



BasCo®

Flame Arrester

Pressure Vacuum Relief Valve

Emergency Relief Valve

Blanketing Valve

ONE SOURCE FOR ALL YOUR PRESSURE RELIEF SOLUTIONS!



COMPANY INTRODUCTION

Overview

Xuzhou Bafang Safety Device Co.Ltd.(Registered as ' BasCo') is committed to finding pressure relief solutions for our customers that maximize their productivity and performance while keeping them safe. We have the complete line of relief devices such as Flame Arrestors, Pressure Vacuum Relief Valves, Emergency Relief Valves, Nitrogen Seal Valves ,Rupture discs, Dust explosion protection devices, Safety valves. All products are backed by our company's founding principle: a commitment to supplying only top quality, reliable and durable products – able to withstand the harshest environments.

For over years of development, our products are sold in over 20 countries and to-date have over 3,000 customers buying our products for the Petroleum, Petrochemical, Chemical, Food, Pharmaceutical, Pipeline, Wastewater, Steel and Waste Treatment Industries. We have obtained the Chinese TS Certification, ASME UD Certification, CE Certification, PED Certification, ATEX Certification, ISO9001 Certification, and DNV Certification. We have our own products testing devices such as the set pressure testing devices for rupture discs and conservation vents, flow capacity testing devices for conservation vents and emergency vents, and also have the largest and most complete flame and detonation arrester testing devices in China.

Today's growing markets call for keeping an increasingly larger supply of your products close at hand. With these demands, along with tighter delivery schedules and highly sophisticated processes, it is no wonder more and more people are coming to and continue utilizing BasCo for their relief safety needs.

Our Mission

To Provide the Complete Line of Safety Relief Devices.

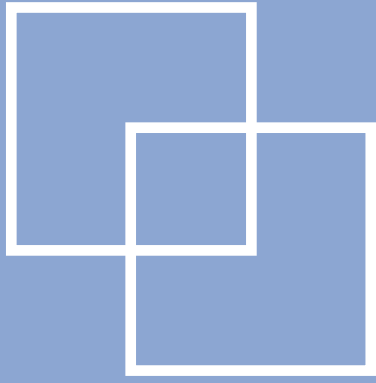
Our Vision

BasCo is committed to finding pressure relief solutions for our customers that maximize their productivity and performance while keeping them safe.

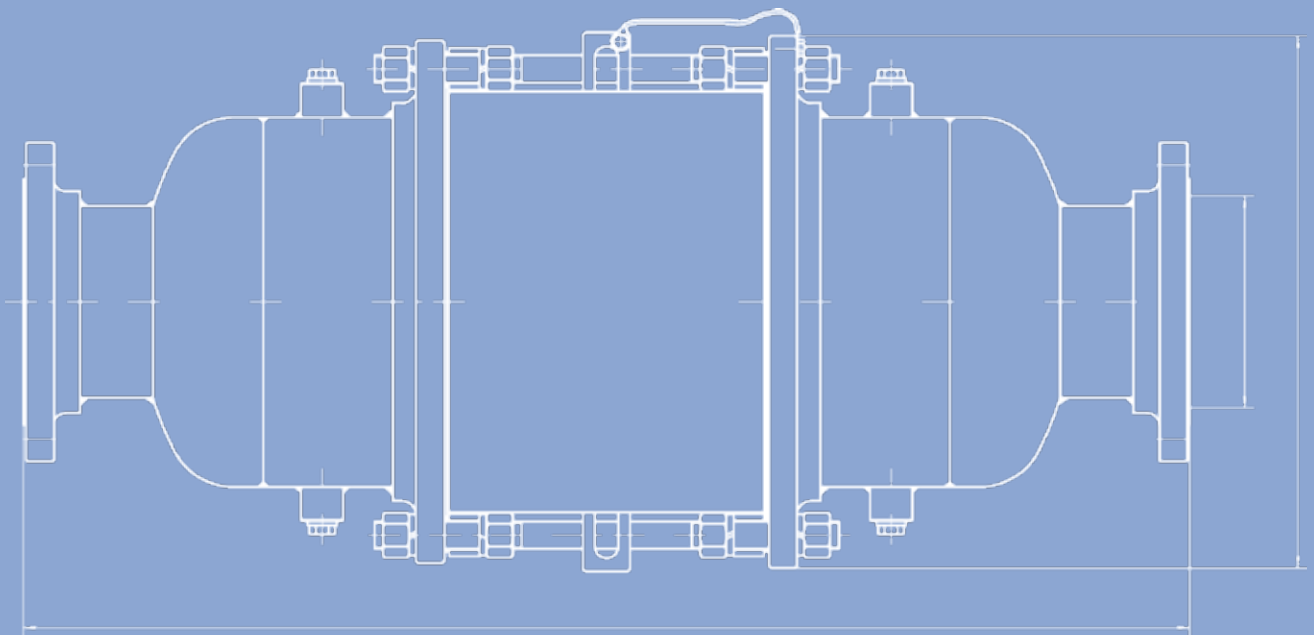


Certificates





Model **6000** Flame Arrester



6100 End-of-Line Flame Arrester



6100 End-of-Line Flame Arrestors are designed to provide free venting and flame protection for vertical vent applications.

It is installed at the top of a vent-to-atmosphere line or storage tank. They prevent flame propagation by quenching flame, absorbing and eliminating heat using flame cells, providing maximum flow with maximum protection.

6100 End-of-Line Flame Arrester is used to stop the propagation of confined and unconfined low pressure deflagrations.

6100 Flame Arrestors are typically applied for the end of line applications where the system operating pressure is near atmospheric pressure and a flame stabilizes on the Flame Arrester element for a short time.

Designed with flanged connections, it allows removal of the flame cell element without removal of the venting assembly. Standard housing construction is carbon steel, and stainless steel. The element is available in stainless steel and Hastelloy. Special material and protective coatings are available on request.

Features

- Maximum flow
- Less pressure Drop
- Easy Cleaning
- Less Clogging
- Less Maintenance
- Single Element Design
- Fluoropolymer coated hardware provides outstanding corrosion and chemical resistance.
- Easy accessible and removable flame cell for easy inspection and maintenance.
- Available in ANSI, DIN and HG/T20592-20635-2009 flanges.

Flame Arrester Specifications

| Model | Size Available |
|--|------------------------|
| 6100 End-of-Line Deflagration Flame Arrester | 1"(24mm) - 40"(1000mm) |

Materials of Construction

| Housing | Element | Gas Group |
|---|--|-----------------------------|
| Carbon Steel 304 Stainless Steel 316 Stainless Steel Hastelloy | 304 Stainless Steel 316L Stainless Steel Hastelloy | IIA(D) IIB3(C) IIC(B) |



6200 In-Line Deflagration Flame Arrester



BasCo In-Line Deflagration Flame Arrester is used near the end of line or in the distance of 50D, not yet to the detonation phase of flame development, which fully meets the requirements of ISO16852, GB13347 etc. standards.

Bi-directional flame transmission proof design can stop low, medium and high pressure deflagrations and dampen the high velocities and pressures while quenching the flame front.

BasCo's unique design provides larger flame channels which requires less frequent maintenance and greater ease in cleaning. The flame cell element offers maximum flow to pressure drop characteristics. Designed with flanged connections, it allows removal of the flame cell element for easy cleaning and replacement without removing the arrester body from the pipe connection.

Standard housing construction is carbon steel and stainless steel. The element is available in stainless steel. Special material and protective coatings are available on request.

