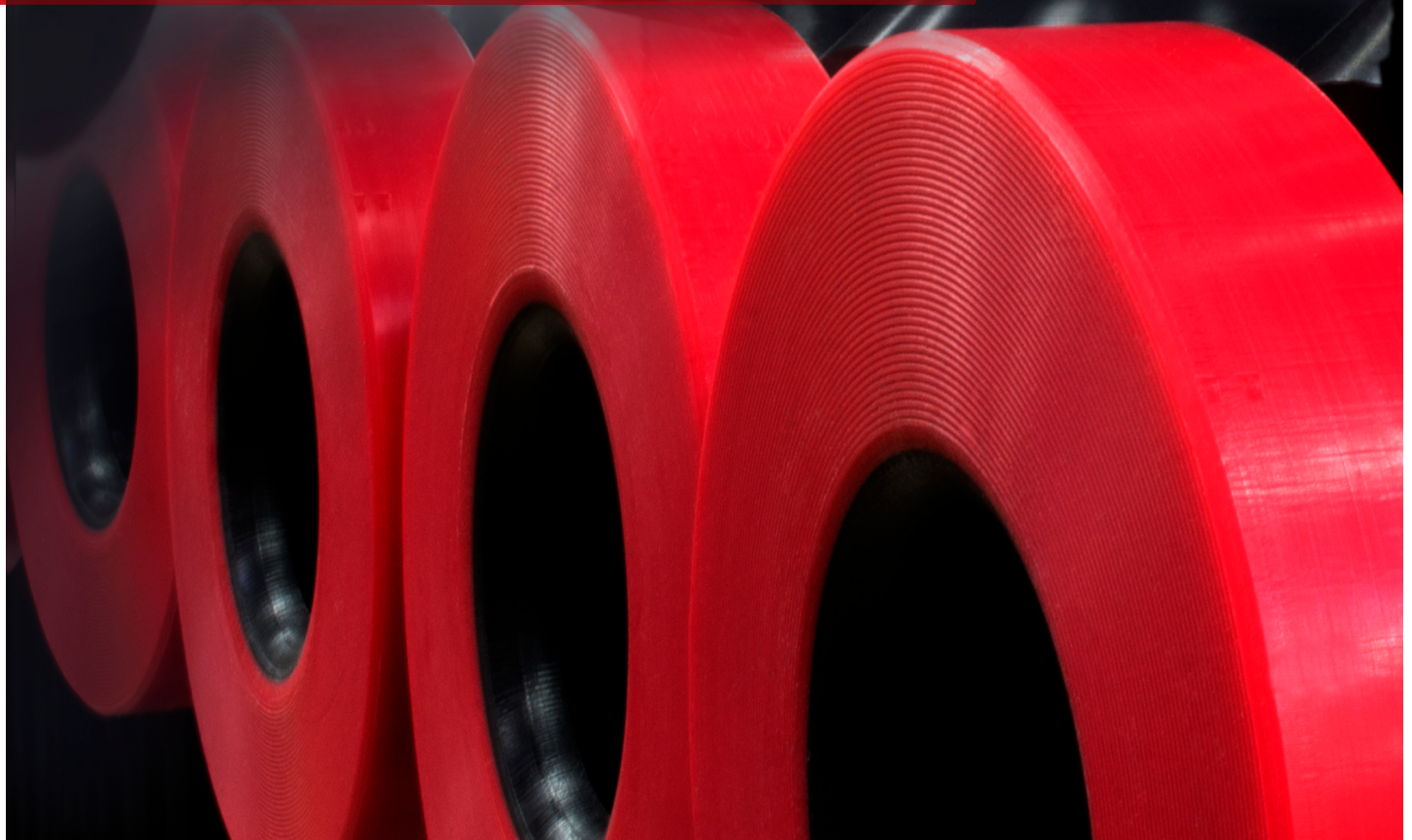


HAZARSOLVE

Custom component products and services developed for the fluid and vapor transfer of corrosive liquids.



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Product Line of Salco Products

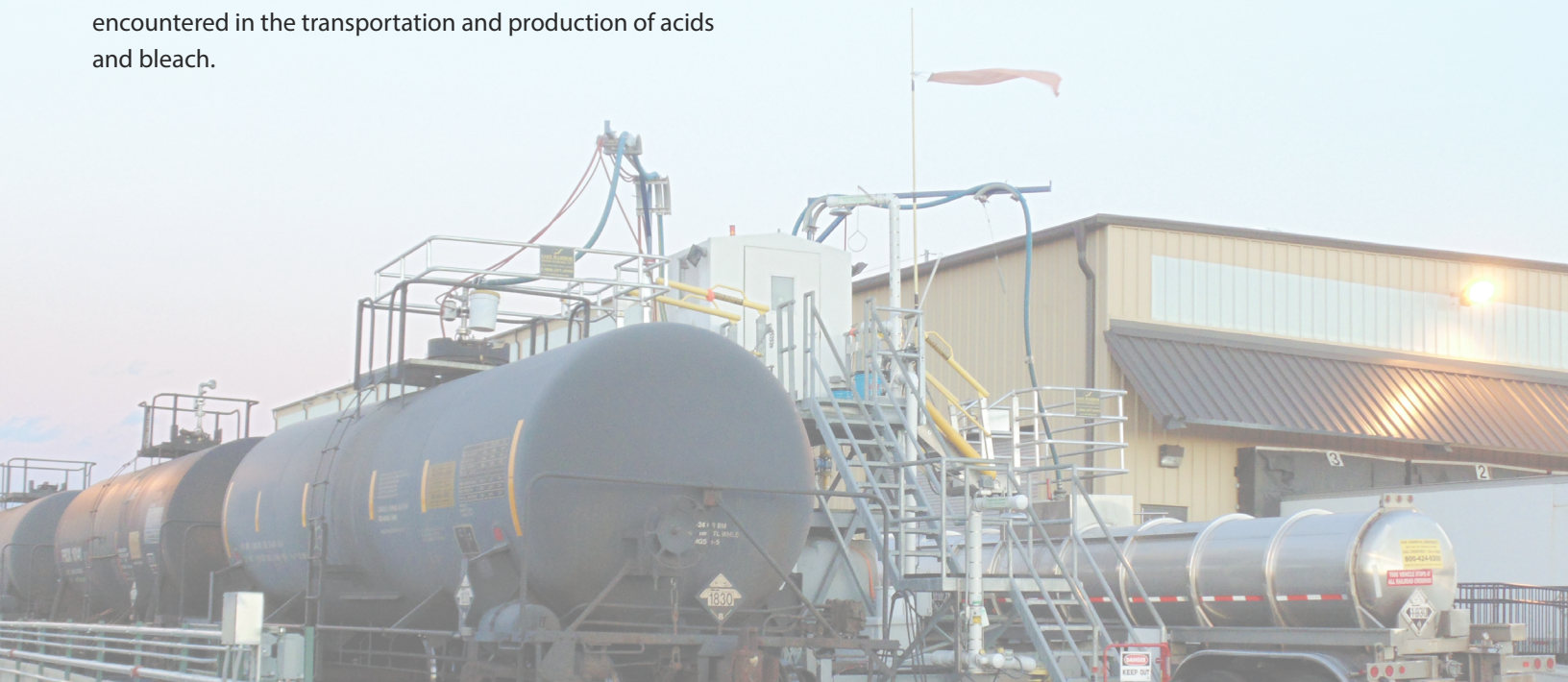
Hazarsolve = Total Solutions:

A comprehensive product line, extensive experience, and in-house capabilities to develop customer-driven engineering solutions, Hazarsolve is your Total Solutions partner in the Chlor-Alkali liquid and vapor transfer chemicals market.

The Hazarsolve product line within Salco Products, Inc. specializes in designing, constructing, and supplying innovative products and services to the Chlor-Alkali chemical industries. We are well known throughout the industry and our customers come to us to upgrade their old technology with superior, cost-saving, innovative products. Together we have over 55 years experience working with corrosives, acids and accompanying fluid transfer support equipment throughout all modes of transportation and storage.

Whether for plant use, freight transportation, or transloading, Hazarsolve's heavy-duty, superior products provide the answer to reduced maintenance and labor costs. A complete line of corrosion resistant, fluid and vapor transfer products designed specifically for the Chlor-Alkali chemical market, Hazarsolve components are made to withstand the harsh environments encountered in the transportation and production of acids and bleach.

Research and innovation form the foundation of Hazarsolve's objective of providing long-lasting, economical products that can help companies save time and money. Coupled with Salco's expertise, innovative railcar and transloading products, Hazarsolve utilizes its extensive corrosives environment knowledge and experience to design, engineer and manufacture the best products for the Chlor-Alkali market. Need a specialized part for your operations or fleet? Our in-house product development engineers will work hand-in-hand with you to determine the best solutions for your individual situation.





Corrosion Resistant, Plastic Dip Tubes

Primarily used in corrosive environments such as HCL, ferric chloride, ferrous chloride and bleach, our popular dip tubes can also be used in non-corrosive applications.

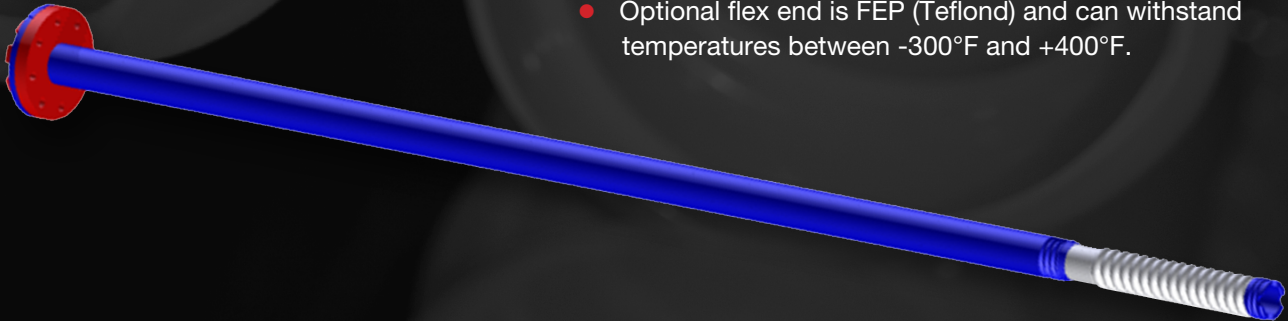
Key Features

- Economical, flexible and lightweight; can easily be installed by one worker.
- Produced from Salco PE(UHMWPE) and Teflond, making tubes six times more abrasive resistant than steel dip tubes.
- AAR approved, #E069015.
- Flex end on railcar tubes eliminates need for spiders.
- Concentric serrations on the flange enables positive sealing of gaskets.
- Available in a variety of sizes, flanges can be constructed to suit any inlet/outlet application. Tube length can be cut to fit each application.
- FDA materials available.

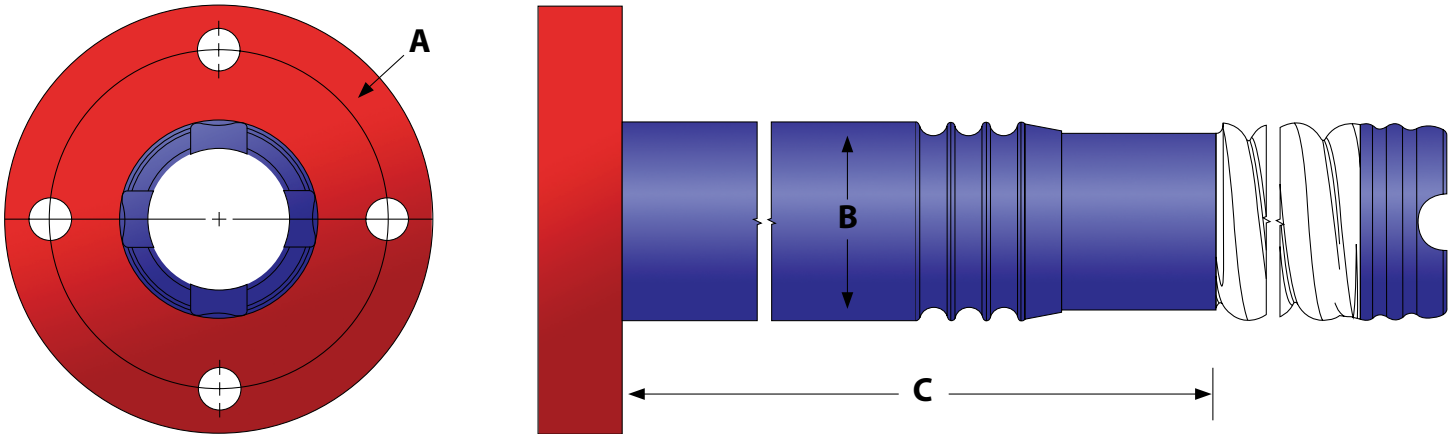
Primary applications include railcars, tank trucks, barges and stationary tank storage.

Wide Temperature Ranges

- Pipes and flanges can withstand temperatures between -40°F and +180°F.
- Optional flex end is FEP (Teflond) and can withstand temperatures between -300°F and +400°F.



Single Flange Dip Tube



Breakdown of Salco's Part Numbering System

Example: **HS3DT23103**

HS
↓
Hazarsolve

3
↓
Car Flange

DT
↓
Dip Tube

23
↓
Pipe Diameter

103
↓
Length (nominal)

| | | | | |
|----------------------|--|--|--|---|
| | <p>Standard 150lb ANSI Flange</p> <p>3" 4" ** 5" 6" (Truck Application)</p> <p>** 4" Dip Tube Flanges have both 7 1/2" and 7 3/4" bolt circles (slotted holes)</p> | | <p>23 = smaller 3" OD x 2" ID diameter tube</p> <p>Omit # if standard 3 1/2" OD x 2 1/2" ID Diameter</p> | <p>103" finished length 111" to 120 1/2"</p> <p>110" finished length 121" to 127 1/2"</p> <p>116" finished length 128" to 133 1/2"</p> <p>72" Truck Application (No Flex End)</p> |
| Reference Key | A | | B | C |

Single Flange Dip Tube Part Numbers

Salco PE (UHMWPE)

Includes Pipe, Flange and Flex Tube

AAR Approval # E069015

3"

2" ID x 3" OD Tube Diameter

(4) 3/4" Bolt Holes on 6" Bolt Circle

HS3DT23110 – 110" Long (finished length 121" to 127 1/2")

2 1/2" ID x 3 1/2" OD Tube Diameter

(4) 3/4" Bolt Holes on 6" Bolt Circle

HS3DT94 – 94" Long (finished length 103 1/2" to 111 1/2")

HS3DT116 – 116" Long (finished length 128" to 133 1/2")

4"

2" ID x 3" OD Tube Diameter

(8) 3/4" Slotted Bolt Holes on 7 1/2" to 7 3/4" Bolt Circle

HSDT23103 – 103" Long (finished length 111" to 120 1/2")

HSDT23110 – 110" Long (finished length 121" to 127 1/2")

HSDT23116 – 116" Long (finished length 128" to 133 1/2")

2 1/2" ID x 3 1/2" OD Tube Diameter

(8) 3/4" Slotted Bolt Holes on 7 1/2" to 7 3/4" Bolt Circle

HSDT103 – 103" Long (finished length 111" to 120 1/2")

HSDT110 – 110" Long (finished length 121" to 127 1/2")

HSDT116 – 116" Long (finished length 128" to 133 1/2")

5"

2" ID x 3" OD Tube Diameter

(8) 3/4" Bolt Holes on 8 1/2" Bolt Circle

HS5DT103 – 103" Long (finished length 111" to 120 1/2")

HS5DT110 – 110" Long (finished length 121" to 127 1/2")

2 1/2" ID x 3 1/2" OD Tube Diameter

(8) 3/4" Bolt Holes on 8 1/2" Bolt Circle

HS5DT23103 – 103" Long (finished length 111" to 120 1/2")

HS5DT23110 – 110" Long (finished length 121" to 127 1/2")

6"

2 1/2" ID x 3 1/2" OD Tube Diameter

(8) 7/8" Bolt Holes on 9 1/2" Bolt Circle

HS6DT103 – 103" Long (finished length 111" to 120 1/2")

HS5DT110 – 110" Long (finished length 121" to 127 1/2")

Single Flange Dip Tube Part Numbers

Salco PE (UHMWPE)

Includes Pipe and Flange only

Tank Trailer Application

3"

2" ID x 3" OD Tube Diameter

(4) $\frac{3}{4}$ " Bolt Holes on 6" Bolt Circle

HS3DT2372 – 72" Long

2 $\frac{1}{2}$ " ID x 3 $\frac{1}{2}$ " OD Tube Diameter

(4) $\frac{3}{4}$ " Bolt Holes on 6" Bolt Circle

HS3DT72 – 72" Long

4"

2" ID x 3" OD Tube Diameter

(8) $\frac{3}{4}$ " Slotted Bolt Holes on 7 $\frac{1}{2}$ " to 7 $\frac{3}{4}$ " Bolt Circle

HS4DT2372 – 72" Long

2 $\frac{1}{2}$ " ID x 3 $\frac{1}{2}$ " OD Tube Diameter

(8) $\frac{3}{4}$ " Slotted Bolt Holes on 7 $\frac{1}{2}$ " to 7 $\frac{3}{4}$ " Bolt Circle

HD4DT72 – 72" Long

6"

2" ID x 3" OD Tube Diameter

(8) $\frac{7}{8}$ " Bolt Holes on 9 $\frac{1}{2}$ " Bolt Circle

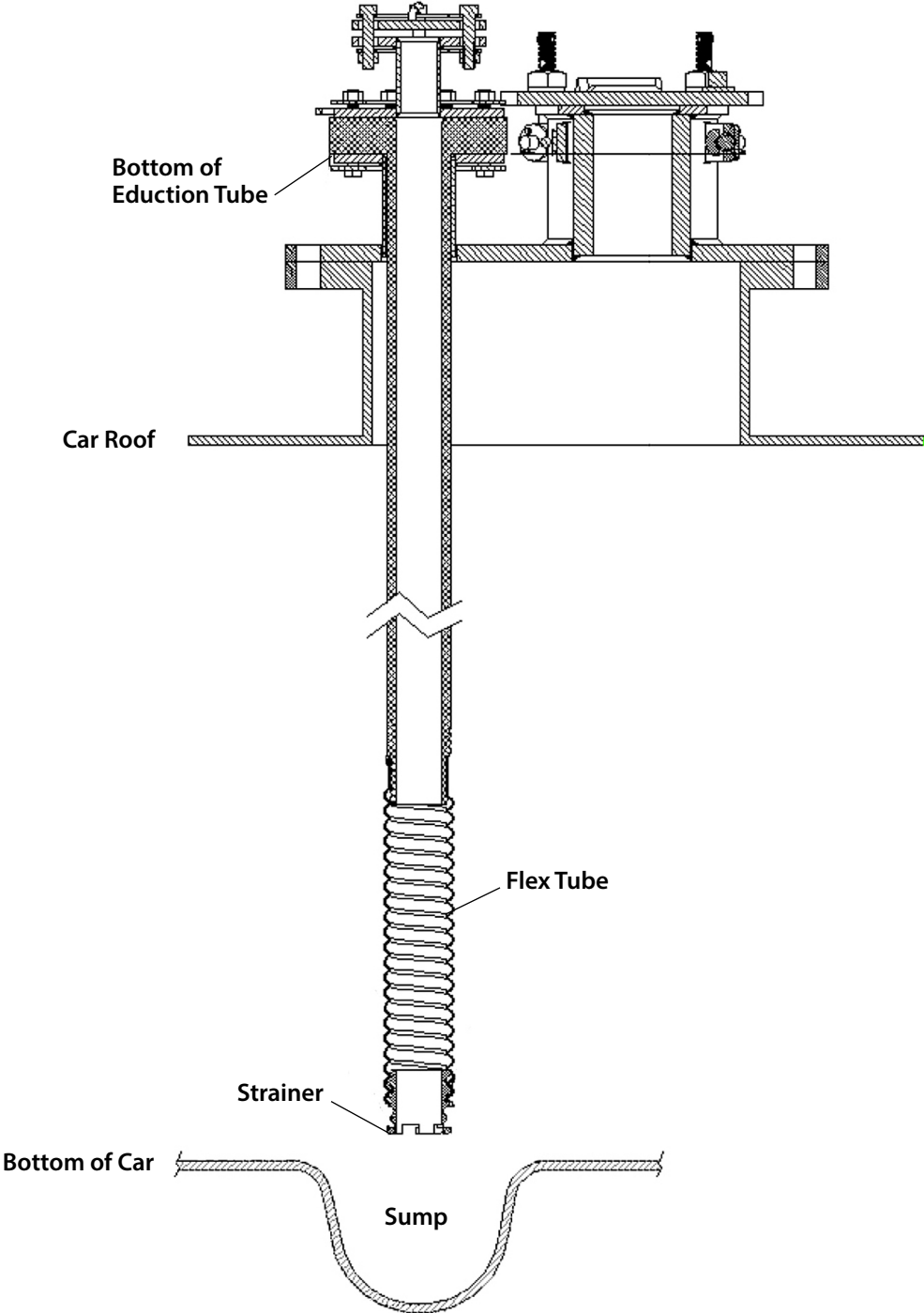
HS6DT2372 – 72" Long

2 $\frac{1}{2}$ " ID x 3 $\frac{1}{2}$ " OD Tube Diameter

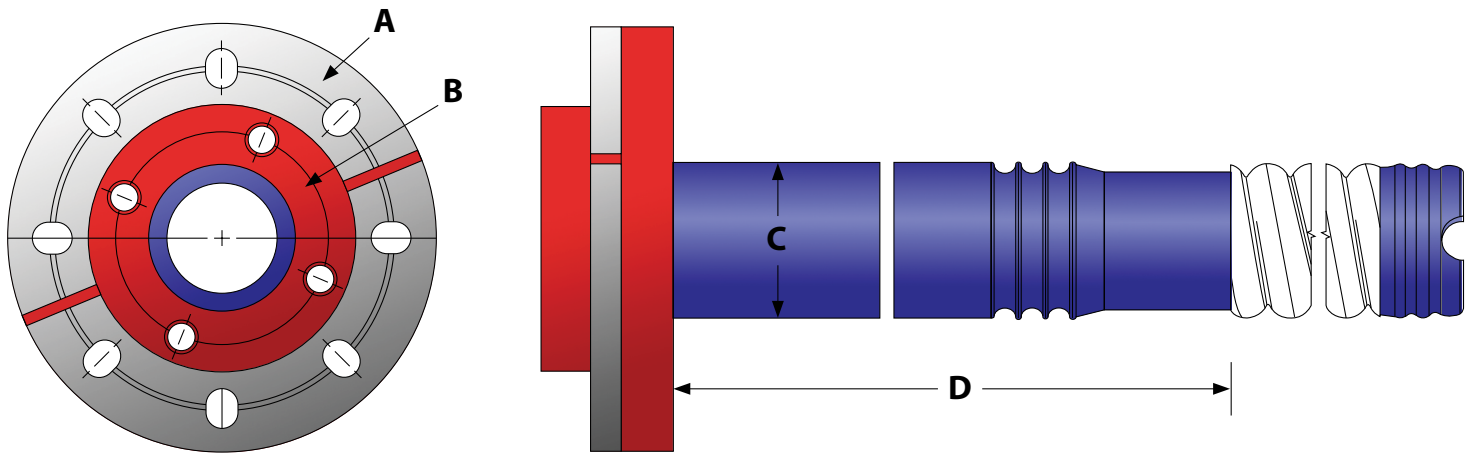
(8) $\frac{7}{8}$ " Bolt Holes on 9 $\frac{1}{2}$ " Bolt Circle

HS6DT72 – 72" Long

Dip Tube Application Diagram



Reducing Flange Dip Tube



Breakdown of Salco's Part Numbering System

Example: **HS43DT110**

| | HS ↓ Hazar solve | 4 ↓ Car Flange | 3 ↓ Reducing Flange | DT ↓ Dip Tube | ↓ Pipe Diameter | 103 ↓ Length (nominal) |
|----------------------|------------------------|--|--|---------------------|---|--|
| | | Standard 150lb ANSI Flange 3" 4" ** 5" 6" (Truck Application) ** 4" Dip Tube Flanges have both 7 1/2" and 7 3/4" bolt circles (slotted holes) | Standard 150lb ANSI Flange 2" 3" | | 23 = smaller 3" OD x 2" ID diameter tube Omit # if standard 3 1/2" OD x 2 1/2" ID Diameter | 103" finished length 111" to 120 1/2" 110" finished length 121" to 127 1/2" 116" finished length 128" to 133 1/2" 72" Truck Application (No Flex End) |
| Reference Key | | A | B | | C | D |

