

# Plumbing Components

- Controls
- Drains
- Piping
- Flanges
- Couplings
- Caps and Plugs



**IDEX**  
IDEX CORPORATION

**Class 1**®

# Plumbing Components

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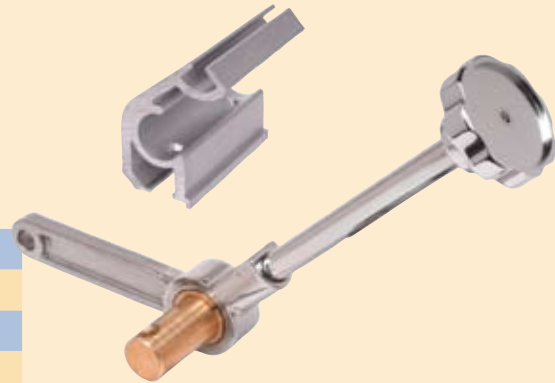
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## Locking Top Mount Control

The Locking Top Mount Control allows for a more compact and cleaner pump panel while reducing installation time and material cost.

### FEATURES

- Locks in any position
- No slots in the pump panel (eliminates road grime)
- Built-in pump panel hinge
- Frees up panel space
- Recessed area in handle for round ID tag



Part Number	Description
100984	Top mount control assembly - straight
101005	Top mount control assembly - angled
100983	Center fill extrusion (48" long)
101923	1-1/2" arm extension

## Locking Push-Pull Control

The Class 1 Locking Push-Pull Control handles valve actuation.

### FEATURES

- Recessed area in handle for 1" x 3" ID tags
- Polished chrome plated zinc handle and panel plate
- Quarter turn locking in any position
- Hard coated anodized aluminum 3/4 rod
- Aluminum linkage connector or brass ball swivel connector
- Custom length rods available



Part Number	Description
100348	Locking push-pull control assembly
100348-S	Locking push-pull control assembly w/ball swivel
100348-SF	Locking push-pull control assembly w/ball swivel - female end

*Custom lengths available*

## Control Rod Assemblies

Class 1 Control Rod Assemblies are made with galvanized pipe with 1/2-20 threaded inserts. Class 1 control rods are available in 1/2" increments starting at 6" up to 55". Longer sizes are available.

*Contact Class 1 for part numbers*



## Test Port Assembly

Ease of installation and simplicity of design make this test port assembly the best option for multiple tasks behind the panel. Each port has one front 1/4" NPT port, one back 1/4" NPT port, and two 1/4" DOT push-on fittings. The ports behind the panel are perfect for mounting pressure transducers. This assembly is made of brass with a chrome plated bezel. The identification tag is included.



Part Number	Description
115100	Test Port Assembly



# Plumbing Components

## Gauge Test Plug

Gauge Test Plug is available in nickel plated brass with a 1/4" NPT front port and 1/8" NPT back port.



Part Number	Description
102709	Gauge Test Plug (Nickel Plated Brass)

## Push-Pull Handle

Push-Pull Handle is for valve actuation control. The T-handle is specially designed to fit the hand with a recessed area for 1" x 3" ID tags. The T-handle is made of cast zinc and finished with polished chrome for panel enhancement. T-Handles are available for 3/4" rods and 1/2" rods.

Part Number	Description
100294	T-Handle 3/4" rod
100295	T-Handle 1/2" rod

## Tag Adapter/Bezel & Adapter Bushing

The Class 1 Adapter/Bezel adapts 1" x 3" recessed tag areas for push-pull T-handles, 1/4 turn ball valve bleeders to fit 3/4" x 2-1/2" tags. The adapter/bezel also can be used for stand alone mounting of 3/4" x 2-1/2" tags. The tag adapter bezel is made of cast zinc and finished with polished chrome for tag enhancement. The adapter/bezel mounts with double stick tape or two (2) counter sunk screws. The adapter bushing is a stainless steel bushing to adapt the 3/4" rod T-handle to a 3/8" - 24 threaded rod with a 3/16" roll pin.



Tag adapter/bezel

Part Number	Description
100170	Adapter/Bezel
100384	Bushing 3/8" - 24 Threaded

## Automatic Master Drain

The new Automatic Master Drain has six individually sealed ports. The drain is normally open and is closed with air pressure. The master drain can be activated with an air switch for manual control or tied into an air operated pump shift for automatic control.

- All brass construction with stainless steel spring
- Six individually sealed ports
- 100 psi air pressure will hold 600 psi of water pressure
- Can be operated manually or automatically



Part Number	Description
103005	Master Drain
104031	Air Switch

## Manual Master Drain

Manual Master Drain has twelve individually sealed ports that allow quick draining of multiple intake and discharge lines. The all brass and stainless steel construction allows for operation up to 600 psi.



Part Number	Description
107370	Manual Master Drain, 12 Port
104961	Manual Master Drain, 6 Port

## 3/4" Automatic Drain

The Automatic Drain is normally open and closes at 6 PSI. It can be mounted in the discharge line true low spot under the truck. Great for deck guns, crosslays and front or rear jump lines.

### FEATURES

- All brass body
- Normally open - closes at 6 PSI
- Heavy duty neoprene seal
- All brass check assembly with stainless steel spring
- 3/4" female NPT inlet



Part Number	Description
34AD	3/4" Automatic Drain

## 3/4" Lift Handle Drain

Part Number	Description
115639	3/4" Lift Handle Drain



## Ball Valve Drains

### FEATURES

- Nickel plated brass
- Round or rectangular handle available
- Reinforced Teflon<sup>®</sup> seals
- Chrome plated handle
- Recessed area for 1" x 3" ID tags or round tags
- Meets NFPA specifications

Part Number	Description
14BV	1/4" Ball Valve
38BV	3/8" Ball Valve
12BV	1/2" Ball Valve
34BV	3/4" Ball Valve
10BV	1" Ball Valve - all brass
14BVR	1/4" Ball Valve round handle
38BVR	3/8" Ball Valve round handle
12BVR	1/2" Ball Valve round handle
34BVR	3/4" Ball Valve round handle
10BVR	1" Ball Valve round handle



Contact Class 1 for information on custom assemblies

## Petcock Valve

Class 1's Petcock Valve is an all brass assembly with a tag recess area in the chrome plated zinc handle. The petcock valve has 1/4" ports and is great for engine coolers, pump coolers and air valves.