Features

- Less pressure drop
- Less Clogging
- Less Maintenance
- Easy Cleaning
- Maximum flow
- Fluoropolymer coated hardware provides outstanding corrosion and chemical resistance.
- Accessible and removable flame cell for easy inspection and maintenance
- Bi-Directional Design
- Available in ANSI, DIN and HG/T20592~20635-2009 flanges

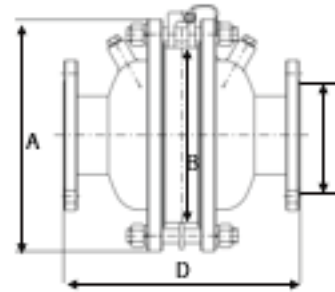
Flame Arrester Specifications

| Model | Size Available |
|--|------------------------|
| 6200 In-Line Deflagration Flame Arrester | 1"(24mm) - 40"(1000mm) |

Materials of Construction

| Housing | Element | Gas Group |
|---|--|-----------------------------|
| Carbon Steel 304 Stainless Steel 316 Stainless Steel Hastelloy | 304 Stainless Steel 316L Stainless Steel Hastelloy | IIA(D) IIB3(C) IIC(B) |

6200 In-Line Deflagration Flame Arrester

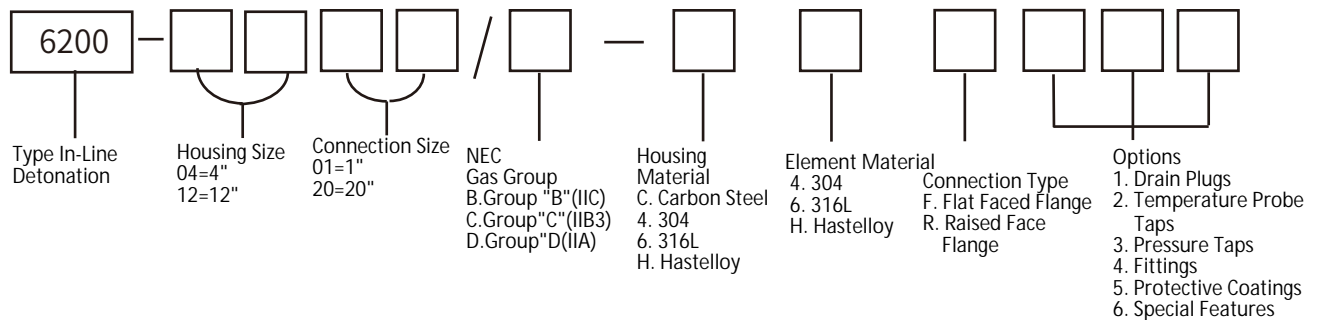


6200 Flame Arrester Dimensions

| Model | A Connection Size In(mm) | B Housing Size In(mm) | H Diameter In(mm) | D Length In(mm) | Estimated Weight Lb(kg) |
|-------|--------------------------------|-----------------------------|-------------------------|-----------------------|----------------------------|
| 0401 | 1(25) | 4(100) | 7.17(182) | 8.66(220) | 51(25) |
| 0402 | 2(50) | 4(100) | 7.17(182) | 8.66(220) | 70(34) |
| 0602 | 2(50) | 6(150) | 11.22(285) | 14.30(360) | 73(36) |
| 0603 | 3(80) | 6(150) | 10.25(260) | 16(310) | 101(46) |
| 0804 | 4(100) | 8(200) | 11.4(290) | 13.78(350) | 125(57) |
| 1006 | 6(150) | 10(250) | 14.2(260) | 14.25(362) | 148(67) |
| 1206 | 6(150) | 12(300) | 17.52(445) | 22.91(580) | 165(75) |
| 1408 | 8(200) | 14(350) | 17.52(450) | 18.1(460) | 225(103) |
| 1608 | 8(200) | 16(400) | 22.4(570) | 25.12(630) | 270(123) |
| 1810 | 10(250) | 18(400) | 21.65(550) | 21.4(543) | 335(152) |
| 2010 | 10(250) | 20(500) | 26.38(670) | 27.04(680) | 400(182) |
| 2212 | 12(300) | 22(550) | 30.7(780) | 29.5(750) | 477(216) |
| 2412 | 12(300) | 24(600) | 30.7(780) | 31.5(800) | 590(268) |
| 3216 | 16(400) | 32(800) | 38.39(975) | 35.43(900) | 695(316) |
| 4020 | 20(500) | 40(1000) | 46.26(1175) | 39.37(1000) | 915(416) |
| 4824 | 24(600) | 48(1200) | 55.31(1405) | 43.31(1100) | 1052(510) |
| 6432 | 32(800) | 64(1600) | 72.05(1830) | 57.01(1400) | 1122(510) |
| 8040 | 40(1000) | 80(2000) | 89.17(2265) | 70.87(1800) | 1595(725) |

Dimensions may vary somewhat from those given above. Allow for a tolerance of ± 1.00" (25 mm). Specific dimensions available on request.

BasCo 6200 Flame Arrester Model Number



Sample:



Indicates an Inline Deflagration Flame Arrester with a 12" housing and 6" connections. Carbon steel housing material and 304 stainless steel NEC Group " D " flame cell element. Raised Face Flange. Options are Drain plugs and temperature probe taps.



6400 Detonation Flame Arrester



BasCo Detonation Flame Arrester represents the best value in flame Arrester protection. They prevent flame propagation by absorbing and dissipating heat using spiral wound crimped ribbon flame cells. These cells allow maximum flow with maximum protection. They provide protection against flame propagation in piping systems that are manifolded or have long run-up distances. They dampen the high velocities and pressures associated with deflagrations and detonations while quenching the flame front. Our design is unique in the ability to provide larger flame channels which requires less frequent maintenance and greater ease in cleaning.

6400 In-Line Detonation Flame Arrester is typically used for extended pipe length or multiple pipe bend configurations to stop stable detonations and unstable detonations(option 6500).In addition, it stops confined and unconfined, low and high pressure deflagrations. Bi-directional design can prevent ignited combustible vapor mixtures from either side that travel at subsonic or supersonic speeds.

Designed with flanged connections, it provides the option of the removal of the flame cell element for easy cleaning and replacement without disconnecting of the pipe connection. Standard housing construction is carbon steel and stainless steel. The element is available in 304 and 316L. Special material and protective coatings are available on request.

Features

- Less pressure drop
- Less Clogging
- Less Maintenance
- Easy Cleaning
- Maximum flow
- Fluoropolymer coated hardware provides outstanding corrosion and chemical resistance.
- Accessible and removable flame cell for easy inspection and maintenance
- Bi-Directional Design
- Available in ANSI, DIN and HG/T20592~20635-2009 flanges

Flame Arrester Specifications

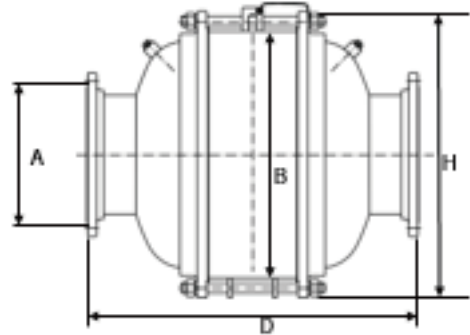
| Model | Size Available |
|--|--------------------------|
| 6400 In-Line Detonation Flame Arrester | 1/2"(13mm) - 40"(1000mm) |

Materials of Construction

| Housing | Element | Gas Group |
|---|--|-----------------------------|
| Carbon Steel 304 Stainless Steel 316 Stainless Steel Hastelloy | 304 Stainless Steel 316L Stainless Steel Hastelloy | IIA(D) IIB3(C) IIC(B) |



