

Catalog

Flame Arresters and Low Pressure Venting Equipment



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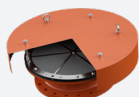
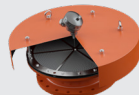
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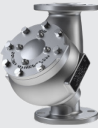
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End-of-Line Deflagration Arresters

Series		Explosion Group	Connection Sizes	Operating Conditions	Features
670		Group D	1" - 4"	Contact your local Protectoseal representative for further information.	Parallel Plate Element Weatherhood Automatic Condensate Drainage
670E		Group D Group C	1" - 6"	Contact your local Protectoseal representative for further information.	Parallel Plate Element Weatherhood Automatic Condensate Drainage
ERB		Group D Group C (MESG ≥ 0.65)	3/8" - 3"	-4°F to +140°F	E-Flow® Technology RE-Flow® Technology Threaded Connections
EVA		Group D (MESG > 0.9)	1/2" - 24"	-4°F to +140°F	E-Flow® Technology Removable Elements Extensive Options List
EVB		Group D Group C (MESG ≥ 0.65)	1/2" - 24"	-4°F to +140°F	E-Flow® Technology Removable Elements Extensive Options List
EHB /ESA		Group D Group C (MESG ≥ 0.65)	1/2" - 24"	-4°F to +302°F	Short Time Burn Option Extended Operating Limits E-Flow® Technology Removable Elements
AVC		Group D Group C Group B (MESG < 0.50)	1/2" - 16"	-4°F to +140°F	Removable Elements Extensive Options List
860		Group D	2" - 8"	Contact your local Protectoseal representative for further information.	Weatherhood Interchangeable Elements Swing-Bolt Design Automatic Condensate Drainage
SV		Group D Group C (MESG ≥ 0.65)	1/2" - 2"	-4°F to +140°F	Light Alloy Models Fixed Elements Threaded Connections

In-Line Deflagration Arresters

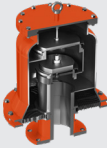
Series		Explosion Group	Connection Sizes	Operating Conditions	Features
LCA		Group D (MESG > 0.9)	1/2" - 24"	+140°F, 1.60 bar (23 psia) up to 12" +320°F, 1.45 bar (21 psia) up to 12" +140°F, 1.45 bar (21 psia) for sizes 14" & 16" +140°F, 1.20 bar (17 psia) up to 24"	Concentric Design Extended Operating Limits Short Time Burn Removable Elements
LCB		Group D Group C (MESG ≥ 0.65)	1/2" - 12"	+140°F, 1.10 bar (16 psia) up to 1.60 bar (23 psia) for 2" and 1.50 bar (22 psia) for 4"	
LEA		Group D (MESG > 0.9)	1/2" - 16"	+140°F, 1.60 bar (23 psia) +320°F, 1.45 bar (21 psia) +140°F, 1.45 bar (21 psia) for 12" - 16"	Eccentric Design Extended Operating Limits Short Time Burn Removable Elements
LEB		Group D Group C (MESG ≥ 0.65)	15 - 100 (1/2" - 4")	+140°F, 1.50 bar (22 psia) +302°F, 1.10 bar (16 psia)	
4950*		Group D	1 - 12"	Contact your local Protectoseal representative for further information.	Parallel Plate Design Removable Arrester Element Automatic Condensate Drainage
SGE-IB		Group D Group C (MESG ≥ 0.65)	1/2" - 16"	+302°F, 1.30 bar (19 psia) up to 8" +140°F, 1.60 bar (23 psia) up to 8" 1.25 bar (18 psia) up to 16"	Extended Operating Limits Removable Elements
DFB		Group D Group C (MESG ≥ 0.65)	1" - 6"	+140°F, 1.60 bar (23 psia) +302°F, 1.30 bar (19 psia)	Extended Operating Limits Removable Elements
DFC		Group D Group C Group B (MESG < 0.50)		+140°F 1.10 bar (16 psia) up to 4" 1.45 bar (21 psia) or 1.20 bar (17 psia) for 6"	
MB-IB		Group D Group C (MESG ≥ 0.65)	1/2" - 3/4"	-4°F to +140°F	Fixed Elements

*Vent-Line/In-Line Deflagration Flame Arrester.

