of cartridges helps improve balance and visibility
- Cartridges and filters are sold separately. Meets NIOSH 42 CFR 84 requirements



3M Half Mask Respirators, Size M, 24/case
Order no. M74-0940-U2

Particulate Respirator 8293, P100

- Suggested applications including select OSHA substance-specific particle exposures in concentrations up to 10 x OSHA PEL (Lead, Cadmium, Arsenic, MDA)
- Features 3M™ Cool Flow™ Exhalation Valve, comfortable foam face seal and adjustable straps
- Respirators are individually packaged. Do not use for asbestos exposures
- Meets NIOSH 42 CFR 84 requirements



Particulate Respirator 8293, Single-Pack
Order no. M74-1932-U2

ISO Mandatory Safety Labels

- Instruct all personnel to wear respiratory protection within a given area
- ISO 3864 establishes and defines the design principles to communicate safety without words
- Flexible poly-composite material with UV protective laminate
- Adheres to smooth, curved, and irregular surfaces
- Service temperature range: -40°F to 176°F
- Available in different diameters



Wear Respiratory Protection -
2" adhesive dura-vinyl label, pack of 10
Order no. M74-3063-U2

Wear Respiratory Protection -
4" adhesive dura-vinyl label, pack of 10
Order no. M74-3064-U2

Wear Respiratory Protection -
8" adhesive dura-vinyl label, pack of 10
Order no. M74-3065-U2

MSA Full Facepiece Respirators

- Engineered for comfort and versatility
- Offers ease of use and low breathing resistance
- Preset upper straps make it easy to don and remove
- Advantage Head Harness
- Scratch-resistant



MSA Advantage 3200 Full Facepiece Respirators M
Order no. M74-1950-U2

3M Full Facepiece Respirators, 7800S Series

- Durable, silicone facepieces are designed for a wide range of applications
- Full facepiece features a double flange silicone face seal and (6) easy-adjusting straps for comfort and durability
- Hard-coated polycarbonate lens
- Features large lens providing user a wide field of vision
- Extra-large inhalation and exhalation valves help make breathing easier
- Meets NIOSH 42 CFR 84 requirements



3M 7800S Respirator Full Facepiece Silicone LRG
Order no. M74-1929-U2

3M Full Facepiece Respirator, 6000er Series

- Face seal is made of silicone rubber for enhanced comfort and durability
- Lightweight and well-balanced
- Unique 3M™ Cool Flow™ Valve for unsurpassed comfort
- Features a large lens providing users a wide field of vision



3M 6900 Respirator, Full Facepiece
Order no. M74-1927-U2

Optional Accessory



3M Particulate Filter P100
Pack = 2 pcs
Order no. M74-1921-U2



MSA Filter Pads for Advantage
Respirators - P100
Pack = 2 pcs
Order no. M74-1947-U2



MSA Advantage Respirator
Cartridge - GME - Multi-Gas
- Particulate & Gaseous
Contaminants



MSA Advantage Cartridge
GME-P100
Pack = 2 pcs
Order no. M74-1955-U2



Advantage Respirator
Low-profile Cartridges
P100
Pack = 2 pcs
Order no. M74-1944-U2

Model	Manufacturer Name	Quantity per Pack	Order number
Particulate Filter P100	3M	2/PK	M74-1921-U2
Advanced Particulate Filters P100	3M	2/PK	M74-0942-U2
Particulate Filter P100 w/ Nuisance Level Organic Vapor* Relief & Ozone Protection	3M	2/PK	M74-1922-U2
Advantage Cartridge GME-P100	MSA	2/PK	M74-1955-U2
GME multi-gas cartridges	MSA	1/PK	M74-1958-U2
GMA/P100 OV cartridges	MSA	1/PK	M74-1957-U2
Cartridge GMA-P100 PKG.6	MSA	6/PK	M74-1945-U2
P100 low-profile cartridge	MSA	2/PK	M74-1944-U2
Flexi-Filter Pads for Advantage Respirators P100	MSA	2/PK	M74-1946-U2
Flexi-Filter Pads for Advantage Respirators P100/OV/O3 F	MSA	1/PK	M74-1947-U2



3M Advanced Particulate
Filter P100
Order no. M74-0942-U2

KleenGuard



KleenGuard A20 Breathable Particle Protection Coveralls

- Designed to protect against dirt, grime, and dust and is made with a breathable Micro force barrier fabric
- Reflex Coverall Design offers excellent fit and freedom of movement
- Passes NFPA 99 for antistatic (anti-stat) materials
- Meet the EPA Agricultural Worker Protection Standard (WPS) requirements

Model	A20	
Description	Collar, Elastic Wrists, Ankles & Back	
Post Color	White	Blue
Quantity per Pack	20	24
Order number* 3XL	M74-0935-U2	M74-0938-U2

*More sizes available online



KleenGuard A30 Breathable Splash and Particle Protection Coveralls

- Designed to protect against dirt, grime and light splashes and is made with a breathable Micro force barrier fabric
- Features an intricate web of microfibers that filter out many water-based liquids and dry particulates
- Reflex Coverall Design offers excellent fit and freedom of movement
- Passes NFPA 99 for antistatic (anti-stat) materials

Model*	A30	
Description	Elastic Wrists, Ankles & Back	
Post Color	White	
Quantity per Pack	25	
Order number XL	M74-0936-U2	
Order number 2XL	M74-2016-U2	

*More sizes available online



KleenGuard A40 Liquid and Particle Protection Coveralls

- Made to keep out debris, dry particulates, and liquid splashes
- Made of microporous film laminate with a hood, zipper front, and elastic wrists and ankles
- Passes NFPA 99 criteria for antistatic materials

Model*	A40	
Description	Hood, Elastic Wrists & Ankles	
Post Color	White	
Quantity per Pack	25	
Order number XL	M74-0937-U2	
Order number 2XL	M74-2017-U2	
Order number 3XL	M74-2015-U2	

*More sizes available online

DuPont™ Tyvek® 400 Coveralls

- Provides an effective barrier for dry, small particles, even after abrasion, with an ideal balance of protection, durability, and comfort
- Flash spun high-density polyethylene substrate provides comfortable, inherent barrier protection against hazardous dry particles and light non-hazardous liquid splash
- Proprietary comfort-fit design offers a greater range of movement and increased worker comfort
- Features serged seams and nylon zipper



Version	Collar, Open Wrists & Ankles	Collar, Elastic Wrists & Ankles	Hood, Elastic Wrists & Ankles	Hood, Elastic Wrists & Ankles and Boots
Quantity per Pack	25	25	25	25
Order number* L	M74-2003-U2	M74-2011-U2	M74-2010-U2	M74-0931-U2
Order number* XL	M74-2000-U2	M74-2009-U2	M74-2004-U2	M74-0932-U2
Order number* 2XL	M74-2002-U2	M74-2008-U2	M74-2001-U2	M74-0933-U2
Order number* 3XL	M74-2007-U2	M74-2012-U2	M74-2006-U2	M74-0934-U2

*More sizes available online

DuPont™ Tychem® 4000 Coveralls

- Made from lightweight Tyvek® laminated to chemical resistant Saranex™ 23P film
- Provides protection against a broad spectrum of chemicals, hazardous particles, and liquids
- Strong fabric reduces the risk of tears and abrasions. Zipper front with storm flap



	DuPont™ Tychem® 4000 Coveralls
Quantity per Pack	6
Order number M	M74-2024-U2
Order number L	M74-2025-U2
Order number XL	M74-2026-U2
Order number 2XL	M74-2027-U2
Order number 3XL	M74-2028-U2

DuPont™ Tyvek® 500 HV Collared Coveralls

- Available in fluorescent orange with silver-grey retroreflective bands for day and night visibility
- Robust yet lightweight
- Mandarin collar, elasticated wrists, and ankles as well as glued-in waist elastic
- Ample crotch area for freedom of movement. Large, easy-to-grasp zipper puller
- Providing an ideal balance of protection, durability, and comfort
- They offer an excellent barrier against fine particles and fibers, are ultra-low linting, and are antistatically treated on the inside
- Stitched external seams



	DuPont™ Tyvek® 500 HV Coveralls
Quantity per Pack	25/cs
Order number S	M74-2018-U2
Order number M	M74-2019-U2
Order number L	M74-2020-U2
Order number XL	M74-2021-U2
Order number 2XL	M74-2022-U2
Order number 3XL	M74-2023-U2

When working from heights, such as ladders, scaffolds, and roofs, employers must plan projects to ensure that the job is done safely. Visit www.osha.gov for complete details and regulation requirements.



Order no. M74-1967-U2

3M Delta™ Vest Style Harnesses

- Tongue buckle leg straps
- Back D-Ring
- Parachute buckles on lower shoulder straps
- Adjustable non-slip chest straps designed for comfort and stability
- Meets or exceeds ANSI Z359.1, ANSI A10.14, and OSHA standards
- Constructed from polyester webbing, our harnesses offer better resistance to sunlight and chemical degradation



Order no. M74-1973-U2

3M Rebel 50' Self Retracting Lifeline

- Rugged, lightweight thermoplastic housing
- Stackable housing design
- Built-in carrying handle
- 33 ft. (10m) 3/16" (5mm) stainless steel cable lifeline
- Swiveling self-locking snap hook with impact indicator
- Speed sensing all metal brake system
- Internal energy absorption system
- Reserve lifeline system
- Side lifeline exit with ergonomic handle
- High strength, corrosion-resistant components
- Swiveling anchorage point
- Self-locking anchorage carabiner



Order no. M74-2992-U2

Order no. M74-2994-U2

Titan II Tubular Shock-Absorbing Lanyards

The Honeywell Miller Titan™ II line of lanyards is economical and features a Hi-Viz color for increased worksite safety.