Part Number	Description
105120	Petcock Valve



# Plumbing Components

## 3/4" 90° Ball Valve Drain

### FEATURES

- Nickel plated brass
- Reinforced Teflon® seals
- Chrome plated round or rectangular handle
- Recessed area for 1" x 3" ID tags
- Meets NFPA specifications
- Built-in 90° elbow and tap for gauge sensing line

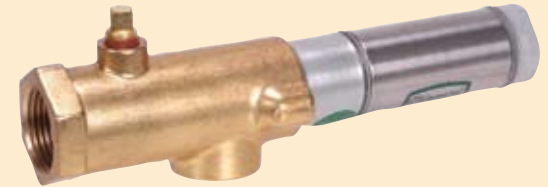


Part Number	Description
34BV90	3/4" Ball Valve w/90° elbow
34BV90R	3/4" Ball Valve w/round handle

## 3/4" Air Operated Drain

### FEATURES

- Brass body
- 1-1/4" bore air cylinder
- 3/4" female NPT inlet



Part Number	Description
110527	3/4" Air Operated Drain

## High Pressure Flexible Piping

### FEATURES

- High strength
- Flexible
- Easy to install
- Choice of couplings
- Economical
- Abrasive resistant
- Ozone resistant

Dimensions (inches)		Working Pressure	Min. Bend Radius	Wt./Ft. (lbs)
I.D.	O.D.			
.75"	1.03"	250#	4"	.25
1.0"	1.50"	250#	4"	.25
1.5"	2.063"	300#	6"	.92
2"	2.563"	300#	8"	1.18
2.5"	3.188"	300#	10"	1.710
3"	3.688"	300#	12"	2.06
4"	4.844"	300#	16"	3.30
5"	5.750"	250#	34"	4.11



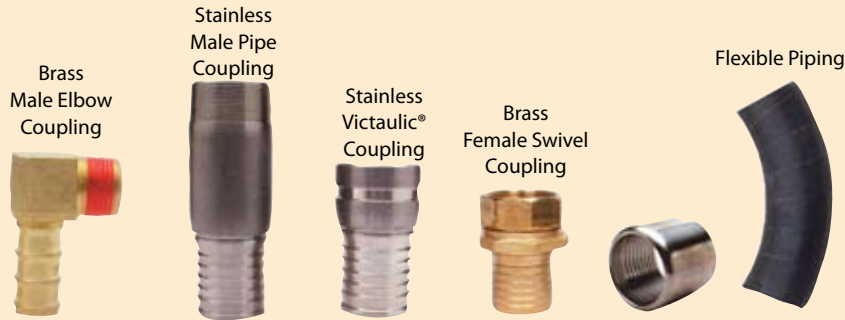
### Specifications

**FLEXIBLE PIPING** — Black synthetic rubber hose with 300# working and 1200# burst pressure for sizes 1.5" through 4" flexible piping. Sizes 3/4", 1" and 5" are rated at 250 working and 1000# burst pressure. All sizes are rated at 30 HG vacuum. Reinforcement consists of two plies of high tensile strength tire cord for all sizes and helix wire installed in sizes 1" through 5" for maximum performance in tight bend applications. The material comes in 100' lengths and has a temperature rating of -40° F to 210° F.

**COUPLINGS** — Full flow couplings are precision machined from high tensile strength stainless steel. All female couplings are brass. 3" and 1" male and Victaulic® couplings are brass.

**FERRULE** — High tensile strength stainless steel ferrule with serrations on the I.D. to assure maximum holding power.

## Non-Assembled High Pressure Flexible Piping & Couplings



Size (I.D.)	EC	MC	VC	FC	FE	FP ft.in.
3/4"	34 EC Push on Brass	34 MC Push on Brass	N/A	N/A	N/A	34 FP'/"
1"	N/A	10 MCS	10 VCS	N/A	10 FES	10 FP'/"
1.5"	N/A	15 MC	15 VC	15 FC Brass	15 FE	15 FP'/"
2.0"	N/A	20 MC	20 VC	20 FC Brass	20 FE	20 FP'/"
2.5"	N/A	25 MC	25 VC	25 FC Brass	25 FE	25 FP'/"
3"	N/A	30 MC	30 VC	30 FC Brass	30 FE	30 FP'/"
4"	N/A	40 MC	40 VC	N/A	40 FE	40 FP'/"
5"	N/A	N/A	50 VC	N/A	50 FE	50 FP'/"

*For customers with Class 1 hose coupling machines*

## Assembled High Pressure Flexible Piping

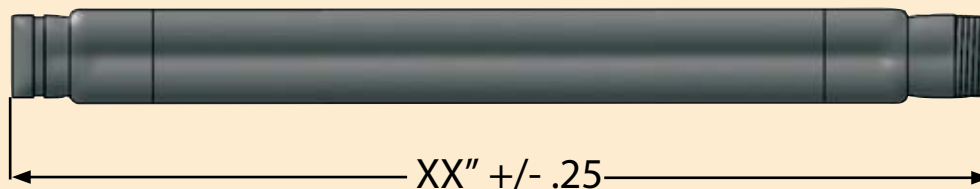
**Class 1 can quickly and easily build your custom pipe assemblies for construction or replacement hose needs.**

To order a custom built high pressure hose assembly:

1. Determine the diameter of the hose required;
2. Determine the couplings required;
3. Determine the overall length of the engine hose assembly tip to tip.

Example: 2.5" hose, female end by Vicatulic end, 44" overall length.  
Class 1 will assemble your hose with a tolerance of +/- 1/4".

Most hoses can be built and shipped within 24 hours of receipt of your purchase order.



# Plumbing Components

## HFP Piping Accessories

Part Number	Description
34D	3/4" stainless coupling
SFM	Stainless flowminder transmitter mounting socket
154B	Stainless base bracket - fits 1-1/2" through 4"
20AB	Aluminum 2 piece bracket - fits 2"
225SB	Aluminum 2 piece bracket - fits 2-1/2"



#SFM - Stainless Flowminder Transmitter Mounting Socket

## Stainless Steel Swivels

Stainless steel swivels are available in several different configurations to best fit your application. Each swivel assembly has a 2" Victaulic pipe end and a 1-1/2" male NST end.

### FEATURES

- Specially designed elbow that reduces friction loss
- All stainless steel construction
- Optional stainless steel brackets for mounting
- Polished swivel end standard



Shortneck Swivel



Longneck Swivel

Part Number	Description
102958	90° swivel
102957	Straight swivel
102959	45° swivel
103791	90° long swivel
103787	Straight long swivel
103789	45° long swivel
104828	1-1/2" NST bumper swivel w 90° elbow
104289	1-1/2" NST bumper swivel w 90° elbow and 3/4" drain trap
104831	2-1/2" NST bumper swivel w 90° elbow
104346	1-1/2" NST bumper swivel w 90° elbow and 3/4" drain trap
107898	Suction elbow with 5" Victaulic® base - 5" NST
107899	Suction elbow with 5" Victaulic® base - 6" NST
109784	5" zero-flex Victaulic® clamp

Other configurations available. Call Class 1 for part numbers for 2" and 2-1/2" straight flange swivels; 2-1/2" swivel assemblies; and 2" and 2-1/2" front bumper assemblies.