Reducing Flange Dip Tube Part Numbers

Salco PE (UHMWPE)

Includes Pipe, Flange and Flex Tube

AAR Approval # E-009032

3" x 2"

2 1/2" ID x 3 1/2" OD Tube Diameter

(4) 3/4" Bolt Holes on 6" Bolt Circle

(4) 3/4" Bolt Holes on 4 3/4" Bolt Circle

HS32DT116 – 116" Long (finished length 128" to 133 1/2")

4" x 2"

2" ID x 3" OD Tube Diameter

(8) 3/4" Slotted Bolt Holes on 7 1/2" to 7 3/4" Bolt Circle

(4) 3/4" Bolt Holes on 6" Bolt Circle

2 1/2" ID x 3 1/2" OD Tube Diameter

(8) 3/4" Slotted Bolt Holes on 7 1/2" to 7 3/4" Bolt Circle

(4) 3/4" Bolt Holes on 4 3/4" Bolt Circle

HS42DT103 – 103" Long (finished length 111" to 120 1/2")

HS42DT110 – 110" Long (finished length 121" to 127 1/2")

HS42DT116 – 116" Long (finished length 128" to 133 1/2")

4" x 2 1/2"

2 1/2" ID x 3 1/2" OD Tube Diameter

(8) 3/4" Slotted Bolt Holes on 7 1/2" to 7 3/4" Bolt Circle

(4) 3/4" Bolt Holes on 5 1/2" Bolt Circle

HS425DT110– 110" Long (finished length 121" to 127 1/2")

4" x 3"

2 1/2" ID x 3 1/2" OD Tube Diameter

(8) 3/4" Slotted Bolt Holes on 7 1/2" to 7 3/4" Bolt Circle

(4) 3/4" Bolt Holes on 6" Bolt Circle

HS43DT110– 110" Long (finished length 121" to 127 1/2")

HS43DT116– 116" Long (finished length 128" to 133 1/2")

Reducing Flange Dip Tube Part Numbers

Salco PE (UHMWPE)

Includes Pipe, Flange and Flex Tube

Tank Trailer Application

4" x 3"

2.5" ID x 3.5" OD Tube Diameter

(8) 3/4" Slotted Bolt Holes on 7 1/2" to 7 3/4" Bolt Circle

(4) 3/4" Bolt Holes on 6" Bolt Circle

HS43DT72 – 72" Long

5" x 3"

2.5" ID x 3.5" OD Tube Diameter

(8) 7/8" Bolt Holes on 8 1/2" Bolt Circle

(4) 3/4" Bolt Holes on 6" Bolt Circle

HS53DT62 – 62" Long

6" x 3"

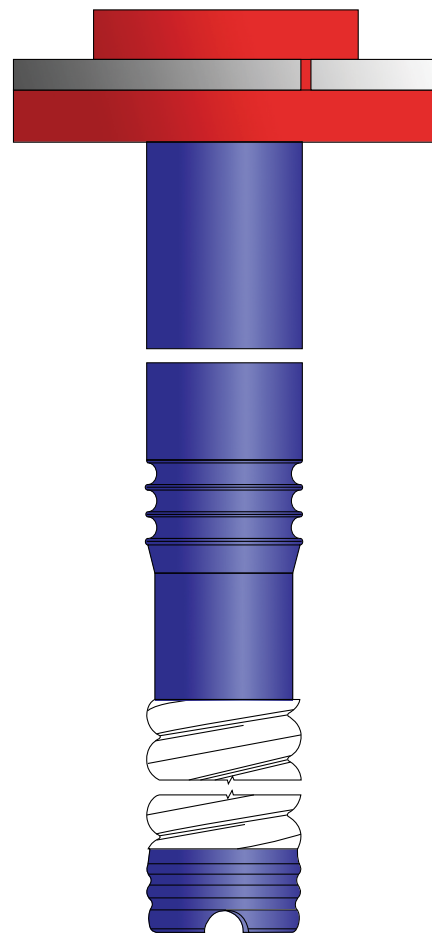
2.5" ID x 3.5" OD Tube Diameter

(8) 3/4" Bolt Holes on 9 1/2" Bolt Circle

(4) 5/8" Bolt Holes on 6" Bolt Circle

HS63DT72 – 72" Long

HS63DT90 – 90" Long





90° Pipe Elbow Part Numbers

Salco PE (UHMWPE)

2"

(4) 3/4" Bolt Holes on 4 3/4" Bolt Circle

HS2X90PE4 – 5 7/8" Long x 5 7/8" High

HS2X90PE7 – 6" Long x 6 1/16" High

3"

(4) 3/4" Bolt Holes on 6" Bolt Circle

HS3X90PE1 – 6" Long x 6 1/8" High with Shear Groove

HS3X90PE4 – 6" Long x 6 15/16" High

HS3X90PE7 – 6 15/16" Long x 20" High

HS3X90PE8 – 6 15/16" Long x 25 1/2" High

4"

(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle

HS4X90PE1 – 7" Long x 7" High with Shear Groove

HS4X90PE2 – 7" Long x 7" High

6"

(8) 7/8" Bolt Holes on 9 1/2" Bolt Circle

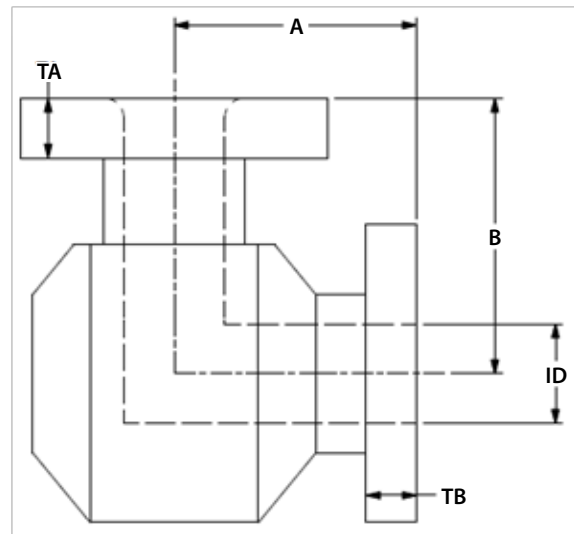
HS6X90PE1 – 10" Long x 8 29/32" High with Shear Groove

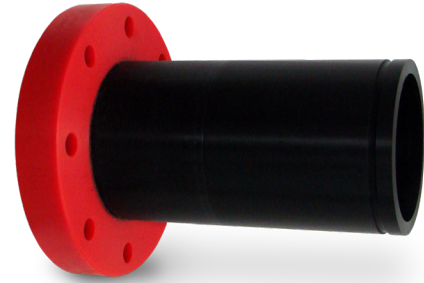
Pipe Elbows

All flanges have 150 lb bolt pattern. Other bolt are available upon request.

| Size | A | TA | B | TB | ID |
|------|-------|-------|--------|-------|-------|
| 2" | 5.88" | 1.50" | 5.93" | 1.50" | 1.75" |
| 3" | 6.00" | 1.50" | 7.00" | 1.25" | 2.50" |
| 4" | 7.00" | 2.00" | 7.00" | 1.50" | 4.00" |
| 6" | 9.00" | 2.00" | 10.00" | 2.00" | 5.50" |

See Page 18 - For Dimensional Reference Diagram





Pipe Stub Part Numbers

Salco PE (UHMWPE)

Flange x Victaulic Groove

3"

(4) 3/4" Bolt Holes on 4 3/4" Bolt Circle

| | |
|----------------------------|----------------------------|
| HS3PST12BK – 12" Long | HS3PST625BK – 62 1/2" Long |
| HS3PST225BK – 22 1/2" Long | HS3PST705BK – 70 1/2" Long |
| HS3PST465BK – 46 1/2" Long | HS3PST84BK – 84" Long |
| HS3PST49BK – 49" Long | HS3PST885BK – 88 1/2" Long |
| HS3PST525BK – 52 1/2" Long | HS3PST108BK – 108" Long |
| HS3PST585BK – 58 1/2" Long | |

4"

(8) 3/4" slotted Bolt Holes on 7 1/2" and 7 3/4" Bolt Circle

| | |
|-------------------------|-------------------------|
| HS4PST4510BK – 10" Long | HS4PST4558BK – 58" Long |
| HS4PST4522BK – 22" Long | HS4PST4570BK – 70" Long |
| HS4PST4534BK – 34" Long | HS4PST4582BK – 82" Long |
| HS4PST4546BK – 46" Long | HS4PST4594BK – 94" Long |
| HS4PST4548BK – 48" Long | |

6"

(8) 7/8" Bolt Holes on 9 1/2" Bolt Circle

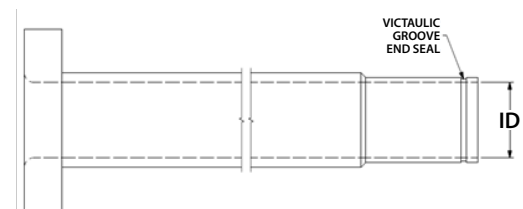
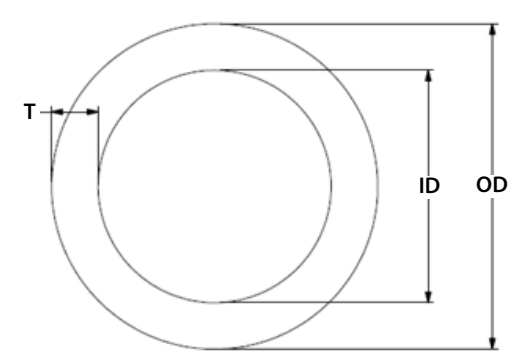
| | |
|-----------------------|----------------------------|
| HS6PST9 – 9" Long | HS6PST70 – 70" Long |
| HS6PST11 – 11" Long | HS6PST92 – 92" Long |
| HS6PST12BK – 12" Long | HS6PST1015 – 101 1/2" Long |
| HS6PST22 – 22" Long | HS6PST1075 – 107 1/2" Long |
| HS6PST39 – 39" Long | HS6PST1250 – 125" Long |
| HS6PST58 – 58" Long | |

Pipe Spools and Stubs

Pipe can be connected using victaulic grooves.

| Size | OD | ID | T |
|--------|-------|-------|-------|
| 1" | 1.50" | 0.90" | 0.30" |
| 1 1/2" | 2.10" | 1.14" | 0.48" |
| 2" | 2.52" | 1.44" | 0.54" |
| 2 1/2" | 3.00" | 1.83" | 0.59" |
| 3" | 3.53" | 2.47" | 0.53" |
| 3" | 4.12" | 2.88" | 0.62" |
| 4" | 5.09" | 3.89" | 0.60" |
| 6" | 7.00" | 5.50" | 0.75" |

See Page 18 - For Dimensional Reference Diagram





Pipe Spool Part Numbers Salco PE (UHMWPE)

Flange x Flange

3" x 2"

(4) 3/4" Bolt Holes on 4 3/4" Bolt Circle

(4) 3/4" Bolt Holes on a 6" Bolt Circle

HSSP3X2PSG – 6" Long

4"

(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle

(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle

HS4PS4543BK – 42 5/8" Long

HS4PS4585BK – 84 5/8" Long

HS4PS45120BK – 120" Long

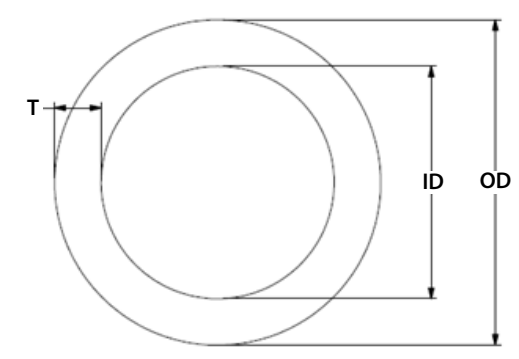
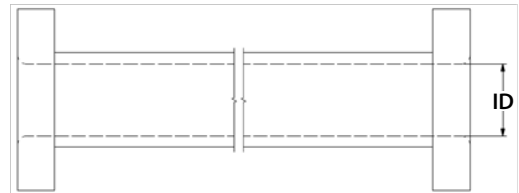
HS4PS45130BK – 129 5/8" Long

Pipe Spools and Stubs

Pipe can be connected using victaullic grooves.

| Size | OD | ID | T |
|--------|-------|-------|-------|
| 1" | 1.50" | 0.90" | 0.30" |
| 1 1/2" | 2.10" | 1.14" | 0.48" |
| 2" | 2.52" | 1.44" | 0.54" |
| 2 1/2" | 3.00" | 1.83" | 0.59" |
| 3" | 3.53" | 2.47" | 0.53" |
| 3" | 4.12" | 2.88" | 0.62" |
| 4" | 5.09" | 3.89" | 0.60" |
| 6" | 7.00" | 5.50" | 0.75" |

See Page 18 - For Dimensional Reference Diagram





Pipe Tees

All flanges have 150 lb bolt pattern. Other bolt are available upon request.

| Size | A | TA | B | TB | C | ID |
|------|-------|-------|--------|-------|-----|-------|
| 3" | 6.00" | 1.50" | 7.00" | 1.25" | 12" | 2.50" |
| 4" | 7.00" | 2.00" | 7.00" | 1.50" | 14" | 4.00" |
| 6" | 9.00" | 2.00" | 10.00" | 2.00" | 18" | 5.50" |

* Custom sizes also available

See Page 18 - For Dimensional Reference Diagram

Pipe Tee Part Numbers Salco PE (UHMWPE)

2"

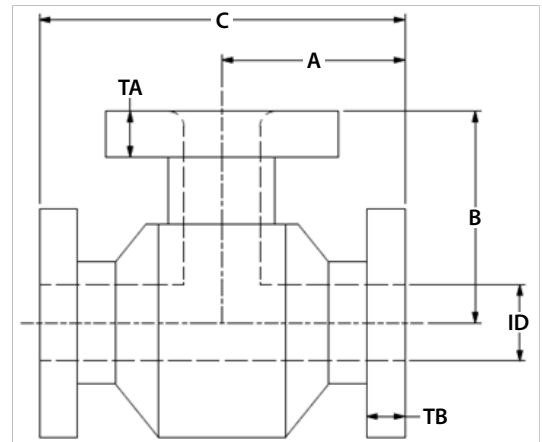
(4) 3/4" Bolt Holes on 4 3/4" Bolt Circle
Flange Middle Connection x Victaulic Groove End Connections

HS2PT1 – 12" Wide x 6" Deep

2" x 4"

(4) 3/4" Bolt Holes on 4 3/4" Bolt Circle – End Flanges
(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle – Middle Flange

HS2X4PT1 – 14" Wide x 7 13/64" Deep with Shear Groove



3"

(4) 3/4" Bolt Holes on 6" Bolt Circle – All Flanges

- HS3PT1 – 12" Wide x 12" Deep
- HS3PT2 – 16 25/32" Wide x 6 1/8" Deep with Shear Groove
- HS3PT3 – 16 5/64" Wide x 12" Deep
- HS3PT4 – 12" Wide x 16 15/16" Deep
- HS3PT5 – 12" Wide x 7 3/4" Deep

Pipe Tee

Part Numbers Continued

4"

**(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle – End Connections
Victaulic Groove Middle Connection**

HS4PT12 – 14" Wide x 7" Deep

**(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle – Middle/End Flange
Connection Victaulic Groove End Connection**

HS4PT8 – 32" Wide x 8" Deep



(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle – All Flanges

HS4PT1 – 12" Wide x 7" Deep with Shear Groove

HS4PT2 – 46" Wide x 7" Deep

HS4PT3 – 14" Wide x 7" Deep

HS4PT5 – 34 3/8" Wide x 7" Deep with Shear Groove

HS4PT6 – 24" Wide x 7" Deep with Shear Groove

4" x 3"

(4) 3/4" Bolt Holes on 6" Bolt Circle – Middle Flange

(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle – End Flanges

HS4X3PT1 – 14" Wide x 7" Deep

6"

(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle – All Flanges

HS6PT1 – 17 25/32" Wide x 9 3/4" Deep with Shear Groove

HS6PT2 – 25" Wide x 9 3/4" Deep with Shear Groove

HS6PT4 – 17 25/32" x 10" Deep with Shear Groove

6" x 4"

(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle – End Connection

(8) 7/8" Bolt Holes on 9 1/2" Bolt Circle – Middle/End Connection

HS6X4PT1 – 25 3/4" Wide x 9 3/4" Deep with Shear Groove

HS6X4PT2 – 18 1/4" Wide x 9 3/4" Deep with Shear Groove



Bottom Unloading Elbows (Tank Truck Unloading)

| Size | A | TA | IDA | B | TB | IDB |
|---------|--------|-------|-------|-------|-------|-------|
| 4" x 2" | 22.44" | 2.00" | 1.44" | 5.56" | 1.50" | 1.44" |
| 4" x 2" | 22.50" | 2.00" | 2.47" | 5.38" | 1.50" | 1.83" |
| 4" x 3" | 26.00" | 1.50" | 4.00" | 4.94" | 1.50" | 2.47" |
| 4" x 4" | 25.50" | 1.25" | 4.00" | 5.19" | 2.00" | 3.89" |

All flanges have 150 lb bolt pattern. Other bolt patterns are available upon request.

Chamfered edge allows clearance for 4" butterfly valve.

***Designed**

See Page 18 - For Dimensional Reference Diagram

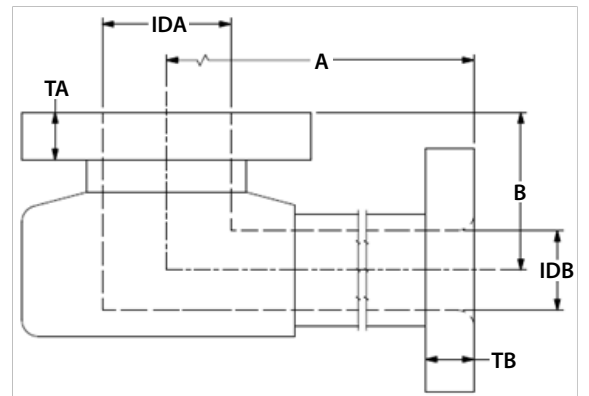
Tank Truck Bottom Unloading Elbows

4" x 2"

(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle

(4) 3/4" Bolt Holes on 4 3/4" Bolt Circle

- HS4X2X90PE1 – 22 7/16" Long x 6 9/16" Deep with shear groove
- HS4X2X90PE2 – 22 1/2" Long x 5 3/8" Deep with shear groove
- HS4X2X90PE3 – 20" Long x 5 3/8" Deep with shear groove
- HS4X2X90PE4SG – 10" Long x 4 13/32" Deep with Shear Groove

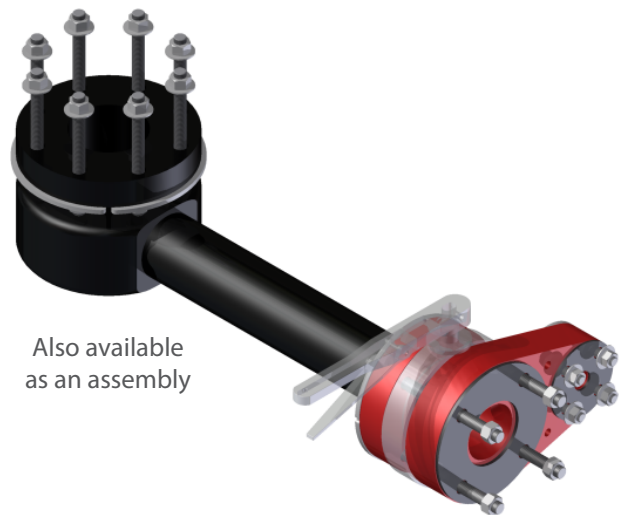


4" x 3"

(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle

(4) 3/4" Bolt Holes on 6" Bolt Circle

- HS4X3X90PE2 – 26" Long x 5" Deep with shear groove
- HS4X3X90PE3 – 20" Long x 5" Deep with shear groove
- HS4X3X90PE4SG – 22 1/2" Long x 4 15/16" Deep with Shear Groove



Also available as an assembly

4" x 4"

(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle

(8) 3/4" Bolt Holes on 7 1/2" Bolt Circle

- HS4X90PE10 – 25 1/2" Long x 5 3/4" Deep with shear groove

Parallel Instrument Tees

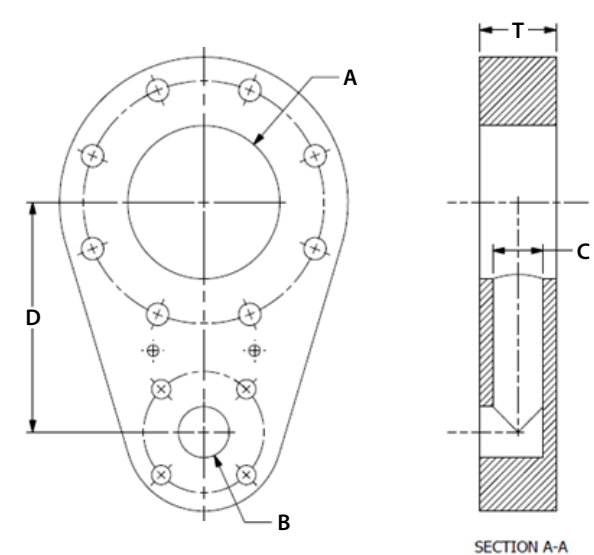
Salco PE (UHMWPE)

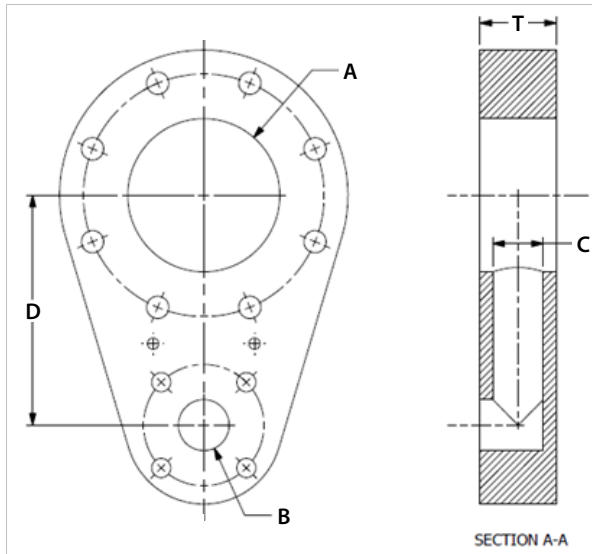
Salco's parallel instrument tees can be used in place of a standard tee, and reduce overall height to allow for sample ports and pressure gauges to be applied.

- When used in place of standard tees, PITS reduce the overall height of the fittings plate.
- Use in protective housing between product valve and hose flange.
- Compact and low maintenance.
- Enables hoses to be stored empty, by blowing them clean after use.
- Replaces the need for rubber-lined fittings.
- Single or bi-directional ports. Can be produced with smaller diameter flange as a through hole as well as standard single direction.
- Provides connection for Vapor Recovery System.
- Performs excellent in sub-zero temperatures.
- Available in a variety of sizes and configurations.



UHMWPE Polyethylene Parallel Instrument Tee





Parallel Instrument Tees

| Size | A | B | C | D | T |
|------------------------|--------|-------|-------|--------|-------|
| 1" x 1" | 1.00" | 1.00" | 1.00" | 5.38" | 2.00" |
| 1 1/2" x 1" | 1.50" | 1.00" | 1.00" | 5.38" | 2.00" |
| 1 1/2" x 1 1/2" | 1.50" | 1.50" | 1.00" | 6.00" | 2.00" |
| 2" x 1" | 2.00" | 1.00" | 1.00" | 5.63" | 2.00" |
| 2 1/2" x 1" | 2.50" | 1.00" | 1.00" | 6.13" | 2.00" |
| 2 1/2" x 1 1/2" | 2.50" | 1.50" | 1.00" | 7.50" | 2.00" |
| 3" x 1" | 3.00" | 1.00" | 1.00" | 6.19" | 2.00" |
| 3" x 1 1/2" | 2.50" | 1.50" | 1.00" | 7.50" | 2.00" |
| 3" x 1 1/2" | 3.00" | 1.50" | 1.00" | 7.50" | 2.00" |
| 3" x 2" | 2.50" | 2.00" | 2.00" | 7.50" | 3.00" |
| 3" x 2" | 3.00" | 2.00" | 1.00" | 7.13" | 2.00" |
| 3" x 2" | 3.00" | 2.00" | 2.00" | 7.13" | 3.00" |
| 4" x 1" | 4.00" | 1.00" | 1.00" | 7.06" | 2.00" |
| 6" x 1" | 6.00" | 1.00" | 1.00" | 8.00" | 2.00" |
| 6" x 2" | 6.00" | 2.00" | 2.00" | 9.00" | 3.00" |
| 10" x 1" | 10.00" | 1.00" | 1.00" | 10.75" | 2.00" |

Available in 4-bolt 150 lb and 3-bolt safety vent bolt patterns.

