

**CHLORINE - SULFUR DIOXIDE - ANHYDROUS AMMONIA
HAZMAT RESPONSE**

50Years of Emergency Equipment Experience



PROTECT

Personnel . Property . Environment



EMERGENCYEQUIPMENT

EmergencyKits
Recovery Vessels
GasketPackages
CHLOREPDDevices
Drum/PippingRepairKits
CustomEmergencyEquipment

PERSONALPROTECTION

Self ContainedBreathingApparatus
Respirators
WallCases/Accessories
LevelA&BProtectiveClothing
DecontaminationShowers
HazMatBoot/Accessories

TRAININGDEVICES

Training&Safety Videos
TrainingLevelASuits
CylinderTrainingDevice
TonTrainingDevice
Tank Car TrainingDevice

IS **Indian Springs SpecialtyProducts | nc.**
Phone(315)635-6243 · www.indiansprings.com · Fax (315) 635-7473

CHLORINE - SULFUR DIOXIDE - ANHYDROUS AMMONIA HAZMAT RESPONSE

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Dear Valued Customer:

For over fifty years now Indian Springs has been manufacturing chlorine emergency equipment, and today we remain as the sole Chlorine Institute Emergency Kit manufacturer. During this period our product line has grown to include sulfur dioxide and ammonia emergency equipment, hazmat pipe & drum kits, emergency kit training devices, personal protection equipment and more. We believe that we have assembled a superior product line because in a hazardous materials emergency there is no substitute for the best equipment available. So, please review our catalog and/or our web site (www.indiansprings.com) and as always we would be pleased to provide any further product or ordering information you may require.

Thank you for the opportunity to fulfill your emergency equipment needs.

Sincerely,

Indian Springs Specialty Products, Inc.

IS Indian Springs
Specialty Products Inc.
2095 West Genesee Rd. • P.O. Box 469
Baldwinsville, NY 13027-0469
(315) 635-6243 • Fax (315) 635-7473

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CHLORINE INSTITUTE

EMERGENCY KIT "A"

FOR 100-150 lb. CHLORINE CYLINDERS



The Chlorine Institute Emergency Kit "A" is manufactured to the design specifications of the Chlorine Institute. The Emergency Kit "A" contains devices to stop leaks at the valve, fusible plug, and in the side walls of chlorine 100 & 150 lb. cylinders which conform to specification DOT 3A480. Two instruction booklets explaining the application of each device are included. *New! An instructional video for Kit A is also available:*

EMERGENCY KIT "A" FEATURES:

Device #1: designed to contain leaks in and around the cylinder valve.

Device #2: a clamping device to seal leaks in and around the cylinder valve fusible plug.

Device #8: a patching device designed for sealing leaks in the cylinder side wall. Kit A also includes a variety of hand tools, inspection seals and additional sealing devices. All items are labeled with a part number, color coded red and stored inside a durable

EMERGENCY KIT "A" TRAINING DEVICES

The Chlorine Training Cylinder is an actual full size chlorine 150 lb., DOT 3A480 cylinder designed to simulate valve, fusible plug and side wall leaks, Part#TCYL

Chlorine Institute A-kit training video #ALAV is also available.



Manufactured to Chlorine Institute Specifications by Indian Springs Mfg. Co. Inc.



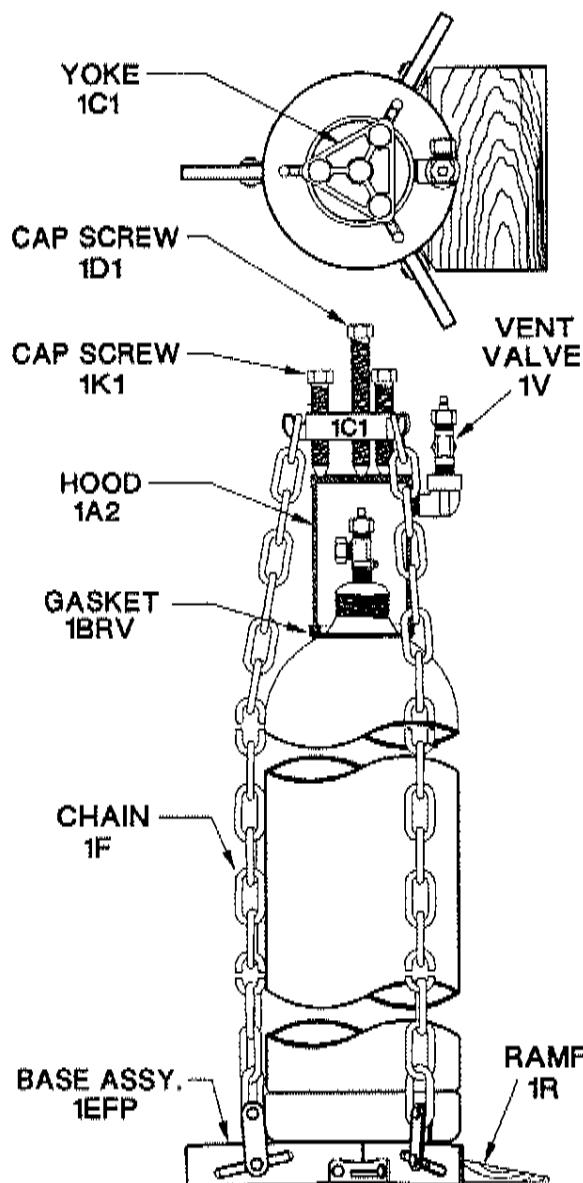
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CHLORINE INSTITUTE