## Grooved End Pipe Couplings

Victaulic Style 75 — The Style 75 is recommended for piping applications involving moderate pressure and external stresses. It is suitable for many applications in industrial plants, OEM, HVAC and utility piping systems.

P10515W	1-1/2"
P10520W	2"
P10525W	2-1/2"
P10530W	3"
P10540W	4"
P10550W	5"
P10560W	6"



Victaulic style 75 coupling

Working pressures are based on hydrostatic tests with no external load using standard weight cut or roll grooved steel pipe.

### Specifications

Housing — Malleable iron ASTM A 47 or ductile iron ASTM A 536

Bolts — Oval neck track bolts and heavy hex nuts per ANSI B18.10 and B18.22. Minimum tensile 110,000 psi ASTM A 183.

Gasket — EPDM

Finish — Prime painted

## Chrome Plated Bezels for Class 1 Gauges



Part Number	Description
105546	Chrome Bezel Plate - 3.5"
105548	Chrome Bezel Plate - 2.5"
106030	Black Corner Tag

Contact Class 1 for information on corner tag colors

# Plumbing Components

## Air Operated Valve Cylinder

### Air Operated Valve Cylinder & Bracket

Bracket Part Number	90° Bracket Part Number	Air Cylinder Part Number	For Hale 800 Series SVS Valves, Akron 7600 & 7800 Series Valves	For Mounting Air Cylinder & Trunnion
10BRK	100386	320600	1"	1.25 x 6.0 air cylinder
15BRK	15BRK90	400550	1-1/2"	1.50 x 5.5 air cylinder
20BRK	20BRK90	400550	2"	1.50 x 5.5 air cylinder
25BRK	25BRK90	400550	2-1/2"	1.50 x 5.5 air cylinder
30BRK	30BRK90	630550	3"	2.50 x 5.5 air cylinder



*Air Operated Valve Cylinder*



*Air Operated Valve Cylinder Bracket*

















#### Specifications

**Air Cylinder** — The cylinders are fabricated using aluminum head and tube body. The piston is hard chrome plated steel. The cylinder includes the front trunnion mount and clevis for mounting to the bracket and valve.

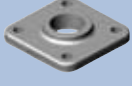






**Bracket** — The 1" through 2-1/2" brackets are fabricated from 1/8" hot rolled steel and the 3" bracket is fabricated from 3-1/8" hot rolled steel. The brackets are precision punched and formed from trunnion mounting plates. Two 7/8" O.D. steel mounting pads are welded to the bracket for mounting to the valve.

**Finish** — The brackets are cleaned and finished with a black epoxy powder coating.





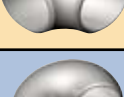

## 115 4-Bolt Flanges

<b>104209</b> 115 Flange/2.5" Weld	
<b>104210</b> 115 Flange/3" Weld	
<b>104302</b> 115 Flange/2" Weld	
<b>105289</b> 115 Flange/4" Cope	
<b>105326</b> 115 Flange/2.5" VIC	
<b>105810</b> 115 Flange/2" VIC	
<b>105811</b> 115 Flange/3" VIC	
<b>109816</b> 115 Blank Flange/3" Weld	
<b>109972</b> 115 Flange/6" Cope	
<b>110076</b> 115 Flange/2.5" MNPT	
<b>110489</b> 115 Flange/3" MNPT	
<b>110574</b> 115 Blank Flange	
<b>110616</b> 115 Flange/6" MNPT	
<b>111892</b> 115 Flange/2.5" FNPT	
<b>113081</b> 2X 115 Flange 2.5" 90° Elbow	
<b>113386</b> 115 Flange Plate	

## 115 4-Bolt Flanges

<b>113640 (1.0" Thick)</b> 115 Flange Plate 1X O-Ring/Spacer	
<b>114130</b> 115 Flange/1.25" FNPT	
<b>114131</b> 115 Flange/3" FNPT	
<b>114491</b> 2X 115 Flange 1.5" Offset/4" Length	
<b>114891 (7/16" Thick)</b> 115 Flange/3" ID 2X O-Ring	
<b>115184</b> 2X 15 Flange/2.5" ID 2.5" Height/1X O-Ring Flowminder Port	
<b>115795 (2.5" Thick)</b> 2X 115 Flange 2X O-Ring	

## Weld/VIC Fittings













<b>106892</b> 3" Weld Cap	
<b>106942</b> 2" Weld Cap	
<b>110119</b> 3" VIC/3" Open 2" Open/2.5" Closed 12.25" Length	
<b>110671</b> 2" Weld 3/4" FNPT/90° Elbow	
<b>110672</b> 2" Weld 180° Elbow	
<b>112062</b> 2.5" MNPT/2.5" Vic 90° Elbow	

Unless otherwise noted: 2" and 2.5" flanges fit Hale, Akron, and Elkhart Valves; 3" flanges fit only Hale and Akron Valves









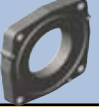



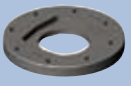
# Plumbing Components

## Flanges/Manifolds & Fittings

### Weld/VIC Fittings

<b>113064</b> 4" Weld Cope/2" ID 1.25" FNPT Anode	
<b>113080</b> 2" Weld 45° Elbow	
<b>113443</b> 3" VIC Cap	
<b>114000</b> 2" Weld/90° Elbow 6" x 6"	
<b>114066</b> 3" Weld/3" MNPT 3.25" Length Deck Gun Pipe	
<b>114390</b> 2.5" Weld/2.5" VIC 3.5" x 3.5"	
<b>114396 - 6" Long</b> 3" Weld/3" Open 2.5" Open/6" Length	
<b>114397</b> 3" VIC/3" VIC 2" Open/2" Closed 6" Length	
<b>114406</b> 3" Weld/3" Blank 2.5" Weld/6.7" Length	
<b>114536</b> 2.5" VIC 3 x 3 Elbow/90° Elbow	
<b>114537</b> 2" VIC 3 x 3 Elbow/90° Elbow	
<b>115025</b> 2.5" Weld/90° Elbow 8.75" x 3.75"	
<b>115744</b> 3" VIC 4" Cope	
<b>115799</b> 3" VIC/6" Cope 90° Elbow 5.13" VIC to Cope Centerline	


