See Page 18 - For Dimensional Reference Diagram

Parallel Instrument Tee Salco PE (UHMWPE) Part Numbers

2" x 1"

(4) 3/4" Bolt Holes on 4 3/4" Bolt Circle

(4) 5/8" Bolt Holes on 3 1/8" Bolt Circle

HSPIT2X1 – Single Direction, 1" Thru Port

2 1/2" x 1 1/2"

(3) 3/4" Bolt Holes on 5 1/2" Bolt Circle

(4) 5/8" Bolt Holes on 3 7/8" Bolt Circle

HSPIT212QX15 – Single Direction, 1" Thru Port

3" x 1"

(4) 3/4" Bolt Holes on 6" Bolt Circle

(4) 5/8" Bolt Holes on 3 1/8" Bolt Circle

HSPIT3X1 – Single Direction, 1" Thru Port

3" x 2"

(4) 3/4" Bolt Holes on 6" Bolt Circle

(4) 3/4" Bolt Holes on 4 3/4" Bolt Circle

HSPIT3X2 – Single Direction, 2" Thru Port

Parallel Instrument Tee Salco PE (UHMWPE)

Part Numbers Continued

3" x 3"

- (4) 3/4" Bolt Holes on 6 1/4" Bolt Circle
- (4) 5/8" Bolt Holes on 3 7/8" Bolt Circle

HSPIT3X3 – Single Direction, 2" Thru Port



3" x 1" x 1"

- (4) 3/4" Bolt Holes on 6" Bolt Circle - Ends
- (4) 5/8" Bolt Holes on 3 1/8" Bolt Circle - Middle

HSPIT3X1X1 – Single Direction, 2" Thru Port

3" x 1" x 2"

- (4) 3/4" Bolt Holes on 4 3/4" Bolt Circle – End
- (4) 3/4" Bolt Holes on 6" Bolt Circle – End
- (4) 5/8" Bolt Holes on 3 1/8" Bolt Circle - Middle

HSPIT3X1X2 – Single Direction, 2" Thru Port

4" x 1"

- (8) 3/4" Bolt Holes on 8 1/2" Bolt Circle
- (4) 5/8" Bolt Holes on 3 1/8" Bolt Circle

HSPIT4X1 – Single Direction, 1" Thru Port

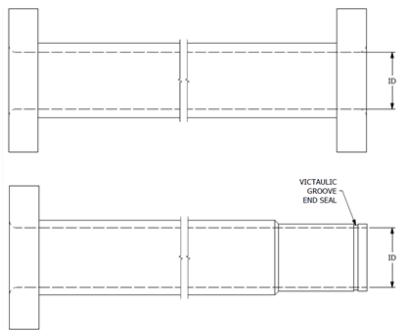
6" x 1"

- (8) 7/8" Bolt Holes on 9 1/2" Bolt Circle
- (4) 5/8" Bolt Holes on 3 1/8" Bolt Circle

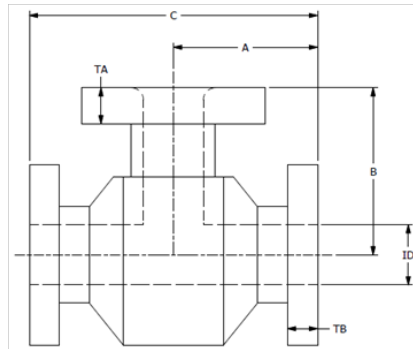
HSPIT6X1 – Single Direction, 1" Thru Port

Pipe and Fitting Dimensional Reference Diagram

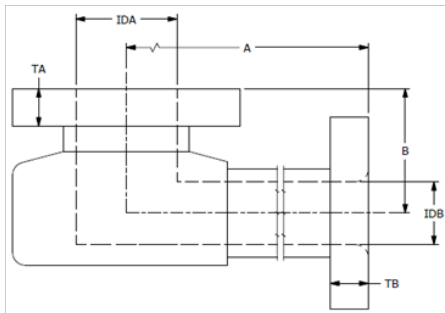
Pipe Spools And Stubs



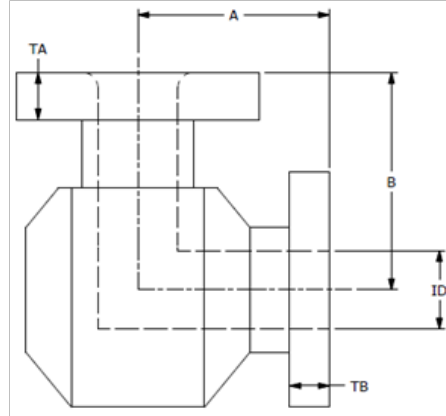
Pipe Tees



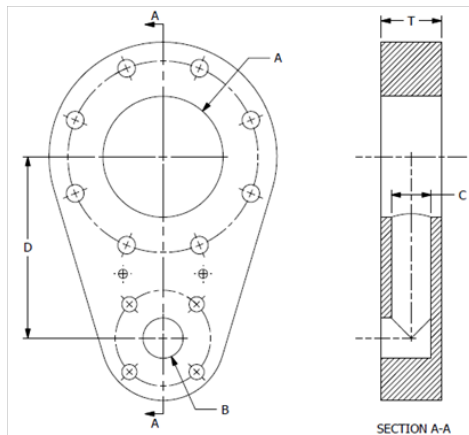
Bottom Unloading Elbows



Pipe Elbows



Parallel Instrument Tees



Corrosion Resistant Fittings For Loading/Unloading Hose

An array of hose fittings to fit each application



Blind Flange



Steel Reinforced
UHMWPE Blind Flange



F Adapter



Reinforced
F Adapter



Reinforced
Barb x Male Adapter



KC Series
Barb x Male NPT



KCSKT Series
Barb x Socket



KEP Series
Barb x Male Adapter



2pc. BPY Series
Barb x UHMWPE 150# Flange



2pc. BSS Series
Barb x 304SS 150# Flange



2pc. Reducing
Barb x 304SS 150# Flange



2pc. KPY Series
Male Adapter Flange



2pc. KPY 304SS Reinforced
Male Adapter Flange



2pc. KPY UHMWPE Reinforced
Male Adapter Flange



Sight Glass Flange

We can manufacture any of the listed products in most materials requested, including:

- UHMWPE
- Polypropylene
- PVDF (Kynar)
- Carbon Steel
- Stainless Steel
- PVC and CPVC



Barb x UHMWPE
Female Coupler



UHMWPE Cap

Blind Flange

Part Numbers



Salco PE (UHMWPE)

| | | |
|-------------------|----------------------------|---|
| HS1150BFP | Blind Flange 1" 150 lb | UHMWPE, (4) 5/8" Bolt Holes on 3 1/8" Bolt Circle |
| HS15150BFP | Blind Flange 1 1/2" 150 lb | UHMWPE, (4) 5/8" Bolt Holes on 3 7/8" Bolt Circle |
| HS2150BFP | Blind Flange 2" 150 lb | UHMWPE, (4) 3/4" Bolt Holes on 4 3/4" Bolt Circle |
| HS25150BFP | Blind Flange 2 1/2" 150 lb | UHMWPE, (4) 3/4" Bolt Holes on 5 1/2" Bolt Circle |
| HS3150BFP | Blind Flange 3" 150 lb | UHMWPE, (4) 3/4" Bolt Holes on 6" Bolt Circle |
| HS41506BFP | Blind Flange 4" 150 lb | UHMWPE, (6) 3/4" Bolt Holes on 7 1/2" Bolt Circle |
| HS4150BFP | Blind Flange 4" 150 lb | UHMWPE, (8) 3/4" Bolt Holes on 7 1/2" Bolt Circle |
| HS6150BFP | Blind Flange 6" 150 lb | UHMWPE, (8) 3/4" Bolt Holes on 9 1/2" Bolt Circle |

Rubber Lined CS

| | | |
|------------------|---------------------|--|
| BF475RLB | Blind Flange 2" | Rubber Lined CS, (4) 11/16" Bolt Holes on 4 3/4" Bolt Circle |
| BF4754RLB | Blind Flange 3 3/4" | Rubber Lined CS, (4) 7/8" Bolt Holes on a 3 3/4" Bolt Circle |
| BF4752RLB | Blind Flange 4 3/4" | Rubber Lined CS, (4) 7/8" Bolt Holes on 4 3/4" Bolt Circle |
| BF4753RLB | Blind Flange 5 1/2" | Rubber Lined CS, (3) 7/8" Bolt Holes on 5 1/2" Bolt Circle |
| BF550RLB | Blind Flange 5 1/2" | Rubber Lined CS, (4) 3/4" Bolt Holes on 5 1/2" Bolt Circle |
| BF61RLB | Blind Flange 6" | Rubber Lined CS, (4) 7/8" Bolt Holes on 6" Bolt Circle |

PVC and CPVC

| | | |
|-------------------|------------------------|--|
| HS3150BFCP | Blind Flange 3" 150 lb | CPVC, Sch. 80, (4) 3/4" Bolt Holes on 6" Bolt Circle |
| HS3150BFPV | Blind Flange 3" 150 lb | PVC, (4) 3/4" Bolt Holes on 6" Bolt Circle |

Flanged Hose Barb Assembly

Part Numbers

| | | |
|-------------------|---------------------------------|---|
| HS1FTBSS | Flanged Hose Barb 1" 150 lb | 304 SS, Salco PE Insert, (4) 5/8" Bolt Holes on 3 1/8" Bolt Circle |
| HS2FTBSS | Flanged Hose Barb 2" 150 lb | 304 SS Flange, Salco PE Insert, (4) 3/4" Bolt Holes on 4 3/4" Bolt Circle |
| HS25FTBSS | Flanged Hose Barb 2 1/2" 150 lb | 304 SS Flange, Salco PE Insert, (4) 3/4" Bolt Holes on 6" Bolt Circle |
| HS3FTBSS | Flanged Hose Barb 3" 150 lb | 304 SS Flange, Salco PE Insert, (4) 3/4" Bolt Holes on 6" Bolt Circle |
| HS4FTBSS | Flanged Hose Barb 4" 150 lb | 304 SS Flange, Salco PE Insert, (8) 3/4" Bolt Holes on 7 1/2" Bolt Circle |
| HS6FTBSS | Flanged Hose Barb 6" 150 lb | 304 SS Flange, Salco PE Insert, (8) 7/8" Bolt Holes on 9 1/2" Bolt Circle |
| HS125FTBPY | Flanged Hose Barb 1 1/4" 150 lb | UHMWPE Flange and Insert, (4) 5/8" Bolt Holes on 3 7/8" Bolt Circle |
| HS15FTBPY | Flanged Hose Barb 1 1/2" 150 lb | UHMWPE Flange and Insert, (4) 5/8" Bolt Holes on 5" Bolt Circle |
| HS1FTBPY | Flanged Hose Barb 1" 150 lb | UHMWPE Flange and Insert, (4) 5/8" Bolt Holes on 3 1/8" Bolt Circle |
| HS2FTBPY | Flanged Hose Barb 2" 150 lb | UHMWPE Flange and Insert, (4) 3/4" Bolt Holes on 4 3/4" Bolt Circle |
| HS3FTBPY | Flanged Hose Barb 3" 150 lb | UHMWPE Flange and Insert, (4) 3/4" Bolt Holes on 6" Bolt Circle |
| HS4FTBPY | Flanged Hose Barb 4" 150 lb | UHMWPE Flange and Insert, (8) 3/4" Bolt Holes on 7 1/2" Bolt Circle |



**2pc. BSS Series
Barb x 304SS
150# Flange**



**2pc. BPY Series
Barb x Salco PE
150# Flange**

Reducing Flanged Hose Barb Assembly Part Numbers:



2pc. Reducing Barb x Salco PE 150# Flange

| | | |
|--------------------|--------------------------------------|---|
| HS3X25FTBSS | Flanged Hose Barb 3"x2 1/2" 150 lb | 304 SS Flange, UHMWPE Insert, (4) 3/4" Bolt Holes on 6" Bolt Circle |
| HS3X2FTBSS | Flanged Hose Barb 3"x2" 150 lb | 304 SS Flange, UHMWPE Insert, (4) 3/4" Bolt Holes on 6" Bolt Circle |
| HS25X2FTBPY | Flanged Hose Barb 2 1/2" X 2" 150 lb | UHMWPE Flange and Insert, (4) 3/4" Bolt Holes on 5 1/2" Bolt Circle |
| HS3X15FTBPY | Flanged Hose Barb 3" X 1 1/2" 150lb | UHMWPE Flange and Insert, (4) 3/4" Bolt Holes on 6" Bolt Circle |
| HS3X2FTBPY | Flanged Hose Barb 3" X 2" 150 lb | UHMWPE Flange and Insert, (4) 3/4" Bolt Holes on 6" Bolt Circle |

Flanged Kam Assembly Part Numbers:



2pc. KPY Series Male Adapter Flange

| | | |
|------------------|-------------------------------|---|
| HS15FTKPY | Flanged Adapter 1 1/2" 150 lb | UHMWPE Flange and Insert, (4) 5/8" Bolt Holes on 3 7/8" Bolt Circle |
| HS23FTKPY | Flange Adapter 2" x 3" 150 lb | UHMWPE Flange and Insert, (4) 3/4" Bolt Holes on 6" Bolt Circle |
| HS2FTKPY | Flanged Adapter 2" 150 lb | UHMWPE Flange and Insert, (4) 3/4" Bolt Holes on 4 3/4" Bolt Circle |
| HS3FTKPY | Flanged Adapter 3" 150 lb | UHMWPE Flange and Insert, (4) 3/4" Bolt Holes on 6" Bolt Circle * |

Flanged Reinforced Kam Assembly Part Numbers:



| | | |
|------------------|-------------------------|--|
| HS2FTKRPY | Quick Connect Flange 2" | UHMWPE, 316SS Reinforced Kam Groove, (4) 3/4" Bolt Holes on 4 3/4" Bolt Circle |
| HS3FTKRPY | Quick Connect Flange 3" | UHMWPE, 316SS Reinforced Kam Groove, (4) 3/4" Bolt Holes on 6" Bolt Circle |
| HS4FTKRPY | Quick Connect Flange 4" | UHMWPE, 316SS Reinforced Kam Groove, (8) 3/4" Bolt Holes on 7 1/2" Bolt Circle |

KC Series

| | | |
|--------------------|---------------------------|---------------------------|
| HS1315PVCKC | Hose Barb 1 1/4" X 1 1/2" | Grey PVC, Barb x Male NPT |
| HS131PVCKC | Hose Barb 1 1/4" X 1" | Grey PVC, Barb x Male NPT |
| HS13PVCKC | Hose Barb 1 1/4" | Grey PVC, Barb x Male NPT |
| HS15PVCKC | Hose Barb 1 1/2" | Grey PVC, Barb x Male NPT |
| HS1PVCKC | Hose Barb 1" | Grey PVC, Barb x Male NPT |
| HS2PVCKC | Hose Barb 2" | Grey PVC, Barb x Male NPT |
| HS3PVCKC | Hose Barb 3" | Grey PVC, Barb x Male NPT |



**KC Series
Barb x Male NPT**

KEP Series

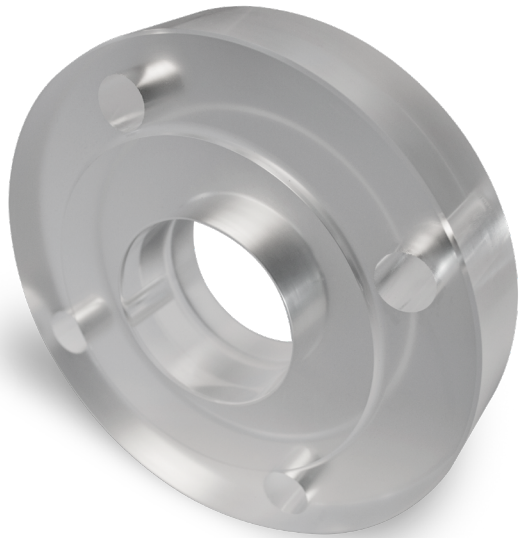
| | | |
|---------------|--------------|-----------------------------|
| HS2KEP | Hose Barb 2" | UHMWPE, Barb x Male Adapter |
|---------------|--------------|-----------------------------|



**KEP Series
Barb x Male Adapter**

Sight Glass Flanges

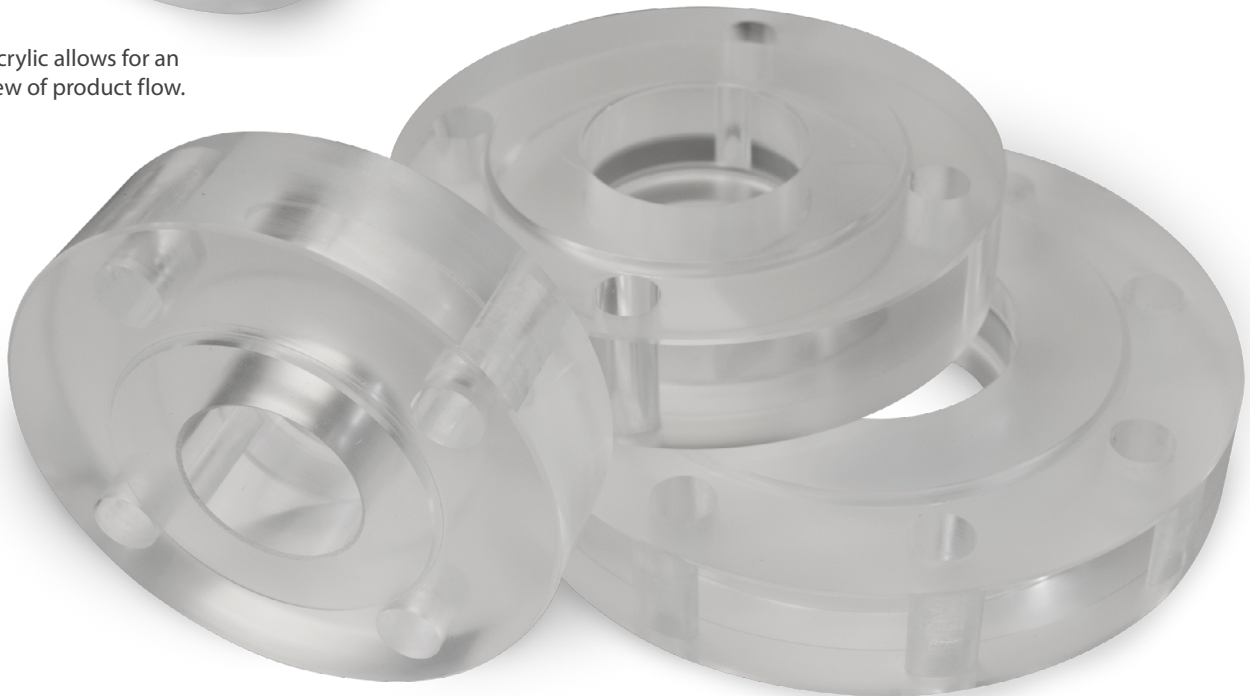
See What's Happening, Visually Observe Product Flow



Clear Acrylic allows for an easy view of product flow.

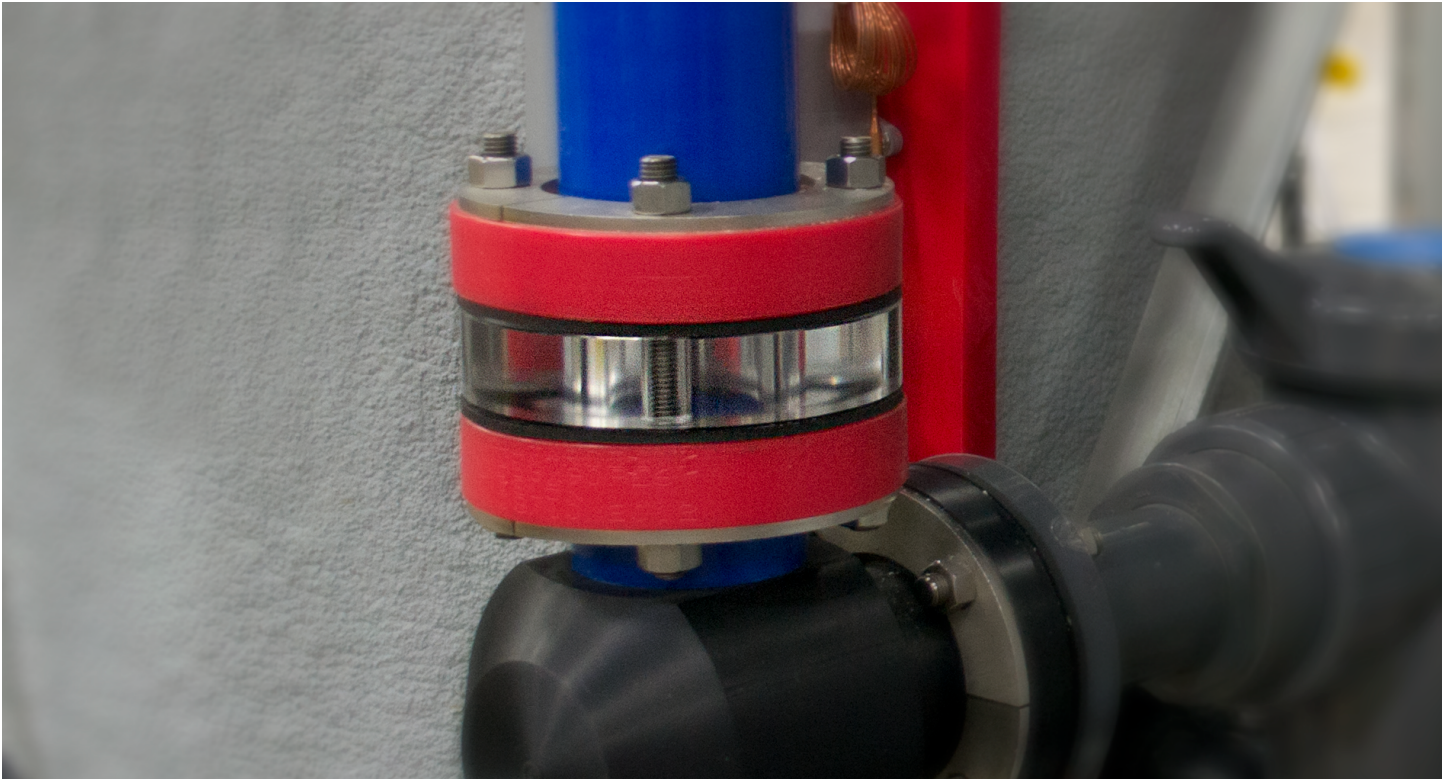
Confirm product flow during transfer applications with reliable, durable Sight Glass Flanges from Hazarsolve.

- Inline view of product transfer.
- Light weight and low maintenance.
- Constructed of polished acrylic.
- Raised face which prevents stress and or premature cracking.
- Available in TTMA and ANSI bolt patterns.
- Available in 2" - 8".