- Lightweight, durable 6' webbing
- With a built-in, woven inner core that smoothly expands to reduce fall arrest forces, while the outer jacket serves as a backup web lanyard
- Meets all applicable OSHA, ANSI, and CSA requirements
- Comply with ANSI Z359 standard

Model	Order number
Lanyards, single leg w/ snap hooks & rebar hook	M74-2991-U2
Lanyards, single leg w/ snap hooks both ends	M74-2992-U2
Lanyards, twin leg w/ snap hooks & rebar hook	M74-2993-U2
Lanyards, twin leg w/ snap hooks all ends	M74-2994-U2

Titan II Non-Stretch Harnesses

- Offers enhanced adjustability, improved comfort, and increased worksite safety.
- Constructed with lightweight, durable, Hi-Viz webbing; fully adjustable full-body harness has slip-resistant back D-ring pad and forward-positioned side D-rings - keeping your tool bags in the right place, mating-buckle chest, friction-buckle shoulder straps, and sub-pelvic strap
- Oversized ID tags provide quick and easy harness size identification
- Universal size is L/XL. Rated at 400 lbs.
- Meets all applicable OSHA, ANSI, and CSA requirements

Version	Order number
Back & side D-rings & mating-buckle legs	M74-2980-U2
Back & side D-rings & tongue-buckle legs	M74-2981-U2
Back & side D-rings & tongue-buckle legs, shoulder/waist padding & removable tool belt	M74-2982-U2
Back D-ring & mating-buckle legs	M74-2983-U2
Back D-ring & mating-buckle legs, w/out shoulder buckle	M74-2984-U2
Back D-ring & tongue-buckle legs	M74-2985-U2
Front, back & side D-rings & mating-buckle legs	M74-2986-U2



Harnesses with back and side D-ring and tongue-buckle legs, shoulder/waist padding and removable tool belt



Harnesses w/ back & side D-ring & tongue-buckle legs



Harnesses with back & side D-ring & mating-buckle legs

MSA Gravity Harness

- Curvilinear system provides total comfort. The integral belt and saddle assist with support, position, restraint, and climb movements
- Teflon® fabric protected webbing resists water, oil, grease, and dirt
- Uses a special urethane web coating to resist stains and wear and tear that is common when working in dirty environments
- Rated to a 400-lb./180 kg capacity
- Suitable for controlled descent, positioning, ladder climbing, rescue, and fall arrest
- Includes a load indicator to alert when the harness has been involved in a fall event
- Meets all applicable OSHA, ANSI, and CSA standards and requirements, including ANSI Z359.1



MSA Gravity Harness Coated w/ back & hip D-rings & tongue-buckle legs
Order no. M74-1983-U2

MSA Workman Arc Flash Harnesses

- Designed to protect a worker during a fall after an arc-flash exposure at 40 cal/ cm²
- Durable nylon material will not melt or drip in the event of an arc flash
- Features a steel back D-ring; a Y-shaped D-locator pad that keeps torso straps off of the user's neck to prevent chafing; and Velcro® lanyard keepers for lanyard stowage when not in use
- Arc Flash symbol for easy identification
- Meets ANSI Z359.1, ASTM F887, OSHA 1910.269 and CSA Z259.10 requirements



MSA Workman Arc Flash Harnesses w/ Qwik-Fit leg straps
Order no. M74-1987-U2

MSA Workman Construction Harness

- Vest style harness with back and hip D-rings for work positioning
- Features abrasion-resistant, durable yellow polyester webbing for high visibility, lightweight components, integral back pad, removable tongue-buckle tool belt, tongue-buckle leg straps, shoulder pads, and web retainer collars
- Color-contrasting thigh and torso straps simplify donning
- Fits a wide range of body types and sizes
- Instructions in English, Spanish and, French Canadian
- Meets all applicable OSHA, ANSI, and CSA standards and requirements, including ANSI Z359.1-2007 and A10.32 and CSA Z259.10-06



MSA Workman Construction Harness
Order no. M74-1989-U2



3M Fectoggles

- Wraparound design features adjustable lens angle
- Choice of elastic headband or adjustable length temples for a custom fit
- Offers foam flange seals and DX™ anti-fog hard coat
- Meets ANSI Z87.1+ High Impact standard
- Certified to the requirements of the CSA Z94.3 standard



Model	SecureFit™		
Color	Clear	Gray	Amber
Quantity per Pack	20	20	20
Order number	M74-0924-U2	M74-0925-U2	M74-0926-U2



3M Safety Glasses - Splash Goggles

- Lightweight design features impact-resistant
- Clear polycarbonate lens that absorbs 99.9% UV
- Indirect vent goggles provide protection against liquid splash applications
- Meets ANSI Z87.1+ High Impact standard



	Splash Goggles	
Color	Transparent	Transparent
Version	Clear	Clear with Anti-Fog
Quantity per Pack	1	1
Order number	M74-3920-U2	M74-3921-U2

Uvex Stealth® Goggles

- Features a lightweight, comfortable, low-profile design
- Toric lenses for superior optics and peripheral vision
- Uvextreme® lens coating provides fog protection
- Quick-adjust neoprene headband
- Clips permit fast and easy fitting even on hard hats
- Meets ANSI Z87.1+ 2015 High Impact standard
- Certified to the requirements of the CSA Z94.3 2007 standard



Uvex Stealth® Goggles - Chemical splash goggles offer comfort and protection with a close fit for superior optics
Order no. M74-0921-U2

MCR Protective Safety Goggles

- Perforated goggles with rubber strap
- Provides an unobstructed field of vision
- Can be worn with most half-mask respirators and over Rx eyewear
- Meets ANSI Z87.1+ High Impact standard



Order no. M74-0920-U2

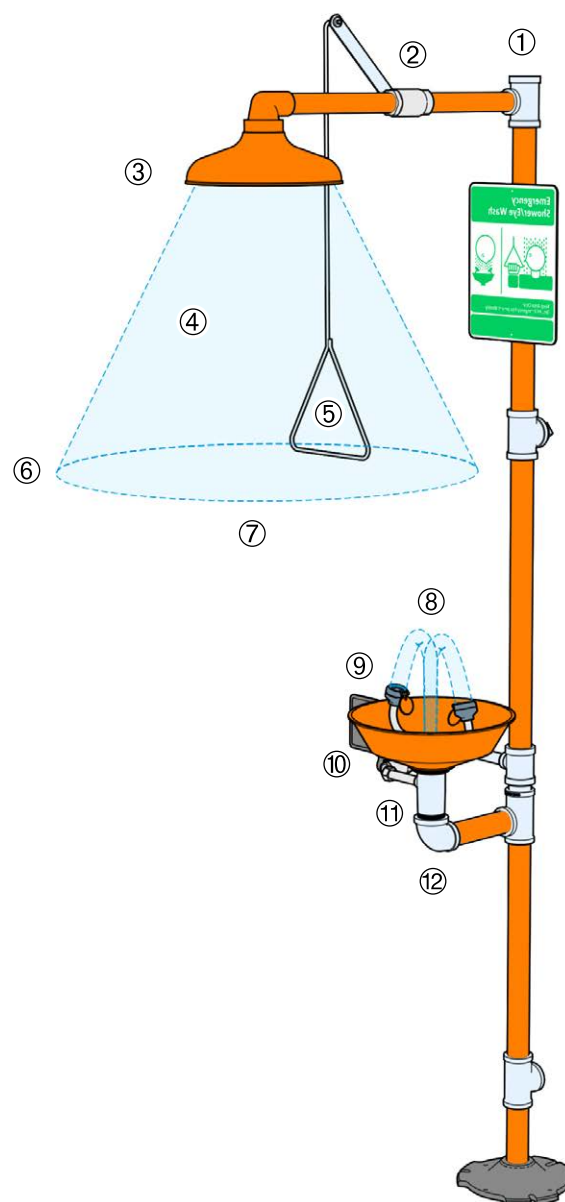
This checklist is a summary of the provisions of ANSI Z358.1-2014 relating to eye or eye/face wash and shower combination stations.

All Guardian safety stations are third-party certified to meet or exceed the provisions of ANSI Z358.1-2014.

ANSI

These products comply with ANSI Z358.1-2014

- ① **Connect the unit to a water supply capable of delivering the required flow when all components are operated simultaneously.** (Section 4.1.4, 4.5.5, 7.4.4)
- ② **"Hands-free" stay-open valve activates in one second or less.** (Section 4.2)
- ③ **The height of the water column shall be between 82" (208.3 cm) and 96" (243.8 cm) above floor.** (Section 4.1.3, 4.5.4)
- ④ **The shower shall provide 20 gallons (75.7 liters) of water per minute for 15 minutes.** (Section 4.1.2, 4.5.5)
- ⑤ **Easily located, accessible actuator no higher than 69" (173.3 cm) above floor.** (Section 4.2)
- ⑥ **At 60" (152.4 cm) above the floor, the water pattern must be at least 20" (50.8 cm) in diameter.** (Section 4.1.4)
- ⑦ **The center of water pattern shall be at least 16" from any obstructions.** (Section 4.1.4, 4.5.4)
- ⑧ **Flushing fluid flow pattern shall be positioned between 33" (83.8 cm) and 53" (134.6 cm) from the floor and at least 6" (15.3 cm) from the wall or nearest obstruction.** (Section 5.4.4, 6.4.4)
- ⑨ **Protect outlet heads from airborne contaminants. Covers shall be removed by water flow.** (Section 5.1.3, 6.1.3)
- ⑩ **The valve actuator shall be easy to locate and readily accessible to user.** (Section 5.2, 6.2)
- ⑪ **"Hands-free" stay-open valve activates in one second or less.** (Section 5.2, 6.1.4, 6.2)
- ⑫ **Unit must deliver at least 3.0 GPM (11.4 liters) (for eye/face wash) or 0.4 GPM (1.5 liters) (for eye wash) for 15 minutes.** (Sections 5.1.6, 6.1.6, 6.4.5)