EMERGENCY KIT "A" Applications And Parts List

Device No.1



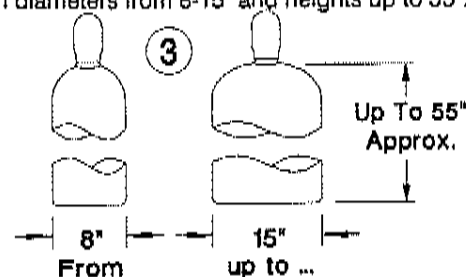
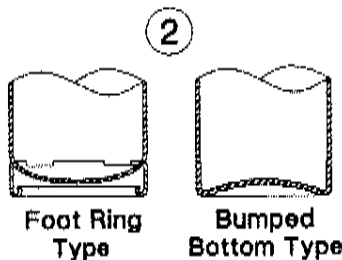
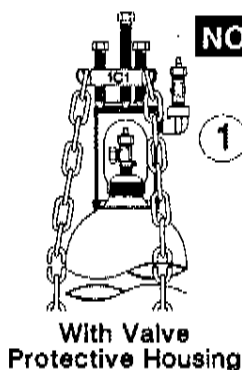
Part Number	Description	Quantity Per Kit
1A2	Hood Assembly, with (1V) Vent Valve	1
1BRV	Gasket, molded from Viton [®] 5-7/8" OD x 4-5/8" ID x 3/16" wall	2
1C1	Yoke	1
1D1	Cap Screw	1
1K1	Cap Screws	3
1EFP	Base Assembly with Chains	1
1R	Ramp	1
2	Clamp Assembly (2A,2C,2D)	1
2B	Gasket, Garlock	5
2BB	Gasket, Garlock 1" x 3" x 1/16"	5
8A	Chain	1
8B	Yoke	1
8C	Cap Screw	1
8D	Steel Patch	1
8EV	Gasket, molded from Viton [®] , 3" sq. x 1/8" th.	2
200A	Wrench, 3/8" sq. box, 1-1/4" open end x 7-1/4"	1
201	Wrench, straight open end, 1-1/4" x 1-1/8" x 12-1/8"	1
203	Wrench, double box, 7/16" x 9/16" x 8-3/8"	1
A-1	Hammer, Machinist 3 lb.	1
A-2	Hacksaw, 10", and 3 blades	1
A-3	Drift Pin, 5/32" x 1/2" x 6"	2
A-4	Drift Pin, 7/8" x 1-1/4" x 8"	2
A-5	Ring, vent valve packing, 7/8" OD x 15/32" ID x 1/4" sq.	5
A-6	Kit Box Seals	15
A-7	Gasket Sack	1
A-8	Paint Scraper, 1-1/4 blade	1
A-9	Valve Yoke	1
A-10	Valve Adapter (820-hose)	1
A-12	Washer, valve outlet, 15/16" OD x 9/16" ID 1/16"	5
A-13	Small Gasket Plastic Storage Box	1
A-14	File, 8"	1
144	Tool Roll	1
151A	Kit Box, 35" x 13-3/4" x 14-1/4"	1
-	Instruction Booklet	2
-	Chlorine Manual	1
-	Parts List	1

*Note: Emergency Kit A weighs 115 lbs.

[®]Viton is a registered trademark of DuPont Dow Elastomers L.L.C.

Authorized, trained personnel equipped with suitable respiratory equipment should investigate chlorine leaks promptly. All other persons should be restricted from the affected area. Breathing apparatus or other personal protective equipment are not included in the kits, but must be used when investigating and correcting chlorine leaks and are available from Indian Springs Specialty Products Inc.

NOTE Device No. 1 is designed to accomodate: 1. Cylinder with Valve Protective Housing on.
2. Footring or bumped bottom cylinders.
3. Cylinders with diameters from 8-15" and heights up to 55".



EMERGENCY KIT "B"

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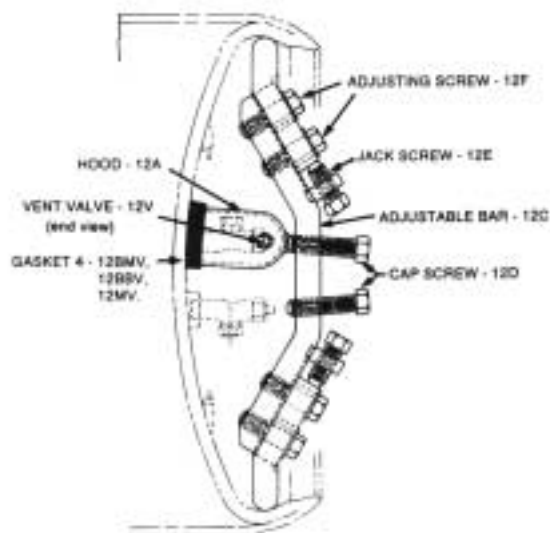
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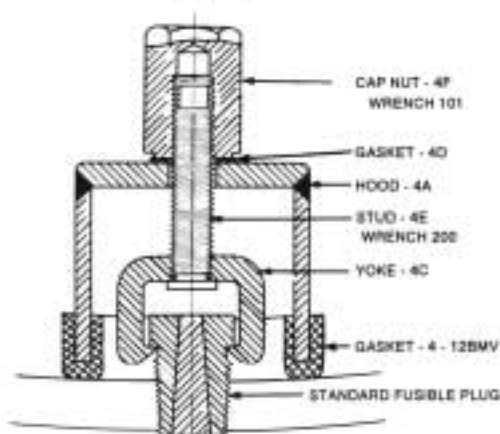
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EMERGENCY KIT "B" Applications And Parts List

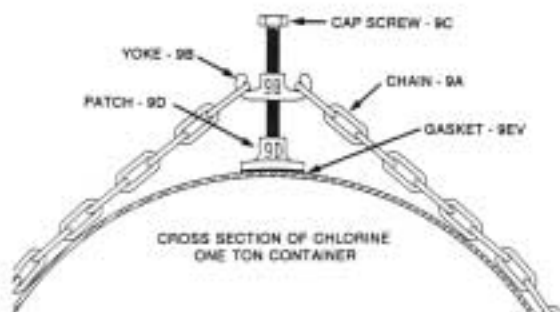
Emergency Device No. 12



Emergency Device No. 4



Emergency Device No. 9



Part Number	Description	Quantity Per Kit
4A	Hood Assembly	1
4C	Yoke	1
4D	Gasket, Garlock 3000, 1-1/4 OD x 11/16 ID x 1/16	3
4E	Stud	1
4F	Cap Nut	1
4G	Gasket, Garlock 3000, 15/16 dia. x 1/16	5
9A	Chain	1
9B	Yoke	1
9C	Cap Screw	1
9D	Steel Patch	1
9EV	Gasket, Viton**, 3" sq. x 1/8	2
12A	Hood Assembly with (12V) Vent Valve	1
4-12BMV	Gasket, Molded Viton**, 4" OD x 2-5/8 ID x 1/4	2
12BBV	Gasket, Viton, 5" OD x 2" ID x 1/2 Th.	1
12C	Bar Assembly	1
12MV	Gasket, Molded Viton**, 5-1/4 OD x 2-1/4 ID x 3/4	1
101	Wrench, straight open end, 1-1/4 x 12	1
104	Wrench, socket, 1-1/4 hex	1
104A&C	Wrench extension, 1" sq. drive x 9 with adaptor	1
104B	Wrench bar, 1" dia. x 20	1
106	Wrench, crowfoot special, 1-5/32 x 11	1
200	Wrench, 3/8 sq. box & 1-1/4 open end x 7-1/4	1
B-1	Drift Pin, 5/32 x 1/2 x 6	2
B-2	Drift Pin, 7/8 x 1-1/4 x 8	2
B-3	Drift Pin, 1-1/16 x 1-7/16 x 8	2
B-4	Ring, vent valve packing, 7/8 OD x 15/32 ID x 1/4 sq.	5
B-5	Paint Scraper, 1-1/4 blade	1
B-6	Hammer, Machinist 3 lb.	1
B-7	Metal Railroad Car Seal	15
B-8	Gasket Sack	1
B-9	Valve Yoke	1
B-10	Valve Adapter (820-hose)	1
B-11	Gasket Garlock 3000, 15/16 OD x 9/16 ID 1/16	5
B-12	Plastic Box	1
153	Toll Roll	1
151B	Kit Box, 35 x 13-3/4 x 14-1/4	1
-	Instruction Booklet	2
-	Chlorine Manual	1
-	Parts List	1

*Note: Emergency Kit B weighs 113 lbs.