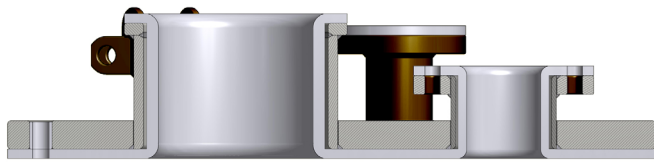
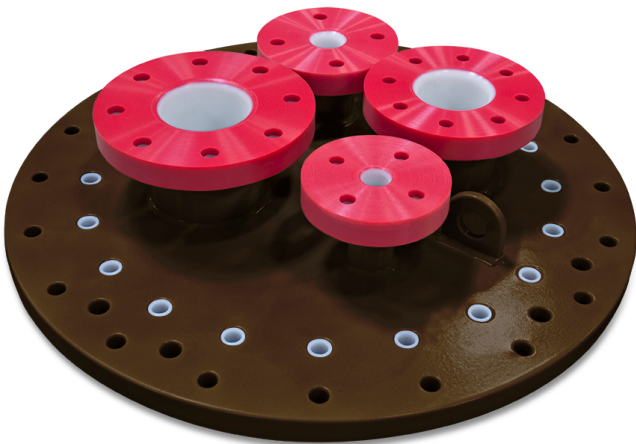
Sight Glass Part Numbers:

| | | |
|-------------------|-----------------------------|--|
| HS2SGFLA | Sight Glass Flange 2" | Clear Acrylic, 1 3/4" Bore, 1 1/2" Thick, (4) 3/4" Bolt Holes on 4 3/4" Bolt Circle |
| HS2SGFLA2 | Sight Glass Flange 2" | Clear Acrylic, 2" Bore, 1 1/2" Thick, (4) 3/4" Bolt Holes on 4 3/4" Bolt Circle |
| HS2SGFLA3 | Sight Glass Flange 2" | Clear Acrylic, 1 3/4" Bore, 3 1/4" Thick, (4) 3/4" Bolt Holes on 4 3/4" Bolt Circle |
| HS25SGFLA2 | Sight Glass Flange 2 1/2" | Clear Acrylic, 2 1/2" Bore, 1 1/2" Thick, (4) 3/4" Bolt Holes on 5 1/2" Bolt Circle |
| HS3SGFLA | Sight Glass Flange 3" | Clear Acrylic, 2 3/4" Bore, 1 1/2" Thick, (4) 3/4" Bolt Holes on 6" Bolt Circle |
| HS4SGFLA | Sight Glass Flange 4" | Clear Acrylic, 3 3/4" Bore, 1 1/2" Thick, (8) 3/4" Bolt Holes on 7 1/2" Bolt Circle |
| HS6SGFLA | Sight Glass Flange 6" | Clear Acrylic, 5 3/4" Bore, 1 1/2" Thick, (8) 7/8" Bolt Holes on 9 1/2" Bolt Circle |
| HS8SGFLA | Sight Glass Flange 8" | Clear Acrylic, 7 3/4" Bore, 1 1/2" Thick, (8) 7/8" Bolt Holes on 11 3/4" Bolt Circle |
| HS6BSGFLA | Blind Flange Sight Glass 6" | Clear Acrylic, No Bore, 1" Thick, (8) 7/8" Bolt Holes on 9 1/2" Bolt Circle |

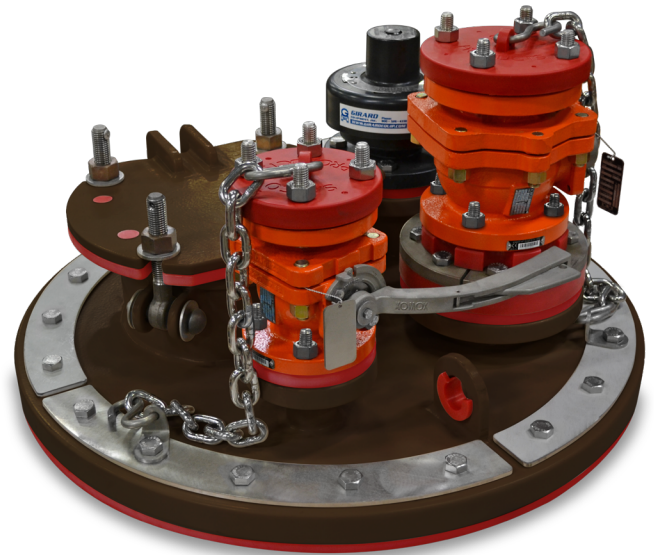
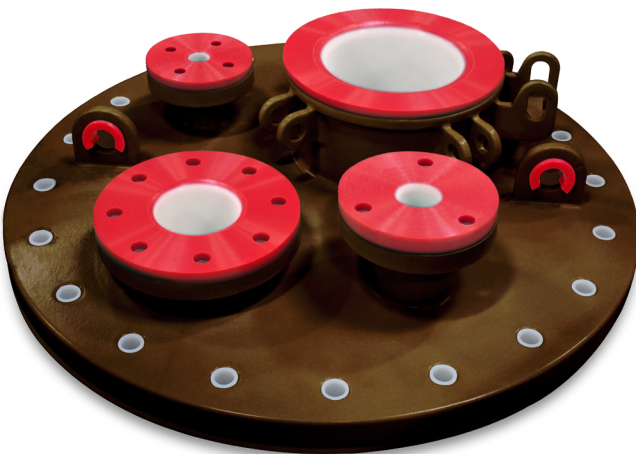


Lined Fittings Plate

Patented



Lined Fittings Plate



Engineered to extend the lining and eliminate premature failure of the manway and fittings for corrosive rail and tank truck manway systems.

- Solid protection for all wetted surfaces.
- Fully welded UHMWPE lining and Kynarfcoated.
- Conforms to Chlorine Institute Standards.
- Can be spark tested up to 2000V (coating), 6,000V (Lining).
- Works with all conductivity meters.
- Serrated sealing surfaces for a leak-free seal.
- U.H.M.W. allows for a higher compression/torque vs. rubber lining.
- Kynarfcoating can be repaired in the field for small areas.

Lined Fittings Plate Closure Options

UHMWPE

150lb Blind Flange

2"

(4) 3/4" Bolt Holes on 4 3/4" Bolt Circle

Part # HS2150BFRPE

3"

(4) 3/4" Bolt Holes on 6" Bolt Circle

Part # HS3150BFRPE

6"

(8) 7/8" Bolt Holes on 9 1/2" Bolt Circle

Part # HS6150BFRPE



10" Fill Hole Cover

Kynar® Coated CS with UHMWPE Lining

13" Bolt Circle with Eyebolt Safety Catch

Part # E32398



8" Modified Fill Hole Cover

Kynar® Coated CS with UHMWPE Lining

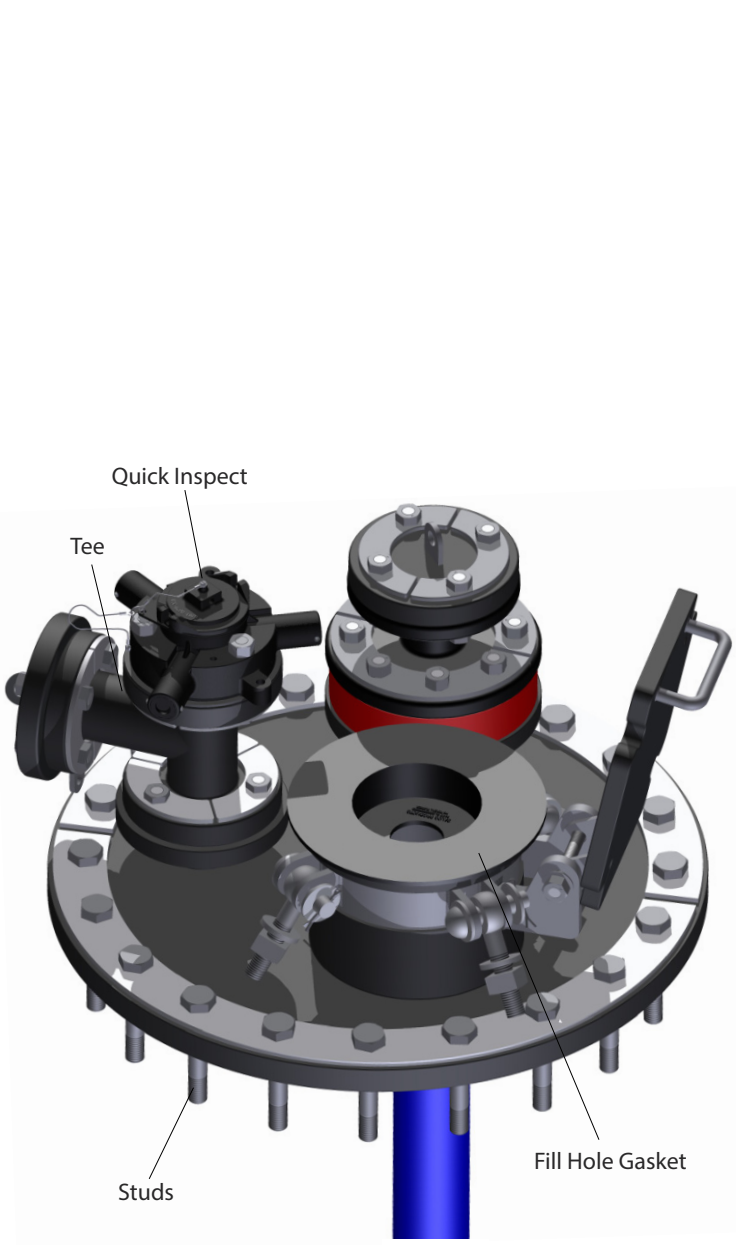
11 5/8" Bolt Circle with Eyebolt Safety Catch

Part # LC820AVPE

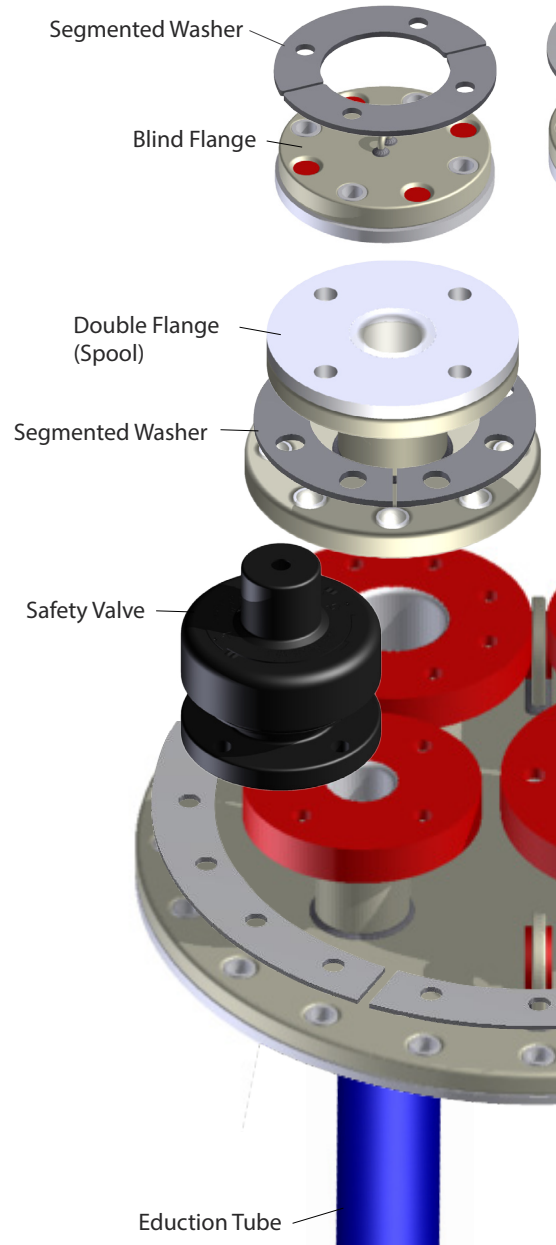
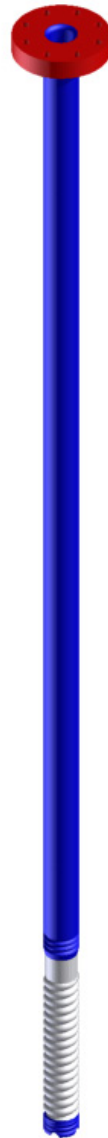
11 5/8" Bolt Circle without Eyebolt Safety Catch

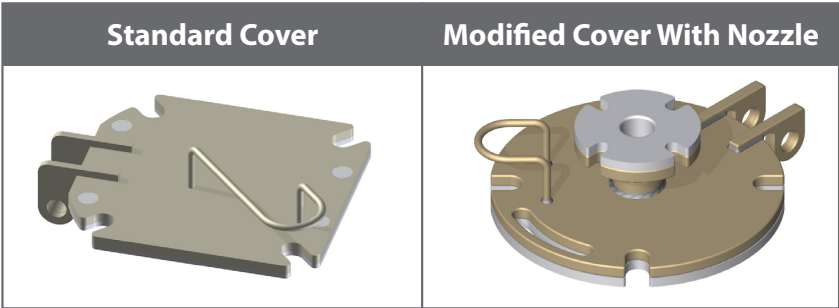
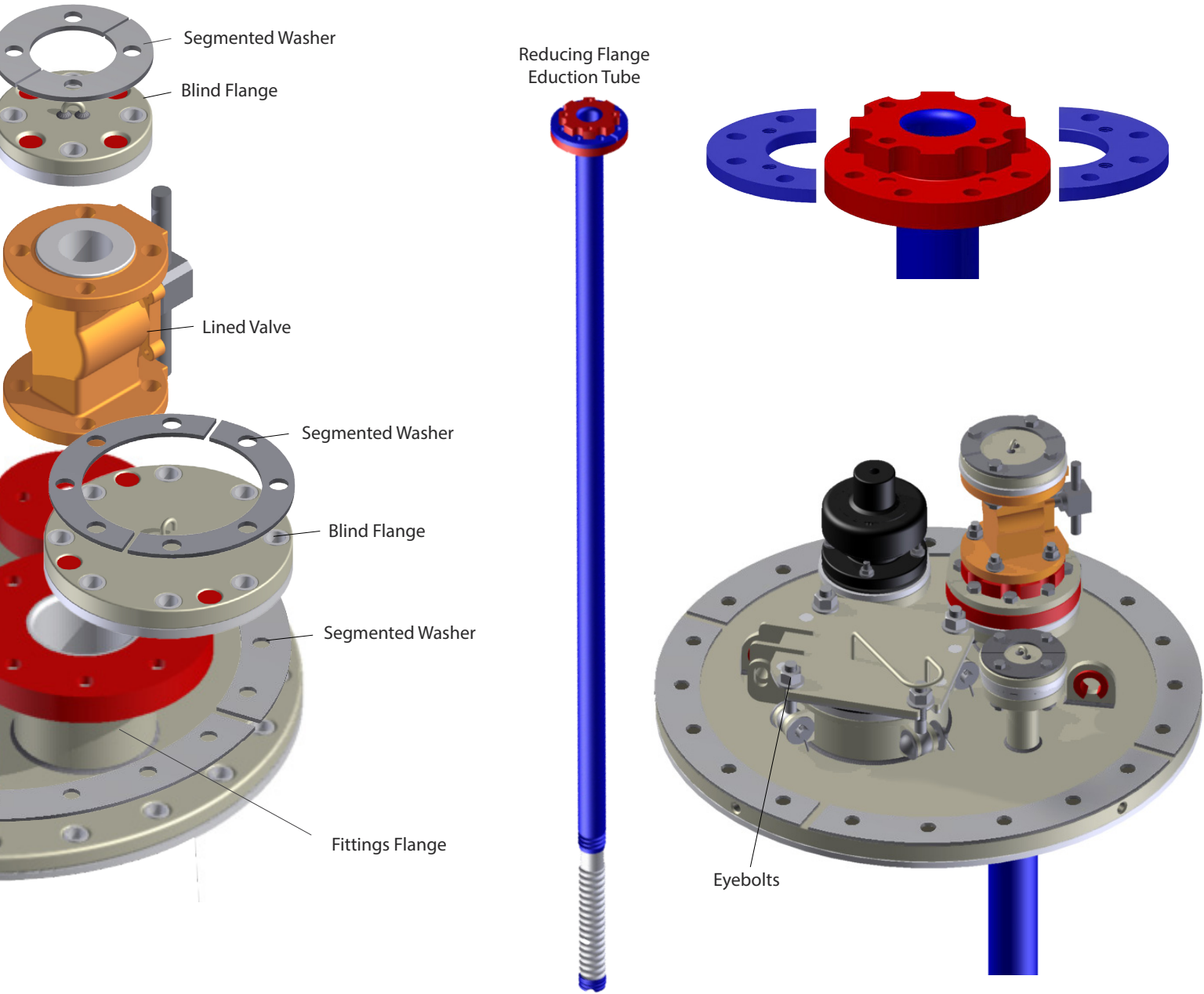
Part # LC820AVPE01





Education Tube





Salco's Quick-Inspect Safety Vent



Salco's Quick-Inspect Safety Vent
With Salco PE Surge Protector

Chemical and weather resistant, the Quick-Inspect Safety Vent's design provides a number of improvements over conventional models and allows easy inspection and cleaning of both sides of the rupture disk.

- Accommodates most major rupture disks and styles.
- Center plug assembly is easily removed; no unbolting is required.
- Optional surge protector (a surge protector is recommended).
- AAR approved; complies with DOT requirements.

Flow Ratings:

If needed for your application, Salco can provide adapter flanges that allow the Quick-Inspect to be mounted to your car in the field.

- Quick-Inspect without surge protector **5506 SFCM**
- Quick-Inspect without surge protector installed (inside) **4245 SFCM**
- Quick-Inspect without surge protector installed (outside) **2834 SFCM**

NOTE: Salco has flanges to replace recessed or raised flanges. Call SALCO to discuss the vent application for the commodity you ship.



Salco's Quick-Inspect Safety Vent
Brown Ryton Surge Protector



Salco Surge Protectors, are available in additional styles and materials to fit your commodity/application.

Quick-Inspect Safety Vent With Hazarsolve Surge Protector AAR Approval# SRD-06300

Rupture Disk Sold Separately, see page 38

****Machined surge protector for pipe
openings no larger than 1⁵/₁₆"**

QI261HSP03A – Black EPDM gaskets
 QI261HSP04A – Black Neoprene gaskets
 QI261HSP06A – Black Viton® A gaskets
 QI261HSP07A – Black Viton® B gaskets
 QI261HSP09A – White FDA Teflon® gaskets
 QI261HSP12A – Black Viton® GF gaskets
 QI261HSP19A – Black Natural Rubber gaskets

QI261HSPM01A – Black Nitrile gaskets**
 QI261HSPM02A – White FDA Buna gaskets**
 QI261HSPM03A – Black EPDM gaskets**
 QI261HSPM06A – Black Viton® A gaskets**



Quick-Inspect Safety Vent With No Surge Protector AAR Approval# SRD-06300

Rupture Disk Sold Separately, see page 38

****For use with a Zook Rupture Disk**

QI261DGA – White FDA Buna gaskets
 QI261DG3A – Black EPDM gaskets
 QI261DG6A – Black Viton® A gaskets
 QI261DG7A – Black Viton® B gaskets
 QI261DG9A – White FDA Teflon® gaskets

QI261NSPR1A – Black Nitrile gaskets**
 QI261NSPR2A – White FDA Buna gaskets**
 QI261NSPR12A – Black Viton® GF gaskets**
 QI261NSPR19A – Black Natural Rubber gaskets**



Surge Protection

Surge Protectors / Splash Baffles Arrestors



Corrosion-resistant, full-face flanged surge protector

Corrosion-resistant, full-face flanged surge protectors tighten down evenly and help keep fluids from direct contact onto relief valves and rupture disks.

- Fully welded construction and lightweight.
- Economical and low maintenance.
- Concentric serrated gasket surfaces.
- Available in a round flange or in a square flange. Alternate configurations available.
- AAR approved.



Additional styles and materials are available to fit your commodity / application.

Surge Protector

Part Numbers:

For Railcar Application

****Has machined surge protector for pipe openings no larger than 1 5/16"**

HSSPRD33 – 3.30" Round Flange, Salco PE (UHMWPE) (For use in Salco Quick Inspect Assembly)

HSSPRD7 – 7" Round Flange, Salco PE (UHMWPE), (6) 3/4" Bolt Holes on 5 1/2" Bolt Circle, accommodates 3 bolt or 4 bolt applications.

HSSPRDSQ – 6 1/2" Square Flange, Salco PE (UHMWPE), (4) 7/8" Bolt Holes on 6 1/4" Bolt Circle

HSSPRD33MT – 3.30" Round Flange, Salco PE (UHMWPE) (For use in Salco Quick Inspect Assembly)**

HSSPRD7MT – 7" Round Flange, Salco PE (UHMWPE), (6) 3/4" Bolt Holes on 5 1/2" Bolt Circle, accommodates 3 bolt or 4 bolt applications**

For Tank Truck Application

****Has machined surge protector for pipe openings no larger than 1 5/16"**

HS2SPRD - 6 1/8" Round Flange, Salco PE (UHMWPE), (4) 3/4" Bolt Holes on 4 3/4" Bolt Circle

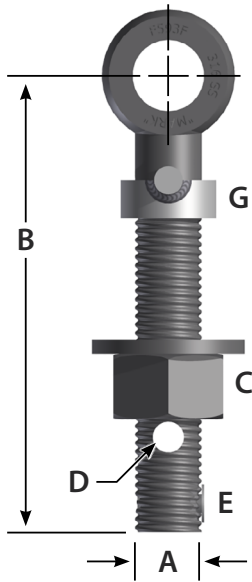
HS3SPRD - 7 5/8" Round Flange, Salco PE (UHMWPE), (4) 3/4" Bolt Holes on 6" Bolt Circle

HS2SPRDMT - 6 1/8" Round Flange, Salco PE (UHMWPE), (4) 3/4" Bolt Holes on 4 3/4" Bolt Circle**

AAR Approval Number: **E-019008**

Salco Eyebolts

Standard eyebolts can be customized to your specifications*



Salco Part # EB786XHFTAS6TCP

EB786X2HFTAS6TCP
UTC Safety Bolt

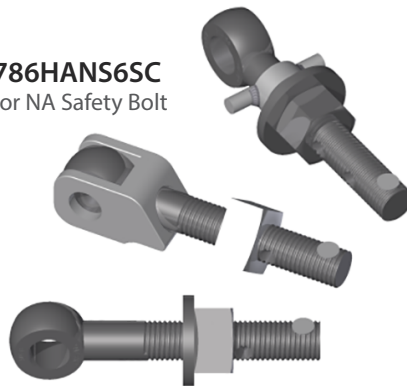
EB785X2THAS6C
ACF Safety Bolt

EB786XAS6
Trinity Standard Bolt

EB786HANS6SC
ACF or NA Safety Bolt

EB15XA
UTC Standard Bolt

Basic Standards For Eyebolts



EB786HA
GATX Standard Bolt

EB786HFTATC3
GATX or Trinity Safety Bolt

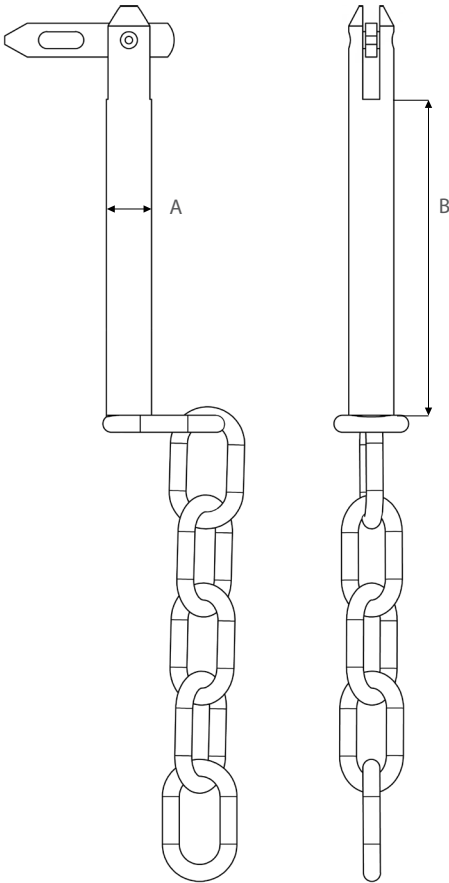
Breakdown of Salco's Part Numbering System.

Example: **EB786XHFTAS6TCP**

■ Contact your Salco representative for information on all types of eyebolts.

| EB | 78 | 6 | X | H | FT | A | S6 | TCP |
|----------------------|--------------------|---------------|---------------------------|----------------------------------|-----------------------------|---|--|--|
| ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| Eyebolt | Diameter | Length | Nut | Seal Hole | Fully Threaded | Assembly | Material | Safety Features |
| | 3/4" 7/8" 1" | 4" to 7" | X = Hex Blank = Square | H = Seal Hole Blank = No Hole | (For Threaded Collars Only) | Rivet Stop Weld Stop Ferrule Stop | S6 = 316SS Blank = CS G5 = Grades CS | TCP = Threaded Collar with Pin TC3 = Threaded Collar SC = Safety Catch (AFC) P = Pin C = Slip Collar |
| Reference Key | A | B | C | D | | E | | G |

* Minimum quantity may apply to non-standard eyebolts



Seal Pins

Standard Seal Pins can be customized to your specifications.