Location: Install safety station within 10 seconds or 55 feet of hazard, on the same level as hazard and with unobstructed travel path. (Section 7.4.2; B5)

Identification: Identify a safety station with a highly visible sign. The area around safety station shall be well lighted. (Section 7.4.3)

Water temperature: Water delivered by the safety station shall be tepid (60-100°F). (Section 7.4.5)

training: Instruct all employees on the location and proper use of the safety station. (Section 7.4.5)

Maintenance/Inspection: Activate the safety station at least weekly. (Section 7.5.2) Inspect annually for compliance with standards. (Section 7.5.5)

Eye Wash / Drench Hose Units

- Meets the provisions of ANSI Z358.1-2014
- Fast treatment in the event of an eye injury
- Patented protective dust covers open automatically when operated
- Chromed spray heads with self-regulating flow control, filter, and dust covers
- Simple to use with valve lever
- 3/8"NPT male swivel-type inlet
- Integral safety valve and securing mount
- Locking clip engages when the handle is depressed, providing a "hands-free" operation. Valve stays open until the locking clip is released
- Systems assembled and tested prior to shipment
- Choose between deck or wall mounted
- Water flow:
 - > 1.6 GPM with one spray head or
 - > 3.2 GPM with two spray heads; at 30 PSI



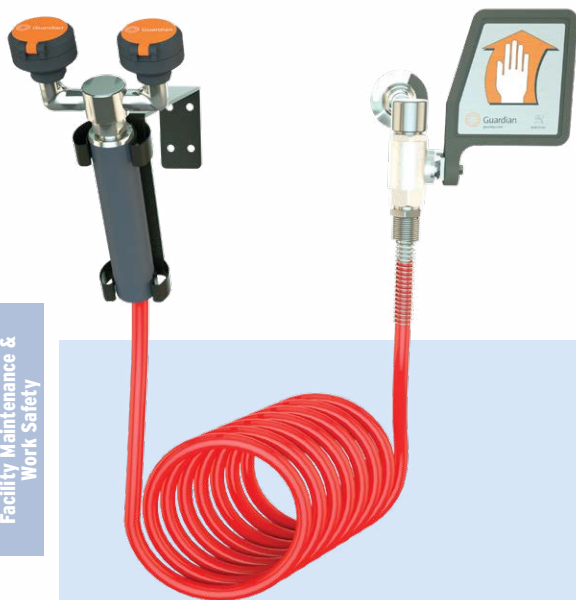
Drench Hose Unit G 5025

- For wall mounting
 - 1 spray head
 - Reinforced PVC hose, length: 8 ft
- Order no. M34-1203-U2



Eye Wash/Drench Hose Unit G 5026

- For wall mounting
 - 2 spray heads
 - Reinforced PVC hose, length: 8 ft
- Order no. M34-1010-U2



Eye Wash/Drench Hose Unit G 5014

- For wall mounting
 - 2 spray heads
 - Reinforced Nylon hose, length: 12 ft
- Order no. M34-1202-U2



Eye Wash station G 1819

- For wall mounting
- 2 spray heads

Order no. M34-1208-U2



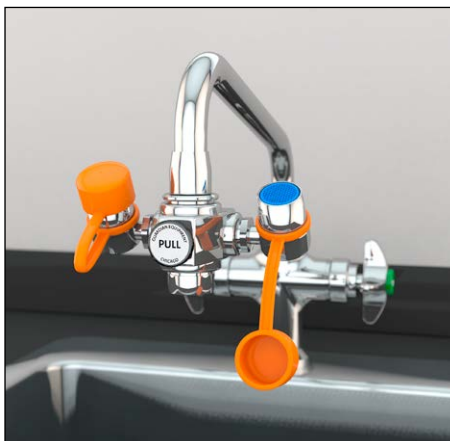
Eye Wash/Drench Hose Unit G 5022

- For deck mounting
 - 2 spray heads
 - Reinforced PVC hose, length 8 ft
- Order no. M34-1011-U2

Eye Wash Stations - Faucet mounted

Faucet-mounted eye wash stations convert any faucet into an emergency eyewash station without interfering with normal faucet operation. The unit can be installed at any sink, close to where accidents might occur. Forged brass diverter valve. Pull knob to activate eyewash; water pressure holds eye wash in operation, leaving user's hands free. Push knob or turn off faucet to return to normal faucet operation.

- Fast treatment in the event of an eye injury
- Patented protective dust caps open automatically when operated
- Chromed spray heads with self-regulating flow control, filter and dust covers
- Eye Wash is activated by pulling a forged brass diverter valve. Valve can be released manually or by simple shutting off the water
- Simple to use with valve lever
- Integral safety valve and securing mount



Eyewash G 1101,
Spray Heads mounted 3" apart
Order no. M34-1025-U2



Eyewash G 1101,
Spray Heads mounted 5" apart
Order no. M34-1026-U2

Eye Wash Stations - Deck or wall mounted

- Meets the provisions of ANSI Z358 as an eye wash
- Fast treatment in the event of an eye injury
- Patented protective dust caps open automatically when operated
- Chromed spray heads with self-regulating flow control, filter, and dust covers
- Simple to use with valve lever
- 3/8"NPT male swivel-type inlet
- Integral safety valve and securing mount
- Choose between Deck or Wall Mounting and right or left-hand operated unit



AutoFlow Function: Swinging the spray head assembly 90 degrees horizontally out over the sink activates the water flow. The unit remains in operation until the spray head assembly is swung back into the storage position, closing the valve.



Deck Mounted Eyewash G1806, right hand operated,
Order no. M34-1024-U2

Deck Mounted Eyewash G1806-LH, left hand operated,
Order no. M34-1028-U2



Deck Mounted Eyewash G1805 with
Autoflow Function, right hand operated
Order no. M34-1023-U2

Deck Mounted Eyewash G1805-LH with
Autoflow Function, left hand operated,
Order no. M34-1027-U2



Wall Mounted Eyewash G1848 with
Autoflow Function, right hand operated
Order no. M34-1204-U2

Wall Mounted Eyewash G1848-LH with
Autoflow Function, left hand operated,
Order no. M34-1207-U2



Deck Mounted Eyewash G1849 with Autoflow
Function, right hand operated
Order no. M34-1205-U2

Deck Mounted Eyewash G1849-LH with
Autoflow Function, left hand operated,
Order no. M34-1206-U2

Portable Eye Wash Stations

- Fast treatment in the event of an eye injury
- Complying with the provisions of ANSI Z358.1-2014 for eyewashes
- Choose between heated and non-heated eye wash stations

Portable Gravity Fed Eye Washes G 1540

Self-contained 16-gallon-gravity-flow eyewash unit is ideal for use in low traffic areas, and where a continuous supply of potable water is unavailable for plumbed units. Rugged plastic tank is wall mountable near any hazard. Unit uses gravity to deliver approximately eight gallons of water for 15 minutes through dual spray heads.

- Water flow is activated by pulling down on bright yellow eyewash tray. Integral full-flow nozzles deliver a soft spray of water. Swing tray up to storage position to stop water flow
- To operate unit, fill with clean potable water and add bacteriostatic additive (supplied with unit). Additive protects against growth of bacteria, fungus, algae and acanthamoeba

Optional Accessory

Vinyl Cover for Portable Eyewash G 1540

Order no. M34-1213-U2



Portable Gravity Fed Eye Washes G1540
Order no.



Portable Eyewash G1540HTR, heated,
with integrated heating pads
Order no.

- The heated unit is fully freeze-resistant and tempered by integrated heating pads that are made of silicone rubber, for both indoor and outdoor environments. The electronic temperature controller has an easy to read LCD screen for viewing the temperature and a green LED status indication light

Pressurized Eye Washes with Drench Hose Units

A self-contained eyewash/drench hose unit is ideal for use in low traffic areas, and where a continuous supply of potable water is unavailable for plumbed units. 15-gallon pressurized unit is ideal for floor placement near any hazard, and delivers approximately 10 usable gallons of water for 15 minutes (0.65 GPM)

- Meets the provisions of ANSI Z358, 1-2014
- Eyewash with two spray heads and dust covers, internal flow control, and filter
- Auxiliary hand-held drench hose for rinsing eyes, face or body. Unit has 6 ft. reinforced PVC hose
- Integrated silicone heater, water temperature inside the tank is regulated by an onboard thermostat set to 65°F
- W Model G1561HTR:
Fully freeze-resistant and tempered, for both indoor and outdoor environments

Optional Accessory

Stainless Steel Dolly

- For easy transporting of eye wash units
- Includes 4 chemical resistant polyolefin wheels with lockable casters



Stainless Steel Dolly,
Order no. M34-1212-U2



8 oz. bottle of bacteriostatic
additive (Case of 4),
Order no. M34-1214-U2



Order no.
Portable Eye Wash/Drench Hose Unit G1562
(Dolly not included)



Order no.
Portable Eyewash/Drench Hose Unit
G1562HTR with heating jacket

Eye and Eye/Face Washes

- Meets the provisions of ANSI Z358, 1-2014
- Fast treatment in the event of an eye injury
- Features two spray heads with flip top dust covers, internal flow control, and filters to remove any impurities
- Provides ½" NPT female inlet for supply and 1.25" NPT female outlet for waste
- ½" IPS chrome plated brass stay open ball valve is activated by flag handle and will stay open until handle is returned to closed position
- Pipe and fittings made of galvanized steel. Pipes with orange polyethylene pipe covers for high visibility and corrosion resistance
- Choose between Eye or combined Eye/face Washes with plastic, stainless-steel bowl or stainless-steel bowl with cover