6400 Detonation Flame Arrester

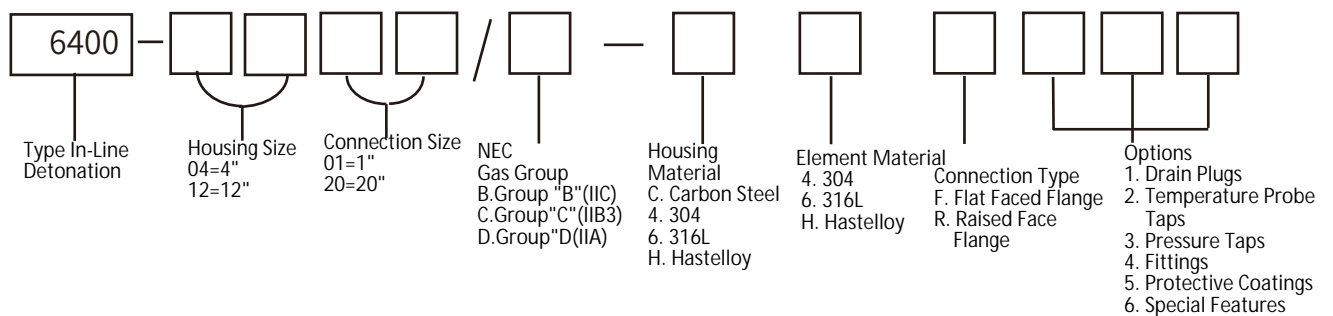


6400 Flame Arrester Dimensions

| Model | A Connection Size In(mm) | B Housing Size In(mm) | H Diameter In(mm) | D Length In(mm) | Estimated Weight Lb(kg) |
|-------|--------------------------------|-----------------------------|-------------------------|--------------------|----------------------------|
| 0401 | 1(25) | 4(100) | 7.17(182) | 11.4(290) | 88(40) |
| 0402 | 2(50) | 4(100) | 7.17(182) | 11.4(290) | 175(278) |
| 0602 | 2(50) | 6(150) | 11.22(285) | 15.75(400) | 183(83) |
| 0603 | 3(80) | 6(150) | 9.65(245) | 14.57(370) | 220(99) |
| 0804 | 4(100) | 8(200) | 11.7(420) | 16.54(420) | 333(151) |
| 1006 | 6(150) | 10(250) | 14.2(360) | 17.24(438) | 466(212) |
| 1206 | 6(150) | 12(300) | 17.52(445) | 24.65(640) | 492(224) |
| 1408 | 8(200) | 14(350) | 17.72(450) | 18.1(460) | 636(289) |
| 1608 | 8(200) | 16(400) | 22.4(565) | 27.65(700) | 647(394) |
| 1810 | 10(250) | 18(400) | 22.05(560) | 31.18(792) | 1012(460) |
| 2010 | 10(250) | 20(500) | 26.38(670) | 31.5(800) | 1067(485) |
| 2212 | 12(300) | 22(550) | 30.7(780) | 35.43(900) | 1166(530) |
| 2412 | 12(300) | 24(600) | 30.7(780) | 35.43(900) | 1199(545) |
| 3216 | 16(400) | 32(800) | 40.0(1015) | 55.12(1400) | 1309(595) |
| 4020 | 20(500) | 40(1000) | 48.43(1230) | 63.00(1600) | 1430(650) |
| 4824 | 24(600) | 48(1200) | 57.28(1455) | 70.87(1800) | 1782(810) |
| 6432 | 32(800) | 64(1600) | 75.39(1915) | 70.84(2000) | 2244(1020) |
| 8040 | 40(1000) | 80(2000) | 91.45(2325) | 86.61(2000) | 2728(1240) |

Dimensions may vary somewhat from those given above. Allow for a tolerance of ± 1.00" (25 mm).
Specific dimensions available on request.

6400 Flame Arrester Model Number



Sample:

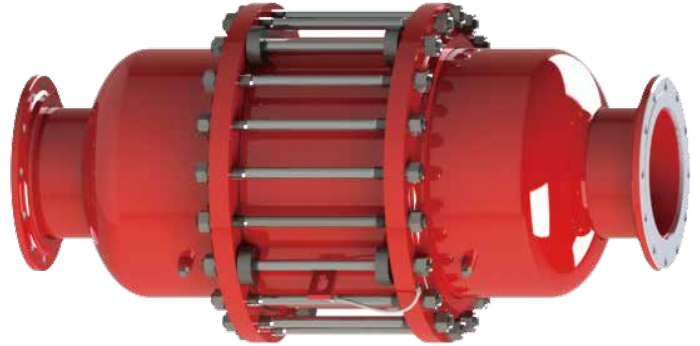


Indicates an Inline Detonation Flame Arrester with a 12" housing and 6" connections. Carbon steel housing material and 304 stainless steel NEC Group " D " flame cell element. Raised Face Flange. Options are Drain plugs and temperature probe taps



6500 Unstable Detonation Flame Arrester

Model 6500 is designed for unrestricted unstable detonation. It is bi-directional in construction and have been tested to stop ignited combustible vapor mixtures traveling at subsonic or supersonic speeds from either direction.



Features

- Less Clogging
- Less Maintenance
- Easy Cleaning
- Maximum flow
- Fluoropolymer coated hardware provides outstanding corrosion and chemical resistance.
- Accessible and removable flame cell for easy inspection and maintenance
- Bi-Directional Design
- Available in ANSI, DIN and HG/T20592~20635-2009 flanges

Flame Arrester Specifications

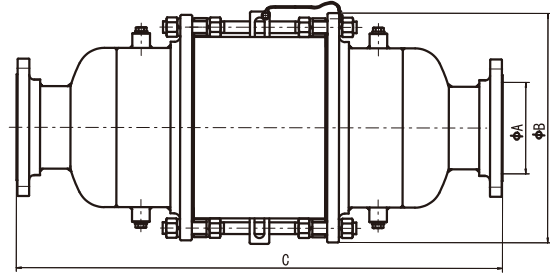
| Model | Size Available |
|---|-------------------------|
| 6500 In-Line Unstable Detonation Flame Arrester | 1/2" (13mm)-12" (300mm) |

Materials of Construction

| Housing | Element | Gap group |
|----------------------|----------------------|-----------|
| Carbon Steel | 304stainless Steel | IIA (D) |
| 304Stainless Steel | 316L Stainless Steel | IIB3 (C) |
| 316L Stainless Steel | Hastelloy | IIC (B) |
| Hastelloy | | |



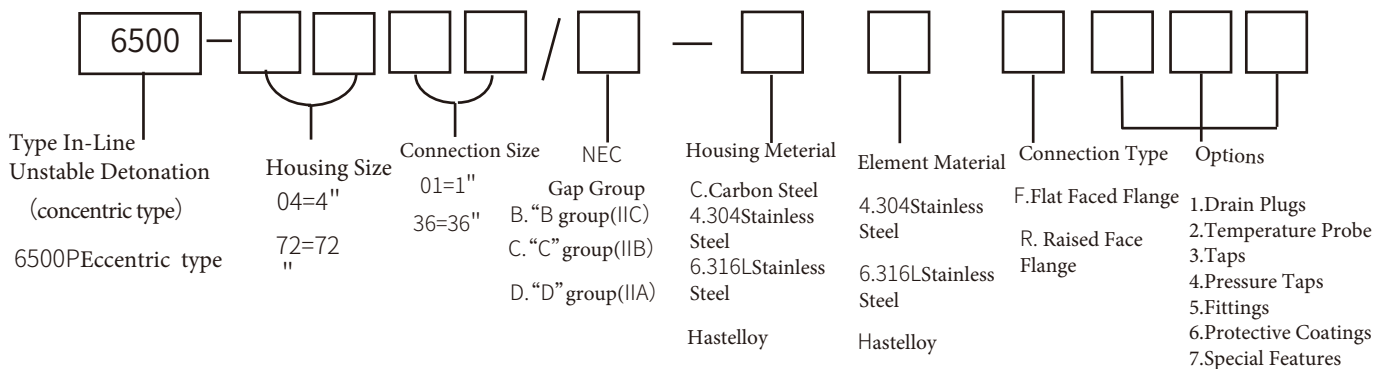
6500 Unstable Detonation Flame Arrester



6500 Unstable Detonation Flame Arrester Dimension Model

| Model | Connection size A (in) | Housing Size (in) | Diameter B (mm) | Height C (mm) |
|-------|------------------------|-------------------|-----------------|---------------|
| 6500 | 2 | 4 | 220 | 460 |
| 6500 | 3 | 6 | 285 | 500 |
| 6500 | 4 | 8 | 340 | 550 |
| 6500 | 6 | 12 | 460 | 980 |
| 6500 | 8 | 16 | 580 | 1160 |
| 6500 | 10 | 20 | 715 | 1350 |
| 6500 | 12 | 24 | 868 | 1652 |

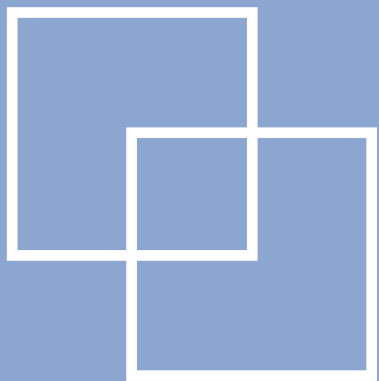
BasCo 6500 Flame Arrester Model Number



Sample:

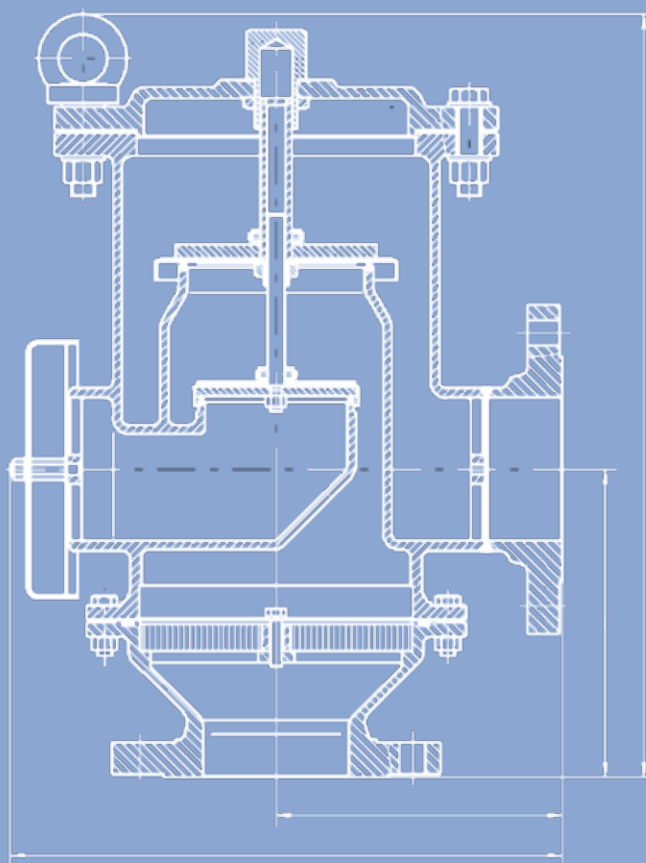
Indicates an Inline Unstable Detonation Flame Arrester with a 12" housing and 6" connections. Carbon steel housing material and 304 stainless steel NEC Group "D" flame cell element. Raised Face Flange. Options are Drain plugs and temperature probe taps.