- Additional sizes in stock and available for immediate shipment.
- Contact your Salco representative, or our customer service department for more information.



SP116CS
1" x 16" Carbon Steel 1/4 Chain



SP503CS
1/2" x 3" Carbon Steel 3/16 Chain



SP37525SS
3/8" x 2 1/2" Stainless Steel 3/16 Chain



SP62545CS
5/8" x 4 1/2" Carbon Steel 3/16 Chain

Breakdown of Salco’s Part Numbering System.

Example: SP3752CS

| SP Sealpin | .375 Diameter | 2 Length | CS Material |
|---------------|---|-------------|---------------------------------------|
| | 5/16" (.3125) 1/2" (.50) 5/8" (.625) 3/8" (.375) | 2"-16" | CS=Carbon Steel SS=Stainless Steel |
| Reference Key | A | B | |

Buttonhead Rivets



Available in Carbon and Stainless Steel

- Eliminates the need for a hammer and chisel, cutting torch, and hot-work permit.
- Cotter pins allow for simple maintenance.
- Assemblies include cotter pin and washers.
- Significantly reduces time and labor.



Buttonhead rivets are used to secure domelid eyebolts to the manway nozzle and are available in a variety of sizes.

Button Head Rivet Assembly

Part Numbers:



3/4" Carbon Steel

BHR3425HC1A – 2 1/2" Long

BHR343HC1A – 3" Long

BHR3435HC1A – 3 1/2" Long

BHR344HC1A – 4" Long

BHR3445HC1A – 4 1/2" Long

3/4" Stainless Steel

BHR3425HS4A – 2 1/2" Long

BHR343HS6A – 3" Long

BHR3435HS4A – 3 1/2" Long

BHR344HC1A – 4" Long

7/8" Carbon Steel

BHR7825HC1A – 2 1/2" Long

BHR783HC1A – 3" Long

BHR78325HC1A – 3 1/4" Long

BHR7835HC1A – 3 1/2" Long

BHR784HC1A – 4" Long

BHR7865HC1A – 4 1/2" Long

7/8" Stainless Steel

BHR783HS6A – 3" Long

BHR7835HS6A – 3 1/2" Long

BHR786HS6A – 6" Long

Rupture Disks

Overpressure protection for tank cars



- Disks meet all AAR requirements.
- Disks provide reliable overpressure protection for tank cars.
- Available in stainless steel and plastic; disks fit most standard threaded and bolted tank-car safety vents.
- Pressure differential car rupture disk also available, part #RD22PDST.



Stainless Steel / Teflon®

| Part Number | Pressure Rating |
|-------------|-----------------|
| RD165ST | 165 PSI |
| RD100ST | 100 PSI |
| RD80ST | 80 PSI |
| RD60ST | 60 PSI |
| RD30ST | 30 PSI |



Ryton / Teflon®

| Part Number | Pressure Rating |
|-------------|-----------------|
| RD165PL2 | 165 PSI |
| RD165HCL | 165 PSI |
| RD100P | 100 PSI |

Eyebolt Sockets

1 7/16" Double Square - SKT1716



1 5/8" Hex - SKT158X

1 7/16" Hex - SKT1716X

1 5/8" socket fits 1" nuts; 1 7/16" socket fits 7/8" nuts.

Salco's tank car eyebolt sockets are a practical, time and labor saving tool. Ideal for use by repair shops, loaders, unloaders, mini-shops and anyone who has access to the tank car.

- Can be used with all manufacturers' eyebolts.
- Deep-well design allows socket to easily fit over 4" long bolt stem (from the nut).
- Available in 1 5/8" or 1 7/16".
- Made of durable 4140 tool steel.
- Black oxide finish helps prevent rust.
- Drive size is 3/4"; sockets can be used manually or with and impact wrench.
- Custom-made for Salco, all sockets are in stock, ensuring quick delivery.

* For additional information on our sparkproof sockets see SP-115 literature piece, which can be found at salcoproducts.com



Drive End

Teflon[®] Coated Bolts / Fasteners

Teflon[®] coated fasteners for maximum chemical and corrosion resistance



- Teflon[®] coated, corrosion resistant fasteners available in a variety of sizes
- Coating allows for maximum chemical and corrosion resistance
- Teflon[®] is a registered trademark of DuPont
- Call for Pricing



Teflon[®] coated bolts applied to chemical hose fitting

Eyebolt Assembly

For Tank Trailers



Press fit washer allows for a centered, flat sealing surface.

Made from superior corrosion resistant materials, our flat thread eyebolts provide higher torque value and easier turning.

- Dual material design prevents galling (316SS eyebolt, Nitronic 60 wing nut).
- Does not require a tool to install or remove.
- Available in 5/8" diameter.
- Fits any style tank truck manway or fill hole cover.



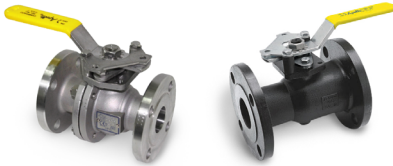

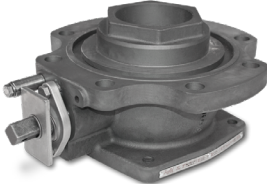


Part Number: HSEB586N6BA

Available with or without Hex bolt & nut.

Drain holes in eyebolt tube provide extra corrosion resistance by keeping excess commodity or rain from accumulating.



| CONFIGURATION/VALVE TYPE | Part Number | AAR # | Size | Body Mat. | |
|---|------------------|---------|------|-----------------|--|
| 2 Piece NPT Ball Valves Full Port  | CA76F-105-24-SP1 | E119025 | 1" | Stainless Steel | |
| | CA76F-108-24-SP1 | E119025 | 2" | Stainless Steel | |
| | CA76F-100-24-SP1 | E119025 | 3" | Stainless Steel | |
| | | | | | |
| 2 Piece Flange x NPT Ball Valves Full Port  | CA87A-385-24-SP1 | E152113 | 1" | Stainless Steel | |
| | CA87A-388-24-SP1 | E152113 | 2" | Stainless Steel | |
| | CA87A-380-24-SP1 | E152113 | 3" | Stainless Steel | |
| | CA88A-385-24-SP1 | E152113 | 1" | Carbon Steel | |
| | CA88A-388-24-SP1 | E152113 | 2" | Carbon Steel | |
| | CA88A-380-24-SP1 | E152113 | 3" | Carbon Steel | |
| 2 Piece Flange x Flange Ball Valves Full Port  | CA87A-205-24-SP1 | E152112 | 1" | Stainless Steel | |
| | CA87A-208-24-SP1 | E152112 | 2" | Stainless Steel | |
| | CA87A-200-24-SP1 | E152112 | 3" | Stainless Steel | |
| | CA87A-20A-24-SP1 | E152112 | 4" | Stainless Steel | |
| | CA88A-245-24-SP1 | E152112 | 1" | Carbon Steel | |
| | CA88A-248-24-SP1 | E152112 | 2" | Carbon Steel | |
| | CA88A-240-24-SP1 | E152112 | 3" | Carbon Steel | |
| | CA88A-24A-24-SP1 | E152112 | 4" | Carbon Steel | |
| | | | | | |
| | | | | | |
| 2 Piece Flange x Cam & Groove Full Port  | CA87A-378-24-SP1 | E152113 | 2" | Stainless Steel | |
| | CA87A-370-24-SP1 | E152113 | 3" | Stainless Steel | |
| | CA88A-378-24-SP1 | E152113 | 2" | Carbon Steel | |
| | CA88A-370-24-SP1 | E152113 | 3" | Carbon Steel | |
| Bottom Outlet Valve Full Port  | CA87A-TPA-35SP1 | E139507 | 4" | Stainless Steel | |
| | CA87A-TPA-80SP1 | E139507 | 4" | Stainless Steel | |
| | CA88A-TPA-35SP1 | E139507 | 4" | Carbon Steel | |
| | CA88A-TPA-80SP1 | E139507 | 4" | Carbon Steel | |

*NOTE: See Numbering System Page for Additional Handle, Ball, Stem, Seat, etc. Options

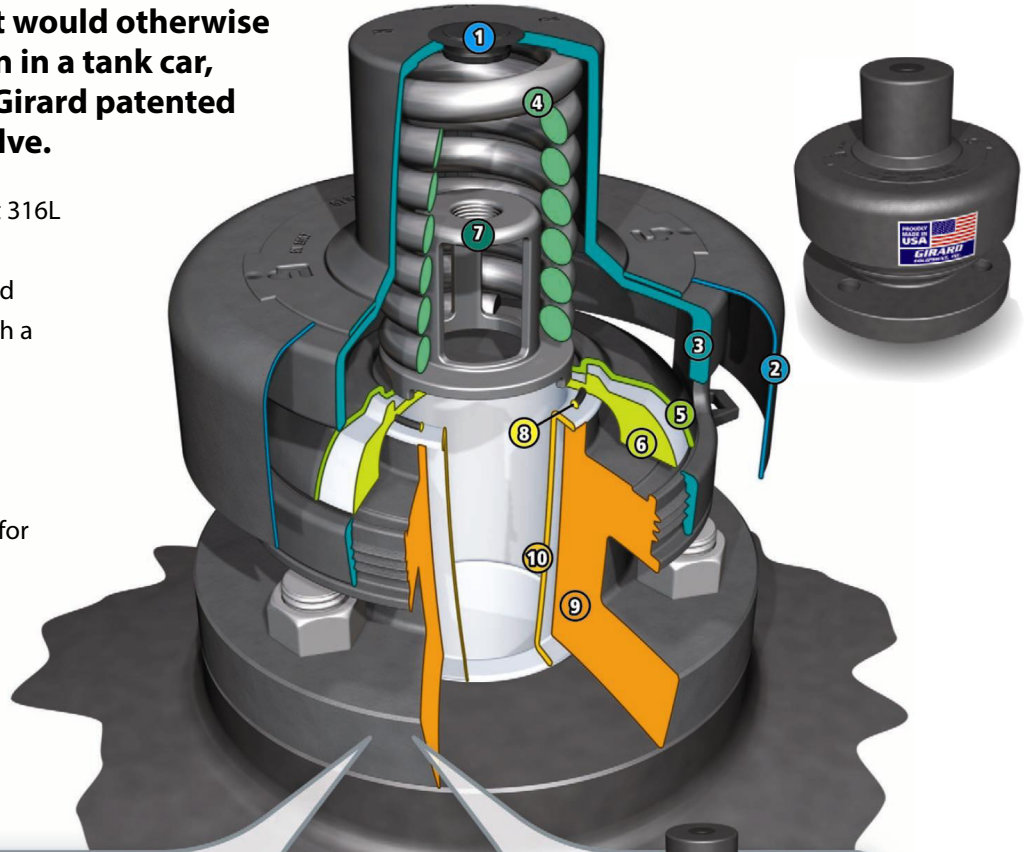


| Ball Mat. | Stem Mat. | Seat Mat. | Seal Mat. | Description |
|-------------|-------------|-----------|------------|--|
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | SS NPT x NPT Full Port Ball Valve |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | SS NPT x NPT Full Port Ball Valve |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | SS NPT x NPT Full Port Ball Valve |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | SS ANSI Class 150 Flange x NPT Full Port Ball Valve |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | SS ANSI Class 150 Flange x NPT Full Port Ball Valve |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | SS ANSI Class 150 Flange x NPT Full Port Ball Valve |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | CSANSI Class 150 Flange x NPT Full Port Ball Valve |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | CS ANSI Class 150 Flange x NPT Full Port Ball Valve |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | CS ANSI Class 150 Flange x NPT Full Port Ball Valve |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | SS ANSI Class 150 Flange x Flange Full Port Ball Valve |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | SS ANSI Class 150 Flange x Flange Full Port Ball Valve |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | SS ANSI Class 150 Flange x Flange Full Port Ball Valve, With Cast Handle |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | SS ANSI Class 150 Flange x Flange Full Port Ball Valve, With Cast Handle |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | CS ANSI Class 150 Flange x Flange Full Port Ball Valve |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | CS ANSI Class 150 Flange x Flange Full Port Ball Valve |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | CS ANSI Class 150 Flange x Flange Full Port Ball Valve, With Cast Handle |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | CS ANSI Class 150 Flange x Flange Full Port Ball Valve, With Cast Handle |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | SS ANSI Class 150 Flange x Male Cam & Groove Full Port |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | SS ANSI Class 150 Flange x Male Cam & Groove Full Port |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | CS ANSI Class 150 Flange x Male Cam & Groove Full Port |
| A276-316 SS | A276-316 SS | RPTFE | Graphoil | CS ANSI Class 150 Flange x Male Cam & Groove Full Port |
| A276-316 SS | A276-316 SS | PTFE | PTFE | SS Bottom Outlet Valve Full Port Ball Valve |
| A276-316 SS | A276-316 SS | TFM | PTFE/RPTFE | SS Bottom Outlet Valve Full Port Ball Valve |
| A276-316 SS | A276-316 SS | PTFE | PTFE | CS Bottom Outlet Valve Full Port Ball Valve |
| A276-316 SS | A276-316 SS | TFM | PTFE/RPTFE | CS Bottom Outlet Valve Full Port Ball Valve |

Girard Pressure Relief Valve For Corrosive Service

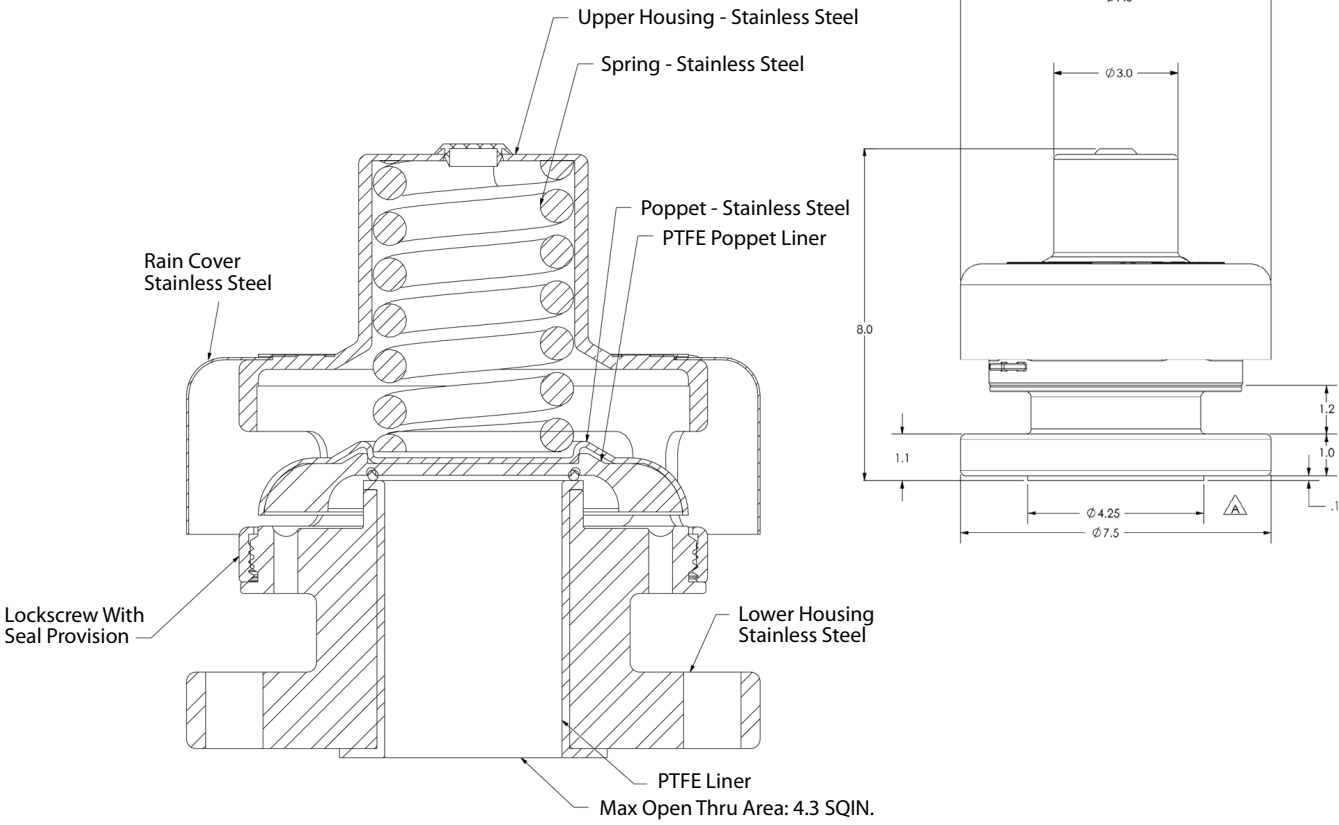
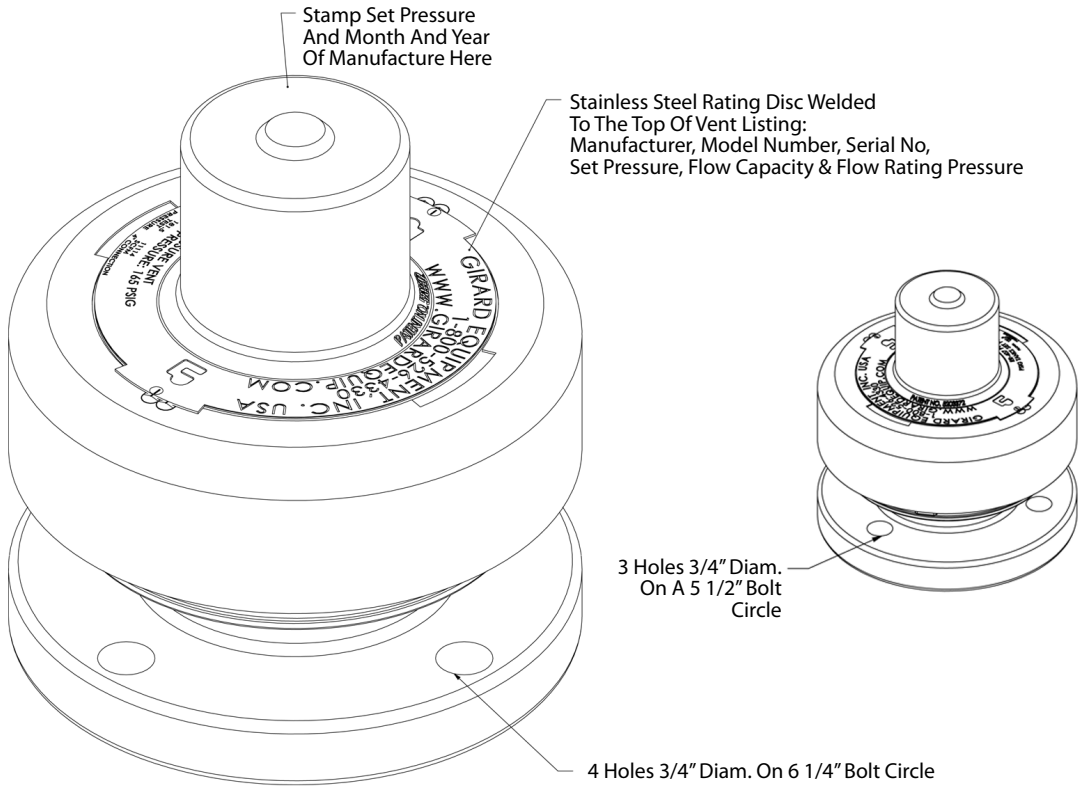
Relieve excess pressure, that would otherwise create a hazardous condition in a tank car, safely and reliably with the Girard patented 407 Series pressure relief valve.

- Body constructed of investment-cast 316L stainless steel.
- All surfaces are PTFE spray coated and interior wetted parts are covered with a seamless PTFE liner.
- Flow Ratings:
 - 165psi valve = 11,114 SCFM
 - 75psi valve = 8,585.9 SCFM.
- Quick disassembly feature designed for ease of maintenance.
- Rugged, low profile design.
- Comes in standard flange styles. Other flange options available upon request.
- AAR approved.
- Call for Pricing



| Item | Part | Name | Material |
|------|------------|----------------------|-----------------|
| 1 | 402019 | Plug | Plastic |
| 2 | 402003L-TC | Rain Cover | Stainless Steel |
| 3 | 402004RR2 | Upper Housing | Stainless Steel |
| 4 | 402005HPM | Spring | Stainless Steel |
| 5 | 402006L-TC | Poppet | Stainless Steel |
| 6 | GB04720 | Seat Teflon Poppet | PTFE |
| 7 | GB25010 | Spring Retainer | Stainless Steel |
| 8 | GB07620 | "O" Ring | Silicone |
| 9 | 4020234 | Lower Housing 4 Hole | Stainless Steel |
| | 4020232 | Lower Housing 3 Hole | Stainless Steel |

"-TC" designates Teflon spray-coated component.



Thermoplastic Butterfly Valves

Asahi Butterfly Valves



Asahi's thermoplastic fluid flow products are used for the control, transmission, and containment of corrosive fluids and high purity liquids, certain flammable gases, and compressed air.

- Direct Replacement for metal valves conforming to ISO-5752 Short Face to Face dimensions.
- Standard model has PVC body with PP disc for superior chemical and corrosion resistance as well as elevated temperature capabilities.
- Non-wetted 316 Stainless Steel stem has full engagement over the entire length of the disc and is totally isolated from the media.
- Full seat design isolates the body and stem from the media and acts as mating flange gaskets.
- Integral body stops in valve body to prevent overtightening of mating flanges.
- Spherical disc design for improved CV's and superior durability.
- Integral locking lever handle with 21 position throttling plate.
- Plasgear™ operator - Industry first composite enclosure gear-operator.
- Integral ISO-5211 top mounting pad for actuation mounting.
- Polypropylene stem retainer to prevent stem removal.

Call for Part Number Information and Pricing.

High Performance Valves

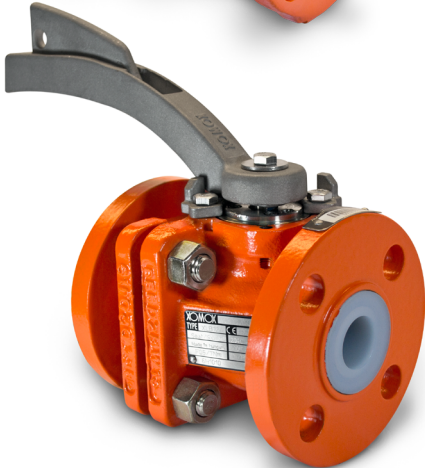
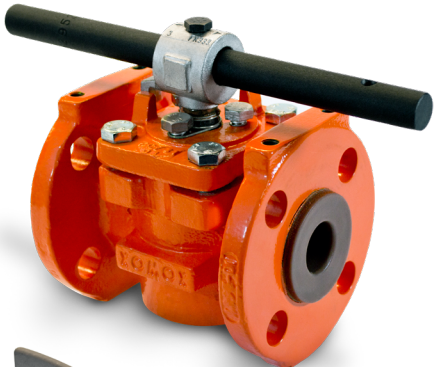
XOMOX® Valves

XOMOX® process valves and actuators offer the broadest range of materials, sizes, pressure classes, and temperature ratings.

Tufline - Lined Plug Valves

Tufline 2-way and 3-way fully lined plug valves feature an encapsulated plug rotating in a fully lined body. Superior PFA linings economically handle the most corrosive fluids.

| Part Numbers: | AAR #: | Size: | Body Material: |
|----------------|----------|--------|----------------|
| XO9RB708L1-SRC | E-079005 | 1" | Ductile Iron |
| XO9RB709L1-SRC | E-079005 | 1 1/2" | Ductile Iron |
| XO9RB710L1-SRC | E-079005 | 2" | Ductile Iron |
| XO9RB711L1-SRC | E-079005 | 3" | Ductile Iron |



XLB - Lined Ball Valves

XOMOX ball valves provide tight shutoff from vacuum through rated pressure at temperatures from -20 degrees F to 450 degrees F. The XOMOX Process Ball Valves are available in one-piece flanged, two-piece flanged, and three-piece screwed, socket-welded, and butt-weld ends configurations.

| Part Numbers: | AAR #: | Size: | Body Material: |
|---------------|----------|--------|----------------|
| XO6H1010H | E-129501 | 1" | Ductile Iron |
| XO6H2010H | E-129501 | 1 1/2" | Ductile Iron |
| XO6H3010H | E-129501 | 2" | Ductile Iron |
| XO6H4010H | E-129501 | 3" | Ductile Iron |



XLD - Lined Butterfly Valves

XOMOX offers a broad range of high performance butterfly valves to handle virtually any process application. Available to fit ASME (ANSI) or DIN piping systems in pressure classes 150, 300 and 600 (PN 10/16, PN 25/40, and PN63/100). Standard valves are offered with soft (PTFE) seats, Fire-tested, or high temperature metal seats.