### 4" Discharge Manifold System

<b>108754</b> 2X 4" Valve Flange 2.5" Open/2.5" Closed 3" Closed	
<b>108755</b> 2X 4" Valve Flange 4.5" Open/2.5" Closed 3" Closed	
<b>108756</b> 2X 4" Valve Flange 2X 3" Closed/1" Open 0° Offset	
<b>108757</b> 2X 4" Valve Flange 2X 3" Closed/3" Open 0° Offset	
<b>108758</b> 3X 4" Valve Flange 3X 3" Closed/0° Offset	
<b>108798</b> 2X 4" Valve Flange 2X 3" Closed/1" Open 4° Offset	
<b>108799</b> 2X 4" Valve Flange Sm Hale Pump Flange 3X 3" Closed/4° Offset	
<b>108827</b> 4" Manifolder End Cap	
<b>110132</b> 3" to 4" Valve Flange Adapter	
<b>112076</b> (Casting P/N 110120) 4" Valve Flange Check Valve	
<b>112077</b> (Casting P/N 110153) 2x 4" Valve Flange Flowminder Port <sup>3/4</sup> " FNPT Check Valve	
<b>112078</b> (Casting P/N 110154) 2X 4" Valve Flange 3" Check Valve/1.25" FNPT 2X O-Ring	
<b>115341</b> (0.94" Thick) 8-bolt w 3.75" ID 4" Valve Flange Recess	

















Unless otherwise noted: 2" and 2.5" flanges fit Hale, Akron, and Elkhart Valves; 3" Flanges fit only Hale and Akron Valves



## Valve Flanges

<b>104301</b> 1" Valve Flange/1" Weld Hale/AK/ELK	
<b>104316</b> 3" Elkhart Flange/3" Weld	
<b>108956</b> 4" Hale Flange/4" Weld 3/4" NPT	
<b>109277</b> Hale 4" Flange/4" Weld 3/4" NPT	
<b>110066</b> 2.5" Valve Flange 6" Coped Weld	
<b>110156</b> 4" Valve Flange/4" Weld 3/4" NPT/AK/ELK only	
<b>110157</b> 4" Valve Flange/4" Weld Flowminder port/AK/ELK only	
<b>111069</b> - for 72" Panel 2.5" Valve/115 Flange	
<b>111070</b> - for 72" Panel 3" Valve/115 Flange	
<b>111071</b> - for 72" Panel 2.5" Valve/115 Flange	
<b>112381</b> 1.5" Valve Flange/1.5" Weld	
<b>112382</b> 2" Valve Flange/2" Weld	
<b>112383</b> 2.5" Valve Flange/2.5" Weld	
<b>112384</b> 3" Valve Flange/3" Weld	
<b>112391</b> 1.5" Valve Flange/1.5" Weld 1/4" NPT	
<b>112392</b> 2" Valve Flange/2" Weld 3/4" NPT	
<b>112393</b> 2.5" Valve Flange/2.5" Weld 3/4" NPT	
<b>112394</b> 3" Valve Flange/3" Weld 3/4" NPT	

## Valve Flanges





<b>112404</b> 2" Valve Flange/2" VIC Flowminder Port	
<b>112405</b> 2.5" Valve Flange/2.5" VIC Flowminder Port	
<b>112406</b> 3" Valve Flange/3" VIC Flowminder Port	
<b>112408</b> 2.5" Valve Flange/115 Flange 2.5" Height	
<b>113214</b> (Casting P/N 112351) 2X 2" Valve Flange 2X 1/4" NPT/Check Valve	
<b>113215</b> (Casting P/N 112352) 2X 2.5" Valve Flange 2X 1/4" NPT/Check Valve	
<b>113216</b> (Casting P/N 112353) 2X 3" Valve Flange 2X 1/4" NPT/Check Valve	
<b>113270</b> 1.5" Valve Flange/115 Flange 3.75" Length	
<b>113271</b> 2" Valve Flange/115 Flange 3.75" Length	
<b>113637</b> - for 70" panel 2.5" Valve Flange/115 Flange	
<b>113638</b> - for 70" panel 3" Valve Flange/115 Flange	
<b>113639</b> 2.5" Valve Spacer 1" Thick	
<b>113641</b> - for 70" panel 2.5" Valve Flange/115 Flange 90° Elbow	
<b>114408</b> 3" Valve Flange/4" Weld 3/4" FNPT	
<b>114471</b> 3" Valve Flange/4" NH 3/4" FNPT	
<b>114490</b> - for 72" panel 2.5" Valve Flange/115 Flange 3" Droop/90° Elbow	

Flanges/Manifolds & Fittings

# Plumbing Components

## Flanges/Manifolds & Fittings

### Valve Flanges


















<b>115218</b> 3" Valve Flange/3" VIC 45° Elbow/3/4" FNPT	
<b>115219</b> 3" Valve Flange/3" VIC 90° Elbow/3/4" FNPT	
<b>115220</b> 2.5" Valve Flange/2.5" VIC 45° Elbow/3/4" FNPT	
<b>115221</b> 2.5 Valve Flange/2.5" VIC 90° Elbow/3/4" FNPT	
<b>115222</b> 2" Valve Flange/2" VIC 45° Elbow/3/4" FNPT	
<b>115223</b> 2" Valve Flange/2" VIC 90° Elbow/3/4" FNPT	
<b>115429</b> 2.5" Valve Spacer/ .25" Thick	
<b>115547</b> (Casting P/N 109939) 2.5" Valve Flange/Swivel 2X 3/4" FNPT	
<b>115918 (0.88" Thick)</b> <b>8-Bolt (2433) to 12-Bolt 4"</b> <b>Valve Adapter</b>	
<b>115915 (0.56" Thick)</b> 4" Valve spacer (use with 115918) 1/8" NPT Grease Port	
<b>115917 (8.25" Length)</b> 12 Bolt/4" NH/3/4" FNPT No provisions for intake relief valve Use with 115918 & 115915	
<b>115961</b> 2.5" Valve Flange/2.5" VIC 90° Elbow/3/4" FNPT 8.25" Flange to VIC centerline	
<b>115596</b> (Base P/N 044-1771-11-0) 2.5" Valve Flange/2.5" NH 45° Elbow/3/4" FNPT Cut 2.5" from flange base	
<b>115984</b> (Base P/N 044-1771-09-0) 2.5" Valve Flange/2.5" NH 3/4" FNPT Cut 2.5" from flange base	
<b>044-1750-06-0</b> 1.5" Valve Flange/.5" NH	