Model 5000

Pressure Vacuum Relief Valve



5100 END-OF-LINE BREATHER VALVE



BasCo Pressure Vacuum Relief Valve 5100 Type

Dual guide system (Patent No.ZL 2019 2 0932260.0) provides for smoother valve stroke, less flutter and valve wear.

10% overpressure to reach full lift.

The model 5100 End-of-Line Pressure Vacuum Relief Valve maintains a tight seal until system pressure or vacuum exceeds the set pressure of the valve. When over pressure occurs, the weighted pallet lifts, breaking the seal between the seat and pallet, allowing vapors to pass through the valve orifice and relieving the pressure or vacuum buildup. The valve reseals upon relief and remains sealed.

Features

- Dual guide system provides for smoother valve stroke, less flutter and valve wear.
- For the allowable leakage, it exceeds the most stringent standard and ensures a very high setting accuracy ($\pm 3\%$)
- 10% overpressure to full lift.
- In-situ replacement for valve pallet and seat assembly
- Available in ANSI, DIN and HG/T20592~20635-2009 flanges

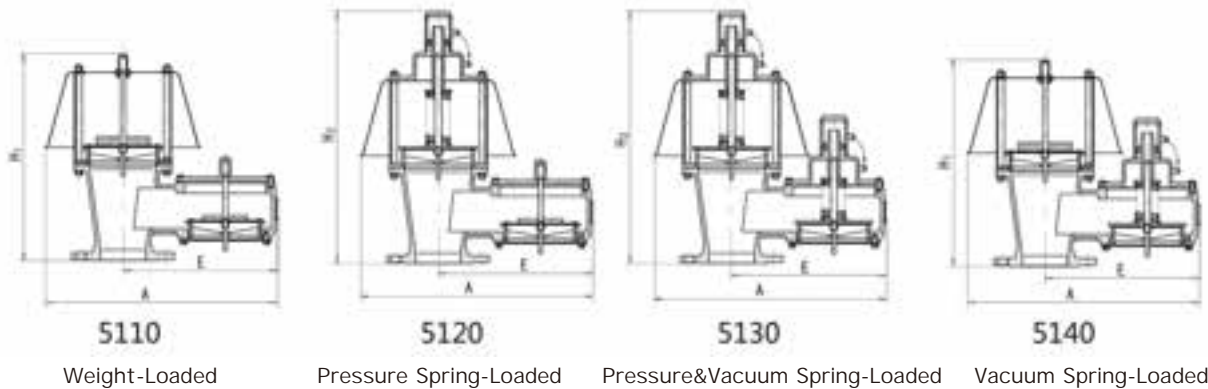
Setting Pressures

| Type | Size | Set Pressure | Set Vacuum |
|------|-----------------------|---------------------------------------|--|
| 5110 | 1.5”(40mm)-12”(300mm) | 0.8-28inH ₂ O(2.0-69mbar) | 0.8-17.3inH ₂ O(2.0-43mbar) |
| 5120 | 1.5”(40mm)-12”(300mm) | 28-415inH ₂ O(69-1034mbar) | 0.8-17.3inH ₂ O(2.0-43mbar) |
| 5130 | 1.5”(40mm)-12”(300mm) | 28-415inH ₂ O(69-1034mbar) | 17.3-19.3inH ₂ O(43-48mbar) |
| 5140 | 1.5”(40mm)-12”(300mm) | 0.8-28inH ₂ O(2.0-69mbar) | 17.3-19.3inH ₂ O(43-48mbar) |

Materials of Contraction

| Body | Seat/Pallet | Trim Seal | Fasteners | Weighted | Gasket |
|---------------------------------|-----------------|--------------------|-----------------------------------|---|-----------------------------------|
| Carbon Steel Stainless Steel | Stainless Steel | FEP Buna-Nviton | Galvanized C.S Stainless Steel | Galvanized C.S Stainless Steel Aluminum Resin Coated S.S | Buna-N Teflon Viton Buna |

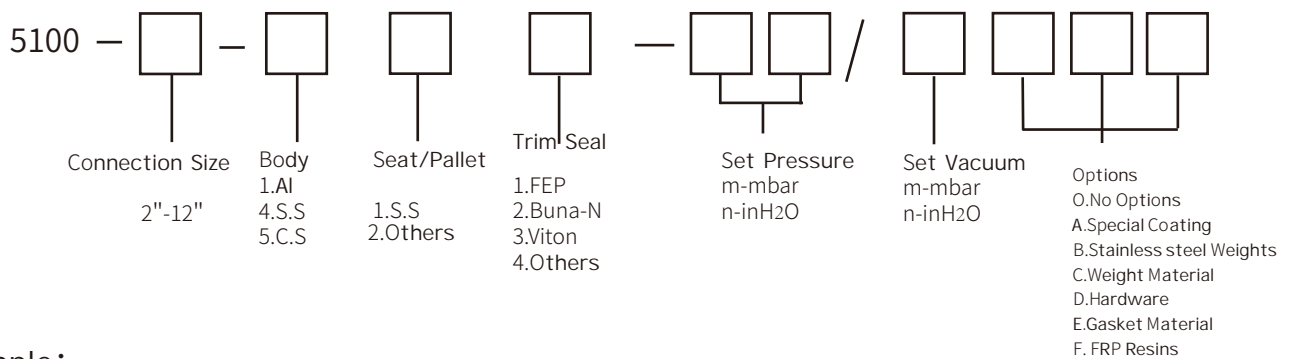




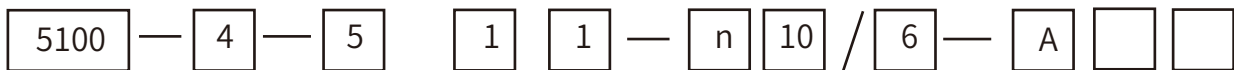
5100 Dimensions

| Type | Inlet In(mm) | A In(mm) | H1 In(mm) | H2 In(mm) | E In(mm) | C.S Weight Lb(kg) |
|------|--------------|------------|------------|------------|------------|-------------------|
| 5100 | 2(50) | 11.81(300) | 10.83(275) | 13.31(338) | 7.87(200) | 54(24) |
| 5100 | 3(80) | 13.38(340) | 12.2(310) | 15.35(390) | 9.06(230) | 63(31) |
| 5100 | 4(100) | 15.75(400) | 14.76(375) | 16.93(430) | 10.71(272) | 118(58) |
| 5100 | 6(150) | 20.67(525) | 19.7(500) | 23.62(600) | 13.78(350) | 128(62) |
| 5100 | 8(200) | 25.59(650) | 22.95(583) | 26.69(678) | 17.01(432) | 235(115) |
| 5100 | 10(250) | 30.12(765) | 26.57(675) | 29.92(760) | 20.28(515) | 343(156) |
| 5100 | 12(300) | 38(965) | 32.28(820) | 35.47(901) | 25.79(655) | 373(184) |

BasCo Breather Valve Model Number:



Sample:



Indicates an End-of-Line Pressure Vacuum Relief Valve with Inlet 4" ,ANSI 150 lb. flat face flange pattern connections,carbon steel body material,stainless steel valve pallet and seat, and FEP Teflon sealing. Set Pressure is 10inH2O and Set Vacuum is 6inH2O . Option is special coating .



5200 In-Line Breather Valve



The model 5200 In-Line Pressure Vacuum Relief Valve maintains a tight seal until system pressure or vacuum exceed the set pressure of the valve.

When overpressure occurs the weighted pallet lifts, breaking the seal between the seat and pallet, allowing vapors to pass through the valve orifice and relieving the pressure or vacuum buildup. The valve reseals upon relief and remains sealed.