**Note: Viton @ fluoroelastomer is a registered trademark

Authorized, trained personnel equipped with suitable respiratory equipment should investigate chlorine leaks promptly. All other persons should be restricted from the affected area. Breathing apparatus or other personal protective equipment are not included in the kits, but must be used when investigating and correcting chlorine leaks and are available from Indian Springs Specialty Products Inc.

Vanguard

Self Contained Breathing Apparatus



Chlorine Institute Emergency Kits
from Indian Springs Mfg. Co., Inc.

RESPONDER

Level A & B Protective Clothing

CHLORINE EMERGENCY RESPONSE

CHLORINE INSTITUTE

EMERGENCY KIT "C"

FOR CHLORINE TANK CARS AND TANK TRUCKS



The Chlorine Institute Emergency Kit "C" is manufactured to the design specifications of the Chlorine Institute. The Emergency Kit "C" contains devices to stop leaks at the safety valve or angle valves of standard DOT 105J500W chlorine tank cars, DOT MC331 cargo tanks and DOT 51 portable tanks in chlorine service. Two instruction booklets explaining the application of each device are included. An instructional video for Kit C is also available.

Emergency Kit C Features Include:

Device #6: containment device designed to contain leaks in and around the angle valves. Device #6 includes two gaskets molded of Viton A[®] to conform to the bottom of hood 6A.

Device #24: containment device designed to contain leaks in and around the pressure relief device. Device #24 includes a lightweight, one-piece yoke design #11A for use over the safety relief valve. Device #24 also includes two gaskets molded of Viton A to conform to the bottom of hood 24A.

Kit C also includes a variety of hand tools, inspection seals and additional leak containment devices. All items are labeled with a part number, color coded green and stored inside a durable polyethylene tool box.

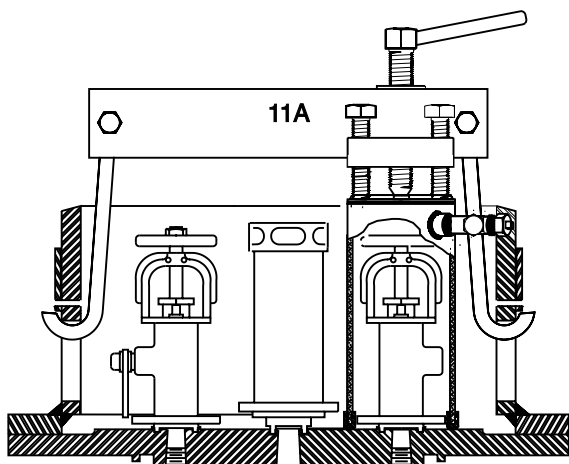
(Viton is a registered trademark of DuPont Dow Elastomers L. L. C.)

Manufactured to Chlorine Institute Specifications by Indian Springs Mfg. Co., Inc.

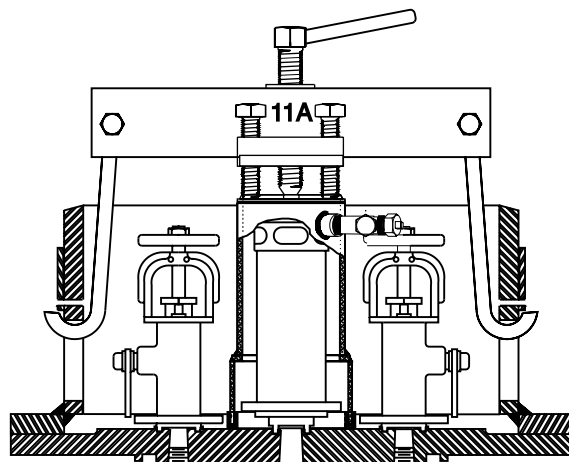
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EMERGENCY KIT "C" Applications And Parts List

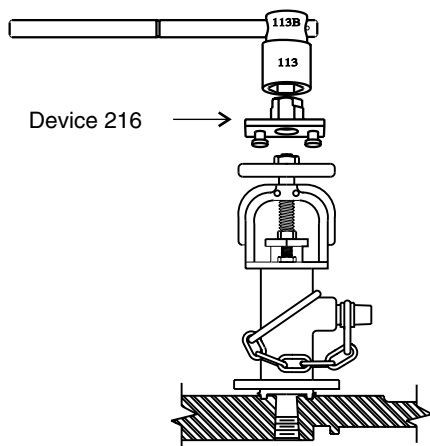
Emergency Device No. 6



Emergency Device No. 24



Handwheel Spanner Device #216



Part Number	Description	Quantity Per Kit
6A1	Hood Assembly with (6V) Vent Valve	1
6BMV	Gasket, Molded Viton**, 7" OD x 5-3/4" ID x 3/16" wall	2
11A	Yoke Assembly, Consisting of:	1
	11B Block	1
	11C Screw	1
	11E Cap Screws	4
	11R Retainer	1
	11Y Yoke Channels	2
24A1	Hood Assembly with (24V) Vent Valve	1
24BMV	Gasket, Molded Viton**, 8" sq. x 6-1/2" ID x 3/16" wall	2
110	Wrench, combination 11/16" x 6-1/2"	1
112	Wrench, crowfoot special 1-9/32" x 21"	1
113	Wrench, socket, 1-13/16" hex x 1" sq. drive	1
113A	Wrench extension, 1" sq. drive x 18" with adapter	1
113B	Wrench bar, 1" dia. x 20"	1
200C	Wrench, 3/8" sq. box & 1-1/4" open end x 7-1/4"	1
216	Handwheel Spanner Device	1
218	Wrench, 15" adjustable	1
C-1	Hammer, Machinist 1-1/2 lb.	1
C-2	Paint Scraper, 1-1/4" blade	1
C-3	Bolt Cutter	1
C-5	Ring, vent valve packing	1
C-7	Kit Box Seal	5
C-9	Gasket Sack	15
152	Tool Roll	1
151-C	Kit Box, 36" x 18-1/2" x 20"	1
-	Instruction Booklet	2
-	Chlorine Manual	1
-	Parts Lists	

*Note: Emergency Kit C weighs 155 lbs. (Shp. Wt. 167 lbs.)