Free standing Eye and Eye/Face Wash unit with Plastic or Stainless-Steel Bowl



Eye Wash G 1814P
Order no. M34-1050-U2



Eye / Face Wash G 1715
Order no. M34-1071-U2

Eye Wash G 1814BC
Order no. M34-1052-U2

Wall mounted Eye and Eye/Face Wash unit with Plastic or Stainless-Steel Bowl



Eye Wash G 1825
Order no. M34-1060-U2



Eye Wash G 1825
Order no. M34-1061-U2

Order no. M34-1088-U2

Usage	Eye Wash, open bowl	Eye Wash, bowl with cover	Eye / Face Wash, open bowl	Eye / Face Wash, bowl with cover	Eye Wash, open bowl	Eye Wash, bowl with cover	Eye / Face Wash, open bowl	Eye / Face Wash, bowl with cover
Mounting	Wall	Wall	Wall	Wall	Pedestal	Pedestal	Pedestal	Pedestal
Model	G 1814	G 1814-BC	G 1750	G 1750-BC	G 1825	G 1825-BC	G1760	G 1760-BC
Bowl Dimensions D x H [in]	12 x 4	12 x 2.5	12 x 4	12 x 2.5	12 x 4	12 x 2.5	12 x 4	12 x 2.5
External Height	13.0	14.0	13.0	14.0	13.0	13.0	13.0	13.0
Flow Rate (30 psi) [gpm]	3.2	3.2	6.4	6.4	3.2	3.2	6.4	6.4
Order number Plastic Bowl	M34-1050-U2	—	M34-1070-U2	—	M34-1060-U2	—	M34-1201-U2	—
Order number Stainless Steel Bowl	M34-1051-U2	M34-1052-U2	M34-1071-U2	M34-1072-U2	M34-1061-U2	M34-1062-U2	M34-1200-U2	M34-1088-U2

Eye Wash and Shower Station

Combination eye wash and Shower Station quickly washes contaminations from eyes and body.

- Meets the provisions of ANSI Z358.1-2014 as both an emergency eyewash and a shower
- For rapid first aid after an accident to prevent contamination of the body and eyes
- Easy operation of the body shower with a stainless-steel handle
- Water flow for body shower: 20 GPM, water connection 1 1/4" NPT



Safety Station with Eye Wash G 1902P,
Plastic Bowl
Order no. M34-1020-U2



Safety Station with Eye Wash G 1902,
Stainless Steel Bowl
Order no. M34-1021-U2



Safety Station with Eye/Face Wash G 1931,
Less Bowl
Order no. M34-1216-U2

Optional Accessory

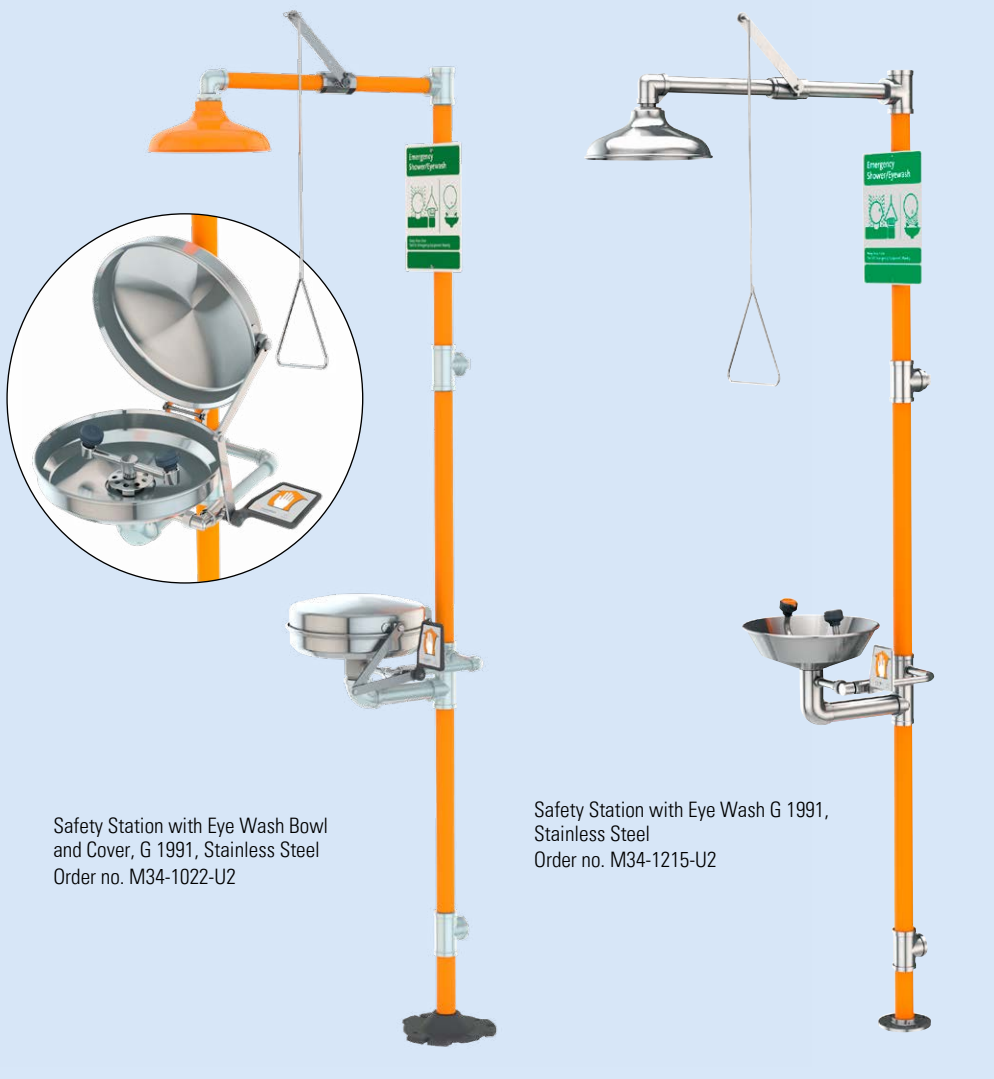
Foot Treadle, Stainless Steel

- Foot pedal in a rust-free stainless-steel design
- For opening and activating the eye wash



Order no. M34-1089-U2

- Eyewash with 2 spray nozzles with self-regulating flow control, filter, and dust covers
- Water flow for eye wash: > 3.2 GPM at 30 PSI pressure
- For floor mounting includes a base plate



Safety Station with Eye Wash Bowl
and Cover, G 1991, Stainless Steel
Order no. M34-1022-U2

Safety Station with Eye Wash G 1991,
Stainless Steel
Order no. M34-1215-U2

Freeze-Resistant Safety Station with Eyewash GFR1902

Freeze-resistant valves and supply lines are buried below the frost line to protect against freezing. The unit is designed to drain completely after use, so that no standing water remains in the unit and the possibility of freeze-up is eliminated. Since unit is intended for use in cold weather conditions, consideration should be given to supply the unit with tempered water.

- Galvanized steel pipe
- Eye Wash with stainless steel bowl



Order no. M34-1091-U2

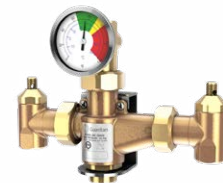
Safety Goggles

See page
290



Mixing Valves

See page
298



Body Showers, Vertical or Horizontal Mounting

- Meets the provisions of ANSI Z358.1-2014
- Fast treatment in the event of an eye injury
- Easy operation with a stainless-steel handle
- Water connection: 1" inlet (NPT internal thread)
- Water discharge quantity: > 15 GPM at 30 psi
- Choose between galvanized pipes with plastic shower head or a full stainless steel design and wall (horizontal) or ceiling (vertical) mounting



Emergency Shower G 1635, Plastic Shower Head - ceiling mounted
Order no. M34-1045-U2



Emergency Shower G 1643, Plastic Shower Head - wall mounted
Order no. M34-1046-U2



Emergency Shower G 1692, All-Stainless Steel - ceiling mounted
Order no. M34-1047-U2



Emergency Shower G 1691, All-Stainless Steel - wall mounted
Order no. M34-1048-U2

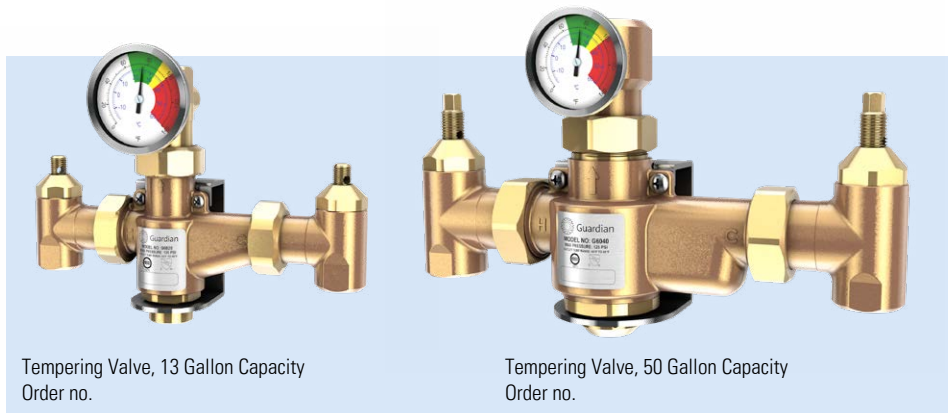
Tempering Valves

Tempering valve to blend hot and cold water to deliver tepid water. Valve has a precision thermal actuator that senses incoming water temperature and automatically blends water to a preset temperature. The valve is factory preset at 85°F (29°C) and can be adjusted as required and then locked. Furnished with a dial temperature gauge as standard to monitor the temperature of tepid water.