Features

1. Dual guide system provides for smoother valve stroke, less flutter and valve wear.
2. Exceeds the most stringent standards for allowable leakage (far less than API2000 standard) and provides excellent set point accuracy (+/-3%).
3. 10% overpressure to full lift; In-situ replacement for valve pallet and seat assembly; Available in ANSI, DIN and HG/T20592-20635-2009 flanges

Setting Pressures

| Type | Size | Set Pressure | Set Vacuum |
|------|-----------------------|--------------------------|---------------------------|
| 5210 | 1.5"(40mm)-12"(300mm) | 0.8-28inH2O(2.0-69mbar) | 0.8-17.3inH2O(2.0-43mbar) |
| 5220 | 1.5"(40mm)-12"(300mm) | 28-415inH2O(69-1034mbar) | 0.8-17.3inH2O(2.0-43mbar) |
| 5230 | 1.5"(40mm)-12"(300mm) | 28-415inH2O(69-1034mbar) | 17.3-19.3inH2O(43-48mbar) |
| 5240 | 1.5"(40mm)-12"(300mm) | 0.8-28inH2O(2.0-69mbar) | 17.3-19.3inH2O(43-48mbar) |

Materials of Construction

| Body | Seat/Pallet | Trim Seal | Fasteners | Weighted | Gasket |
|---|-----------------------------|----------------------------|----------------------------------|---|---------------------------|
| Aluminum Carbon Steel Stainless Steel | Stainless Steel Aluminum | FEP Teflon Buna-Nvition | Galvanized CS Stainless Steel | Galvanized C.S Stainless Steel Aluminum Resin Coated S.S | Buna-N Teflon Viton |



5200 In-Line Breather Valve (plastic)



● Model 5200 In-Line Pressure Vacuum Relief Valve maintains a tight seal until system pressure or vacuum exceed the set pressure of the valve. When overpressure occurs the weighted pallet lifts, breaking the seal between the seat and pallet, allowing vapors to pass through the valve orifice and relieving the pressure or vacuum buildup. The valve reseals upon relief and remains sealed.

Features

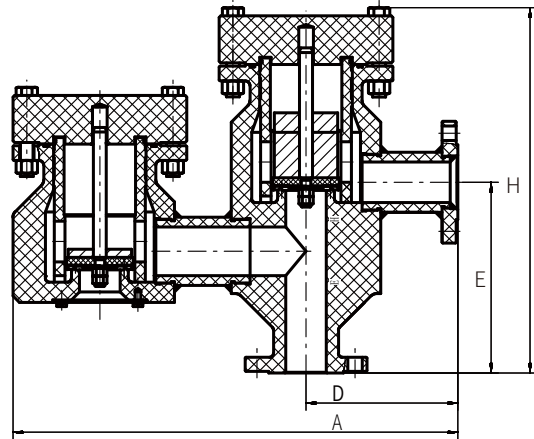
- Dual guide system provides for smoother valve stroke, less flutter and valve wear.
- Exceeds the most stringent standards for allowable leakage (far less than API2000 standard) and provides excellent set point accuracy (+/-3%).
- 10% overpressure to full lift; In-situ replacement for valve pallet and seat assembly;

Setting Pressures

| Model | Size | Set Pressure | Set Vacuum |
|-------|----------------------|---|--|
| 5210 | 1" (25mm)-6" (150mm) | 0.8-60.2inH ₂ O(2.0-150mbar) | 0.8-17.3inH ₂ O(2.0-43mbar) |

Material

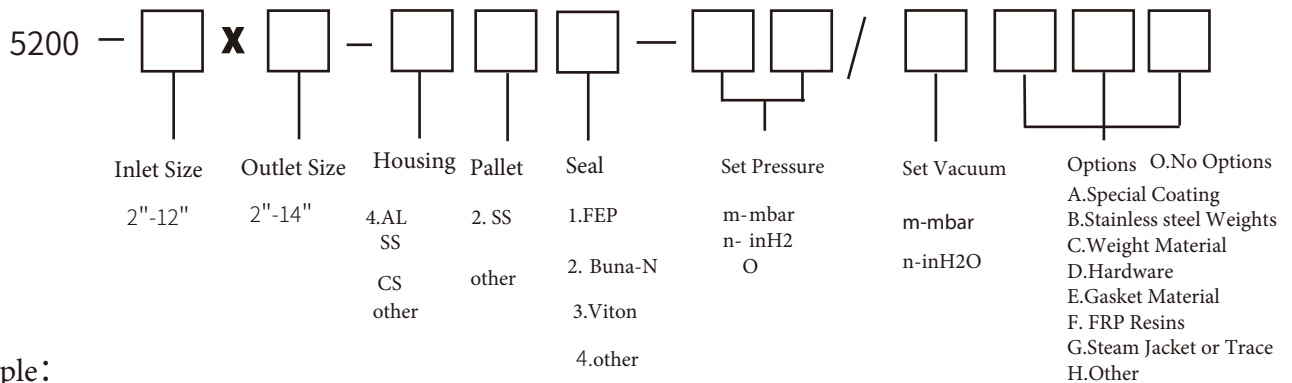
| Housing | Seat/Pallet | Sealing | Fasteners | Counter Weight | Gasket |
|-----------------|-----------------|---------------------|-----------------|----------------------------------|------------------------|
| PP PE PVC | PP PE PVC | FEP Buna-Nvition | PP PE PVC | CS w/ coating Lead w/ coating | Buna-N FEP Viton |



Size

| Model | Diameter In | A mm | H mm | D mm | E mm |
|-------|-------------|------|------|------|------|
| 5210 | 1" | 455 | 306 | 140 | 140 |
| 5210 | 2" | 548 | 450 | 187 | 235 |
| 5210 | 3" | 600 | 470 | 200 | 248 |
| 5210 | 4" | 687 | 515 | 221 | 284 |
| 5210 | 6" | 762 | 610 | 247 | 349 |

BasCo 5200 Breather Valve Model Number :



Sample:



Indicates an In-Line Pressure Vacuum Relief Valve with Inlet 2" by Outlet 3" ,ANSI 150 lb. flat face flange pattern connections,carbon steel body material,stainless steel valve pallet and seat, and FEP Teflon sealing. Set Pressure is 12inH2O and Set Vacuum is 6inH2O . Options are special coating and stainless steel weights.

Model 5300 Pressure Relief Valve



Model 5300 top mounted pressure relief valve is an advanced design suitable for direct discharge applications. It incorporates the latest technology to provide overpressure protection, prevent air intake, reduce product evaporation losses and help suppress odorous vapours and hazardous vapours.

- The bi-directional guide (top and bottom) trim for smoother valve strokes, reduced chattering and valve wear.
- Easy maintenance.
- Standard temperature range -26°C to 206°C, special requirement on request.

Features

- Double guide valve system for smoother valve strokes during operation
- The use of advanced sealing technology for a permissible leakage superior to API 2000,
- Pressure Set Point accuracy ($\pm 3\%$) is guaranteed.
- Full opening at 10% over pressure
- Easy maintenance.
- Available in ANSI, DIN and HG/T20592~20635~2009 flanges.

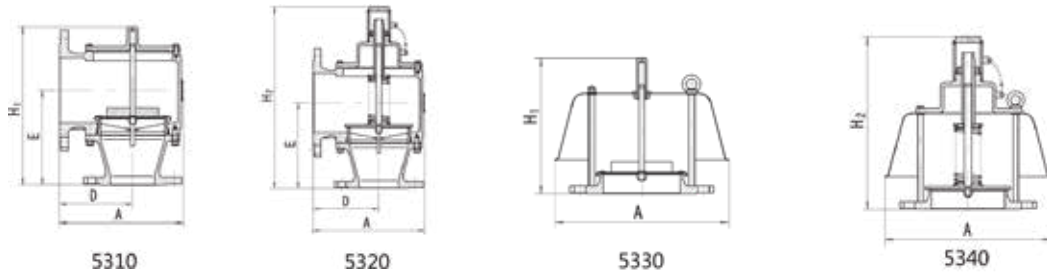
Set Pressure

| Model | Size | Set Pressure |
|-------|-----------------------|--------------------------------------|
| 5310 | 2" (50mm)-12" (300mm) | 0.8-28InH ₂ O(2.0-69mbar) |
| 5310 | 2" (50mm)-12" (300mm) | 28-415InH ₂ O(69-103mbar) |
| 5310 | 2" (50mm)-12" (300mm) | 0.8-28InH ₂ O(2.0-69mbar) |
| 5310 | 2" (50mm)-12" (300mm) | 28-415InH ₂ O(69-103mbar) |

Material

| Body | Seat/Pallet | Trim | Fasteners | Counter Weights | Gasket |
|------|-------------|-------------|---------------|-----------------|--------|
| AL | SS | FEP | Galvanized CS | Galvanized CS | Buna-N |
| SS | AL | Buna-Nviton | SS | SS | FEP |
| CS | | | | AL | Viton |