**Note: Viton is a registered trademark of DuPont Dow Elastomers

Authorized, trained personnel equipped with suitable respiratory equipment should investigate chlorine leaks promptly. All other persons should be restricted from the affected area. Breathing apparatus or other personal protective equipment are not included in the kits, but must be used when investigating and correcting chlorine leaks and are available

Note: All C-kit components are now packaged in an extra-large polyethylene tool box (36" L x 18-1/2" W x 20" H) to allow room for fully assembled devices and accessory emergency equipment.

Vanguard

Self Contained Breathing Apparatus



Chlorine Institute Emergency Kits
from Indian Springs Mfg. Co., Inc.

RESPONDER

Level A & B Protective Clothing

CHLORINE EMERGENCY RESPONSE

EMERGENCY KIT

CONVERSION PACKAGES

Emergency Kit “A” Conversion Package

The A-kit Conversion Package is designed to upgrade a Chlorine Institute Emergency Kit "A", manufactured prior to April 1, 1993, to meet current Institute specifications. The conversion package replaces the 1A1 Hood, 1EH Chain and Base, 1BMV Gasket and the 1P Spacer Plate, while improving the effectiveness and ease of application of device #1.



PART# AC93

A-Kit Conversion Package Includes:

- (1) 1A2 Hood
- (2) 1BRV Gasket
- (1) 1EFP Chain and Base Assembly
- (2) Instruction Booklets
- (1) Contents List

New Design Features Include:

- Accommodates Cylinders with oversized neckrings
- Fits over cylinder with valve protective housing
- Radius gasket sealing surface
- Accommodates cylinders up to 15" in diameter
- Provides stable base for all cylinder bottoms
- Diamond Link has been eliminated
- Several kit components integrated into one unit

NOTE: 1C1 yoke is not included, the yoke is available separately for customers with the old, one bolt style yoke.

Emergency Kit “C” Conversion Package

The Chlorine Institute Emergency Kit "C" has been redesigned for easier handling and application of the kit devices. The new 11A Yoke design consolidates several individual parts: yoke (10A), block (10B) and adapter plate (10D), into one lightweight and easy to use emergency kit component stored in the kit box in ready-to-use condition.

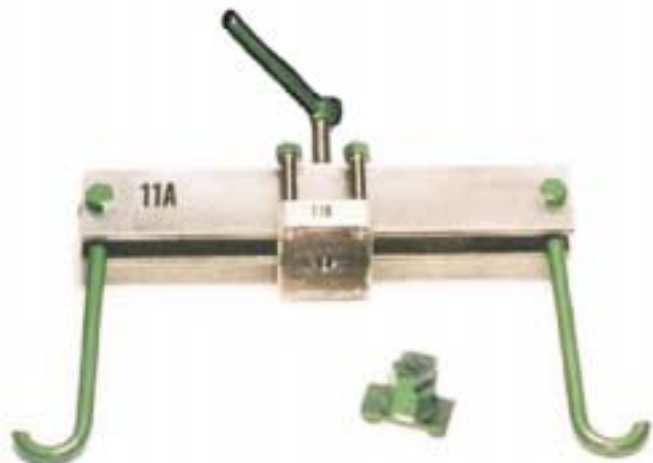
PART# CC96

C-Kit Conversion Package Includes:

- (1) Yoke Assembly 11A*
- (1) Handwheel Spanner Device #216
- (2) Chlorine Institute Emergency Kit "C" Instruction Booklets
- (1) Kit "C" Contents List

Yoke Assembly 11A features:

- Lightweight aluminum yoke
- Pre-assembled Unit for immediate use
- Quick spin-down handle
- Hex-head handle for use with kit wrenches
- Lightweight aluminum sliding block assembly
- A single wrench works for all bolts
- Entire unit weighs 20+ lbs. less than previous style



Handwheel Spanner Device #216 is designed to open and close 1" chlorine angle valves. Device #216 fits into the angle valve handwheel and is turned with either the adjustable kit wrench #218 or socket wrench combination #113. Note: Box 151-C is available, as a separate item, for properly storing Yoke 11A in its fully assembled, ready to use condition.

CHLORINE

HANDLING DEVICES

One Ton Lifting Beam

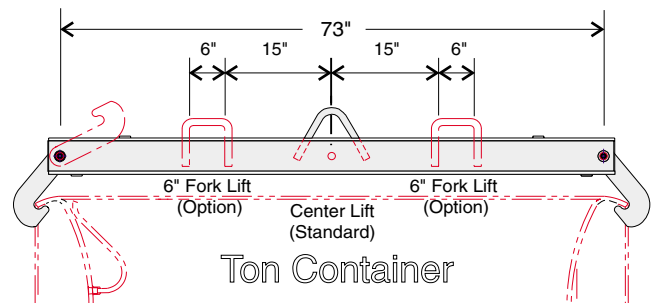


The Chlorine One Ton Lifting Beam is designed to safely lift chlorine ton containers, DOT 106A500X. Standard beams include a center lifting hook (#LBCL). Beams can be ordered with the center and fork lift options (#LBCF) or with just the center pin (#LB) for low clearance lifting.

Features Include:

- Manufactured to ASME B30.20 specifications,
- Strong, all steel, welded construction with 1" thick steel hooks
- Bright yellow enamel paint finish
- Center lift is standard
- Low clearance model and fork lifts* available as options
- Total weight approx. 110 lbs., 4000 lbs. lifting capacity

**Note: Please confirm fit of listed dimensions with your fork lift; Otherwise, specify dimensions for separate quotation.*



Chlorine One Ton Turning Wrench #TW



Use this wrench to roll chlorine ton containers while resting on trunnions. Simply attach the wrench opening to the chime of the container and pull down on the padded grip-handle. Wrench is made of alloy steel, heat treated for strength and cad plated for corrosion resistance.

Chlorine/Sulfur Dioxide Leak Indicator Bottles

Chlorine and sulfur dioxide gas leaks can be easily & safely identified with aqua ammonia vapors. Chlorine/sulfur dioxide safely react with aqua ammonia vapors to form a noticeable white cloud that identifies the source of the chemical leak.

Package Consists of:

- 1 pc. 16 oz. (500 ml) Indicator Bottle
- 1 pc. 16 oz. (500 ml) Bottle with 26° Baume Aqua Ammonia*
- 1 pc. Plastic Storage Bag
- 1 pc. Instructions and MSDS

*Aqua ammonia refill bottle and solution is shipped separately.