- Fits all DENIOS Eye/Face Washes, Body Showers and Shower Stations
- Choose between a valve with a flow capacity of 3.0 to 13 GPM or 3.0 to 50 GPM (Gallons per minute)



Pursuant to ANSI Z358.1-2014, the water delivered by emergency equipment should be "tepid". Tepid is defined as moderately warm or lukewarm, and is generally considered to be between 60°F (15°C) and 90°F (32°C). However, in certain circumstances, a chemical reaction may be accelerated or otherwise affected by the water temperature. Please consult with a medical advisor to determine the optimum delivered water temperature prior to specifying, installing or using a tempering valve flow capacity.



Tempering Valve, 13 Gallon Capacity
Order no.

Tempering Valve, 50 Gallon Capacity
Order no.

Flow Chart for M34-1086

System Pressure Drop (PSI)	1	5	10	15	20	25	30	35	40
Flow Rate (GPM)	0.5	17	28	34	41	46	50	55	59
Bypass Flow Rate (GPM)	0.5	13	20	25	30	34	38	41	45

Flow Chart for M34-1087

Pressure Drop (PSI)	1	5	10	15	20	25	30	35	40
Flow Rate (GPM)	3	5	7	8	10	11	13	13	14
Bypass Flow Rate (GPM)	3	4	5	6	7	8	9	9	10

Heated Eye Wash and Shower Station, rated for Class 1, Division 2

Electric heat-traced stations prevent freezing even in extreme conditions. Units are intended for cold weather use down to -40°F. Unit is fully wired and assembled at the factory.

- Meets the provisions of ANSI Z358.1-2014 as both an emergency eye wash and shower
- FM, UL, and CSA approved for Class I, Division 2, Groups B, C, and D
- For rapid first aid after an accident to prevent contamination of the body and eyes
- Easy operation of the emergency shower with a stainless-steel handle
- The aerated plastic water jets ensure the water is a gentle spray
- Water flow for body shower: 20 GPM, water connection 1 1/4" NPT
- Eyewash with 2 spray nozzles with self-regulating flow control, filter, and dust covers
- Simple operation of the eyewash with flag handle
- Water flow for eye shower: > 3.2 GPM at 30 PSI
- Heat-tracing cable wraps around internal pipe and activates when pipe temperature falls below 75° F to maintain tepid water within unit
- Galvanized steel piping with UV-resistant orange ABS plastic jacket and polyethylene foam insulation
- Requires 120 VAC single phase power supply (240V option also available)



Heated Safety Station with Eye wash GFR3100,
Top Inlet
Order no. M34-1092-U2



Heated Safety Station with Eye wash GFR3110,
Bottom Inlet
Order no. M34-1093-U2

Version	Top Inlet	Bottom Inlet
External Dimensions (vent hoods included) W x D x H (in)	9 x 35 x 95	9 x 35 x 95
Order number	M34-1092-U2	M34-1093-U2

Safety Signs - Aluminum

- Clearly identify a safety shower station in your facility with a simple, effective sign
- White image on green background lets people know there is a safety concern
- Dimension 10 x 14 in



Aluminum Safety Sign:
Shower Pictogram
Order no. M74-3102-U2



Aluminum Safety Sign:
Emergency Eyewash
Order no. M74-3099-U2



Aluminum Safety Sign:
Safety Shower
Order no. M74-3101-U2

Everything you need to know about:

- Definitions
- Storage of Flammable Liquids in Quantities Exceeding 120 gal (460L)
- Storage of Organic Peroxides
- Electrical Requirements for Chemical Storage and Dispensing
- Chemical Spill Containment Requirements
- Storage of Compressed Gases in Storage Structures
- Storage of Compressed Gases in Storage Structures
- Third Party Approvals



Guidance and information for using, handling, and storing Hazardous and Flammable Chemicals in accordance with the U.S. Guidelines and Regulations.

This document is intended as a guide to the vast array of regulations concerning the storage and handling of flammable and combustible chemicals. As regulations and their interpretations change over time, your local Authority Having Jurisdiction (AHJ) should always be consulted when considering storing hazardous materials inside or outside your facility.

These next few paragraphs will provide brief insight to help you understand some of the fundamental parts of the Code of Federal Regulations, Title 29, Parts 1900 to 1910.999, and the Occupational Health and Safety Act of 1970 regarding the external storage of flammable liquids. In addition, data has been taken from the National Fire Protection Association's NFPA 30 "Flammable and Combustible Liquids Code", the 2018 edition of the "International Building Code" and the 2018 edition of the "International Fire Code."

National / International Authorities

- International Fire Code (IFC)
- International Building Code (IBC)
- Code of Federal Regulations (CFR)
- Environmental Protection Act (EPA)
- National Fire Protection Assn (NFPA)
- Uniform Fire Code (UFC)
- Uniform Building Code (UBC)



Definitions

It is critical to understand the uniform system of defining and classifying flammable and combustible liquids and why it is important to take the necessary precautions to provide the correct methods of storage.

Authority Having Jurisdiction (AHJ)

An organization, office or individual responsible for enforcing code requirements or standards.

Auto-Ignition Temperature

The minimum temperature at or above which a material will spontaneously ignite (catch fire) without an external spark or flame. See following Table:

Auto-Ignition Temperatures for Some Common Chemicals or Fuels		
Chemical or Fuel	Temperature	
	°C	°F
Acetone	465	869
Benzene	560	1,040
Diethyl Ether	160	320
Ethylene	490	914
Ethyl Alcohol	365	689
Fuel Oil No. 2	256	494
Gasoline	280	536
Kerosene	210	410
Isopropyl Alcohol	399	750
Methyl Alcohol	385	725
Propane	480	896
Toluene	480	896
Xylene	463	867

Boiling Point

The temperature at which the vapor pressure of a liquid equals the surrounding atmospheric pressure.

Flash Point

The minimum temperature of a liquid at which sufficient vapor is given off to form an ignitable mixture with air near the surface of the liquid.

Flammable Liquid

Any liquid that has a flash point below 100° F (37.8° C).

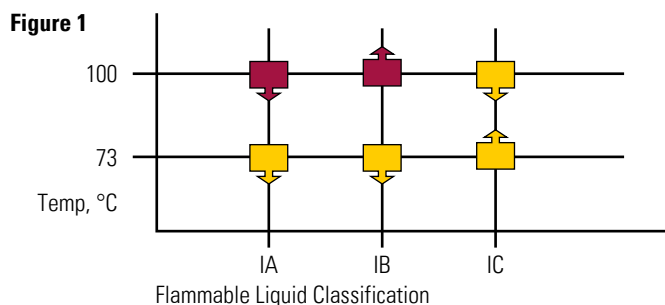
Flammable liquids are classified as Class I liquids with further sub-classification per the following and as shown in Figure 1:

- **Class IA** – Any liquid that has a flash point below 73° F (22.8° C) and a boiling point below 100° F (37.8° C). Examples of this class are Ethyl Ether and Pentane.
- **Class IB** – Any liquid that has a flash point below 73° F (22.8° C) and a boiling point at or above 100° F (37.8° C). Examples of this class are Gasoline and Butanone (Methyl Ethyl Ketone).
- **Class IC** – Any liquid that has a flash point at or above 73° F (22.8° C) but below 100° F (37.8° C). Examples of this class are Xylene and Turpentine.
- *OSHA has different regulations

Classification of Flammable Liquids

■ Liquid Boiling Point

■ Liquid Flash Point



Hazmat Manual - A Basic Guide for the Handling and Storage of Hazardous Materials

Definitions

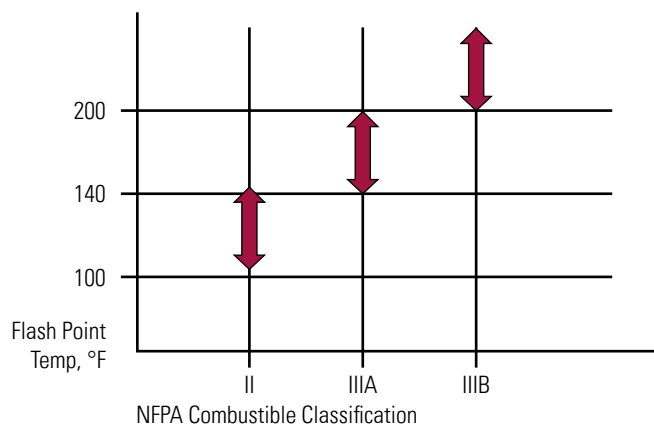
Combustible Liquid

Any liquid that has a flash point at or above 100° F (37.8° C).

Combustible liquids are classified per the following and as shown in Figure 2:

- **Class II** – Any liquid that has a flash point at or above 100° F (37.8° C) and below 140° F (60° C). Examples of this class are Kerosene and Oil-Based paints.
- **Class III** – Any liquid that has a flash point above 140° F (60° C)
 - [1] Class IIIA Liquid – Any liquid that has a flash point at or above 140° F (60° C), but below 200° F (93° C). An example of this is Mineral Spirits.
 - [2] Class IIIB Liquid – Any liquid that has a flash point at or above 200° F (93° C). Examples of this class are Hydraulic Brake/Transmission fluids and lube oils.

Figure 2



Flammable Range (Explosive Range)

The range of a concentration of a gas or vapor that will burn (or explode) if an ignition source is introduced.

MAQ (Maximum Allowable Quantity)

The maximum quantity of flammable or combustible liquids allowed to be stored in each occupancy. The MAQ varies per the occupancy class and the fire protection systems available. But in general it begins at 120 gallons of liquid.

Control Area

Defined in NFPA 30, Section 9.7 and generally defined as follows:

- [1] A building or portion of a building within which flammable and combustible liquids are allowed to be stored, dispensed, and used or handled in quantities of liquids that do not exceed those listed in NFPA 30 Table 9.6.1 or Table 9.6.2 for all liquid Classes I, II and III.
- [2] An area separated from each other by fire barriers per NFPA Table 9.7.2.