Call for Part Number Information and Pricing.

Lined Piping Products

PTFE Lined Fittings



Fittings are made stronger with its molded PTFE lining.



Lined Piping Products currently manufactures 150# and 300# PTFE Lined Pipe & fittings up thru 8 inch sizes.

**150# & 300# PTFE Lined Fittings
PTFE Lined Pipe & fittings up thru 8 inch sizes.**

- PTFE (polytetrafluoroethylene) is the best multipurpose liner available.
- Fittings have a continuous working temperature range of up to 260°C(500°F) and higher temperatures can be sustained for shorter periods.
- Fittings are extremely durable, and at this temperature it remains practically chemically inert.
- PTFE is also unaffected by weather, and can withstand exposure to hot and cold extremes with no loss in dependability.
- PTFE liners are molded to fit each fitting, increasing its strength and vacuum rating.
- Each fitting liner conform to ASTM F1545 minimum wall thickness and specifications.
- Special fittings can also be made to meet the needs of your specific need.
- Available in SS or CS, and CS can be painted to your spec.

Call for Part Number Information and Pricing.



PTFE lining is molded around bends not forced liked most lined fittings.

User-Friendly Air Manifold With Quick-Connect Fittings

Tank Trailer Equipment



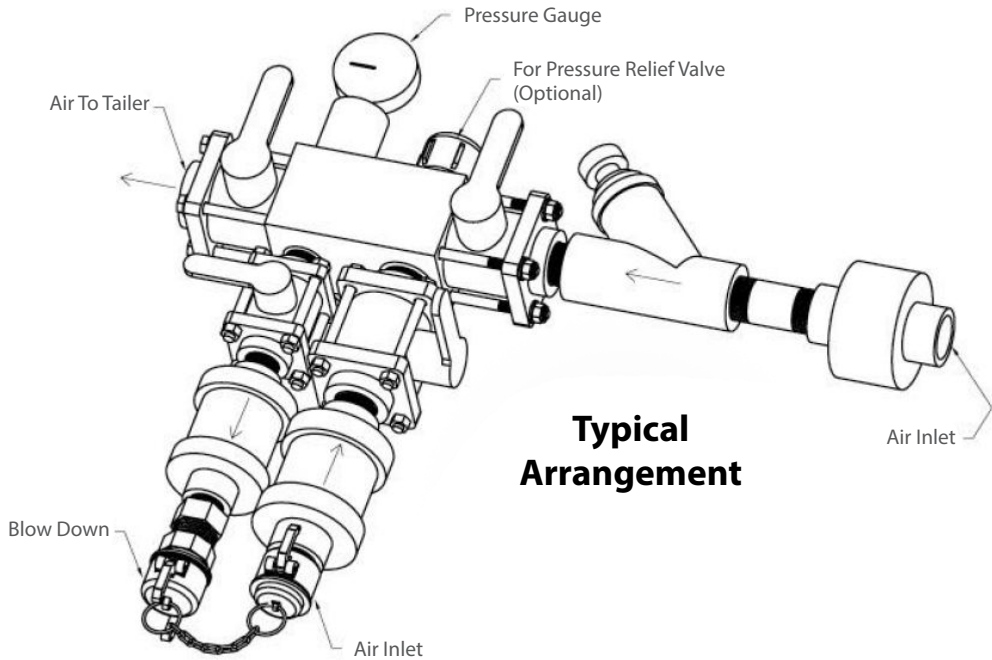
Air Manifold applied to tank truck line

Used in the loading and unloading of corrosive products from tank trucks, an Air Manifold serves as a multiple ported entry point into a main product pipeline. In addition, it is also used for venting and scrubbing vapors during the unloading process. Air Manifolds are also used on truck tank air supply lines.

Key Features and Benefits

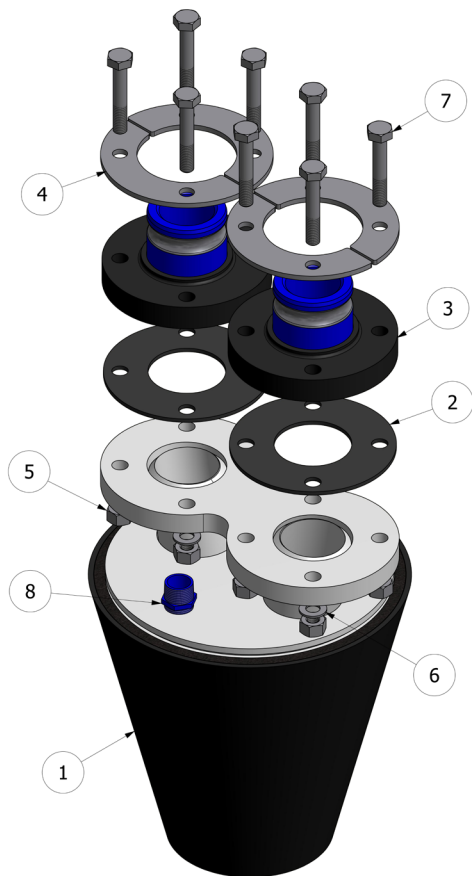
- Light weight, low maintenance and corrosion resistant.
- Constructed of Salco PE™, polypropylene and PVC
- Utilizes O-Ring seals and quick connection fittings, reducing the number of threaded fittings.

Call for Pricing



Closed System Loading Spouts

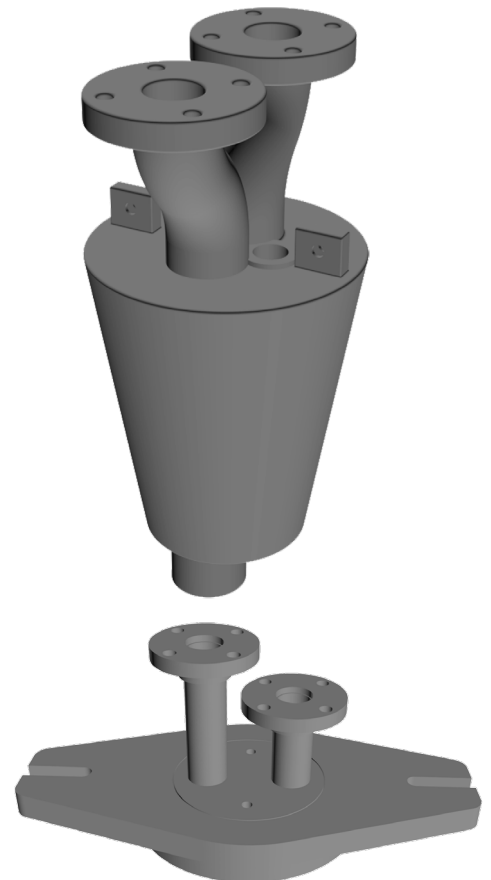
Plant Transloading Equipment



An all-plastic assembly that offers tank trailer operators a method of loading and unloading product in a closed loop.

- Keeps liquid and vapor control away from operators and out of the atmosphere.
- Corrosion resistant.
- Low maintenance and lightweight.
- Consists of a rotating outer plate which allows existing hatch/dome cover swing eyebolts to clamp the device to standard tank trailer manway application.
- Several configurations available depending on application.
- Gauging options available.

Call for Pricing



| NO. | PART NAME | PART # | REQ | MATERIAL |
|-----|------------------------------|------------|-----|------------------|
| 1 | LOADING SPOUT | HSCSL3PP | 1 | PP/EPDM |
| 2 | FLANGE GASKET 3" 150 LB | FG2315003 | 2 | EPDM |
| 3 | QUICK CONNECT FLANGE 3" | HS3FTKRPY | 2 | SALCO PE/ 316 SS |
| 4 | SEGMENTED WASHER 6" | WS6S01 | 4 | 304 SS |
| 5 | HEAVY HEX NUT 5/8"-11 | HHN77766 | 8 | 316 SS |
| 6 | FLAT WASHER 5/8" USS | WASH58SS | 8 | 18-8 SS |
| 7 | HEAVY HEX BOLT 5/8"-11X3 1/2 | HHB70317 | 8 | 18-8 SS |
| 8 | PIPE NIPPLE 1" CLOSE | BNIP100-SH | 1 | POLYPROPYLENE |

Product and exhaust hoses are connected to the top fittings, and the whole flow assembly becomes a "closed" loop for product being transferred.

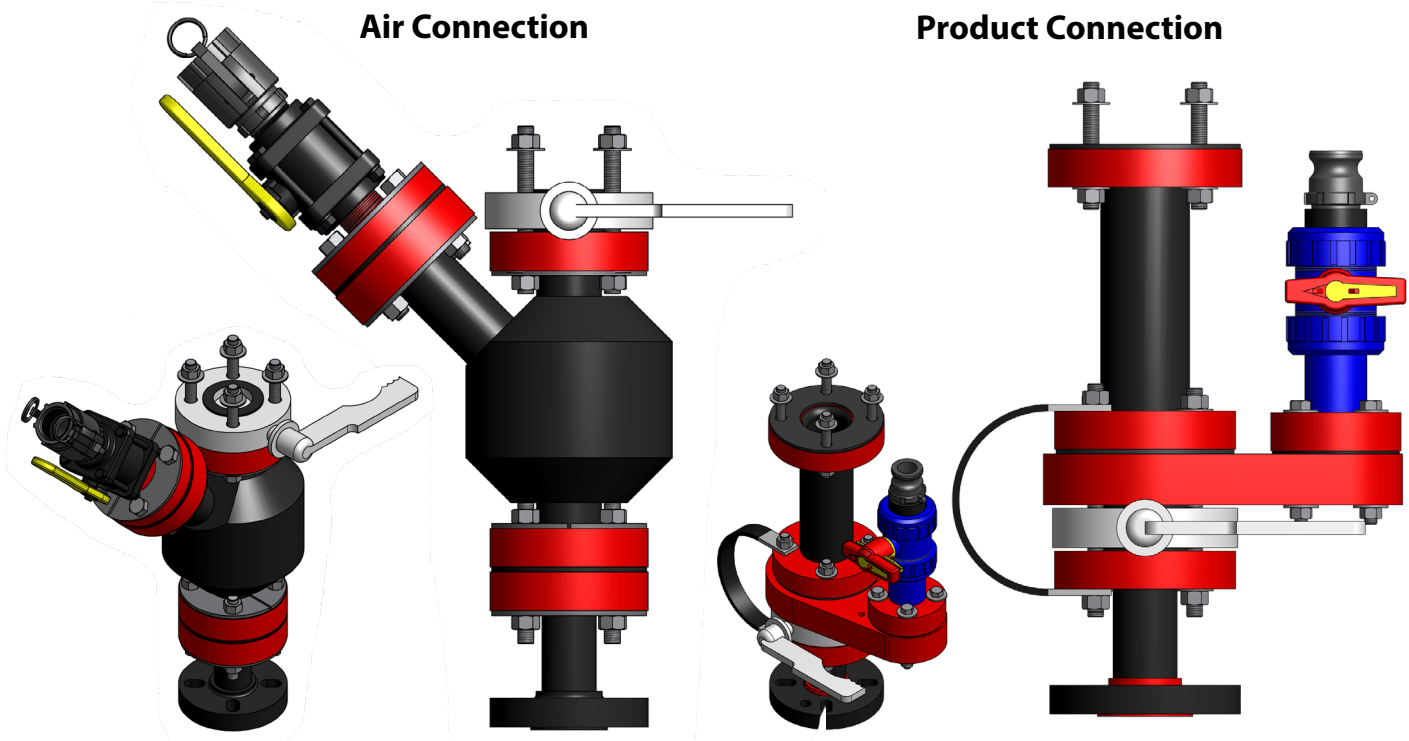
Railcar Adapters



Salco's railcar adapters were designed for the safe unloading of corrosive chemicals through education tubes.

- All Salco PE (UHMWPE).
- Welded construction on body and flanges minimizes leak paths.
- Lightweight and easy to carry, approximate weight is 30 lbs.
- No lining to replace or damage.
- Universal flanges fit different bolt patterns.

Call for Pricing



Waste Fume Scrubbers

Plant, Transloading Equipment



Stationary Model

Eliminate odors, acids, chemicals and NOx fumes with waste fume vent scrubbers from the corrosives specialists at Salco Products. Waste fume scrubbers help prevent environmental releases, ensure regulatory compliance, and protect employee safety and health.

Applications

- Removal of acid fumes from various processes.
- Removal of SO₂ / NO_x and solid particle matter from boiler flue gases.
- Dust collection.

Key Features / Benefits

- Meets EPA regulations.
- Low maintenance; high efficiency.
- Compact system design; proven performance.
- Corrosion resistant.
- Blower optional.
- Wide range of sizes and CFM ratings available in accordance with your needs.



Portable Model



Stationary Model



Development and Engineering Expertise

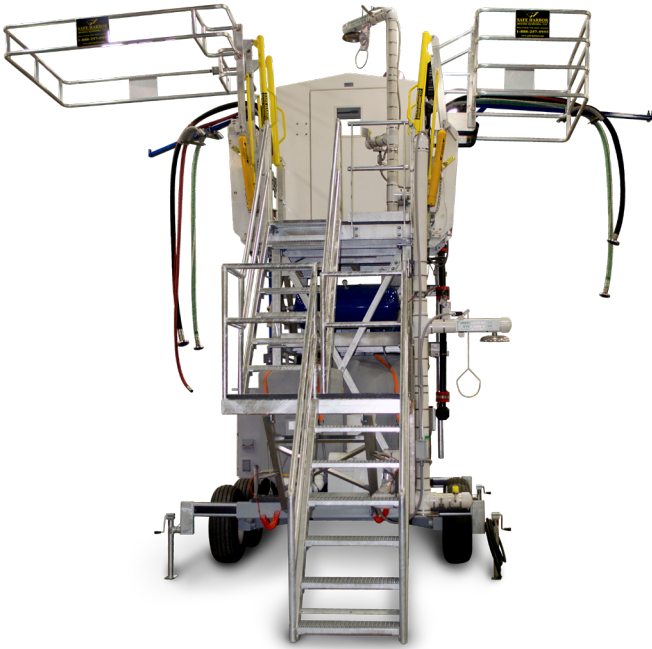
Coupled with Salco's freight-transportation and transloading industries expertise, Hazarsolve utilizes its extensive corrosives environment knowledge and experience to design, engineer and construct the best, most efficient waste fume scrubbers available.

Each Hazarsolve waste fume scrubber is individually designed and engineered to meet your requirements. Hazarsolve scrubbers are constructed to the highest quality standards and are built for maximum corrosion resistance under the most severe application conditions. Contact our Engineering Department and speak to one of our specialists to learn more.

Waste fume scrubbers are suitable for chemical producers, metal finishing semi-conductor manufacturing, and other operations generating fumes and gases.



Transloading Units



The HMU (Hazarsolve Mobile Transloading Unit) is a fully outfitted mobile rail to truck transfer unit for the top unloading of hydrochloric and sulfuric acids.

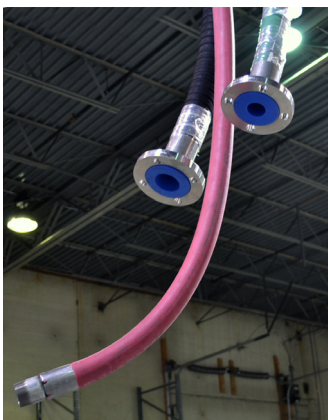
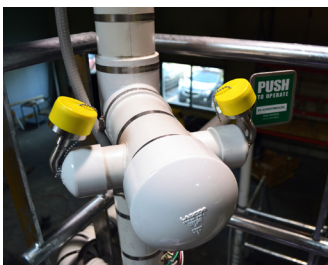
Mobile Transloader Features:

- Steel painted wagon with small turn radius.
- Loading platform - 12'6" height. Complete with 2 gangway access points (1 railcar / 1 truck) including stairwell for access to truck. (All handrails and handgrabs as required by OSHA)
- Fiberglass grating in all wetted areas.
- 150 GPM lined pump piped for both loading to and from railcar.
- Flow meter including digital readout. (Remote readout included in cab as well).
- Waste fume scrubber system - affluent tank, flow meter, and pump discharge to main product line. (Calculations on system are provided). Heat Trace and insulation for freeze protection.
- PP/FRP weatherproof shelter including heating-HVAC unit. (Remote pump shut off / and remote read out for metering system mounted in the shelter).
- FRP tool box for storage.
- (2) Self contained eye wash systems including separate 1" hose for wash down. Heat Trace and insulation for freeze protection.
- 150 CFM blower package designed for off-loading railcars.

All hardware to be stainless steel with locking nuts as required. All materials of construction are painted or coated for corrosion resistance.

Additional Options:

- Maintenance contract (2) years.
- On-site training during initial start-up.
- Emco Wheaton swivel by-pass loading arms.
- PTFE coated hardware.
- Loading hoses per customer specification.
- Custody transfer approved batch controller/flow meter.



Conductivity Tester

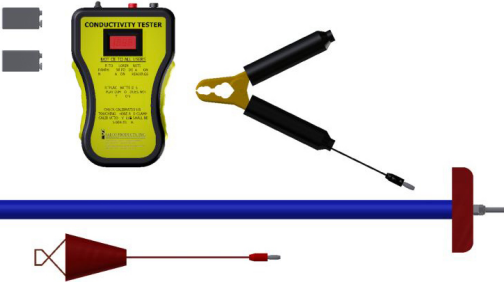


Lining-integrity testing allows the integrity of interior linings to be evaluated each time a vessel is filled. By tracking readings over time, gradual lining degradation can be detected before serious shell failure occurs.

Key Features/Benefits:

- Helps to ensure liner integrity at the time and point of checking.
- Allows lining to be tested while under load.
- Saves cleaning costs, which reduces the need to clean the car to perform a lining inspection.
- Helps to ensure intact lining on every shipment.
- Reduces the need for spark testing, which saves time and money.
- Reduces confined space entry to prove lining integrity.
- Connection points provide a secure union for probe and grounding clamp, but easily disconnect if snagged.
- Ergonomic rubberized grips.
- Service life of 5 years.
- 48" and 72" probe lengths available.

User Friendly: Our Conductivity Tester features an easy to read digital LED read-out. It also offers a grounding clip and a T-handle probe for quick and accurate readings.



Sheathed Probe: Used for taking readings through a dip tube or Manway.



Unsheathed Probe: Used for taking readings through the surge suppressor of a quick inspect.

Note: Take proper precaution to prevent contact with the product being tested and the cord to the product.



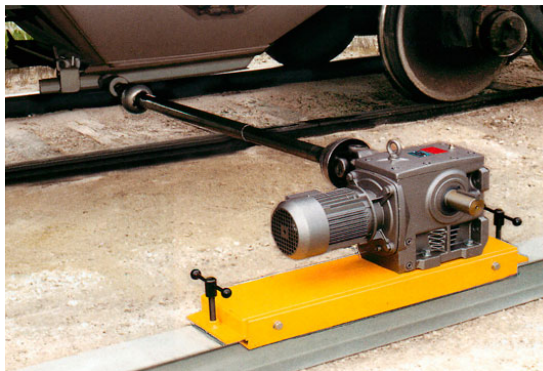
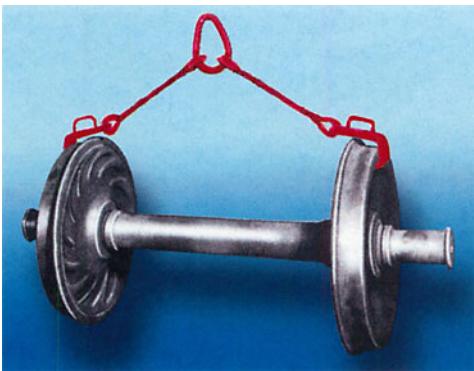
ALDON® Safety & Maintenance Products

A full range of safety and maintenance products for rail and industrial use.

**Rail Dock Safety | Track Repair | Plant Safety
Car/Locomotive Repair | Truck Dock Safety**

Salco is an authorized distributor of Aldon safety and maintenance products.

Call your Salco representative for more information on these and other Aldon products.



Environmental Containment Products

UltraTech offers a wide array of innovative products for containing, transporting, storing and collecting hazardous materials.

Over 150 Unique Products Available

- A complete line of containment products for drums, IBC/Tanks, bottles, batteries, trucks and vehicles, and other fluid-containing items.
- "Market-needed" products that meet the specific needs and requirements of industry.
- A fine line of products that can seal leaks in tanks, drums, tanker trucks and saddle tanks.
- Products that address the environmental needs of industry through a commitment to innovation, quality in production, and responsive distributors.

Salco is an authorized distributor of products made by UltraTech International inc.



Spill Pallets



Spill Decks

Containment Berms

Track pans



Selection of Plastic Material

Many factors can affect the chemical resistance of plastics. These include, but are not limited to, exposure time, extremes of temperature and pressure, frequency of temperature and/or pressure cycling, attrition due to abrasive particles, and the type of mechanical stress imposed. The fact that certain combinations of chemical and mechanical load can induce stress cracking in many otherwise chemically resistant materials, both metallic and nonmetallic, is of particular significance.

The chemical/temperature ratings presented are based on well-processed or well-fabricated test specimens being essentially resistant to either chemical attack and/or severe swelling which would normally impair their performance under moderate mechanical stresses.

Operating characteristics are dependent upon the particular application of polypropylene,

polyethylene, PVC, or CPVC and may differ from those experienced in either laboratory testing or apparently similar field service. Because corrosive fluids or vapors are often mixtures of various individual chemicals, it is strongly recommended that trial installations be evaluated under actual service conditions.

For example, immersion testing in individual chemicals at a specific operating temperature doesn't predict the performance of polypropylene, polyethylene, PVC, or CPVC should an exothermic reaction take place when mixtures of chemicals are involved.

The ratings given on the following pages are a guide and do not constitute a warranty of any kind, expressed or implied, with respect to the performance of polypropylene, polyethylene, PVC, or CPVC, in any specific application.

- 1** <15% loss in property values. Little or no chemical attack.
- 2** 15-30% loss in property values. Minor chemical attack.
- 3** 30-50% loss in property values. Moderate chemical attack.
- NR** Not recommended. >50% loss in property values.
- *** No data available.

Disclaimer:

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In NO case shall anything contained in this document be considered a part of our terms and conditions of sale.