In-Line Detonation Arresters

Series		Explosion Group	Connection Sizes	Operating Conditions	Features
UCA		Group D (MESG > 0.9)	1/2" - 24"	+140°F, 1.20 bar (17 psia) up to 12" 1.10 bar (16 psia) up to 18" 1.50 bar (22 psia) up to 4" +302°F, 1.40 bar (20 psia) up to 4" 1.10 bar (16 psia) for 8" - 16"	E-Flow® Technology HEDS® Technology Short Time Burn Removable Elements
UCB		Group D Group C (MESG ≥ 0.65)	1/2" - 12"	+140°F, 1.10 bar (16 psia)	
UEA		Group D (MESG > 0.9)	1/2" - 16"	+140°F, 1.20 bar (17 psia) up to 12" 1.10 bar (16 psia) up to 16"	E-Flow® Technology HEDS® Technology Short Time Burn Removable Elements
UEB		Group D Group C (MESG ≥ 0.65)	1/2" - 4"	+140°F, 1.10 bar (16 psia)	
25000		Group D	2" - 18"	Contact your local Protectoseal representative for further information.	Crimped Metal Arrestor Element Straight Through Flow Pattern Interchangeable Arrestor Element Welded Steel Housing
26000		Group D Group C	2" - 12"	Contact your local Protectoseal representative for further information.	Crimped Metal Arrestor Element Straight Through Flow Pattern Interchangeable Arrestor Element Welded Steel Housing
35000		Group D	2" - 8"	Contact your local Protectoseal representative for further information.	Crimped Metal Arrestor Element Straight Through Flow Pattern Interchangeable Arrestor Element Welded Steel Housing
36000 RP		Group D Group C	2" - 8"	Contact your local Protectoseal representative for further information.	Crimped Metal Arrestor Element Straight Through Flow Pattern Interchangeable Arrestor Element Welded Steel Housing

End-of-Line Vents and Arresters

Series		Explosion Group	Connection Sizes	Operating Conditions	Features
830		Group D	2" - 10"	Contact your local Protectoseal representative for further information.	Air-Cushion Pallet Design Interchangeable Elements Swing-Bolt Design Automatic Condensate Drainage
FAB		Group D Group C (MESG ≥ 0.65)	2" - 12"	-4°F to +140°F	Enhanced Flow and Pressure Drop Compact Lightweight Easy to Install
FAB-E				-4°F to +302°F	

Tank Blanketing Valves

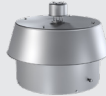
Series		Connections	Inlet Gas Pressure Range	Settings
30 Pilot Operated Tank Blanketing Valve (½")		½" FNPT inlet & outlet standard	10 psig to 200 psig	-0.1 in. W.C. to 69.2 in. W.C.
20 Pilot Operated Tank Blanketing Valve (1")		1" NPT inlet & outlet	20 psig to 200 psig	-0.5 in. W.C. to 69.2 in. W.C.
10 Pilot Operated Tank Blanketing Valve (2")		2" NPT inlet & outlet	40 psig to 130 psig	-0.5 in. W.C. to 69.2 in. W.C.

FAB/FAB-E Features and Benefits

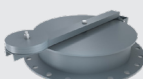
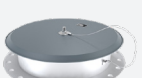
- E-Flow® element provides optimum flow and minimal pressure drop
- Compact, lightweight and easy to install
- Prevents explosion and risk of environmental pollution
- Easy to maintain with replaceable element
- Economic savings due to reduced product losses
- Easy visual in-situ inspection of the element
- Self-draining element prevents rain or other foreign matter entering the system
- Incorporates the patented RE-Flow® technology
- Optimized pallet design and sealing reduces chattering
- Unique valve design provides complete weather protection
- Protects against atmospheric deflagration



Pressure and Vacuum Relief Vents

Series		Sizes (inches)	Connections	Pressure Setting Range	Vacuum Setting Range
8540H End-of-Line Pressure and Vacuum Relief Vent		2" - 12"	Mates with 125#/150# ANSI and DIN PN 16	0.5 - 48 oz/in ² 2.15 - 206.84 mbar	0.5 - 23 oz/in ² 2.15 - 99.11 mbar
		2" - 12"	Mates with 125#/150# ANSI and DIN PN 16	0.5 - 48 oz/in ² 2.15 - 206.84 mbar	0.5 - 23 oz/in ² 2.15 - 99.11 mbar
8740 In-Line Pressure & Vacuum Relief Vent		2", 3" & 4"	Outlet connection has standard NPT threads. Inlet connection mates with 125#/150# ANSI and DIN PN 16	1 - 26 oz/in ² 4.31 - 112.04 mbar	1 oz/in ² 4.31 mbar
18540D Pipe-Away Pressure and Vacuum Relief Vent		2" - 12"	Mates with 125#/150# ANSI and DIN PN 16	0.5 - 47 oz/in ² 2.15 - 202.53 mbar	0.5 - 23 oz/in ² 2.15 - 202.53 mbar
3908 Pressure and Vacuum Relief Thief Hatch		8"	API flat face flange	2, 4, 6, 8, 12, 16, 24, 32 oz./sq. in.	0.4, 0.9, 3.5 oz./sq. in.
17800 Pipe-Away Pressure Relief Vent		2" - 12"	Mates with 125#/150# ANSI and DIN PN 16	0.5 - 47 oz/in ² 2.15 - 202.53 mbar	N/A
56000 PIN-TECH™ Bubble-Tight <500ppm Pressure Relief Vent		2" - 24"	Mates with applicable ANSI, API or DIN PN 16	0.75 - 15 psig 51.71 - 1034.21 mbar	N/A
6240 End-of-Line Vacuum Relief Vent		2" - 12"	Mates with 125#/150# ANSI or DIN PN 16	N/A	0.5 - 23 oz/in ² 2.15 - 99.11 mbar
16240 Side-Mounted Vacuum Relief Vent		2" - 14"	Mates with 125#/150# ANSI or DIN PN 16	N/A	0.5 - 47 oz/in ² 2.15 - 193.92 mbar