"H" Occupancy

Occupancy where the quantity of flammable liquid or other hazardous material stored exceeds the MAQ. Storing quantities above MAQ generally makes the occupancy a "hazardous occupancy" (H1-H5).

Most DENIOS Lockers, Non-Occupancy Buildings and "Walk-In" style Occupancy Buildings fall into these two categories:

- H-2 – Class I, II or IIIA flammable or combustible liquids which are used or stored in NORMALLY OPEN containers or systems, or in closed containers pressured at more than 15 p.s.i.g.
- H-3 – Class I, II or IIIA flammable or combustible liquids which are used or stored in NORMALLY CLOSED containers



4-Drum locker with fire rated construction for storage of flammable liquid chemicals.

Storage of Flammable Liquids in Quantities Exceeding 120 gal (460L)

The storing of Class I, II and IIIA liquids in individual containers shall meet all the applicable requirements of NFPA 30.

Where the quantity of flammable or combustible liquids stored exceeds the MAQ, the material must be separated from the rest of the occupancy either by distance or by fire rated walls. DENIOS Lockers, Non-Occupancy Buildings and "walk in" style Occupancy Buildings are designed for this purpose.

Table 2 adjacent is designed to provide general guidance as to separation distances relative to required fire ratings. It should be used as a guideline; however, the applicable local code and the local code enforcement officials should be consulted before placing any chemical storage structure.

Table 2

Minimum Separation Distance from Storage Structure to Property Line or other Important Building	
Fire Rating (hrs)	Distance (feet)
4	0
2	10
0	30

Storage of Flammable Liquids in Chemical Storage Structures Inside an Existing Building

When flammable or combustible liquids are stored in a chemical storage structure that is less than 1500 ft² and is located inside of an existing structure, the chemical storage structure is classified as a Liquid Storage Room and must meet the requirements prescribed for same including the fire ratings in Table 2 above.

Ventilation

Chemical storage buildings used for storing combustible and flammable liquids should be ventilated. The ventilation method can be either passive (natural) or mechanical (forced). When flammable or combustible liquids are being dispensed, creating vapors, then mechanical ventilation should be provided at a rate not less than 1 cu ft/min of floor area with a minimum of 150 sq ft/min.

When designing ventilation systems, be aware of the specific gravity of the actual gas/vapor. In most cases air should be drawn from a location within 12-18" of the floor as the majority as most flammable liquids give off vapors that are heavier than air.

Deflagration control

Where flammable liquids are dispensed, deflagration panels or control should be provided. Where deflagration panels are provided, the exterior wall containing the panels should be a minimum of 30 feet from another building and the area adjacent to the panels should be kept clear of pedestrian traffic for 30 feet as well.

Deflagration panels may not be vented to the interior of a structure and should be directed out special shafts to the exterior or positioned on an exterior wall.

Explosion prevention systems can be provided which include LEL detectors, multiple fans, and associated controls to maintain the vapor level at or below 25% of the Lower Explosive Limit (LEL).

Storage of Organic Peroxides

Organic Peroxides present special challenges for storage and handling as they are temperature sensitive and can combust spontaneously if they reach certain temperatures unique to each material.

Self-Accelerating Decomposition Temperature

Organic Peroxides decompose at various temperatures giving off heat that can cause or contribute to a fire. This temperature is called Self Accelerating Decomposition Temperature, or SADT, can be anywhere between 14°F to 392°F depending upon the material. At the SADT, the heat lost to surroundings is surpassed by the heat generated and the temperature of the material begins to rise.

The rate of decomposition increases as the temperature increases and may reach a point where it is so rapid that large quantities of heat are produced which further increases the rate. In addition to producing heat, the decomposition process can cause pressure build-up. If allowed to continue, it may become uncontrollable, leading to fire or combustion. Copious amounts of water are required when fighting organic peroxides on fire to cool the material back below its SADT to stop the acceleration and then extinguish the fire.

Control Temperature

Another important temperature is the CT or Control Temperature. This is the temperature at which the material can be stored or transported over a long period of time. This temperature varies between 32°F and 68 °F less than the SADT depends upon the SADT.

- $CT = SADT - 4\text{ }^{\circ}F$ if $SADT < 68\text{ }^{\circ}F$
- $CT = SADT - 5\text{ }^{\circ}F$ if $SADT > 68\text{ }^{\circ}F$ but $< 95\text{ }^{\circ}F$
- $CT = SADT - 14\text{ }^{\circ}F$ if $SADT > 95\text{ }^{\circ}F$ but $< 122\text{ }^{\circ}F$
- If $SADT > 122\text{ }^{\circ}F$ then there is no CT.

The CT can also be thought of as the alarm temperature when storing given materials. Since it is well below the SADT it may be exceeded for short time periods due to maintenance or until alternative cooling methods are available. Still another temperature may come into play. That is the recommended storage temperature from the manufacturer of the material. This may be even lower than the CT to prevent the material from degrading, decreasing its usefulness.

Thus, the key to managing organic peroxides is temperature. If they are maintained at the appropriate temperature in accordance with the manufacturer's instructions, they can be handled and stored safely.



Redundant cooling system ensures temperature stability should primary system fail.

Proper Storage of Organic Peroxides

Storage areas for organic peroxides must also be separated from other chemicals including flammables, oxidizers, acids, and alkalis by a minimum of 25 feet or a liquid-tight one-hour fire barrier. Class I (see definitions below) peroxides provide extra challenges as they are considered explosive. Deflagration panels and special building reinforcement are called for when storing these materials. Areas where organic peroxides are stored, should be electrically classified as CL I Div 1 or Div 2 as designated by NFPA 400.

In addition, controls on the refrigeration system should include over temperature alarms (usually set at the Control Temperature) and a smoke or heat detector to notify the appropriate response of a problem in the storage area. Redundant temperature control equipment or approved alternate means should be available in the event of equipment failure. Standby or emergency power should also be considered per NFPA 400.

Organic Peroxides by Definition

Organic Peroxides may be divided into five classes for informational purposes:

Class I is the most dangerous class of Organic Peroxides and describes those materials that present a hazard of deflagration through rapid explosive decomposition. Such materials are safe only under strictly controlled temperatures. Dibenzoyl peroxide 98% is one such material.

Class II formulations present a fire hazard similar to Class I flammable liquids such as acetone or toluene.

Class III formulations burn rapidly and present a moderate reactivity hazard. They are similar to combustible liquids such as #2 fuel oil.

Class IV describes those formulations that burn in a manner similar to ordinary combustibles. These fires are easily controlled.

Class V materials burn with less intensity than ordinary combustibles and do not present a severe fire hazard.



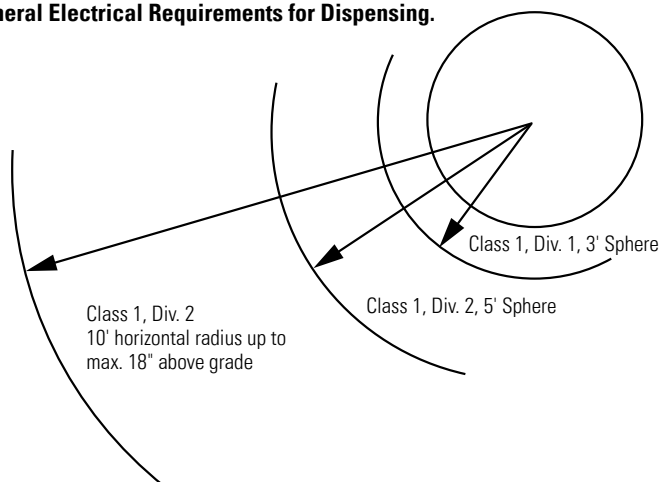
Class 1 Organic Peroxide Storage Enclosures can require deflagration panels due to the explosive hazards of the material stored.

Electrical Requirements for Chemical Storage and Dispensing

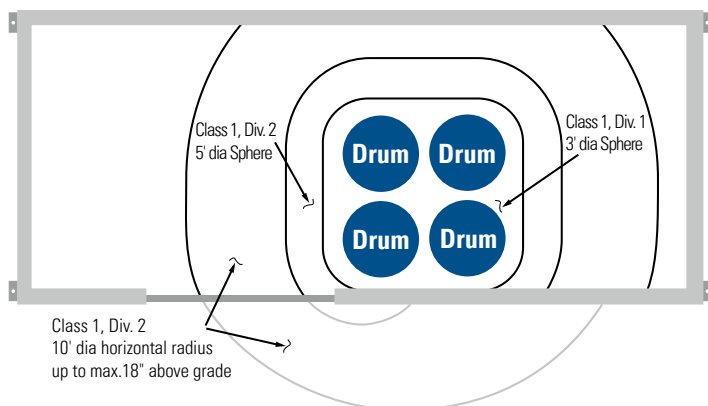
Where hazardous chemicals are stored or dispensed, special electrical requirements apply. In general, for “storage only” applications where vapors may be present only in the case of a spill, the electrical classification of Class 1, Division 2 is acceptable.

In cases where dispensing of flammable liquids is taking place, the electrical requirements vary according to the distance from the point of dispensing (where the vapors are created). The diagrams below illustrate the requirements. A sphere is created around the dispensing point with a radius of 3'. Class 1, division 1 electrical requirements prevail within the sphere. A second sphere is created around the dispensing point with a radius of 5'. Everything within this sphere and outside of the 3' radius sphere is required to be class 1, Division 2. An area from the floor up to 18" above the floor and extending 10' in all directions is further included in the Class 1, Division 2 area. These principles are illustrated in the sketches below.