Statements or suggestions concerning the possible use of any material are made WITHOUT representation of warranty that any such use is free of patent infringement. We do NOT recommend that any patent be infringed. The user should NOT assume that all safety measures are indicated or that other measures may not be required.

| | Salco Polyethylene | | | Polypropylene | | | Polyethylene | | PVC | | CPVC | | |
|------------------------|--------------------|------|------------|---------------|------|------|--------------|------|-----|------|------|------|------|
| | 70° | 122° | 170° | 70° | 140° | 180° | 70° | 140° | 70° | 140° | 70° | 170° | 210° |
| Acetate Solvents Pure | 1 | 2 | NR | 2 | NR | NR | 1 | 3 | NR | NR | NR | NR | NR |
| Acetaldehyde | 2 | 3 | NR | 2 | 3 | * | 3 | NR | NR | NR | NR | NR | NR |
| Acetamide | * | * | * | 1 | 2 | * | 1 | * | NR | NR | * | * | * |
| Acetic Solvents Crude | * | * | * | 2 | NR | NR | 1 | 3 | NR | NR | NR | NR | NR |
| Acetic Solvents Pure | 1 | 1 | NR | 2 | NR | NR | 1 | * | NR | NR | NR | NR | NR |
| Acetic Acid 10% | 1 | 2 | NR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | NR |
| Acetic Acid 20% | 1 | 2 | NR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | NR | NR |
| Acetic Acid 50% | 1 | 2 | NR | 1 | 1 | 1 | 1 | 2 | 3 | NR | NR | NR | NR |
| Acetic Acid 80% | 1 | 2 | NR | 1 | 1 | 1 | 2 | 2 | NR | NR | NR | NR | NR |
| Acetic Acid Glacial | 1 | 2 | NR | 1 | 1 | 2 | 1 | NR | NR | NR | NR | NR | NR |
| Acetic Anhydride | 1 | 2 | NR | 2 | NR | NR | 3 | NR | NR | NR | NR | NR | NR |
| Acetone | 1 | 1 | NR | 1 | 1 | 2 | NR | NR | NR | NR | NR | NR | NR |
| Acetophenone | 3 | 3 | * | 2 | 2 | NR | * | * | NR | NR | * | * | * |
| Acetyl Chloride | * | * | * | * | * | * | * | * | NR | NR | NR | NR | NR |
| Acetylene | * | * | * | 1 | * | * | * | * | 1 | 1 | 1 | 1 | * |
| Acrylonitrile | * | * | * | 1 | 2 | * | 2 | 2 | * | * | * | * | * |
| Adipic Acid | * | * | * | 1 | 2 | 2 | * | * | 1 | 1 | 1 | 1 | * |
| Alcohol Allyl | 1 | NR | NR | 2 | 2 | * | 2 | 2 | NR | NR | NR | NR | NR |
| Alcohol Amyl | 1 | NR | NR | 1 | 2 | * | 1 | 2 | NR | NR | 2 | NR | NR |
| Alcohol Butyl | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | NR | NR | 2 | NR | NR |
| Alcohol Ethyl | 1 | 1 | 1 | 1 | 1 | 2 | 2 | NR | 1 | 1 | 1 | 1 | 1 |
| Alcohol Methyl | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Alcohol Propyl | * | * | * | 1 | * | * | 2 | NR | 1 | NR | 1 | * | * |
| Allyl Chloride | 1 | 3 | * | 2 | * | * | 2 | NR | NR | NR | NR | NR | NR |
| Alum | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Alum Ammonium | * | * | * | 1 | 1 | 1 | 1 | 1 | NR | NR | NR | NR | NR |
| Alum Chrome | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Alum Potassium | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Aluminum Chloride | 1 | 1 | Boiling NR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Aluminum Fluoride | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Aluminum Hydroxide | 1 | 1 | * | 1 | 1 | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 |
| Aluminum Nitrate | * | * | * | 1 | 1 | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 |
| Aluminum Sulfate | 1 | 1 | Boiling NR | 1 | 1 | * | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| Ammonia Anhydrous | 1 | 1 | * | 1 | 1 | 1 | * | * | 2 | NR | * | * | * |
| Ammonia Aqueous | 1 | 1 | * | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | * |
| Ammonium Bifluoride | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Ammonium Carbonate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Ammonium Chloride | 1 | 1 | Boiling NR | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Ammonium Fluoride 10% | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Ammonium Fluoride 25% | * | * | * | 1 | 1 | 1 | 1 | 1 | NR | NR | NR | NR | NR |
| Ammonium Hydroxide | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Ammonium Metaphosphate | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Ammonium Nitrate | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Ammonium Persulfate | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Ammonium Phosphate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Ammonium Sulfate | 1 | 1 | Boiling NR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Ammonium Sulfide | * | * | * | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | * |
| Amyl Acetate | 1 | * | * | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |

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* No data available.

| | Salco Polyethylene | | | Polypropylene | | | Polyethylene | | PVC | | CPVC | | |
|-----------------------|--------------------|------|------------|---------------|------|------|--------------|------|-----|------|------|------|------|
| | 70° | 122° | 170° | 70° | 140° | 180° | 70° | 140° | 70° | 140° | 70° | 170° | 210° |
| Amyl Chloride | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Aniline | 1 | 2 | 3 | 1 | 3 | 3 | NR | NR | NR | NR | NR | NR | NR |
| Aniline Hydrochloride | * | * | * | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Antimony Trichloride | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | NR | NR | NR | NR |
| Aqua Regia | 2 | 3 | NR | 2 | NR | NR | NR | NR | 3 | NR | NR | NR | NR |
| Arsenic Acid | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Barium Carbonate | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Barium Chloride | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Barium Hydroxide | 1 | 1 | * | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Barium Sulfate | 1 | * | * | 2 | NR | NR | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Barium Sulfide | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Beer | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Beet Sugar Liquors | * | * | * | 1 | 2 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Benzaldehyde | 1 | * | * | 1 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Benzene | 3 | NR | * | 3 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Benzene Sulfonic Acid | 1 | 1 | * | 2 | NR | NR | NR | NR | 1 | 1 | 1 | 1 | * |
| Benzoic Acid | 1 | 1 | * | 1 | NR | NR | 1 | * | 1 | 2 | 1 | 1 | * |
| Benzyl Alcohol | 1 | 1 | 1 | 1 | 3 | NR | * | * | NR | NR | NR | NR | NR |
| Benzyl Chloride | * | * | * | 1 | 1 | 2 | * | * | 2 | NR | * | * | * |
| Bismuth Carbonate | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Borax | 1 | 1 | * | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Boric Acid | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Bromine Liquid | * | * | * | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Bromine Water | 3 | * | * | NR | NR | NR | NR | NR | 1 | 1 | NR | NR | NR |
| Butadiene | 3 | NR | NR | NR | NR | NR | 2 | * | NR | NR | 1 | 1 | * |
| Butane | 1 | * | * | 1 | NR | NR | 2 | * | 2 | NR | 1 | NR | NR |
| Butyl Acetate | 1 | * | * | 2 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Butyl Alcohol | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | NR | NR | 1 | NR | NR |
| Butylene | 1 | * | * | 2 | NR | NR | 2 | * | 3 | NR | 2 | NR | NR |
| Butyl Phenol | * | * | * | 2 | * | * | 2 | * | NR | NR | 2 | NR | NR |
| Butyne Diol | * | * | * | 1 | 1 | * | 2 | * | 1 | NR | 1 | NR | NR |
| Butyric Acid | 1 | 2 | * | 1 | 1 | 1 | 2 | * | NR | NR | 1 | NR | NR |
| Butyl Amine | * | * | * | 3 | NR | * | 3 | NR | NR | NR | * | * | * |
| Butyl Ether | * | * | * | NR | NR | NR | 2 | NR | 1 | 1 | * | * | * |
| Butyl Chloride | * | * | * | NR | NR | NR | NR | NR | * | * | * | * | * |
| Butyl Phthalate | 1 | * | * | 2 | 2 | * | 3 | NR | 2 | NR | NR | NR | NR |
| Calcium Bisulfide | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Calcium Bisulfite | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Calcium Carbonate | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Calcium Chlorate | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Calcium Chloride | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Calcium Hydroxide | 1 | 1 | Boiling NR | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Calcium Hypochlorite | 1 | 1 | Boiling NR | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Calcium Nitrate | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Calcium Sulfate | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Carbolic Acid | 1 | * | * | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Carbon Dioxide | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Carbon Disulfide | NR | * | * | NR | NR | NR | 2 | 2 | NR | NR | NR | NR | NR |

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| | Salco Polyethylene | | | Polypropylene | | | Polyethylene | | PVC | | CPVC | | |
|--------------------------|--------------------|------|------------|---------------|------|------|--------------|------|-----|------|------|------|------|
| | 70° | 122° | 170° | 70° | 140° | 180° | 70° | 140° | 70° | 140° | 70° | 170° | 210° |
| Carbon Monoxide | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Carbon Tetrachloride | 3 | * | * | 2 | 3 | NR | NR | NR | NR | NR | NR | NR | NR |
| Castor Oil | * | * | * | 1 | 3 | NR | 1 | 1 | 1 | 1 | 1 | 1 | NR |
| Caustic Potash | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Caustic Soda | 1 | 1 | 1 | 1 | 2 | 2 | 1 | * | 1 | 1 | 1 | 1 | * |
| Cellosolves | * | * | * | 2 | 3 | NR | 2 | * | 1 | 2 | 1 | 2 | * |
| Chloral Hydrate | * | * | * | 1 | * | * | 2 | * | 1 | 1 | 1 | 1 | * |
| Chloric Acid | * | * | * | NR | NR | NR | * | * | 1 | 3 | 1 | 2 | * |
| Chlorinated Water | 1 | 1 | * | 2 | 3 | * | * | * | 1 | 3 | * | * | * |
| Chlorine Dry | 2 | * | * | 3 | * | * | NR | NR | NR | NR | NR | NR | NR |
| Chlorine Wet | 2 | 2 | * | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Chloroacetic Acid | NR | * | * | 1 | 1 | * | 2 | * | 2 | 3 | 1 | 2 | NR |
| Chlorobenzene | 2 | NR | * | 3 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Chloroform | 2 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Chlorosulfonic Acid | NR | * | * | 3 | NR | NR | NR | NR | 3 | NR | 2 | NR | NR |
| Chrome Alum | * | * | * | 1 | 1 | NR | 1 | 1 | 1 | 1 | 1 | 1 | NR |
| Chromic Acid 10% | 1 | 1 | Boiling NR | 1 | 1 | 2 | 1 | 2 | NR | NR | 1 | 1 | * |
| Chromic Acid 30% | 1 | 1 | Boiling NR | 1 | 2 | NR | 1 | 3 | NR | NR | 1 | 1 | * |
| Chromic Acid 40% | 1 | 1 | Boiling NR | 1 | 3 | NR | 1 | NR | NR | NR | 1 | 1 | * |
| Chromic Acid 50% | 1 | 1 | Boiling NR | 1 | NR | NR | 1 | NR | NR | NR | 1 | 1 | * |
| Citric Acid | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Coconut Oil | * | * | * | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Copper Carbonate | * | * | * | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | 1 |
| Copper Chloride | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Copper Cyanide | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * | * | * |
| Copper Fluoride | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Copper Nitrate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Copper Sulfate | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Cottonseed Oil | 1 | 2 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cresol | * | * | * | NR | NR | NR | NR | NR | NR | NR | 2 | NR | NR |
| Cresylic Acid | 1 | * | * | NR | NR | NR | NR | NR | NR | NR | 2 | NR | NR |
| Croton Aldehyde | 1 | 1 | * | 1 | NR | NR | 2 | * | NR | NR | NR | NR | * |
| Crude Oil | 1 | 2 | * | 1 | 2 | * | NR | NR | 1 | 1 | 1 | 1 | * |
| Cyclohexane | 1 | 1 | * | 3 | NR | NR | * | * | 2 | NR | 1 | * | * |
| Cyclohexanol | 1 | 1 | 1 | 2 | * | * | * | * | NR | NR | NR | NR | NR |
| Cyclohexanone | 1 | * | * | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Detergent | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Dextrin | * | * | * | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Dextrose | 1 | * | * | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Diacetone Alcohol | * | * | * | 1 | 2 | * | * | * | NR | NR | NR | NR | NR |
| Diazo Salts | 1 | 1 | * | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Dibutyl Phthalate | 1 | 1 | * | 1 | 2 | NR | * | * | NR | NR | NR | NR | NR |
| Dichlorobenzene | * | * | * | 3 | NR | NR | * | * | 3 | NR | * | * | * |
| Dichlorodifluoro Methane | * | * | * | 1 | 2 | * | * | * | 1 | NR | * | * | * |
| Dichloroethylene | NR | * | * | 1 | NR | NR | * | * | NR | NR | NR | NR | NR |
| Dichloroethane | 3 | * | Boiling NR | 1 | * | * | * | * | NR | NR | * | * | * |
| Diesel Fuel | 1 | 1 | NR | 2 | 3 | NR | 2 | 3 | 1 | 2 | 1 | 2 | NR |
| Diethylamine | * | * | * | 1 | 2 | 2 | 2 | * | NR | NR | NR | NR | NR |

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|--------------------------------|--------------------|------|------------|---------------|------|------|--------------|------|-----|------|------|------|------|
| | 70° | 122° | 170° | 70° | 140° | 180° | 70° | 140° | 70° | 140° | 70° | 170° | 210° |
| Diethylene Glycol | * | * | * | 1 | 1 | 1 | * | * | 3 | NR | * | * | * |
| Diethyl Cellosolve | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Diethyl Ether | 1 | * | * | NR | NR | NR | * | * | NR | NR | NR | NR | NR |
| Diglycolic Acid | * | * | * | 1 | NR | NR | * | * | 1 | 1 | 1 | 1 | * |
| Dimethylamine | * | * | * | 1 | 1 | * | 2 | * | NR | NR | NR | NR | NR |
| Dimethyl Formamide | 1 | * | * | 1 | 1 | * | * | * | NR | NR | NR | NR | NR |
| Dimethyl Sulfoxide | * | * | * | 1 | 2 | * | * | * | NR | NR | * | * | * |
| Diocyl Phthalate | * | * | * | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Dioxane 1,4 | * | * | * | 1 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Diphenyl | * | * | * | NR | * | * | * | * | * | * | * | * | * |
| Diphenyl Ether | * | * | * | NR | * | * | * | * | NR | * | * | * | * |
| Diphenyl Oxide | * | * | * | * | * | * | * | * | NR | * | 2 | * | * |
| Dipropylene Glycol | * | * | * | 1 | 2 | * | * | * | 2 | 3 | * | * | * |
| Distilled Water | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Dizymbenzene | * | * | * | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Epichlorohydrin | * | * | * | 1 | 1 | * | * | * | NR | NR | NR | NR | NR |
| Ethane | 1 | * | * | 3 | * | * | * | * | NR | * | NR | NR | NR |
| Ethanolamine | * | * | * | 1 | 1 | 2 | * | * | 3 | * | * | * | * |
| Ethers | 2 | * | * | NR | * | * | * | * | NR | * | * | * | * |
| Ethyl Acetate | 1 | 1 | NR @ 140 | 1 | 1 | 2 | 2 | * | NR | * | NR | NR | NR |
| Ethyl Acetoacetate | * | * | * | NR | * | * | * | * | NR | NR | NR | NR | NR |
| Ethyl Acrylate | * | * | * | NR | * | * | 2 | NR | NR | NR | NR | NR | NR |
| Ethyl Alcohol | * | * | * | 1 | 1 | 2 | 2 | NR | 1 | 1 | 1 | 2 | * |
| Ethyl Benzene | 1 | * | * | NR | * | * | * | * | NR | * | * | * | * |
| Ethyl Benzoate | * | * | * | 2 | 3 | * | * | * | NR | * | * | * | * |
| Ethyl Butyrate | * | * | * | 2 | NR | * | * | * | NR | * | * | * | * |
| Ethyl Chloride | * | * | * | NR | * | * | NR | * | NR | * | NR | NR | * |
| Ethyl Ether | NR | * | * | 3 | NR | * | NR | * | 3 | NR | NR | NR | NR |
| Ethyl Sulfate | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Ethylene Bromide | * | * | * | NR | NR | NR | NR | NR | NR | * | NR | * | * |
| Ethylene Chloride | 2 | NR | * | 3 | NR | * | * | * | NR | * | NR | NR | * |
| Ethylene Chlorohydrine | * | * | * | NR | * | * | NR | NR | NR | * | NR | NR | * |
| Ethylene Diamine | 1 | * | * | 1 | * | * | NR | * | NR | * | NR | * | * |
| Ethylene Dibromide | * | * | * | 2 | * | * | * | * | NR | * | * | * | * |
| Ethylene Dichloride | 3 | * | * | 2 | 3 | NR | NR | * | NR | NR | NR | NR | * |
| Ethylene Glycol | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ethylene Oxide | 1 | 3 | * | 2 | 3 | * | NR | NR | NR | * | NR | * | * |
| Fatty Acids | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ferric Chloride (Concentrated) | 1 | 1 | Boiling NR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ferric Nitrate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ferric Sulfate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ferrous Chloride | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ferrous Sulfate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fish Solubles | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fluoboric Acid | 1 | 1 | * | 1 | 1 | 1 | 1 | * | 1 | 1 | 1 | 1 | * |
| Fluorine Gas (Dry) | NR | NR | NR | NR | * | * | 1 | * | NR | NR | 1 | * | * |
| Fluorine Gas (Wet) | 3 | * | * | NR | * | * | 1 | * | NR | * | NR | * | * |
| Floussilic Acid | 1 | * | * | 1 | 1 | 1 | 1 | * | 1 | 3 | 1 | 1 | * |

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| | Salco Polyethylene | | | Polypropylene | | | Polyethylene | | PVC | | CPVC | | |
|-------------------------------|--------------------|------|------------|---------------|------|------|--------------|------|-----|------|------|------|------|
| | 70° | 122° | 170° | 70° | 140° | 180° | 70° | 140° | 70° | 140° | 70° | 170° | 210° |
| Formaldehyde | 1 | 1 | * | 1 | 1 | 2 | 1 | * | 2 | 2 | 1 | NR | NR |
| Formic Acid | 1 | 1 | * | 1 | NR | NR | 1 | 2 | 3 | NR | 1 | NR | NR |
| Freon Dry | * | * | * | NR | * | * | * | * | * | * | * | * | * |
| Freon Wet | * | * | * | 1 | 2 | 2 | * | * | * | * | * | * | * |
| Fructose | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fruit Juice | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Furfural | 1 | * | * | NR | * | * | NR | * | NR | * | NR | NR | * |
| Gallic Acid | 1 | 1 | * | 1 | 1 | 1 | NR | * | 1 | 1 | 1 | 1 | * |
| Gas Manufactured | * | * | * | NR | NR | NR | NR | NR | 1 | * | 1 | 1 | * |
| Gas Natural | NR | * | 2 | * | * | NR | NR | 1 | 2 | 1 | 1 | * | * |
| Gasoline (Leaded) | * | * | * | 3 | NR | NR | 3 | NR | 2 | NR | NR | NR | * |
| Gasoline (Unleaded) | 1 | 2 | * | 3 | NR | NR | 3 | NR | 2 | NR | NR | NR | * |
| Gelatin | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Glucose | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Glue | 1 | * | * | 1 | * | * | * | * | 1 | 1 | 1 | 1 | * |
| Glycerine | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | * |
| Glycol | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Glycolic Acid | * | * | * | 1 | 1 | 1 | 2 | * | 1 | 1 | 1 | 1 | * |
| Green Liquor | * | * | * | 1 | * | * | * | * | 1 | 1 | 1 | 1 | * |
| Helium | * | * | * | 1 | * | * | * | * | * | * | * | * | * |
| Heptane | 1 | 1 | * | 2 | NR | * | NR | NR | 3 | NR | 1 | 1 | * |
| Hexamine | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Hexane | 1 | * | * | 2 | NR | NR | NR | NR | 2 | NR | 1 | * | * |
| Hexanol Tertiary | * | * | * | 1 | 2 | * | 2 | NR | 2 | 2 | 1 | 1 | NR |
| Hydrazine | * | * | * | 3 | * | * | NR | NR | NR | NR | * | * | * |
| Hydraulic Fluid (Petroleum) | 1 | * | * | NR | * | * | NR | * | NR | * | * | * | * |
| Hydrobromic Acid (37%) | 1 | 1 | * | 1 | 2 | 3 | 1 | 1 | 2 | NR | * | * | * |
| Hydrochloric Acid (>20%) | 1 | 1 | Boiling NR | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | * | * |
| Hydrochloric Acid (50%) | 1 | 1 | Boiling NR | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | * |
| Hydrocyanic Acid | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Hydrofluoric Acid (>40%) | 1 | 2 | * | 1 | 1 | 2 | 1 | 1 | 2 | 3 | NR | * | * |
| Hydrofluosilicic Acid | 1 | * | * | 1 | 1 | 1 | * | * | NR | NR | NR | NR | NR |
| Hydrofluorisilicic Acid | 1 | * | * | 1 | 1 | 1 | * | * | 1 | 2 | * | * | * |
| Hydrogen Chloride | 1 | 1 | * | 1 | 1 | * | 1 | 1 | 1 | * | * | * | * |
| Hydrogen Cyanide | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hydrogen Fluoride | 1 | 1 | * | 1 | * | * | * | * | 2 | * | NR | * | * |
| Hydrogen Gas | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Hydrogen Peroxide | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 1 | * | * |
| Hydrogen Sulfide (Wet or Dry) | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Hydroquinone | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Hydroxylamine Sulfate | * | * | * | 1 | 1 | * | * | * | 1 | 1 | 1 | 1 | 1 |
| Hypo Sodium Thiosulfate | * | * | * | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | 1 |
| Hypochlorous Acid | * | * | * | 1 | 1 | * | 2 | NR | 1 | 1 | 1 | 1 | * |
| Iodine | 1 | * | * | 1 | 1 | 1 | 2 | NR | NR | NR | 1 | NR | NR |
| Isobutyl Alcohol | * | * | * | 1 | 2 | 2 | * | * | 2 | 3 | * | * | * |
| Isooctane | 1 | * | * | 1 | NR | NR | * | * | 1 | * | * | * | * |
| Isopropyl Acetate | * | * | * | 2 | 3 | * | * | * | NR | NR | * | * | * |
| Isopropyl Alcohol | 1 | 1 | 1 | 1 | 1 | 1 | * | * | 1 | 2 | 1 | * | * |

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|----------------------|--------------------|------|------|---------------|------|------|--------------|------|-----|------|------|------|------|
| | 70° | 122° | 170° | 70° | 140° | 180° | 70° | 140° | 70° | 140° | 70° | 170° | 210° |
| Isopropyl Ether | 1 | * | * | 2 | NR | NR | * | * | 3 | * | NR | * | * |
| Jet Fuel (JP3,4,5) | * | * | * | 3 | NR | * | * | * | 1 | 1 | 1 | 1 | * |
| Kerosene | 1 | 3 | * | 1 | NR | * | NR | NR | 1 | 1 | 1 | 1 | * |
| Keytones | 2 | NR | * | 2 | NR | * | * | * | NR | * | NR | * | * |
| Lactic Acid | 1 | 1 | * | 1 | 1 | 2 | 1 | 1 | 2 | 3 | 1 | 1 | * |
| Lacquer Solvents | 1 | * | * | NR | * | * | * | * | NR | * | * | * | * |
| LPG (Propane) | * | * | * | 1 | 2 | * | * | * | NR | NR | * | * | * |
| Lard | 1 | 1 | * | 2 | NR | * | NR | NR | 1 | 2 | 1 | 1 | * |
| Lauric Acid | * | * | * | 1 | 1 | * | 2 | NR | 1 | 1 | 1 | 1 | * |
| Lauryl Chloride | * | * | * | 1 | 1 | * | NR | * | 1 | 1 | 1 | 1 | * |
| Lead Acetate | 1 | * | * | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Lead Molten | NR | NR | NR | NR | * | * | NR | * | NR | * | NR | * | * |
| Lead Nitrate | 1 | 1 | * | 1 | 1 | * | * | * | 2 | 2 | * | * | * |
| Lead Sulfamate | * | * | * | 1 | 1 | * | * | * | 1 | * | * | * | * |
| Lime | * | * | * | 1 | 1 | 1 | * | * | 1 | 2 | * | * | * |
| Lime Sulfur | 1 | * | * | 1 | 1 | 1 | * | * | 1 | 1 | * | * | * |
| Lineoleic Acid | * | * | * | 2 | * | * | 2 | NR | 1 | 1 | 1 | 1 | * |
| Linseed Oil | 1 | 1 | NR | 1 | 1 | 1 | NR | NR | 1 | 1 | 1 | * | * |
| Lithium Chloride | 1 | * | * | 1 | * | * | * | * | 1 | * | * | * | * |
| Lithium Hydroxide | 1 | * | * | 1 | * | * | * | * | 1 | 1 | * | * | * |
| Lubricating Oil | 1 | * | * | 1 | NR | * | * | * | 2 | 2 | 1 | 1 | * |
| Lye | 1 | 1 | 1 | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | * |
| Machine Oil | * | * | * | 1 | 1 | NR | * | * | 1 | 1 | 1 | 1 | * |
| Magnesium Bisulfate | * | * | * | 1 | 2 | * | 1 | 1 | 1 | 2 | 1 | 1 | * |
| Magnesium Carbonate | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Magnesium Chloride | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Magnesium Hydroxide | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Magnesium Nitrate | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Magnesium Sulfate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Maleic Acid | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Malic Acid | * | * | * | 1 | NR | * | * | * | 1 | 1 | 1 | 1 | * |
| Manganese Chloride | 1 | * | * | 1 | * | * | * | * | 1 | * | 1 | * | * |
| Manganese Sulfate | * | * | * | 2 | * | * | * | * | 2 | 2 | * | * | * |
| Mercuric Chloride | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * | * |
| Mercuric Cyanide | * | * | * | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 1 | 1 | * |
| Mercurous Nitrate | * | * | * | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 1 | 1 | * |
| Mercury | 1 | 1 | * | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Methane | 1 | * | * | 1 | * | * | * | * | 1 | 1 | 1 | * | * |
| Methanol | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 |
| Methyl Acetate | 1 | * | * | 1 | * | * | * | * | NR | * | * | * | * |
| Methyl Acetone | * | * | * | * | * | * | * | * | NR | * | * | * | * |
| Methyl Amine | * | * | * | 1 | * | * | * | * | NR | * | * | * | * |
| Methyl Bromide | * | * | * | 2 | NR | * | 2 | * | NR | * | NR | * | * |
| Methyl Cellosolve | * | * | * | 2 | * | * | * | * | NR | * | NR | * | * |
| Methyl Chloroform | 2 | NR | * | 2 | * | * | * | * | NR | * | NR | * | * |
| Methyl Chloride Wet | 2 | * | * | 3 | NR | * | NR | * | NR | * | NR | * | * |
| Methyl Chloride Dry | 2 | * | * | NR | * | * | * | * | NR | * | * | * | * |
| Methyl Ethyl Keytone | 1 | * | * | NR | * | * | NR | * | NR | * | NR | * | * |