CHLORINE & SULFUR DIOXIDE

RECOVERY VESSELS

FOR 100-150 lb. CHLORINE/SULFUR DIOXIDE CYLINDERS

The Chlorine Institute Recovery Vessel was developed by The Chlorine Institute to contain leaks that may occur in 100 and 150 lb. chlorine cylinders which conform to specification DOT 3A480. The Recovery Vessel is designed to totally encapsulate a leaking chlorine cylinder by inserting and securing the entire cylinder within the Recovery Vessel itself. This design allows the Recovery Vessel to handle most leaks that may occur including leaks in the cylinder neck and foot-ring areas that the Chlorine Institute Kit "A" is not designed to contain. A D.O.T. exempt certificate will be furnished with each Recovery vessel along with a hand wrench, a valve wrench, and two instruction booklets.

The Chlorine Institute Recovery Vessel has been granted an exemption by the D.O.T. for the transporting of leaking chlorine cylinders to an absorption center (part# CRV) exemption #E-9781. The Sulfur Dioxide Recovery Vessel has been granted an exemption by the D.O.T. for transporting leaking Sulfur Dioxide cylinders (part# SRV) exemption #E-11459. *Note, additional DOT exemptions may exist or be granted for uses other than mentioned above. Please contact the U.S. Department of Transportation for information concerning uses other than the above mentioned exemptions.*

Part# **CRV**: Chlorine Institute Recovery Vessel
Part# **CRVW**: above with wheels*

Part# **SRV**: Sulfur Dioxide Recovery Vessel
Part# **SRVW**: above with wheels*

*Wheels consist of 2pcs fixed and 2pcs swivel (with brakes) 6" x 2" mold-on, rubber wheels.

Design:

Pressure - 250 PSIG
Test Pressure - 375 PSIG
Temperature - 300F to -20F

Vessel is:

Constructed and stamped per latest ASME code
Stress Relieved
100% X-rayed

Approximate Weight

Empty - 325 lbs.
With 150 lb. cylinder - 575 lbs. (approx.)

Material:

Plate - Carbon Steel ASTM A283
Pipe - Carbon Steel ASTM A106
Grade B Seamless
Welding Fittings - Carbon Steel
ASTM A234 WPB.
O-Ring: Viton (#CRV) or EPDM (#SRV)
Hinged Head - Carbon Steel
Hub - ASTM A106 Grade B
Head - ASTM A515 Grade 70
Bolts - ASTM A193 Grade 87
Nuts - ASTM A194 Grade 2H

Manufactured to Chlorine Institute Specifications by Indian Springs Mfg. Co., Inc.

CHLOREP DEVICES

CHLOREP devices are specialized tools developed by the Chlorine Institute for use by professionally trained **CHLORINE-EMERGENCY-PLAN** responders. These tools were designed to address specific valve leaks and thus require supplementary training for correct application of the devices. These tools are not included in the emergency kits but are available separately

DEVICE #400



DEVICE #400: Clamping device designed to close standard chlorine cylinder and ton container valves with stripped valve stems.

The device is easily attached over the packing gland nut of the valve with the device spindle centered over the valve stem. Tightening the device, with a standard chlorine valve wrench, will drive the valve stem downward closing the valve.

DEVICE #405: Plugging device designed to seal leaks in standard chlorine valves where the valve outlet cap is not functional due to stripped outlet cap threads or a corroded outlet face.

When applied with a standard chlorine valve yoke, Device #405 is drawn into the valve outlet until a seal is developed and the leak is stopped. Device #405 is available separately or with a standard chlorine valve yoke.



DEVICE #406: Clamping device designed to close standard chlorine tank car angle valves having stripped valve yoke threads.

Device #406 is easily installed between the valve yoke and outlet plug with the spindle centered over the hand wheel of the angle valve. The tightening of the device, with a standard C-Kit wrench, will drive the valve stem downward closing the valve.

Note: These items require supplementary training and do not include operating instructions.

SULFUR DIOXIDE

EMERGENCY EQUIPMENT

The **Sulfur Dioxide Gasket Packages** are designed for application with a Chlorine Institute Emergency Kit A, B or C to contain leaks that may occur in SO₂ containers.



Gasket Kits can be purchased with the corresponding Chlorine Institute Emergency Kit or purchased separately to enhance an existing Emergency Kit. When applied with the proper kit, the "SA" and "SB" Gasket Packages stop leaks at the valves, fusible plugs and side walls of cylinders and ton containers respectively. The "SC" package is designed for stopping leaks in the safety and angle valves of tank cars and tank trucks.

The **Indian Springs Sulfur Dioxide Emergency Kit** is designed to contain leaks in sulfur dioxide cylinders, ton containers, tank cars and tank trucks. These kits have the same tools and devices as the Chlorine Institute Emergency Kits except for the substitution of the viton emergency kit gaskets with gaskets made of EPDM for sulfur dioxide service.



- KIT-SA - Sulfur Dioxide Emergency Kit for 100 & 150 lbs. Sulfur Dioxide Cylinders
- KIT-SB - Sulfur Dioxide Emergency Kit for One Ton Sulfur Dioxide Containers
- KIT-SC - Sulfur Dioxide Emergency Kit for Sulfur Dioxide Tank Cars and Tank Trucks

Manufactured to Chlorine Institute Specifications by Indian Springs Mfg. Co., Inc.

AMMONIA EMERGENCY KIT

FOR AMMONIA CYLINDERS DOT 3A480 & 4AA480



The Anhydrous Ammonia Cylinder Emergency Kit is designed to contain leaks at the valve and side wall of ammonia cylinders conforming to DOT specification 3A480 & 4AA480. The Kit includes EPDM molded gaskets, valve containment device, side wall patching device and an ammonia valve yoke with adapter. All kit parts are labeled and color coded blue for ammonia use. Two instruction booklets explaining the application of each device are included.

Emergency Kit Devices Include:

Device #1: designed to contain leaks in and around the cylinder valve. Device #1 will accommodate cylinders up to 15" in diameter with either bumped or foot-ring cylinder bottoms.

Device #8: a patching device designed for sealing leaks in the cylinder side wall.