### Valve Flanges

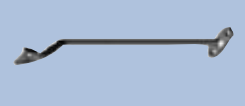

<b>044-1751-02-0</b> 1.5" Valve Flange 1.5" FNPT	
<b>044-1761-02-0</b> 2" Valve Flange/2" FNPT	
<b>044-1770-13-0</b> 2.5" Valve Flange/2.5" NH 3/4" FNPT	
<b>044-1771-02-0</b> 2.5" Valve Flange .5" FNPT	
<b>044-1771-09-0</b> 2.5" Valve Flange/2.5" NH 3/4" FNPT	
<b>044-1771-11-0</b> 2.5" Valve Flange/2.5" NH Droop/3/4" FNPT	
<b>044-1771-12-0</b> 2.5" Valve Flange/Swivel 3/4" FNPT	
<b>044-1780-07-0</b> 3" Valve Flange Hose Connect 3.5" OD	
<b>044-1780-14-0</b> 3" Valve Flange/3" FNPT	
<b>044-1781-02-0</b> 3" Valve Flange/3" FNPT	
<b>044-1781-11-0</b> 3" Valve Flange/Swivel 3/4" FNPT	
<b>044-1781-09-0</b> 3" Valve Flange/3" NH 3/4" FNPT	
<b>044-1781-12-0</b> 3" Valve Flange/3" NH Droop/3/4" FNPT	
<b>825-2600-00-0</b> 2.5" Valve Flange/Suction with cover/3/4" FNPT	
<b>826-7100-00-0</b> (Base P/N 114036) 2.5" Valve Flange/swivel 3/4" FNPT	
<b>830-2600-00-0</b> 3" Valve Flange/Suction with cover/3/4" FNPT	

Unless otherwise noted: 2" and 2.5" flanges fit Hale, Akron, and Elkhart Valves; 3" Flanges fit only Hale and Akron Valves



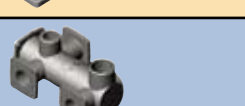




## Portable Manifolds

<b>108985</b> 115 Flange/115 Flange 1" Valve/1.5" Valve	
<b>108986</b> 2.5" Valve/3" Valve/4" VIC	
<b>109646</b> 1" Valve/1.5" Valve/3" VIC	
<b>110506</b> 115 Flange/115 Flange 1" Valve/3" VIC	
<b>111647</b> 115 Flange/2" closed 1" Valve/3" VIC	
<b>111648</b> 115 Flange/2" closed 1" Valve/2.5" VIC	
<b>111650</b> 115 Flange/1" Valve 2" VIC/2" closed	
<b>111687</b> 1.5" Weld/90° Elbow 2.9" x 2.9"/1/4" - 20 UNC	
<b>111715 - Adapter</b> 2" MNPT/2.5" VIC	
<b>111841</b> 2" Valve/2.5" open 2.5" VIC/1/4" Drain	
<b>112075 (Casting P/N 111649)</b> 115 Flange/1.5" MNPT 1/4" FNPT & Check Valve	
<b>115437</b> 1" Valve Flange/1" NH	
<b>115453 (use with 115489)</b> 1.5" Valve Flange 2X 2" Closed/2X 2" Open 5.5" bottom to flange centerline	
<b>115489 (use with 115453)</b> 1" Valve Flange/2" Weld 90° Elbow/5" x 2.75"	
<b>115553</b> 3/4" - 11.5 NP ANSI 3/4" Open/0.75" ID	
<b>115560</b> 1.5" Valve Flange/1.5" NH 1/8" FNPT	
<b>115570</b> Manifold Support Bracket 200-400 Portable Pumps	





## Portable Manifolds

<b>115571</b> Manifold Support Bracket 75-100 Portable Pumps	
<b>115579</b> 1.5" Valve Flange 2X 2" Closed/3X 2" Open 8" Bottom to flange centerline	

## AP/MBP Discharge Manifolds

<b>112552</b> (9X) 2.5" Closed 3" VIC/(2X) 2.5" Open 4.5" OD Open	
<b>112553</b> 4.53 ID AP Pump Flange	
<b>114900 - AP Hale Flange x 4°</b> 3" Valve Flange/3" Open 3X 2.5" Valve Flange/2.5" Open 3/4" FNPT/2" Open	
<b>114901</b> 3" Valve Flange/2.5" Open 2X 2" Valve Flange 1" FNPT/1/8" FNPT	
<b>115340 (0.94" Height)</b> 8-Bolt Flange/4.52" ID 4" AP50 Flange Recess	
<b>115734</b> 3" Valve flange/4" Closed 3X 2.5" Valve Flange 3.5" Open/2X 3" Open 2" Open/1/4" FNPT	
<b>115737 (11.38" Height)</b> AP50 Flange 4" OD/3.65" ID	

## Midship Discharge Manifolds

<b>113275</b> 3" VIC/3" Closed 2" Closed 115 Flange	
<b>113342</b> 115 Flange 3" VIC	
<b>113343</b> 115 Flange 3" Weld	
<b>113344</b> 115 Flange 3" Weld/2" Open 2" Open	









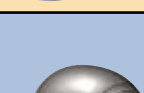
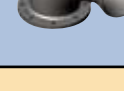

Flanges/Manifolds & Fittings

Unless otherwise noted: 2" and 2.5" flanges fit Hale, Akron, and Elkhart Valves; 3" Flanges fit only Hale and Akron Valves















# Plumbing Components

## Flanges/Manifolds & Fittings

### 2433 8-Bolt Flange














<b>104317</b> 3" 8 Bolt Hale/Waterous 3" Weld	
<b>105812</b> 3" 8 Bolt Hale/Waterous 3" VIC	
<b>109433</b> 8 Bolt	
<b>110155</b> 8 Bolt/4" Weld	
<b>112407</b> 8-Bolt/3" Valve Flange 2.5" Length	
<b>113272</b> 8-Bolt/3" Valve Flange 2.5" Length	
<b>113273</b> 8-Bolt/3" Valve Flange 4° Offset	
<b>113274</b> 8-Bolt/3" Valve Flange 3" Offset/4° Offset	
<b>114812</b> 8-Bolt/3" Valve Flange 90° & 45° Elbow 4.47" Flange CI Height	
<b>115333</b> 8-Bolt/4" Valve Flange 5.5" Length/Flowminder	
<b>115393</b> (3.38" Height) 8-Bolt/3" Valve Flange 1.85" Offset/4" Offset	