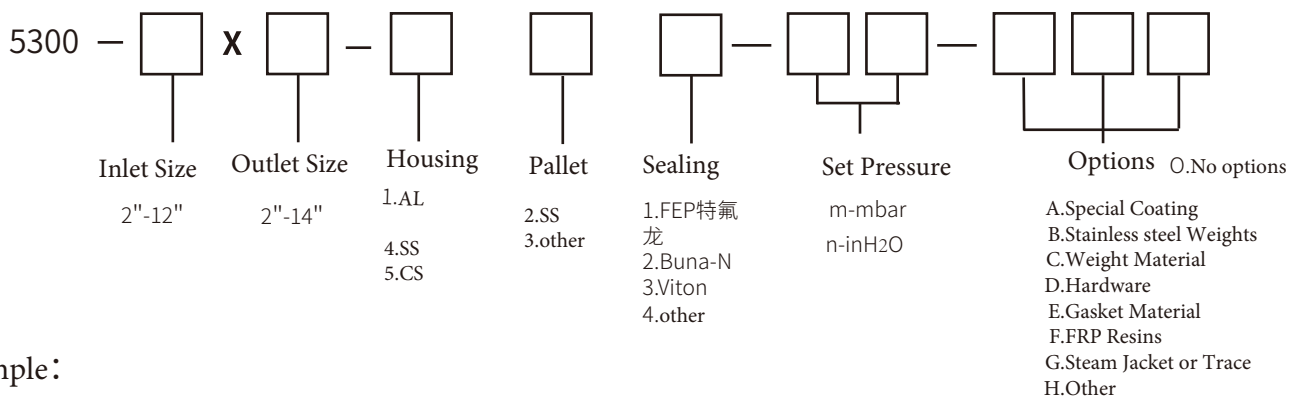
Size for Model 5310 and 5320

| Model | Inlet Connection In (mm) | Outlet Connection In (mm) | A Length In (mm) | H1 Height In (mm) | H2 Height In (mm) | D Center width In (mm) | E Center Height In (mm) | Estimated weight LB(kg) |
|-------|--------------------------|---------------------------|------------------|-------------------|-------------------|------------------------|-------------------------|-------------------------|
| 5300 | 2(50) | 2(50) | 6.77(172) | 7.95(202) | 10.43(265) | 4.13(105) | 4.72(120) | 65(32) |
| 5300 | 2(50) | 3(80) | 7.68(195) | 9.25(235) | 12.4(315) | 4.72(120) | 5.51(140) | 100(45) |
| 5300 | 3(80) | 3(80) | 7.68(195) | 9.25(235) | 12.4(315) | 4.72(120) | 5.51(140) | 112(51) |
| 5300 | 3(80) | 4(100) | 9.25(235) | 11.14(283) | 13.7(348) | 5.51(140) | 6.5(165) | 124(56) |
| 5300 | 4(100) | 4(100) | 9.25(235) | 11.14(283) | 13.7(348) | 5.51(140) | 6.5(165) | 134(61) |
| 5300 | 4(100) | 6(150) | 11.2(285) | 14.49(368) | 18.43(468) | 6.69(170) | 8.66(220) | 147(67) |
| 5300 | 6(150) | 6(150) | 11.2(285) | 14.49(368) | 18.43(468) | 6.69(170) | 8.66(220) | 158(72) |
| 5300 | 6(150) | 8(200) | 13.39(340) | 17.32(440) | 21.06(535) | 7.87(200) | 9.84(250) | 171(78) |
| 5300 | 8(200) | 8(200) | 13.39(340) | 17.32(440) | 21.06(535) | 7.87(200) | 9.84(250) | 187(85) |
| 5300 | 8(200) | 10(250) | 15.67(398) | 20.31(516) | 23.62(600) | 8.86(225) | 11.02(280) | 198(90) |
| 5300 | 10(250) | 10(250) | 15.67(398) | 20.31(516) | 23.62(600) | 8.86(225) | 11.02(280) | 242(110) |
| 5300 | 10(250) | 12(300) | 19.53(496) | 23.66(601) | 27.56(700) | 11.02(280) | 12.6(320) | 266(121) |
| 5300 | 12(300) | 12(300) | 19.53(496) | 23.66(601) | 27.56(700) | 11.02(280) | 12.6(320) | 308(140) |
| 5300 | 12(300) | 14(350) | 21.65(550) | 26.22(666) | 30.18(766) | 12.2(310) | 13.78(350) | 352(160) |

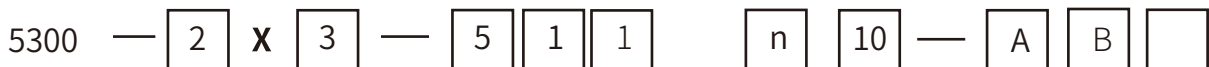
Size for Model 5330 and 5340 Approx Weight

| Model | Inlet connection In (mm) | A Length In (mm) | H1 Height In (mm) | H2 Height In (mm) | Estimated Weight(Carbon Steel)Lb (kg) |
|-------|--------------------------|------------------|-------------------|-------------------|---------------------------------------|
| 5300 | 2(50) | 6.85(174) | 5.35(136) | 7.87(200) | 54(24) |
| 5300 | 3(80) | 8.27(210) | 6.38(162) | 19.65(245) | 58(26) |
| 5300 | 4(100) | 9.84(250) | 7.87(200) | 10.43(265) | 110(50) |
| 5300 | 6(150) | 13.39(340) | 10.39(264) | 14.33(364) | 123(56) |
| 5300 | 8(200) | 16.14(410) | 12.6(320) | 16.34(415) | 156(71) |
| 5300 | 10(250) | 18.9(480) | 15.75(400) | 19.1(485) | 187(85) |
| 5300 | 12(300) | 22.83(580) | 18.11(460) | 22.05(560) | 264(120) |

BasCo 5300 Pressure Relief Valve Number:



Sample:



Indicates a Pressure Relief Valve with Inlet size 2", outlet size 3", ANSI 150lbs flange, body material carbon steel, pallet material stainless steel and FEP sealing, set pressure 10 inH2O.

Model 5400 Vacuum Relief Valve



Model 5400 Vacuum Relief Valve, is designed for inbreathing applications. Model 5400 with latest technology provides vacuum protection, reduces product evaporation and helps contain odorous and hazardous vapors.

The applicable temperature range is from -26°C to $+206^{\circ}\text{C}$, and the applicable temperature range of special design is -180°C to 206°C .

Features

- Double guide valve system for smoother valve strokes during operation
- The use of advanced sealing technology for a permissible leakage superior to API 2000,
- Pressure Set Point accuracy ($\pm 3\%$) is guaranteed.
- Full opening at 10% over pressure
- Easy maintenance.
- Available in ANSI, DIN and HG/T20592~20635~2009 flanges.

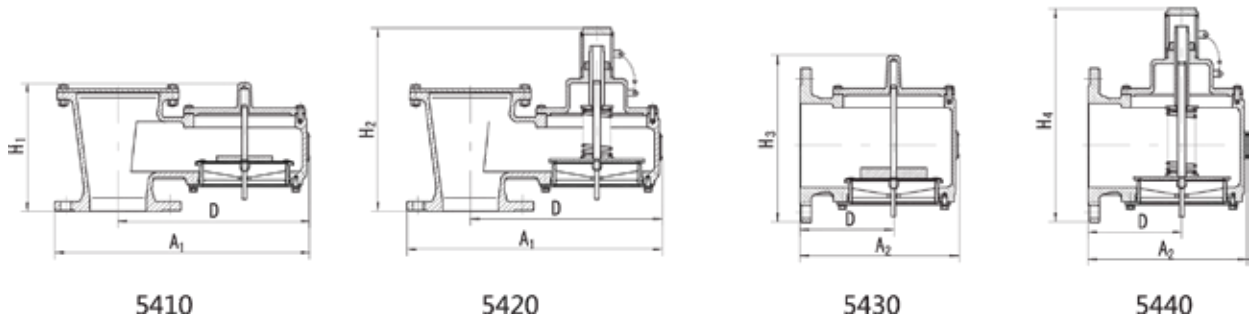
Set Pressure

| Model | Size | Set Pressure |
|-------|-----------------------|--|
| 5410 | 2" (50mm)-12" (300mm) | 0.8-17.3InH ₂ O(2.0-43mbar) |
| 5410 | 2" (50mm)-12" (300mm) | 17.3-19.3InH ₂ O(43-48mbar) |
| 5410 | 2" (50mm)-12" (300mm) | 0.8-17.3InH ₂ O(2.0-43mbar) |
| 5410 | 2" (50mm)-12" (300mm) | 17.3-19.3InH ₂ O(43-48mbar) |

Material

| Body | Seat/Pallet | Trim | Fasteners | Counter Weights | Gasket |
|------|-------------|-------------|---------------|-----------------|--------|
| AL | SS | FEP | Galvanized CS | Counter Weights | Buna-N |
| SS | AL | Buna-Nviton | SS | SS | FEP |
| CS | | | | AL | Viton |