Emergency Relief Vents

Series		Sizes (inches)	Connections	Pressure Setting Range	Vacuum Setting Range
52600 Emergency Pressure and Vacuum Relief Vent		16" - 24"	Mates with applicable ANSI, API flange or DIN 16 PN	0.75 - 6 oz/in ² 3.23 - 25.86 mbar	0.5 - 0.75 oz/in ² 2.15 - 3.23 mbar
7800 End-of-Line Emergency Pressure Vent		2" - 24"	ANSI, DIN 16 PN or API flange	1 - 48 oz/in ² 4.31 - 206.84 mbar	N/A
54000 Spring-Loaded Emergency Pressure Relief Vents		16" - 24"	Mates with applicable ANSI, API flange or DIN 16 PN	1 - 11 psig 68.95 - 758.42 mbar	N/A
51700 Hinged Emergency Pressure Relief Manhole Cover Vent		16" - 24"	Mates with applicable ANSI, API flange or DIN 16 PN	0.57 - 34.6 oz/in ² 2.45 - 149.10 mbar	N/A
53300 Emergency Pressure Relief Manhole Cover Vent		16" - 24"	Mates with applicable ANSI, API flange or DIN 16 PN	1.10 - 6 oz/in ² 4.74 - 25.86 mbar	N/A

Speciality Valves and Fittings



Air Dryer
Series 782/PVC782

- Sizes 2" and 3"
- Reduced pressure drops
- Flanged and threaded options available
- Integral humidity indicator
- Easy inspection and maintenance
- Large, removable desiccant receptacle
- Desiccant chamber with a large diameter



Internal Safety Valve
Series 3000

- Sizes range from 2" to 12"
- Closes automatically in the event of a fire
- Simple one-handed valve operation
- By-pass valve for pressure equalization
- Exceptional flow capability
- Easily replaceable fuse link
- 160°F fusible link included



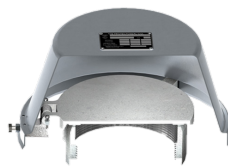
Gauge Hatches
Series 4960/4970/4980/5690

- Sizes 4", 6" and 8"
- Allows manual tank gauging, sampling and temperature readings
- Free-lifting and lockdown models available
- Thermometer hook, gauge marker and lock hole included
- Hinged cover can be opened a full 75° to 80°



Water Drain Valve
Series 660

- Sizes range from 2" to 6"
- Removes excess water from the tank
- Simple one-handed valve operation
- Two-stage opening and closing
- Padlock bracket prevents unauthorized valve opening
- Non-freeze design



Pressure Relief Rim Vent
Series 4276

- Cost-effective and functional design
- 6" FNPT connection
- Vapors vent to atmosphere
- Integral weatherhood protects tank opening
- Screens protect the tank's interior from debris
- Lightweight design allows for easy handling
- Easy to install and maintain



Rupture Disks

- Sizes range from 3/8" to 16"
- Protects the valve from corrosive and viscous products
- Prevents fugitive emissions
- Easy to service and maintain
- Protects the valve (spring) from pressure fluctuations and cycling

Ancillary Equipment



Liquid Level Indicators Series 40000/41000

- Accurate liquid level gauging of fixed and floating roof tanks
- Allows for quick and easy readings
- Easy installation for "tanks-in-service" or "tanks-out-of-service"
- Float-actuated indicators
- Resistant to corrosive petroleum products



Automatic Tank Gauge Series 42000B

- High precision in measuring liquid levels
- Reduced time needed for readings
- Used on tanks up to 65' tall and at pressures up to 50 PSIG
- Conveniently mounted on the tank's top or side
- Limit and programme switches available upon request



Fuel Tank Safety Caps

- Sizes range from 3/8" to 16"
- Manually engaged compression spring latch
- Provides automatic pressure relief if tank pressure exceeds normal limits
- Self-closing, hinged cap design
- Padlock opening prevents theft or unauthorized access



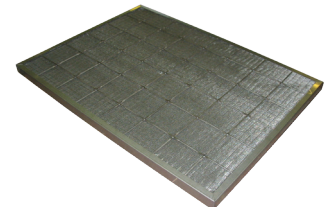
Temperature Sensors

- ATEX certified for use with Flame Arresters
- Measures process flow temperature
- Flame detection and monitoring
- Easy integration with on-site process controls
- Tailored to customer specifications



Proximity Switches

- To be used with low-pressure venting equipment
- Pallet lift detection
- ATEX certified for zoned installation
- Easy integration with on-site process controls



Flashback Guards

- Available in 304L and 316L stainless steel
- Knitted mesh panels
- Individualized design for specific applications
- Tailored frames and mountings available upon request



Contact Protectoseal today to learn more about our safety solutions and how our maintenance services can keep your operations secure and compliant.



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