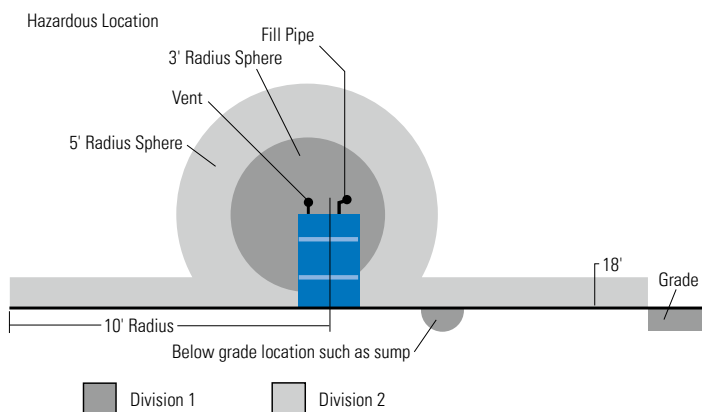
General Electrical Requirements for Dispensing.



Plan view of typical dispensing location and electrical requirements.



Elevation view of electrical requirements for dispensing.



Heating of Flammable and Combustible Liquids

The heating of flammable and combustible liquids is sometimes required to prevent freezing, manage viscosity, or condition the material for process use. Heaters used for this purpose should be explosion proof electric, steam, heated liquid, or another system. Where explosion proof electric heaters are used, their set temperature is limited to 104° F by the NEC (National Electrical Code).

Explosion Proof Heaters (and other electrical appliances) should be chosen by their temperature classification, which should always be lower than the lowest auto-ignition temperature of all the materials being stored. The table below shows the various temperature ratings available and their “T” number.

Temperature Ratings

Maximum Surface Temperature (°C)	Temperature Degrees (°F)	Identification “T” Number
450	842	T1
300	572	T2
280	536	T2A
260	500	T2B
230	446	T2C
215	419	T2D
200	392	T3
180	356	T3A
165	329	T3B
160	320	T3C
135	275	T4
120	248	T4A
100	212	T5
85	185	T6

Chemical Spill Containment Requirements

Secondary Containment

Containment is described in the Fire Code, Flammable Liquids Code, and the Code of Federal Regulations (CFR). In general, the capacity of the containment must be 10% of the aggregate liquid volume stored or the volume of the largest container stored whichever is larger.

Where the storage is indoors and a sprinkler system is in place, the containment may be required to contain the above-mentioned volume plus the volume discharged by the sprinkler system for 20 minutes. Local jurisdictions and third-party certifiers may have more stringent requirements.



These sumps provide added capacity, bringing the Safety Cabinet into spill compliance.

Storage of Flammable Liquids in Quantities not exceeding 120 gal (460L)

For this application, a flammable liquid storage cabinet approved or listed by a recognized third-party authority or constructed in accordance with NFPA 30 is sufficient. The local authority having jurisdiction should be consulted regarding the allowable number of cabinets per controlled area (see definition above).

Typically, flammable liquid storage cabinets are designed to have a sump or spill containment volume of 5 gallons, based on storage of typical containers with a volume of 5 gallons or less. However, some of these cabinets are designed to store (2) 55-gallon drums (still within the 120-gallon limit), and DENIOS believes that these cabinets should comply with EPA and UFC regulations. Therefore, DENIOS offers a sump for combustible cabinets that can be added to the combustible cabinets to bring the complete system into EPA and UFC compliance.

Be sure to contact your local authority having jurisdiction (AHJ).



Occupancy Buildings provide compliant secondary containment sumps below a grated surface.

Hazmat Manual - A Basic Guide for the Handling and Storage of Hazardous Materials

Identification and Separating / Segregating of Hazardous Materials

Definitions:

Flammable Gas

A material that is a gas at 68°F or less at 14.7 psia, that is ignitable at 14.7 psia when in a mixture of 13% or less by volume with air, or that has a flammable range at 14.7 psia with air of at least 12% regardless of LFL.

Corrosive Gas

A gas that causes visible destruction of or irreversible alterations in living tissue by chemical action at the site of contact.

Pyrophoric Gas

A gas with an auto-ignition temperature in air at or below 130°F. Refer to NFPA 55 standard for the installation, storage, use and handling of compressed gases in portable or stationary cylinders. Compressed gas containers, cylinders, and tanks in use or in storage shall be secured to prevent them from falling or being knocked over.

All tank valves shall be protected from physical damage by means of protective caps or similar devices.

Cylinders, containers, and tanks containing liquid, and flammable gases shall be stored in an upright position unless container capacity is 1.3 gal (5L) or less in which case horizontal stored position is allowed.

Where the quantities of compressed gases stored or used within an indoor control area exceed that shown in the following Table 3, the area shall require special provisions.

The special provisions include meeting requirements for Protection Level 1 through 5 in accordance with the building code and based on the hazard class of material involved. The values in the table are maximum quantities per control area. When multiple control areas are required, they must be separated by not less than a 1-hour fire-resistive separation. In addition, the number and design of control areas must be in accordance with the International Building Code Section 414 and Table 414.2.2 and the local AHJ.

Free-standing buildings for the storage of compressed gases shall have an area as indicated in Table 4 below:

Table 4

Minimum Material Allowable Quantities Requiring Detached Buildings		
Gas	Class	Quantity of Material m ³ (ft ³)
Unstable Reactive (Detonable)	4 or 3	Quantity thresholds for gases requiring special provisions
Unstable Reactive (Non-detonable)	3	57 (2000)
	2	283 (3000)
Pyrophoric Gas	N/A	57 (2000)

Table 3

Quantity Thresholds for Gases Requiring Special Provisions				
Material	Un-sprinklered Areas		Sprinklered Areas	
	No Gas Cabinet, Gas room, or Exhausted Enclosure	Gas Cabinet, Gas room, or Exhausted Enclosure	No Gas Cabinet, Gas room, or Exhausted Enclosure	Gas Cabinet, Gas room, or Exhausted Enclosure
Flammable Gas	30 lb	60 lb	60 lb	120 Lb
Liquified Non-liquified	1,000 ft ³	2,000 ft ³	2,000 ft ³	4,000 ft ³
Oxidizing Gas Liquified	30 lb	60 lb	60 lb	120 Lb
Non-liquified	1,500 ft ³	3,000 ft ³	3,000 ft ³	6,000 ft ³
Pyrophoric Gas	0 lb	0 lb	4 lb	8 lb
Liquified Non-liquified	0 ft ³	0 ft ³	50 ft ³	100 ft ³

Outdoor storage for Corrosive Gases shall not be within 20 ft (6m) of other structures unless it has a 2-hour fire barrier in which case shall be permitted in lieu of the 20 ft (6m) requirement.

The 2-hour fire barrier shall be designed per requirements of NFPA 55, NFPA 68 and local codes.

If the building has a minimum 2-hour fire rating interrupting the line of sight between the container and exposure, then the minimum required distance is 5 ft (1.5m).

Outdoor Storage

Distance from Storage to Exposures for Flammable Gases		
Average Quantity per Storage Area	Minimum Distances to Buildings, Storage Areas, or Property Lines	
ft ³	m	ft
0 - 4,225	1.5	5
4,226 - 21,125	3	10
21,126 - 50,700	4.5	15
50,701 - 84,500	6	20
84,501 or >	7.5	25

NFPA 55 Table 7.7.2

Distance from Storage to Exposures for Flammable Gases		
Average Quantity per Storage Area	Minimum Distances to Buildings, Storage Areas, or Property Lines	
ft ³	m	ft
0 - 4,225	1.5	5
4,226 - 21,125	3	10
21,126 - 50,700	4.5	15
50,701 - 84,500	6	20
84,501 or >	7.5	25

Outdoor storage buildings for Oxidizing Gases shall be in accordance with Table 7.7.2.

If the building has a minimum 2-hour fire rating interrupting the line of sight between the container and exposure, then the minimum required distance is 5 ft (1.5m).

Outdoor storage buildings for Pyrophoric Gases shall be in accordance with Table 7.8.3.

If the building has a minimum 2-hour fire rating interrupting the line of sight between the container and exposure, then the minimum required distance is 5 ft (1.5m).

Pyrophoric gases have auto ignition temperatures at or below 130°F. Some typical examples of pyrophoric gases are Silane, Diborane or Arsine.



DENIOS Gas Cylinder Storage Building utilizing 2-hour fire rated walls

NFPA 55 Table 7.8.3

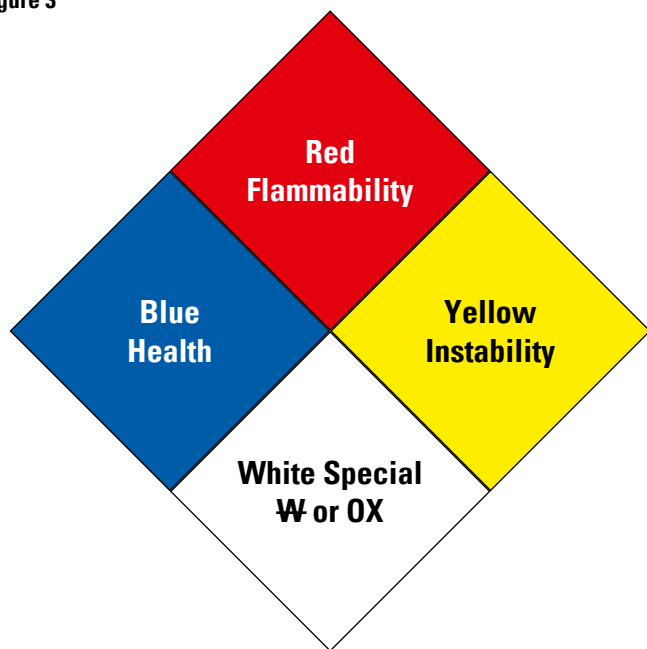
Distance from Storage to Exposures for Pyrophoric Gases				
Maximum Gas Quantity per Storage Area (x 3.785 for L)	Minimum Distances between	Gas Non-Occupancy Building, Gas room, or Exhausted Enclosure	Minimum Distance to Buildings on Same Property and No Openings within 25 ft	
ft ³	ft	ft	2 hr	4 hr
0 - 250	5	25	0	0
250.1 - 2,500	10	50	5	0
2500.1 - 7,500	20	100	10	0

Identification of the Hazards of Materials for Emergency Response - NFPA 704

NFPA 704 standard provides a readily recognized, easily understood placard system for identifying specific hazards along with their severity using spatial, visual, and numerical methods to describe in simple terms the relative hazards of a material. It addresses the health, flammability, instability, and related hazards that may be presented as short-term, acute exposures that are most likely to occur because of fire, spill, or similar emergency.