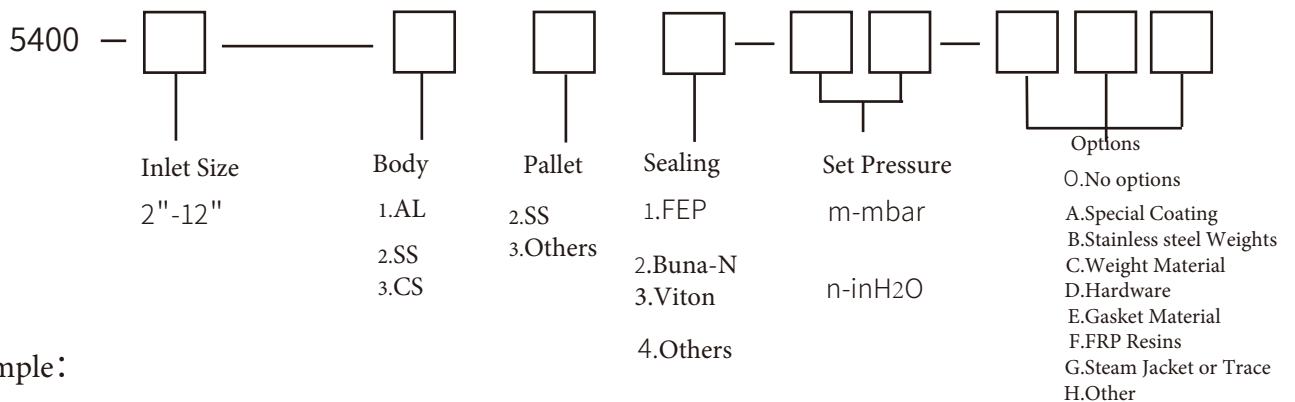




Size for Model 5400

| Model | Inlet connection In (mm) | A1 Length In (mm) | A2 Length In (mm) | H1 Height In (mm) | H2 Height In (mm) | H3 Height In (mm) | H4 Height In (mm) | D1 Height In (mm) | D2 Height In (mm) | Carbon Steel Estimated Weight Lb (Kg) |
|-------|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------------------|
| 5400 | 1.5(40) | 10.71(272) | 6.81(173) | 6.10(155) | 8.66(225) | 6.3(160) | 8.78(223) | 4.21(107) | 4.13(105) | 37(18) |
| 5400 | 2(50) | 10.71(272) | 6.81(173) | 6.10(155) | 8.66(225) | 6.3(160) | 8.78(223) | 4.21(107) | 4.13(105) | 54(24) |
| 5400 | 3(80) | 12.8(325) | 7.68(195) | 6.38(162) | 9.96(253) | 7.68(195) | 10.83(275) | 9.06(230) | 4.72(120) | 63(31) |
| 5400 | 4(100) | 15.2(386) | 9.06(230) | 8.27(210) | 11.1(282) | 9.41(239) | 12.01(305) | 10.63(270) | 4.72(120) | 104(47) |
| 5400 | 6(150) | 19.21(488) | 11.42(290) | 10.55(268) | 14.88(378) | 11.93(303) | 15.91(404) | 14.17(360) | 6.69(170) | 119(54) |
| 5400 | 8(200) | 23.82(605) | 13.78(350) | 11.7(297) | 15.83(402) | 14.49(368) | 18.43(468) | 17.4(442) | 7.87(200) | 300(136) |
| 5400 | 10(250) | 28.27(718) | 15.47(393) | 13.58(345) | 17.64(448) | 17.48(444) | 20.87(530) | 22.64(575) | 8.86(225) | 328(149) |
| 5400 | 12(300) | 35.43(900) | 19.53(496) | 15.87(403) | 39.30(998) | 21.90(556) | 26.00(660) | 26.00(660) | 11.02(280) | 347(157) |

BasCo 5400 Pressure Relief Valve Number:



Sample:



Indicates a Vacuum Relief Valve with Inlet size 4", ANSI 150lbs flange, body material carbon steel, pallet material stainless steel and FEP sealing, set pressure 10 inH2O.

5500 Pilot-operated Breather Valve



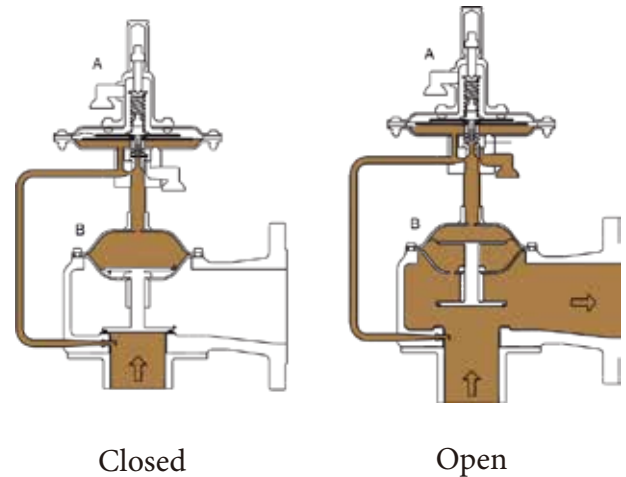
Model 5500 is pilot-operated high-performance breathing valve that uses state-of-the-art technology to provide over-pressure protection, and reduce evaporation and off gassing, thereby reducing product loss and disposal emissions cost. The allowable operating pressure of pilot-operated breathing valve can close up to the maximum allowable working pressure of the tank.

- Features and Benefits
- High sealing performance, always maintain high sealing performance before the valve is opened
- Full opening at 10% over pressure
- Minimizes VOC and odor emissions
- The applicable temperature range is from -26°C to +206°C, and the applicable temperature range of specially design is -180°C to + 206°C

Schematic Diagram of Action Principle

The function of the pilot valve (A) is to control the pressure of the main valve or the upper dome cap. When the pressure in the storage tank reaches the regulated pressure, the upward force acting on the inductive spacer of the control valve overcomes the downward elasticity. The sliding causes a reduction in pressure at the top of the dome cap (B). The pressure acting on the main valve seat will make the valve open to relieve the over-pressure.

As long as the pressure in the storage tank is higher than the set pressure of the control valve, the main valve remains open. When the pressure in the storage tank drops to the reset pressure of the control valve, the control valve closes and allows the storage tank water vapour to flow back into the (B) upper dome cap. When the pressure in the upper dome cap rises, the support plate union is pressed against the base.



Valve Acting Range

| Size | Body | Seat/Pallet | Sealing | Trim | Gasket |
|--------|-------|-------------|---------|-------------|--------|
| 2"-12" | AL | SS | FEP | SS Other | Buna-N |
| | SS | | Viton | | FEP |
| | CS | | Buna-N | | Viton |
| | Other | | FFKM | | |

5560 Pilot-operated Pressure Relief Valve



Model 5560 is pilot-operated high-performance pressure relief valve that uses state-of-the-art technology to provide over-pressure protection, and reduce evaporation and off gassing, thereby reducing product loss and disposal emissions cost.

The allowable operating pressure of pilot-operated breathing valve can close up to the maximum allowable working pressure of the tank.

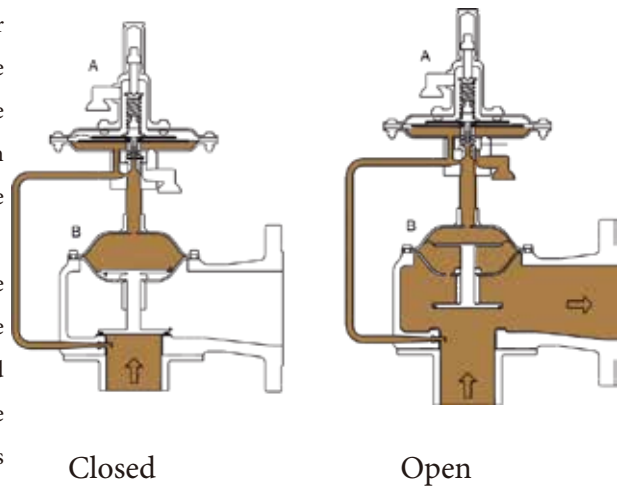
Features and Benefits

- High sealing performance, always maintain high sealing performance before the valve is opened
- Full opening at 10% over pressure
- Minimizes VOC and odor emissions
- The applicable temperature range is from -26°C to +206°C, and the applicable temperature range of specially design is -180°C to + 206°C

Schematic Diagram of Action Principle

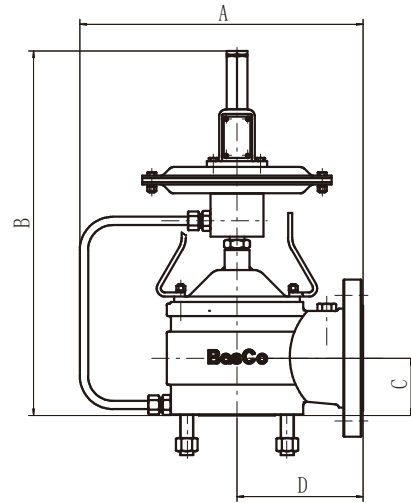
The function of the pilot valve (A) is to control the pressure of the main valve or the upper dome cap. When the pressure in the storage tank reaches the regulated pressure, the upward force acting on the inductive spacer of the control valve overcomes the downward elasticity. The sliding causes a reduction in pressure at the top of the dome cap (B). The pressure acting on the main valve seat will make the valve open to relieve the over-pressure.