•Features Exclusive to the Ammonia Kit:

- Hood 1ANH -Ammonia steel outlet valve
- 1EPR Gasket -Molded EPDM Hood Gasket
- 8DNH Patch - Formed with a larger sealing radius to match ammonia cylinders
- 8-9EP Gasket - Molded EPDM Patch Gasket
- 102NH Wrench - Open-end wrench to fit ammonia cylinders
- A-9NH Valve Yoke - Standard valve yoke for ammonia cylinder use
- A-10NH Valve Adapter - Standard valve adapter for ammonia cylinder use
- All parts are labeled with ammonia part numbers and color coded blue
- 1ANH Booklet - Instruction booklet for Ammonia Kit

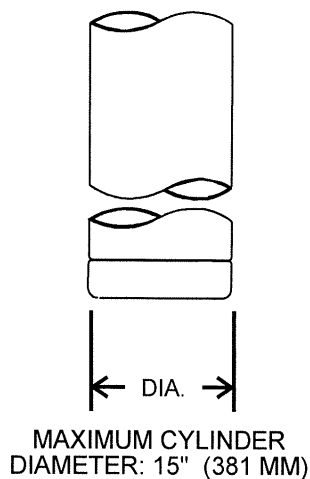
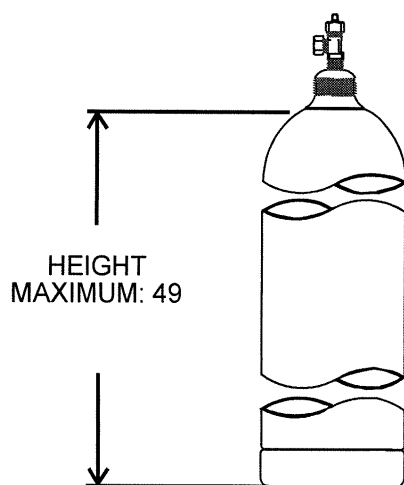
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Ammonia Emergency Kit Parts List

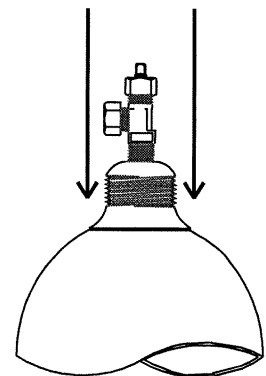
PART#	DESCRIPTION	QTY./KIT
1ANH	Hood Assembly (with vent valve 1VNH)	1
1CNH	Yoke	1
1DNH	Cap Screw	1
1ENH	Base Assembly (with Chains 1FNH)	1
1EPR	Gasket, Molded EPDM	2
1KNH	Cap Screw	3
1RNH	Ramp	1
8ANH	Chain	1
8BNH	Yoke	1
8CNH	Cap Screw	1
8DNH	Patch	1
8-9EP	Gasket, EPDM, 3" square x 1/8 thick	2
200NH	Wrench, 3/8 sq. box, 1-1/4 open end x 7-1/4 lg	1
101NH	Wrench, straight open end, 1-1/4 x 12 lg	1
102NH	Wrench, straight open end, 1-3/8 x 12 lg	1
A-1NH	Hammer, machinist, 48 oz	1
A-3NH	Drift Pin, 9/32 x 1/2 x 6 lg	1
A-4NH	Drift Pin, 7/8 x 1-1/4 x 8 lg	1
A-7NH	Gasket Sack	1
A-8NH	Paint Scraper, 1-1/4 blade	1
A-9NH	Ammonia Valve Yoke	1
A-10NH	Ammonia Valve Yoke Adapter	1
144NH	Tool Roll	1
151NH	Kit Box, 35"L x 13-3/4"H x 14-1/4"W	1
	Instruction Booklet	2



MAXIMUM AMMONIA CYLINDER DIMENSIONS



MAXIMUM NECKRING
DIAMETER: 4-3/8"
(111 MM)



MAXIMUM CYLINDER PRESSURE: 100 PSI.

**ACTUAL CYLINDER DIMENSIONS MUST BE LESS THAN
MAXIMUM DIMENSIONS SHOWN TO ENSURE PROPER FIT.**

DRUM & PIPE PATCH KITS

The Universal Drum Kits are designed for small to medium sized holes in any type of low pressure vessel. Kits contain tools and devices to seal pin, convex, concave, flat surface holes, cracks and hairline cracks. Universal kit devices include stainless steel sheet metal screws, lead wool, epoxy putty, repair tape, neoprene gasketing, hand tools, T-bolt patches, wooden plugs, assorted ball plugs, and OSHA approved barrier tape. All kits are available with non-sparking tools as well.



Universal Drum Kits

Kit "ECA" - The original universal kit includes all the standard tools along with the Ladder Patch for average fork-lift punctures (pictured).

Kit "ECE" - Universal kit including standard devices and the Twin "T" Patch for fork-lift punctures.

Kit "ECAE" - Universal kit with Ladder and Twin "T" patches.

Kit "ECD" - Drum repair kit, smaller kit including standard devices.

Pipe Leak Control Kits

Internal Pipe Plugging Kits contain vented pipe plugs for pipes 1" to 4", non-vented for under 1", hand tools and carrying case. External Pipe Leak Kits contain sets of external pipe bandages covering nominal pipe sizes from 1/2" to 8". Additional soft and hard neoprene bandage liner material increases versatility of the bandages, complete with tools (standard or non-sparking) and carrying case.

Kit "ECC" - Internal Pipe Plugging Kit for 1" to 4" pipes.

Kit "ECC1" - Kit "ECC" with couplers, valve, tubing and pipe-off accessories.

Kit "ECC2" - Includes 10 external pipe patches covering pipes from 1/2" to 4" in diameter (pictured).

Kit "ECC3" - Includes 3 large external pipe patches covering 5", 6" and 8" pipes.



Oversized plugs and patches, tank car patches, and accessory tools for above kits are available.

CHLORINE AND AMMONIA

TRAINING VIDEOS &

Chemical Safety and Emergency Kit Training Videos

Safety and Instructional videos are available for training personnel on the chemical hazards of chlorine and ammonia and on the application of the Chlorine Institute Emergency Kit "A", "B" & "C".



Part# CSV	Chlorine Treat With Respect - Chlorine Safety Video	Length: 26 minutes
Part# ASV	Anhydrous Ammonia - Ammonia Safety Video	Length: 22 minutes
Part# ALAV	Chlorine Institute Emergency Kit "A" Instructional Video	Length: 15 minutes
Part# BLAV	Chlorine Institute Emergency Kit "B" Instructional Video	Length: 11 minutes
Part# CLAV	Chlorine Institute Emergency Kit "C" Instructional Video	Length: 11 minutes

Available on standard VHS or Beta format. Also available in Spanish and for the PAL system.

Chlorine Training Cylinder

The Chlorine Training Cylinder is an actual 150 lb., DOT 3A480, cylinder designed to allow leaks at the valve, fuse plug or cylinder side-wall. An external hose fitting allows a standard garden hose to be used to fill the entire cylinder, not only to create leaks, but to simulate the handling of a full chlorine cylinder as well. With the cylinder full and under water pressure, you can simulate leaks in the: Cylinder Valve, Valve Fuse Plug and Cylinder Side



Cylinder & Fuse Plug Leaks

Valve leaks can be simulated by opening the valve or by inserting the modified fuse plug.

Internal One-Way Check Valve

Check valve allows water to flow out of cylinder into outlet valve but will prevent the cylinder from being accidentally filled.