### Foam/CAFS Manifolds & Fittings









<b>108966</b> Casting P/N 108951 2X 3" VIC Single Check Valve/ Flowminder Port <sup>3/4"</sup> NPT	
<b>108995</b> Machined P/N 108964 & 108919; 2X 3" VIC Single Check Valve Flowminder Port <sup>3/4"</sup> NPT	
<b>110111</b> 3X 3" VIC 45° Branch	
<b>110116</b> 3" VIC/3" Open/3" Closed 90° Branch	
<b>112074</b> Casting P/N 111646 2X 2" VIC/2/4" NPT 2X 3" VIC Single Check Valve/ Flowminder Port <sup>3/4"</sup> NPT	
<b>112334</b> 2" CAFSMixer	
<b>112335</b> 2.5" CAFSMixer	
<b>112336</b> 3" CAFSMixer	
<b>112369</b> 2" Valve Flange/2" VIC 2X 3/4" NPT	
<b>112370</b> 2.5" Valve Flange/2.5" VIC 3/4" NPT/1" NPT	
<b>112371</b> 3" Valve Flange/3" VIC 3/4" NPT/1.25" NPT	
<b>114627</b> 3" Valve Flange/3" VIC 45° Elbow	
<b>114666</b> Casting P/N 114624 3" Valve Flange Single check valve 3" VIC/1.25" NPT	
<b>115106</b> 3" VIC/2X 3" Open 90° Branch	









## Suction Fittings

<b>107819</b> - Relief Valve 115 Flange/2.5" NPT	
<b>108319</b> - Relief Valve 115 Flange/2.5" NH	
<b>108320</b> - Relief Valve 115 Flange/2.5" Vic	
<b>108129</b> 6" Weld/6" NH 3.5" Long	
<b>109266</b> 6" Weld/6" VIC 2.5" Long	
<b>112603</b> 5" Pipe/4.5" NH 3.5" Long	
<b>112692</b> 5" Weld/5" Weld 5" VIC	
<b>112867</b> 6" Weld/6" Weld 6" VIC	
<b>114842</b> 6" Pipe/5" NH 45° Elbow	
<b>115036</b> 6" Pipe/5" NH 45° Elbow	
<b>115352</b> 5" FNPT/5" NH 90° Elbow/Swivel	
<b>115353</b> 5" FNPT/6" NH 90° Elbow/Swivel	
<b>115480</b> 6" VIC/6"VIC 10° Elbow	
<b>115493</b> 6" VIC/6"VIC 38° Elbow	
<b>115968 (11.5" Length)</b> 3" Valve Tank to Pump 6" VIC/6" Weld	

## Suction Fittings

<b>115969</b> (11.67" Length) 3" Valve Tank to Pump 6" VIC/6" VIC/90° Elbow	
<b>010-0010-00-0</b> - 4.5" Suction Tube Strainer	
<b>010-0020-00-0</b> - 5" Suction Tube Strainer	
<b>010-0030-00-0</b> - 6" Suction Tube Strainer	
<b>010-0050-00-0</b> - 2.5" Suction Tube Strainer	
<b>010-0130-00-0</b> - 3" Suction Tube Strainer	
<b>115-1700-00-0</b> 6" Cope 2433 8 Bolt	
<b>178-0470-00-0</b> 2417 12 Bolt 2X 6" Weld 2X 3/4" NPT	

## 2717 12-Bolt Flanges

<b>108886</b> 2X 12-Bolt/2X 8 Bolt 6" VIC/2X 115 Flange 3/4" FNPT/1/4" FNPT	
<b>109821</b> 12 Bolt/6" NST 3.5" long	
<b>110986</b> 12 Bolt/6" Vic 3.5" long	
<b>114715</b> 2X 5" Vic/90° Elbow	
<b>115141</b> 12-Bolt/5" Vic 90o Elbow/3/4" FNPT 4° Offset Down	
<b>115146</b> 12-Bolt/5" Vic 90° Elbow/3/4" FNPT 4° Offset Up	

Flanges/Manifolds & Fittings

Unless otherwise noted: 2" and 2.5" flanges fit Hale, Akron, and Elkhart Valves; 3" Flanges fit only Hale and Akron Valves

# Plumbing Components

## Push-On Fittings

### Gauge DOT Push-On Fittings

Class 1's DOT Push-On Fittings are available in a variety of sizes from 1/4" to 3/4" and a variety of configurations including 45° and 90° elbow, swivel and nonswivel, straight, tee and bulkhead.

102718	1/4" FNPT X 1/4" TUBE, ELBOW 90° (SWIVEL)
104587	1/4" TUBE UNION
104588	3/8" TUBE UNION
104589	1/8" MNPT X 1/4" TUBE, STRAIGHT
104590	1/8" MNPT X 3/8" TUBE, STRAIGHT
104591	1/4" MNPT X 1/4" TUBE, STRAIGHT
104592	1/4" MNPT X 3/8" TUBE, STRAIGHT
104593	3/8" MNPT X 3/8" TUBE, STRAIGHT
104594	1/2" MNPT X 3/8" TUBE, STRAIGHT
104595	1/2" MNPT X 3/4" TUBE, STRAIGHT
104596	3/4" MNPT X 3/4" TUBE, STRAIGHT
104597	1/8" MNPT X 1/4" TUBE, ELBOW 45° (NON SWIVEL)
104598	1/8" MNPT X 1/4" TUBE, ELBOW 90° (SWIVEL)
104599	1/8" MNPT X 3/8" TUBE, ELBOW 90° (SWIVEL)
104600	1/4" MNPT X 1/4" TUBE, ELBOW 90° (SWIVEL)
104601	1/4" MNPT X 3/8" TUBE, ELBOW 90° (SWIVEL)
104602	3/8" MNPT X 3/8" TUBE, ELBOW 90° (SWIVEL)
104603	1/2" MNPT X 3/8" TUBE, ELBOW 90° (SWIVEL)
104604	1/2" MNPT X 3/4" TUBE, ELBOW 90° (SWIVEL)
104605	3/4" MNPT X 3/4" TUBE, ELBOW 90° (NON SWIVEL)
104606	1/4" MNPT X 1/4" TUBE X 1/4" TUBE TEE (SWIVEL)
104609	3/8" FNPT X 1/4" TUBE, ELBOW 90° (SWIVEL)
104795	3/8" MNPT X 1/2" TUBE, ELBOW 90° (SWIVEL)
104796	1/2" MNPT X 1/2" TUBE, ELBOW 90° (SWIVEL)
104797	1/2" MNPT X 1/2" TUBE, STRAIGHT
104798	1/4" MNPT X 1/4" TUBE, ELBOW 45° (SWIVEL)
104799	1/4" FNPT X 1/4" TUBE, STRAIGHT BULKHEAD
104800	1/4" MNPT X 1/2" TUBE, STRAIGHT

Contact Class 1 for a complete parts list.