The system is characterized by a "diamond shape" that is actually a "square-on-point" shape consisting of four smaller diamond shapes. It identifies the hazards of a material and the degree of severity of the health, flammability, and instability hazards. The standard identification symbol for hazards of materials is shown in Figure 3 as follows:

Figure 3



In accordance with the identification symbol, the hazards are spatially arranged with four smaller diamonds as follows: flammability at the twelve o'clock position (Red), instability at three o'clock position (Yellow), special hazards at six o'clock position (White) and health at nine o'clock position (Blue).

The special hazards in use are W and Ox. W indicates unusual reactivity with water and is a caution about the use of water in either firefighting or spill control response and Ox indicates that the material is an oxidizer.





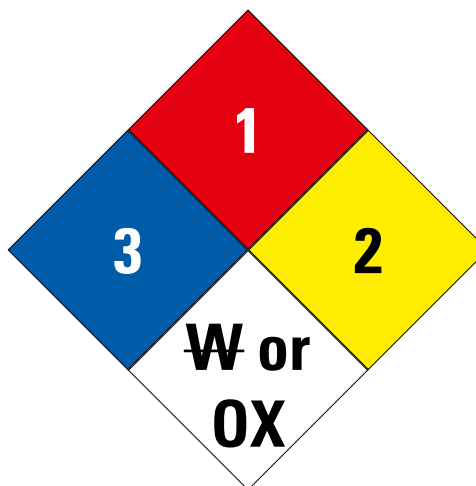
Fire Hazard (Red)	
Flash Points	
4 – Class IA liquids	
3 – Class IB and/or IC liquids	
2 – Class II and/or IIIA liquids	
1 – Class IIIB liquids	
0 – Will not burn	
Reactivity (Yellow)	
4 – May detonate	
3 – Shock and heat may detonate	
2 – Violent chemical change	
1 – Unstable if heated	
0 – Stable	
Health Hazard (Blue)	
4 – Deadly	
3 – Extreme danger	
2 – Hazardous	
1 – Slightly hazardous	
0 – Normal material	
Specific Hazard (White)	
Ox – Oxidizer	
W – Use no water	

Figure 4



An Overview for Safely Separating and Segregating Stored Chemicals

Whenever storing chemicals of any kind, it is important to consider which chemicals can be stored together, and which should be separated. There are several schemes for separating chemicals. Some with as many as fifteen different classifications.

While this may be too complicated for most situations, it does illustrate the potential complexities in storing multiple chemicals.

As a minimum, stored chemicals should be separated into the following categories:

- I. Flammables
- II. Oxidizers
- III. Corrosives
- IV. Acids
- V. Bases
- VI. Highly Reactive (such as organic peroxides)
- VII. Extreme Toxics
- VIII. Low Hazard

While this system is simple to implement, it is important to take the actual hazards of the various chemicals into account when determining the storage hierarchy. Many chemicals have multiple hazards.

The required safety data sheet (SDS) should be consulted to determine the most severe hazard so the correct storage location can be determined. Flammability is the first component to consider. Flammables should always be segregated from other chemicals. In addition, oxidizers and water-reactive should be further segregated so they would not contribute to a potential fire and so any fire with common flammables can be extinguished using common suppression methods i.e., water. Attention should also be paid to any chemicals that have temperature sensitivity either high or low. This is especially true for organic peroxides some of which become unstable at normal ambient temperatures.

Corrosives should be evaluated and separated accordingly. Acids and bases should be separated.

Toxics should be evaluated more stringently. This is especially true in the case of a flammable toxic which should be isolated even within its storage area to prevent accidental release.

Some chemicals do not fit neatly into a specific class but a careful review of the SDS Sheet should give sufficient information to allow a measured decision as to how to segregate each chemical being stored.



Occupancy Building with multiple door sets. Separation walls were added to segregate incompatible chemicals.

What they are and why they are important. Setting the record straight.

Third-party approvals for Hazardous Material Occupancy Buildings have been around since 1991 in the form of FM class 6049. FM began approving hazardous material storage buildings with the first edition of CLASS 6049 in that year.

This FM “standard” has remained the defector standard in the US, unchallenged since that time. Manufacturers that receive FM approval have submitted their designs to a third party and then to FM for review in accordance with the standard. This includes reviewing the structural integrity including floor and snow loads in accordance with the standards and the ability of the building to withstand a specific wind which is especially important in coastal areas of the US.

The standard further evaluates the integrity of fire-rated walls and ceilings and certifies the stated containment sump capacity. Contrary to popular opinion, UL (Underwriters Laboratories) does not have a standard for these buildings, so no manufacturer can use the “UL listed” moniker with reference to their buildings.

A FM-approved Occupancy Building should be labeled as such by the manufacturer. The text of the approval document prescribes what must be on the label. This includes place of manufacture, model no., design floor, wind, and snow loads, and if applicable, the fire rating of the walls. It also includes whether the building is constructed with damage limiting construction (DLC) also known as deflagration panels, as well as the electrical classification and temperature classification of all electrical equipment installed on the building.



DENIOS' FM Approved fire rated Non-Occupancy Building.

It is important to note that, even though a manufacturer has multiple items in their approval listing, there may be variations of those products that cannot be labeled as “approved”. This is because the approval listing contains specific construction parameters and characteristics that may or may not be available in a particular model series or combination of accessories.

Third-party approval is important because it sets a standard of consistent quality, performance, and construction that is guaranteed by the fact that the building carries the approval. Further, in the case of FM, periodic follow-up inspections of the approved company’s manufacturing site(s) are conducted by FM engineers to assure that the approved products are being manufactured in the same manner as was initially examined. Repeated violations can result in the withdrawal of the approval. While the third-party approval certifies a level of engineering, quality, and construction, it does not certify fitness for a specific use or placement in a specific location. Suitability for use and location is best determined in consultation with your local authority having jurisdiction.

While significant, the approval should be considered a minimum acceptable standard as many manufacturers go above and beyond which is required for the approval. At the same time, all FM-approved manufacturers may not be equal. While the FM-approved moniker denotes a specific level of manufacture for basic standard Occupancy Buildings, the manufacturer’s expertise in building the actual requirements dictated by the application should also be considered when evaluating a particular project.

For instance, experience in building heated enclosures with specific heating mediums i.e., steam, electric, or oil should be evaluated if these characteristics are requirements of the project as they are not a part of the FM approval process. Furthermore, experience in cooled or refrigerated units should be evaluated if these features are needed in the scope of the contemplated project. These characteristics are also not contemplated by the FM Approval Process.

16 x 8 storage Occupancy Building can be engineered for the storage of chemicals or housing of chemical processes.



Other drum/IBC storage enclosures approved by FM include Lockers (left) and modular Occupancy Buildings



Looking Ahead

While the previous section details the importance and the role of 3rd party approval agencies such as FM Global, there are applications that can be contradictory.

For example, FM Globe's Standard 6049-2013 has greatly impacted indoor placement of chemical storage buildings. The standard calls for:

- 1-Hour Fire Rated Construction (Minimum Required)
- 25% Sump Capacity with Drain Valve
- Piping and Sprinkler Heads for Hook-Up to Plant's Fire Suppression System
- All Stored Chemicals to be Kept at Least Half the Storage Height of the Container from Any Door Opening
- An Acceptable Means of Egress by Way of a Man Door (Roll Up Doors can be Used for Loading/Unloading purposes but is not Considered a Means of Egress)

On its face, these requirements for indoor placement could be viewed as contradicting NFPA and other accepted guidelines which only require 10% sump capacity and allow for the use of dry chemical fire suppression systems. This could be quite problematic for FM Global customers.

Chemical Storage Occupancy Building manufacturers can offer solutions to meet these challenges. But the impetus falls on the end-user to make certain what is going into the facility receives the approval of the Local Authority.

Again, presumably, the solution, which will satisfy both Local Authorities and FM Global, is for the chemical storage building to be placed outside of the facility.



Under the new 6049, building designs like this will no longer be approved for interior placement by FM due to the use of dry chemical fire suppression.

As chemical storage enclosures have advanced, the industry has developed many novel approaches to storing hazardous chemicals and processes. But as the role of the enclosure goes beyond basic storage; confusion can arise as to what regulations should be followed. This is becoming particularly common with storage enclosures designed for occupancy by personnel. Building manufacturers typically lean towards NFPA, which tends to provide more detailed/in-depth direction. But certain Authorities now are referencing the International Building Code (IBC)- which takes a more general viewpoint and, as such, fails to make certain distinctions in their rules (i.e., storage versus occupancy buildings).

Additionally, many RFQs are still citing outdated specifications.

This particularly is common (and troubling) with government contracts. Recent findings have held that it is the responsibility of the supplier/manufacturer to clearly point out to the purchaser where specification will not be met and show where the alternative spec is as good or better than which is shown in the RFQ. Should the supplier/manufacturer simply provide their specs in the proposal, it will not constitute disclosure should a conflict arise. The supplier/manufacturer is required to identify any off-spec instances.



Modular buildings are becoming more sophisticated and customized to address hazardous chemical processing applications.

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