Side-Wall Leak

Simply remove the screw and washer to simulate a leak through the cylinder side-wall.

Hose Connector & Internal Check Valve

Connect a standard garden hose to pressurize cylinder for leaks & disconnect without loss of contents.

TRAINING DEVICES

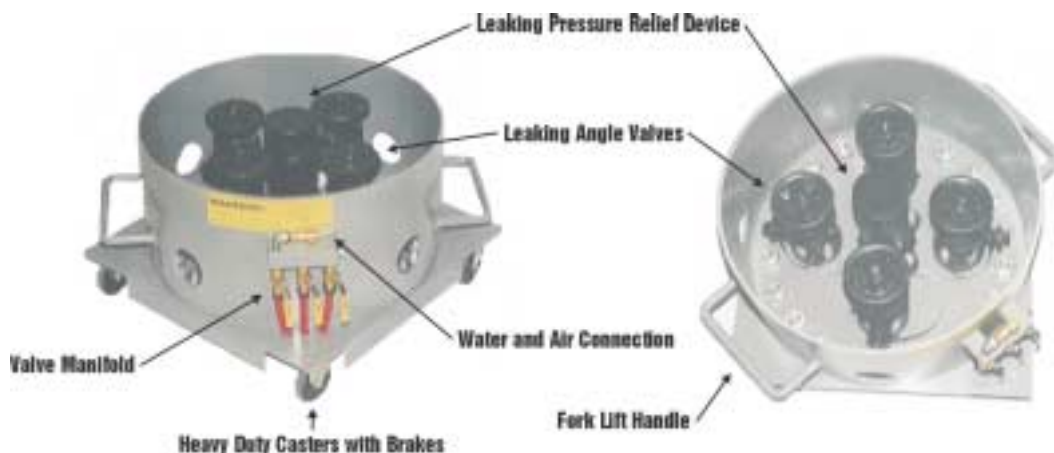
Chlorine One Ton Training End



The Chlorine One Ton Training End is an actual full size end of the standard DOT 106A500X chlorine container, mounted on a support base. The Training End is designed to simulate chlorine emergencies and allow "hands on" practice applying the Chlorine Emergency Kit "B". Chlorine leaks can be simulated, using a standard gardenhose, in the valve and in two of the fusible plugs. The Training End also includes a lifting eye, set of side lifting handles and is also available with wheels. Weight: 350lbs.

Kit "C" Rail Car Training Device

Realistic railcar/tank truck emergency situations can be simulated when applying The Chlorine Institute Emergency Kit "C" to the Chlorine Railcar Training Dome. The valve manifold allows the instructor to simulate a chlorine leak, with water or compressed air, in the pressure relief device and in two of the angle valves. Heavy duty casters allow for safe and easy handling of the unit. Weight: 380 lbs.



Simulate: Angle Valve Leaks (Gas and/or liquid), Pressure Relief Device Leaks, Opening and Closing Angle Valves, Removal and Replacement of Outlet Plug and Chain, Tightening Valve Anchor Bolts & Manway Cover Nuts

LEVEL "A" & "B"

PROTECTIVE CLOTHING

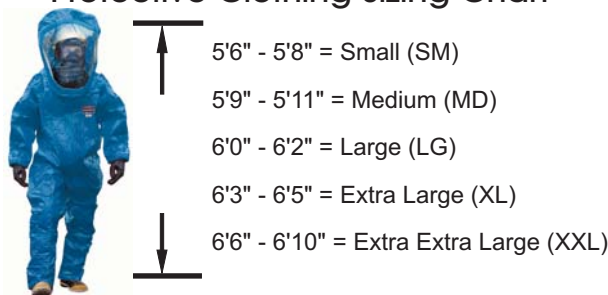
The Responder is a light weight level "A" total encapsulating suit designed and priced to be a limited use garment. The suit is durable enough to withstand several uses, while also being economical enough to discard when contaminated or when the suit shows signs of wear.

Manufactured from a tough substrate and composite material with sewn and heat sealed seams, Responder provides excellent protection to a wide variety of hazards including chlorine, sulfur dioxide and ammonia.

Features include:

- 40 mil. polished pvc window
- Two covered exhalation valves
- Sock boots and splash guards
- Tapered shape and roomy sleeves
- Internal belt and attached butyl gloves.

Protective Clothing Sizing Chart



THE RESPONDER™

LEVEL "A" TOTAL ENCAPSULATING SUIT



Unit Part #	Description
RS527T	Responder, Limited Use, Level B fully encapsulating suit, front entry
RS550T	Responder, Limited Use, Level A fully encapsulating suit, front entry
RS562T	HazMat Responder, Limited Use, Level A fully encapsulating suit, front entry
RS600T	NFPA 1991 Certified Responder Ensemble
RS490T	Decontamination shower with spray wand, catch basin & carrying bag

Also Available:
Several additional styles, options and accessories, training suits, Decontamination shower units and more.

AND ACCESSORIES

Responder Training Suit

The Responder Training Suit is designed to simulate the feel and wear of an actual Level "A" Responder without having to use an actual emergency suit during your HazMat training exercises. These suits are made of the same chemical resistant material as the standard Responder; however, these suits are not vapor protective and are labeled for training use: "TRAINING SUIT, DO NOT USE IN HAZARDOUS ENVIRONMENTS".

Each suit comes with a storage bag. Training suits are also available in yellow PVC to simulate heavier reusable suits - further specifications available.

Part# 41555



HazProof™ by TINGLEY

The world's most advanced hazardous material boot.

Introducing HazProof. The first boot to meet and surpass NFPA 1991, 1994 edition requirements. The NFPA standards are the toughest in use for chemical permeation and flammability resistance. HazProof hazardous material boot is the tested and proven boot for your hazmat response needs.

Unique Design: the foot area is engineered to accommodate the extra bulk of an encapsulated suit. Also, the closure system allows for easy donning and

Responder Decontamination Shower

Kappler's Responder Decontamination Shower greatly reduces the possibility of environmental contamination. Made with chemical-resistant Responder material, the catch basin safely collects decon run-off. Plus the removable spray wand with adjustable shut-off valve and ergo-grip handle allows much better control of the water.

All components of the shower are easily packed in a deluxe nylon carry case with wide nylon webbing handles and a full length zipper. Minimal amount of space is required for storage and transportation. Decontamination



BREATHING APPARATUS

The Vanguard is an open circuit, positive pressure, compressed air SCBA which is **NIOSH/MSHA approved** and designed for non-firefighting applications.

Designed to provide respiratory protection for hazardous environments, including those deemed Immediately Dangerous to Life and Health (IDLH), Vanguard is a safe, reliable and economical option.