## Gauge DOT Push-On Fittings

104801	1/4" TUBE BULKHEAD wd # 1874
104802	3/8" TUBE BULKHEAD
104803	3/8" MNPT X 1/2" TUBE, STRAIGHT
104804	3/8" MNPT X 1/4" TUBE, STRAIGHT
104805	1/4" MNPT X 3/8" TUBE, ELBOW 45° (SWIVEL)
104806	3/8" MNPT X 1/4" TUBE, ELBOW 90° (SWIVEL)
104807	1/2" MNPT X 5/8" TUBE, STRAIGHT
104808	3/8" MNPT X 5/8" TUBE, STRAIGHT
104809	1/2" MNPT X 5/8" TUBE, ELBOW 90° (SWIVEL)
104810	3/8" MNPT X 5/8" TUBE, ELBOW 90 (SWIVEL)
104811	1/8" MNPT X 3/8" ELBOW 45° (SWIVEL)
104812	1/4" MNPT X 1/2" TUBE, ELBOW 45° (SWIVEL)
104813	1/2" MNPT X 5/8" TUBE, ELBOW 45° ( SWIVEL)
104814	1/2" TUBE BULKHEAD
104816	1/4" FNPT X 1/4" TUBE, STRAIGHT
104819	1/4" MNPT X 3/8" TUBE X 3/8" TUBE TEE (SWIVEL)
104820	5/8" TUBE BULKHEAD
104821	1/8" MNPT X 1/4" TUBE X 1/4" TUBE RUN TEE (SWIVEL)
104822	1/2" TUBE UNION
104823	5/8" TUBE UNION
104824	1/4" FNPT X 3/8" TUBE X 3/8" TUBE TEE (NON SWIVEL)
104914	1/8" MNPT X 1/4" TUBE, ELBOW 45° ( SWIVEL)
105176	1/8" FNPT X 1/4" TUBE, ELBOW 90° (SWIVEL)
105178	3/4" MNPT X 3/8" TUBE, ELBOW 90° (SWIVEL)
105179	3/4" MNPT X 3/8" TUBE, STRAIGHT
105180	1/4" FNPT X 3/8" TUBE, STRAIGHT
105181	3/4" MNPT X 5/8" TUBE, ELBOW 90° (SWIVEL)
105589	3/4" MNPT X 3/4" TUBE, ELBOW 45° (SWIVEL)
105590	3/4" MNPT X 3/4" TUBE, ELBOW 90° (SWIVEL)
106262	1/8" MNPT X 1/4" TUBE X 1/4" TUBE TEE (SWIVEL)

# Plumbing Components

## Air Brake Tubing

Class 1 also offers an assortment of air brake tubing in sizes from 1/4" to 3/4" and colors in Red, Black, Green, Orange, and Blue. (Please order in full rolls only.)

104938	1/4" Black	1000' roll
104939	1/4" Red	1000' roll
104940	1/4" Green	1000' roll
104941	1/4" Orange	1000' roll
104942	1/4" Blue	1000' roll
104943	3/8" Black	1000' roll
104944	3/8" Red	1000' roll
104945	3/8" Green	1000' roll
104946	3/8" Orange	1000' roll
104947	3/8" Blue	1000' roll
104948	1/2" Black	500' roll
104949	1/2" Red	500' roll
104950	1/2" Green	500' roll
104951	1/2" Orange	500' roll
104952	1/2" Blue	500' roll
104953	5/8" Black	250' roll
104954	5/8" Red	250' roll
104955	5/8" Green	250' roll
104956	5/8" Orange	250' roll
104957	5/8" Blue	250' roll
104958	3/4" Black	250' roll



## Caps, Plugs, and Adapters

New Hale caps and fittings are specially designed for firefighting apparatus by Class 1 in styles that are priced for your needs.

### Features and Benefits

- New self-venting plugs are designed to relieve trapped pressure and help reduce possible operator injuries
- Designed to meet NFPA 1963 and 1901 standards
- Bright finished, polished products
- 3" and smaller caps and plugs come complete with 12" chain
- 6" long handle cap designed for custom center inserts.



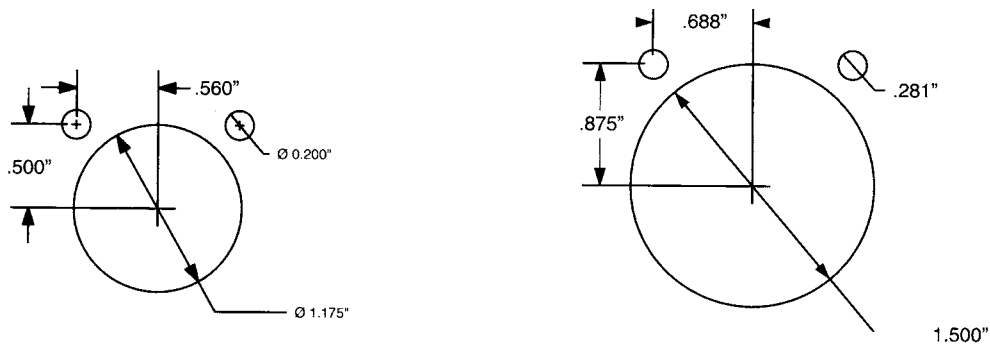
107658	Cap 1.5 NST with chain
108997	Cap 1.5 NST with lug vent
107659	Plug 1.5 NST with chain
107660	Adapter 1.5 FNST 1.5 FNPT SWVL
107661	Adapter 1.5 FNST 1.5 FNST SWVL
107662	Adapter 1.5 MNST 1.5 MNST
107663	Adapter .5 MNST 1.5 MNPT
107664	Adapter 2.5 FNST 1.5 MNST
107665	Cap 2.5 NST with chain
108007	Cap 2.5 NST with lug vent
107666	Plug 2.5 NST with chain
107667	Adapter 2.5 MNST 2.5 MNST
107683	Adapter 2.5 MNH 2.5 FNPT 2.63 LG
107684	Adapter 2.5 MNH 2.5 FNPT 3.63 LG
107668	Adapter 2.5 FNPT 2.5 FNPT SWVL
107669	Adapter 2.5 FNST 2.5 FNST SWVL
107670	Adapter 2.5 MNST 2.5 MNPT
107671	Adapter 2.5 FNST 2.5 MNPT SWVL
107672	Adapter 2.5 FNST male garden hose
107673	Adapter 2.5 FST 2.5 MNST 30 DEG