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|---------------------------|--------------------|------|------------|---------------|------|------|--------------|------|-----|------|------|------|------|
| | 70° | 122° | 170° | 70° | 140° | 180° | 70° | 140° | 70° | 140° | 70° | 170° | 210° |
| Methyl Isobutyl Keytone | NR | * | * | NR | * | * | NR | * | NR | * | NR | NR | * |
| Methyl Salicylate | * | * | * | 1 | * | * | * | * | 1 | * | 1 | * | * |
| Methyl Sulfate | * | * | * | 1 | * | * | NR | * | 1 | NR | 1 | NR | * |
| Methyl Sulfuric Acid | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Methylene Chloride | 2 | * | * | 2 | NR | * | NR | * | 3 | NR | NR | NR | * |
| Milk | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Mineral Oil | 1 | 3 | NR | 2 | 2 | * | NR | NR | 1 | 3 | 1 | 1 | * |
| Mixed Acids | * | * | * | NR | * | * | * | * | 3 | NR | * | * | * |
| Molasses | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * | * | * |
| Morpholine | * | * | * | 2 | 2 | * | * | * | * | * | * | * | * |
| Monochloroacetic Acid | NR | NR | NR | 1 | 1 | * | * | * | 2 | 3 | * | * | * |
| Monochlorobenzene | 2 | NR | * | NR | * | * | NR | * | NR | * | * | * | * |
| Monochlorodifluoromethane | * | * | * | 1 | * | * | * | * | NR | * | * | * | * |
| Monoethanolamine | * | * | * | 1 | 2 | 2 | * | * | NR | * | * | * | * |
| Motor Oil | 1 | * | * | 3 | 3 | * | * | * | 1 | 1 | 1 | 1 | 1 |
| Mustard | * | * | * | 1 | 1 | * | * | * | * | * | * | * | * |
| Naptha | 1 | 1 | NR | 3 | NR | * | 1 | 1 | NR | * | 1 | * | * |
| Naphthalene | 1 | NR | * | 2 | 2 | * | 1 | 1 | NR | * | NR | * | * |
| Nickel Chloride | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Nickel Nitrate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Nickel Sulfate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Nitric Acid (100%) | NR | * | * | NR | NR | NR | NR | * | NR | NR | NR | NR | NR |
| Nitric Acid (70%) | NR | * | * | 3 | NR | NR | NR | * | NR | NR | 2 | NR | NR |
| Nitric Acid (50%) | 1 | * | * | 1 | 2 | NR | 2 | 2 | 1 | 2 | 1 | 3 | NR |
| Nitric Acid (30%) | 1 | 1 | * | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | NR |
| Nitric Acid 10%) | 1 | 1 | * | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | NR |
| Nitrobenzene | 1 | * | * | 2 | NR | * | NR | * | NR | * | NR | * | * |
| Nitrous Oxide | * | * | * | 1 | * | * | * | * | 1 | 3 | 1 | * | * |
| Ocenol | * | * | * | NR | * | * | 2 | NR | 1 | 1 | 1 | 1 | * |
| Oils & Fats | 1 | * | * | 1 | 1 | * | NR | NR | 2 | 2 | 1 | 1 | * |
| Oils, Vegetables | 1 | * | * | 1 | 1 | * | * | * | 1 | 1 | 1 | 1 | * |
| Oleic Acid | 1 | 1 | 3 | 2 | 2 | 2 | 2 | NR | 1 | 1 | 1 | 1 | * |
| Oxalic Acid | 1 | 1 | * | 1 | 1 | * | 1 | 1 | 1 | 3 | 1 | 1 | * |
| Oxygen | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ozone | 2 | 3 | * | 3 | * | * | * | * | 3 | NR | * | * | * |
| Palmitic Acid | * | * | * | 2 | 2 | * | 1 | 1 | 2 | NR | 1 | * | * |
| Paraffin | 1 | * | * | 1 | * | * | * | * | 1 | 1 | * | * | * |
| Pentane | * | * | * | * | * | * | * | * | 3 | * | * | * | * |
| Perchloroethylene | 2 | * | * | NR | * | * | * | * | NR | * | * | * | * |
| Perchloric Acid (10%) | 1 | 1 | * | NR | * | * | * | * | NR | * | NR | * | * |
| Petroleum | 1 | * | * | 2 | * | * | NR | NR | 3 | 3 | * | * | * |
| Petroleum Ether | 1 | NR | * | 1 | 1 | * | NR | * | * | * | * | * | * |
| Phenol | 1 | 3 | * | 1 | NR | * | * | * | NR | * | 1 | * | * |
| Phenol Sulfonic Acid | * | * | * | * | * | * | * | * | 2 | 2 | * | * | * |
| Phenylhydrazine | * | * | * | * | * | * | * | * | NR | * | NR | * | * |
| Phosphoric Acid (10%) | 1 | 1 | Boiling NR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Phosphoric Acid (25%) | 1 | 1 | Boiling NR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Phosphoric Acid (50-100%) | 1 | 1 | Boiling NR | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | * |

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| Phosphorus | 1 | 1 | * | 2 | * | * | * | * | 2 | 3 | * | * | * |
| Phosphorus Trichloride | 1 | 1 | * | NR | * | * | * | * | NR | NR | NR | * | * |
| Phosphorus Pentachloride | * | * | * | 1 | 2 | 2 | * | * | 3 | NR | * | * | * |
| Photographic Solutions | 1 | 1 | * | 1 | 1 | 3 | * | * | 1 | 1 | 1 | 1 | * |
| Phthalic Acid | 1 | 1 | * | 2 | 2 | 2 | * | * | 1 | 1 | * | * | * |
| Picric Acid | * | * | * | * | * | * | * | * | NR | NR | NR | NR | * |
| Plating Solutions Brass | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Plating Solutions Cadmium | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Plating Solutions Chrome | * | * | * | 1 | 2 | 3 | * | * | 2 | 2 | 1 | 1 | 2 |
| Plating Solutions Copper | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | * | 1 | 1 | 1 |
| Plating Solutions Gold | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Plating Solutions Lead | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Plating Solutions Nickel | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Plating Solutions Silver | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Plating Solutions Tin | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| Plating Solutions Zinc | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Potassium Acetate (50%) | 1 | * | * | 1 | * | * | * | * | 1 | 1 | * | * | * |
| Potassium Aluminum Sulfate | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | * |
| Potassium Bicarbonate (60%) | 1 | * | * | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | * |
| Potassium Bichromate (5%) | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Potassium Bromide (10%) | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Potassium Carbonate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Potassium Chlorate | 1 | 1 | * | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | * |
| Potassium Chloride | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Potassium Chromate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Potassium Cyanide | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Potassium Dichromate (5%) | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Potassium Ferricyanide | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Potassium Ferrocyanide | 1 | * | * | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | * |
| Potassium Hydrate | 1 | * | * | * | * | * | * | * | 1 | 2 | * | * | * |
| Potassium Hydroxide | 1 | 1 | 1 | 1 | 1 | * | * | * | 1 | 1 | 1 | 1 | * |
| Potassium Hypochlorite | 2 | * | * | NR | * | * | * | * | 3 | 3 | 1 | 1 | NR |
| Potassium Iodide | 2 | * | * | 1 | 1 | 1 | * | * | 1 | * | 1 | * | * |
| Potassium Nitrate (10%) | 1 | * | * | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | * |
| Potassium Permanganate | 1 | 1 | * | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Potassium Persulfate | 1 | * | * | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Potassium Sulfate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Potassium Sulfide | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * | * | * |
| Potassium Sulfite | 1 | * | * | 1 | 1 | * | 1 | 1 | 2 | 2 | * | * | * |
| Propane | 1 | * | * | 2 | NR | * | * | * | 1 | 2 | 1 | * | * |
| Propyl Alcohol | 1 | 1 | 1 | 1 | 1 | 1 | 2 | NR | 1 | NR | 1 | NR | * |
| Propylene Glycol | * | * | * | 1 | 2 | * | 1 | 1 | 3 | NR | * | * | * |
| Propylene Oxide | * | * | * | 1 | 2 | * | * | * | 3 | NR | * | * | * |
| Pyridine | 1 | * | * | 1 | 1 | * | * | * | NR | * | NR | * | * |
| Pyrogalllic Acid | * | * | * | 1 | * | * | * | * | 3 | * | * | * | * |
| Pyroligneous Acid | 1 | 2 | NR @ 140 | 1 | 2 | * | * | * | 3 | 3 | * | * | * |
| Resorcinol | * | * | * | 1 | 1 | 1 | * | * | 1 | 1 | * | * | * |
| Rosin | 1 | * | * | 1 | 1 | * | * | * | 3 | NR | * | * | * |

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|-----------------------|--------------------|------|------|---------------|------|------|--------------|------|-----|------|------|------|------|
| | 70° | 122° | 170° | 70° | 140° | 180° | 70° | 140° | 70° | 140° | 70° | 170° | 210° |
| Salicylic Acid | * | * | * | 1 | 2 | * | 1 | 1 | NR | * | * | * | * |
| Salicylaldehyde | * | * | * | 1 | 2 | * | * | * | 3 | NR | * | * | * |
| Salt Brine | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sea Water | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sewage | * | * | * | 1 | 1 | 1 | * | * | 1 | 1 | * | * | * |
| Silicon Oil | 1 | * | * | 1 | 1 | * | * | * | 1 | NR | 1 | 1 | * |
| Silver Chloride | * | * | * | 1 | 2 | * | * | * | 1 | 2 | * | * | * |
| Silver Cyanide | 1 | 1 | * | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | * |
| Silver Nitrate | 1 | 1 | * | 1 | 2 | 2 | * | * | 1 | 2 | 1 | 1 | * |
| Soap Solutions | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Acetate (60%) | 1 | 1 | * | 1 | 1 | 1 | * | * | 2 | 3 | 1 | 1 | * |
| Sodium Acid Sulfate | * | * | * | 1 | 1 | 1 | * | * | 1 | 1 | * | * | * |
| Sodium Benzoate (10%) | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Bicarbonate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Bichromate | 1 | 1 | * | 1 | 1 | 2 | * | * | 1 | 2 | * | * | * |
| Sodium Bisulfate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Sodium Bisulfite | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Sodium Borate | 1 | 1 | * | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Bromide | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Carbonate | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Chlorate | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | * |
| Sodium Chromate | * | * | * | 1 | 1 | * | * | * | * | * | * | * | * |
| Sodium Cyanide | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Dichromate | 1 | 1 | * | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | * |
| Sodium Ferricyanide | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Ferrocyanide | * | * | * | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Fluoride | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Hydroxide | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | * |
| Sodium Hypochlorite | 1 | 1 | 1 | 2 | * | * | * | * | 2 | 2 | 1 | 1 | * |
| Sodium Hyposulfite | 1 | 1 | * | * | * | * | * | * | 2 | 2 | * | * | * |
| Sodium Metaphosphate | 1 | * | * | 1 | NR | * | * | * | 2 | 2 | 1 | 1 | * |
| Sodium Nitrate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Nitrite | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Perborate | 1 | * | * | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | * |
| Sodium Peroxide | 1 | 1 | * | 2 | 2 | * | * | * | 2 | * | * | * | * |
| Sodium Phosphates | 1 | 1 | 1 | 1 | 1 | 1 | * | * | 1 | 2 | 1 | 1 | * |
| Sodium Silicate | 1 | * | * | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | * |
| Sodium Sulfate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Sulfide | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Sulfite (90%) | 1 | * | * | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sodium Thiosulfate | 1 | 1 | * | 1 | 1 | 2 | * | * | 1 | 1 | 1 | * | * |
| Sodium Tetraborate | 1 | 1 | 1 | 1 | 1 | 2 | * | * | 1 | 1 | * | * | * |
| Soy Bean Oil | * | * | * | 1 | * | * | * | * | 1 | * | * | * | * |
| Stannic Chloride | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Stannous Chloride | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | * |
| Starch | * | * | * | 1 | 1 | * | * | * | 1 | 1 | * | * | * |
| Stearic Acid | 1 | * | * | 1 | 2 | 3 | 1 | 1 | 1 | 3 | * | * | * |
| Stoddard's Solution | 1 | 3 | * | 1 | NR | * | * | * | NR | * | NR | * | * |

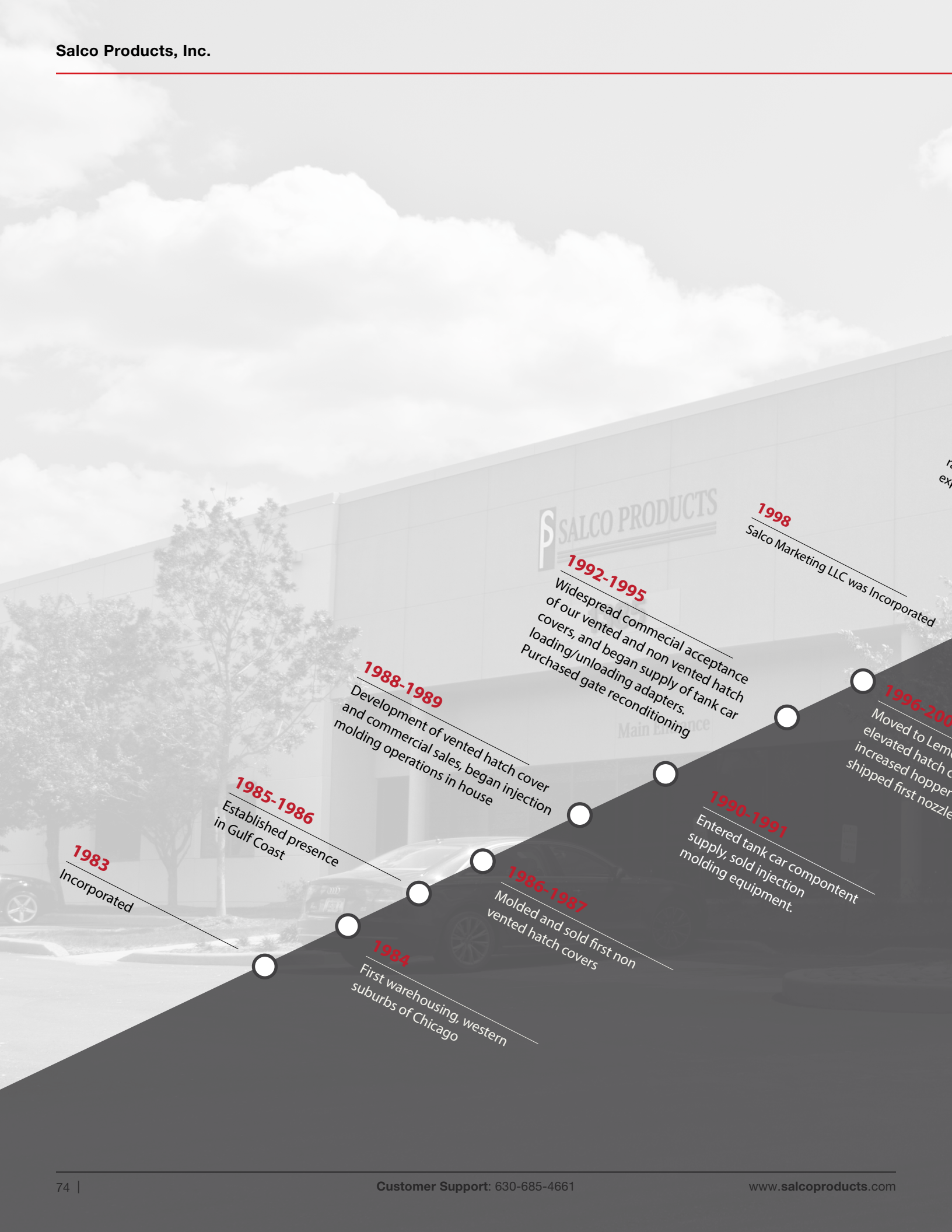
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|--------------------------|--------------------|------|------|---------------|------|------|--------------|------|-----|------|------|------|------|
| | 70° | 122° | 170° | 70° | 140° | 180° | 70° | 140° | 70° | 140° | 70° | 170° | 210° |
| Styrene | * | * | * | * | * | * | * | * | NR | * | * | * | * |
| Sugar Juice | * | * | * | 1 | * | * | * | * | 2 | * | * | * | * |
| Sulfate Liquor | 1 | * | * | 1 | * | * | * | * | 1 | 2 | 1 | 1 | * |
| Sulfinol | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Sulfur | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * | * | * |
| Sulfur (Molten) | NR | NR | NR | NR | * | * | NR | * | NR | * | NR | * | * |
| Sulfur Chloride | * | * | * | NR | * | * | * | * | 3 | NR | 1 | 1 | * |
| Sulfur Dioxide Gas (Wet) | 1 | 1 | * | 1 | 3 | NR | 1 | 1 | NR | * | NR | * | * |
| Sulfur Dioxide Gas (Dry) | 1 | 1 | * | 1 | 3 | * | 1 | 1 | 1 | 1 | 1 | * | * |
| Sulfur Trioxide | * | * | * | NR | * | * | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sulfuric Acid (10%) | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Sulfuric Acid (30%) | 1 | 1 | * | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | * |
| Sulfuric Acid (60%) | 1 | 1 | * | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |
| Sulfuric Acid (80%) | 1 | 3 | * | 1 | 1 | 3 | 2 | 3 | 1 | 2 | 1 | 1 | 2 |
| Sulfuric Acid (100%) | 1 | NR | * | 3 | NR | NR | NR | NR | NR | NR | NR | * | * |
| Sulfurous Acid (10%) | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Tall Oil | * | * | * | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | 1 |
| Tannic Acid | 1 | 1 | * | 1 | 1 | 1 | * | * | 1 | 1 | 1 | 1 | 1 |
| Tanning Liquor | 1 | * | * | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Taritar Oil | * | * | * | 1 | * | * | * | * | NR | * | * | * | * |
| Tartaric Acid (10%) | 1 | * | * | 1 | 1 | 1 | NR | * | 1 | 2 | 1 | 1 | * |
| Tetrachloroacetic Acid | * | * | * | * | * | * | * | * | NR | * | * | * | * |
| Terachloroethane | * | * | * | NR | * | * | * | * | NR | * | * | * | * |
| Tetrachloroethylene | 2 | * | * | NR | * | * | * | * | NR | * | * | * | * |
| Tetraethyl Lead | * | * | * | 2 | NR | * | * | * | 2 | NR | 1 | * | * |
| Tetrahydrofuran | 2 | * | * | 3 | NR | * | NR | * | NR | * | NR | * | * |
| Tetrahydronaphthalene | 1 | * | * | 3 | NR | * | * | * | * | * | * | * | * |
| Tetraphosphoric Acid | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Thionyl Chloride | 3 | * | * | NR | * | * | NR | * | NR | * | NR | * | * |
| Tin Tetrachloride | 1 | * | * | 1 | 1 | 1 | * | * | 2 | 2 | * | * | * |
| Titanium Tetrachloride | * | * | * | NR | * | * | * | * | NR | * | NR | * | * |
| Toluene | 1 | 3 | NR | NR | * | * | NR | * | NR | * | NR | * | * |
| Tomato Juice | 1 | * | * | 1 | 1 | 1 | * | * | 1 | * | 1 | 1 | * |
| Tributyl Citrate | * | * | * | 2 | 3 | * | * | * | 3 | NR | * | * | * |
| Tributyl Phosphate | * | * | * | 2 | NR | * | * | * | NR | * | NR | * | * |
| Transformer Oil | 1 | 1 | * | 1 | NR | * | * | * | NR | * | 1 | 1 | * |
| Trichloroacetic Acid | * | * | * | 2 | 2 | NR | * | * | NR | * | 1 | * | * |
| Trichloroethane | 3 | NR | * | NR | * | * | * | * | NR | * | * | * | * |
| Trichloroethylene | NR | * | * | 3 | NR | * | NR | * | NR | * | NR | * | * |
| Trichlorotrifluoroethane | * | * | * | 1 | * | * | * | * | NR | * | * | * | * |
| Tricresyl Phosphate | 1 | * | * | 1 | 2 | NR | * | * | NR | * | * | * | * |
| Triethanolamine | 1 | * | * | NR | * | * | NR | * | NR | * | NR | * | * |
| Triethylamine | * | * | * | NR | * | * | * | * | 1 | 3 | 1 | * | * |
| Triethylene Glycol | * | * | * | 1 | * | * | * | * | 2 | 3 | * | * | * |
| Trisodium Phosphate | 1 | 1 | * | * | * | * | * | * | * | * | * | * | * |
| Tripolyene Glycol | * | * | * | 1 | * | * | * | * | 2 | * | * | * | * |
| Trisodium Phosphate | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Tung Oil | * | * | * | 1 | * | * | * | * | 2 | 2 | * | * | * |

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| Turpentine | 1 | 3 | NR | 2 | NR | * | NR | * | 2 | 3 | 1 | * | * |
| Undecanol | * | * | * | 2 | NR | * | * | * | 1 | 3 | * | * | * |
| Urea | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 2 | NR | 1 | 1 | * |
| Urine | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Varnish | 1 | * | * | 1 | * | * | * | * | NR | * | * | * | * |
| Vinegar | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Vinyl Acetate | * | * | * | 2 | NR | * | 2 | NR | NR | * | NR | * | * |
| Vinyl Chloride | 1 | NR | * | * | * | * | * | * | NR | * | * | * | * |
| Vinylidene Chloride | * | * | * | NR | * | * | * | * | NR | * | * | * | * |
| Water, Fresh | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Water, Acid Mine | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | NR |
| Water, Distilled | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Water, Deionized | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Water, Demineralized | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Water, Salt | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Whiskey | 1 | * | * | 1 | 1 | 1 | 1 | * | 1 | 1 | 1 | 1 | * |
| White Liquor | NR | * | * | 1 | 1 | * | * | * | 1 | 1 | 1 | 1 | * |
| White Spirit | 1 | 3 | * | 1 | 1 | 1 | * | * | 1 | 1 | * | * | * |
| Wine | 1 | 1 | 1 to 160 | 1 | 1 | 1 | 1 | * | 1 | 1 | 1 | 1 | * |
| Xylene | 3 | NR | * | NR | * | * | NR | * | NR | * | NR | * | * |
| Zinc Chloride | 1 | 1 | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Zinc Cyanide | * | * | * | 1 | 1 | 1 | * | * | 1 | 1 | * | * | * |
| Zinc Molten | NR | NR | NR | NR | * | * | NR | * | NR | * | NR | * | * |
| Zinc Nitrate | * | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | * |
| Zinc Stearate | * | * | * | 1 | * | * | * | * | 1 | 2 | * | * | * |
| Zinc Sulfate | 1 | * | * | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

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1983
Incorporated

1985-1986
Established presence
in Gulf Coast

1988-1989
Development of vented hatch cover
and commercial sales, began injection
molding operations in house

1984
First warehousing, western
suburbs of Chicago

1986-1987
Molded and sold first non
vented hatch covers

1992-1995
Widespread commercial acceptance
of our vented and non vented hatch
covers, and began supply of tank car
loading/unloading adapters.
Purchased gate reconditioning

1990-1991
Entered tank car component
supply, sold injection
molding equipment.

1998
Salco Marketing LLC was Incorporated

1996-2000
Moved to Lemont, IL
elevated hatch covers
increased hopper
shipped first nozzle





COMMITTED TO INNOVATION

CORPORATE OFFICE 1385 101st Street, Suite A / Lemont, IL 60439

SALES (630) 783-2570

DISTRIBUTION/GATE REPAIR (281) 351-0274

FAX (630) 783-2590

WEBSITE www.salcoproducts.com

The most current revision of this information can be found on our website at www.salcoproducts.com and supersedes all other versions. Please check the revision date information of any printed materials to ensure the most current information is being referenced.



Document Reference: Rev. A 07/19