Vanguard employs similar technology found in the high performance ISI NFPA compliant SCBA, which ensures reliability backed by experience ,but also with options and features not commonly found in other industrial SCBA.

Features Include:

- Several Facemask & Cylinder Options
- High Performance - Low Breathing Resistance
- Simple to Use and Maintain
- Economical
- Light Weight
- Proven performance
- Optional AirSwitch™ regulator



Part# VLA3

Vanguard SCBA Protective Wallcase

The Encon Wallcase provides a secure and convenient storage area for your Vanguard scba.

Features include:

- Superior Protection
- Secure Closure
- Convenient Size
- Rugged Design
- Tamper Seal & Inspection Window
- Chemical Resistant Enclosure

[illegible]

AND ACCESSORIES

Wilson Gas Mask #6600GM

Protect workers from dangerous gases and vapors while on the job. The Willson Gas Mask 6600GM has a full facepiece of pliable rubber and ratchet headgear designed for easy on/off and adjustment. Canisters attach directly to the face piece. *Canisters must be ordered separately.* Chlorine canister, part# 62F, comes in a case of 6 pcs.. Highly visible yellow carrying case is included

NOTE: Gas masks are not suitable for firefighting, fumigation, entry into or use in immediately dangerous to life and health (IDLH) atmospheres. Do not exceed maximum use concentrations established by regulatory standards.

**Part# 6600GM
with Chlorine cannister #62N**



Mouthpiece Respirators

These respirator are specifically designed to emergency egress from hazardous areas. Units can be attached to a belt or worn around the neck for immediate donning. Ideal for workers and plant visitors. Respirator features a pliable rubber mouthpiece, attached nose clip, and chemical cartridge.

Vanguard SCBA Protective Wallcases



The Encon Wallcase provides a secure and convenient storage area for your self-contained breathing apparatus.

Features include:

- Superior Equipment Protection
- Secure Closure with Hinged Door
- Convenient Size
- Rugged Design
- Tamper Seal & Inspection Window
- Chemical Resistant Enclosure

#VWCY - Single SCBA unit wall case
#DSWC - Dual SCBA wall case



CHLORINE AND AMMONIA

VALVES, VALVE YOKES

Chlorine Valves and Valve Yokes



Chlorine valves and valve yokes are made in strict compliance with the standards and specifications of *The Chlorine Institute*.

Chlorine Valve bodies are forged from corrosion-resistant aluminum silicon bronze alloy "B". Strong, chlorine-compatible Monel® stems are used for long valve service with stem seal packing recognized by the Chlorine Institute. Brass outlet caps with teflon® inserts are included for outlet thread protection. Valves come in two models:

3/4" - 14 NGT CGA820 Chlorine Cylinder Valve with Fuse Plug (#1210B1)

3/4" - 14 NGT CGA 820 One Ton Container Valve, no Fuse Plug (#1214B1)

Part# 1210B1 is the replacement valve for the training cylinder (#TCYL) and part# 1214B1 is the replacement valve for Chlorine Institute Emergency Kit Hoods: 1A2, 12A, 6A& 24A.

The **Chlorine Valve Yoke** (#628) is made of a forged steel body and follower with corrosion resistant plating in compliance with Chlorine Institute specifications. Chlorine yokes are used in conjunction with valve adapters to connect chlorine cylinders to a chlorine processing system. Handwheel operated valve yokes are available as an option (#628H)

Chlorine Valve Yoke (#628)

Chlorine Valve yokes may also be purchased as replacement emergency kit components: A-9 (A-kit) and B-9 (B-kit).



Ammonia Valves and Valve Yokes

The Ammonia Valve, Yoke and Adapter are designed to connect ammonia cylinders to an ammonia processing systems safely. The ammonia valve is a wrench operated carbon steel valve manufactured specifically for ammonia gas use. An Ammonia Valve Yoke and Valve Adapter are also available.

Ammonia Cylinder Valve - Part#1206A

Ammonia Valve Yoke - Part#628X1

Ammonia Valve Adapter - Part# A10NH

The Ammonia Valve, Yoke and Adapter are also available as replacement part for the Ammonia Emergency Kit: Ammonia Valve - 1VNH, Ammonia Yoke - A9NH, Ammonia Adapter - A10NH

WRENCHES & ADAPTERS

Chlorine Valve Wrench



The Chlorine Valve Wrench (#635) is designed to operate the standard chlorine cylinder and one ton container valves. The open-end of wrench #635 will fit both the outlet cap and packing nut of the chlorine valve; while the box-end is designed to fit the valve stem to open and close the valve. The valve wrench is available in two models:

- 1-1/4" Open-End x 3/8" Square, Valve Wrench (#635)**
- 1-1/4" Open-End x 3/8" Square, Twisted Valve Wrench (#635X)**

Model #635X is twisted 90 degrees to allow opening and closing of valve with the palm of the hand on the flat of the wrench head opening.

Wrench #635 is also available as an emergency kit replacement part: #200A (A-kit), #200B (B-kit), #200C (C-kit).

Chlorine Yoke Adapters

Chlorine high flow Yoke Adapters are designed to fit with the standard chlorine valve and valve yoke in Six different models:

- #5888-6 Yoke Adapter with 3/8" S.A.E. Flare Connection**
- #5888-6S Yoke Adapter with 3/8" O.D.S. Connection**
- #5888-8 Yoke Adapter with 1/2" S.A.E. Flare Connection**
- #5888-D Yoke Adapter with 1/2" - 14 NPT Connection**
- #5888-E Yoke Adapter with 1.030"-14 RH-Ext. Connection**

Chlorine Emergency Kit Replacement Parts:

- #A-10 Yoke Adapter with Tapered 823 Hose Connection for Kit "A"**
- #B-10 Yoke Adapter with Tapered 823 Hose Connection for Kit "B"**



Chlorine Cylinder and Ton Container Fuse Plugs



Chlorine Fuse Plugs are manufactured in accordance with Chlorine Institute Specifications for use on chlorine cylinders and ton containers.

- 1/8" - 27 NPT Standard Chlorine Cylinder Fuse Plug (#5853T)**
- 3/4" - 14 NGT Standard One Ton Container Fuse Plug (#1333B1)**

Fuse Plug #5853T & #1333B1 Are also available as a Chlorine Training Cylinder and Training End replacement parts #TCYLFP & #ENDFP.

Contact us for further technical information on any of the above items or for additional chlorine handling devices.

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HAZMAT EMERGENCY EQUIPMENT



Indian Springs Specialty Products Inc.
- 50+ Years of Chlorine Institute Emergency Equipment -

EMERGENCY EQUIPMENT **PERSONAL PROTECTION** **TRAINING DEVICES**

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 **Indian Springs Specialty Products Inc.**

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