108061	Adapter 3.0 FNST 2.5 MNST 30 DEG
107674	Cap 3.0 NST with chain
108008	Cap 3.0 NST with lug vent
107675	Plug 3.0 NST with chain
107676	Adapter 3.0 FNST 3.0 FNPT SWVL
107677	Adapter 3.0 FNST 3.0 FNST SWVL
107678	Adapter 3.0 FNST 3.0 MNST 30 DEG
107679	Adapter 3.0 MNH 3.0 FNPT
109196	Cap 4.0 NST (flat cap) vent
108162	Cap 4.5 NST (flat cap) vent
107680	Cap 5.0 NST (flat cap)
108344	Cap 6.0 NST (flat cap) vent
107681	Cap 6.0 NST recessed
109401	Cap 6.0 NST recessed assembled with vent
108346	Cap 6.0 NST recessed vent
107682	Cap 6.0 NST (flat cap)
108345	Cap 6.0 NST (flat cap) vent
108168	Spanner wrench
108501	Chrome insert - 6" cap
108596	Polydome tag - Hale logo

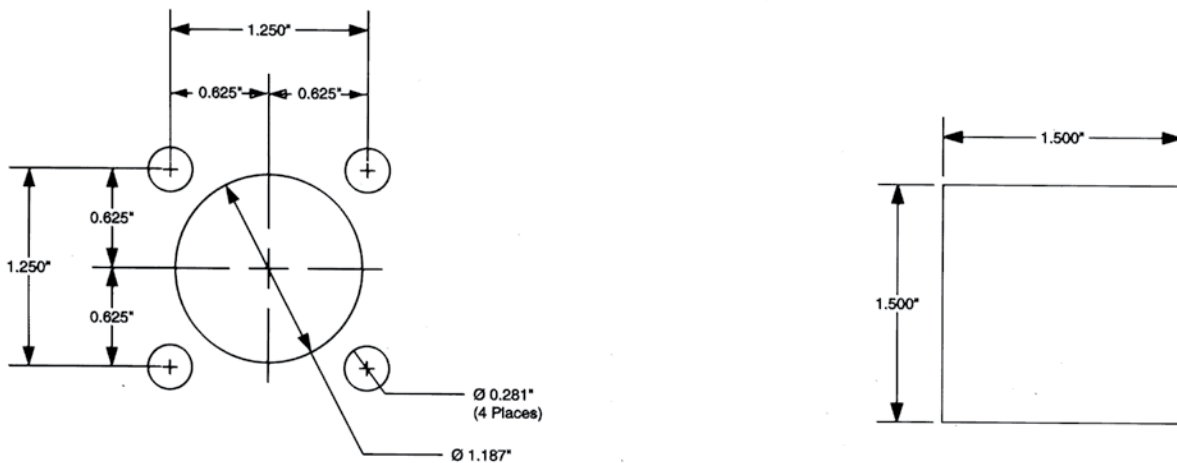
Caps, Plugs, and Adapters

# Plumbing Components

## Drain and Bleeder Valve Hole Templates



## Locking Push/Pull Assembly Hole Templates



## Specifications

### Ball Valve Drains for 1/4" - 1"

The apparatus shall be equipped with Class 1 ball valve drains to allow draining for the pump and all water carrying lines and accessories. All 2-1/2" or larger discharge outlets shall be equipped with a 3/4" ball valve drain or larger. The 1/4", 1/2", and 3/4" drains shall have a nickel plated brass body and 1" drains shall have an all brass body with reinforced Teflon® seals. The drains shall have NPT female inlets on both ends. The handles shall be chrome plated zinc with a recessed area for 1" x 3" I.D. tags.

For 3/4" dual ball valve drains — The drains shall have 3/4" NPT female inlets on both ends. The pressure inlet side shall have a 90 degree elbow to allow easy access for plumbing. The drains shall also have a 1/4" tap for draining gauge sensing lines.

For 3/4 Automatic Drains — The automatic drain shall have an all brass body with stainless steel check assembly. The drain shall be normally open that closes when the pressure is greater than 6 psi.

### Top Mount Control

Specification for apparatus with top mounted pump panel

The apparatus shall be equipped with the Class 1 top mount control system for valve actuation. The handles shall be chrome plated zinc twist-lock handles with a recessed area for 2" diameter round identification tags. The mounting extrusions shall have a built-in pump panel hinge that eliminated the need for slots and trim rings on the pump panel.

## Product Warranty

Class 1 warrants that any equipment of our own manufacture (or manufactured for us pursuant to our specifications) found to have defects in material or workmanship during normal use and service will be repaired or replaced (at our option) free of charge provided that written notice of such defect is received by us within two years (three for liquid-filled gauges) after initial shipment. All equipment requiring repair or replacement under this warranty shall be returned prepaid to Class 1. Such returned equipment shall be examined by us and, if found to be defective as a result of materials failure or workmanship, shall be repaired at no charge.

This warranty shall not apply to any equipment which has been tampered with or altered after leaving our control or which has been repaired by anyone except Class 1. Product which has been subjected to misuse, neglect, abuse, or improper application will not be covered under this warranty. Misuse or abuse of the equipment or any part thereof shall include, but not limited to, damage by negligence, overpressure, excess voltage and the like. Operating the equipment with or in a corrosive, explosive, or combustible medium (unless equipment is specifically designed for such service) or exposing it to any other conditions or environment of greater severity than that for which the equipment was designed will void this warranty.

This warranty is given and accepted in lieu of all other warranties, expressed or implied, and of all other obligations or liabilities on our part. In no event shall we be liable for breach of warranty beyond the terms stated above or for any consequential damages in a case. Class 1's liability in all events is limited to the value of the product involved.

In order to ensure prompt exchange or repair service, please contact Class 1 toll free at 800-533-3569 or via e-mail at [class1returns@idexcorp.com](mailto:class1returns@idexcorp.com) to receive a Return Materials Authorization Number (RMA#) prior to returning the items to Class 1. Please mark the RMA# on the outside of all packages. This will enable our receiving department to quickly route the product to the appropriate repair department. Products received by Class 1 without a RMA# may experience service delays or may be returned to the sender for additional information. All returned items should be prepaid by the customer to Class 1.

**Class 1** 

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Note: Class 1 cannot assume responsibility for product failure resulting from improper maintenance or operation. Class 1 is responsible only to the limits stated in the product warranty. Product information contained in this material is subject to change without notice.