As long as the pressure in the storage tank is higher than the set pressure of the control valve, the main valve remains open. When the pressure in the storage tank drops to the reset pressure of the control valve, the control valve closes and allows the storage tank water vapour to flow back into the (B) upper dome cap. When the pressure in the upper dome cap rises, the support plate union is pressed against the base.



Valve Setting Range

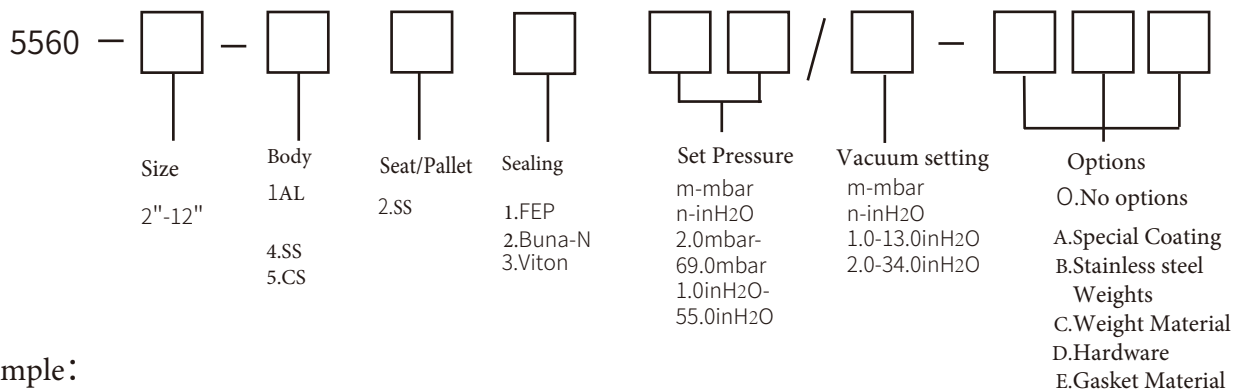
| Size | Body | Seat/Pallet | Sealing | Trim | Gasket |
|---------|-------|-------------|-----------|-------|------------------------|
| 2" -12" | AL | SS | FEP Viton | SS | Buna-N FEP Viton |
| | SS | | Buna-N | | |
| | CS | | FFKM | Other | |
| | Other | | | | |



Size for Model 5560

| Model | Size | | A mm | B mm | C mm | D mm | Weight kg |
|-------|------------|-------------|---------|---------|---------|---------|--------------|
| | InletIn/mm | OutletIn/mm | | | | | |
| 5560 | 2"/50 | 3"/80 | 298 | 502 | 70 | 152 | 14 |
| 5560 | 3"/80 | 4"/100 | 375 | 546 | 64 | 203 | 20 |
| 5560 | 4"/100 | 6"/150 | 457 | 552 | 102 | 254 | 25 |
| 5560 | 6"/150 | 8"/200 | 540 | 660 | 110 | 305 | 36 |
| 648 | 8"/200 | 10"/250 | 648 | 711 | 135 | 356 | 59 |
| 5560 | 10"/250 | 12"/300 | 806 | 800 | 169 | 457 | 77 |
| 5560 | 12"/300 | 16"/400 | 927 | 889 | 203 | 511 | 104 |

BasCo Model 5560:



Sample:



Indicates a Pilot-operated Pressure Relief Valve with connection size 2", body material carbon steel, trim material stainless steel and Buna-N sealing, set pressure 12 inH2O, set vacuum 6 inH2O.

5620 PVRV with Integrated Flame Arrester

The Model 5620 series is a member of the BasCo high performance breathing valve family.



- Reduced space and weight, large ventilation, small leakage, higher sealing performance
- Optional fire resistance function. Using the latest technology, combining fire suppression with respiratory function.
- Disc assembly can be replaced on site
- suitable for temperature range from -26°C to 206°C

Features

- Stainless steel and FEP for valve seat and trim, with resistance to corrosion
- 10% over-pressure to full lift.
- For allowable leakage (leakage much less than API2000 standard)
- In-situ replacement for valve pallet and seat assembly
- Available in ANSI, DIN and HG/T20592~20635-2009 flanges

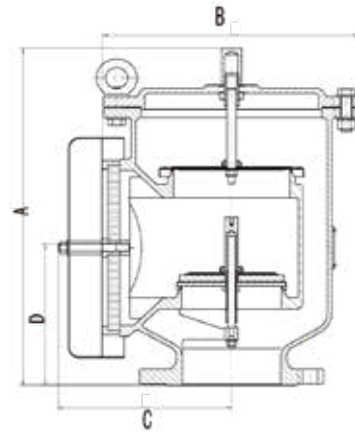
Size Range

| Model | Size |
|-------|------------------------|
| 5620 | 2" (50mm) -12" (300mm) |

Materials

| Body | Seat/Pallet | Trim | Fasteners | Weight | Gasket |
|----------------|-------------|--------------------|---------------------|---------------------------|------------------------|
| AL SS CS | SS AL | FEP Buna-Nviton | Galvanized CS SS | Galvanized CS SS AL | Buna-N FEP Viton |

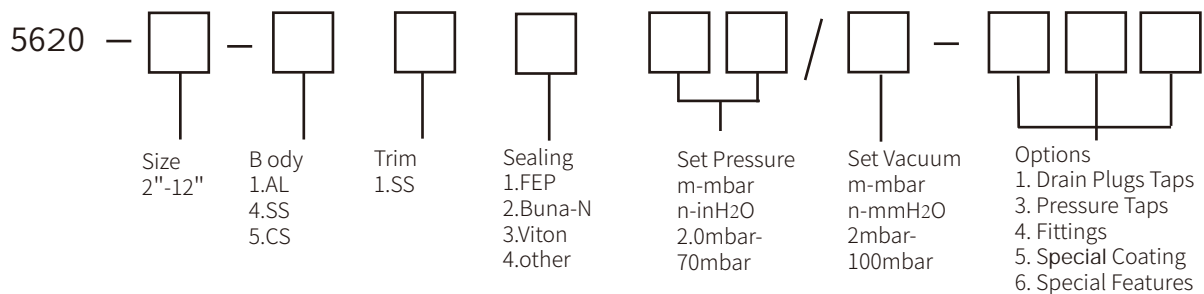
5620 PVRV with Integrated Flame Arrester



Sizes and Weight of Model 5620

| Model | In (mm) | A/mm | B/mm | C/mm | D/mm | Weight/kg |
|-------|---------|------|------|------|------|-----------|
| 5620 | 2(50) | 356 | 265 | 155 | 126 | 22 |
| 5620 | 3(80) | 406 | 317 | 182 | 150 | 34 |
| 5620 | 4(100) | 491 | 373 | 218 | 180 | 53 |
| 5620 | 6(150) | 551 | 465 | 270 | 225 | 84 |
| 5620 | 8(200) | 682 | 595 | 272 | 264 | 150 |
| 5620A | 10(250) | 710 | 690 | 445 | 288 | 185 |
| 5620B | 10(250) | 765 | 705 | 420 | 300 | 260 |
| 5620A | 12(300) | 740 | 785 | 510 | 336 | 228 |
| 5620B | 12(300) | 765 | 710 | 420 | 340 | 280 |
| 5620C | 12(300) | 960 | 740 | 444 | 396 | 350 |

BasCo Model:



Sample:



Indicates an End of Line Breather Valve with Integrated Flame Arrester with Inlet 4", ANSI 150lb. flat face flange pattern connections, carbon steel body material, stainless steel valve pallet and seat, and FEP Teflon sealing. Set Pressure is 10inH₂O and Set Vacuum is 6inH₂O. Option is special coating.

5800 In-Line PVRV with Integrated Flame Arrester



Model 5800 is In-Line breather valve with integrated flame Arrester

- Reduced space and weight, large ventilation, small leakage ,higher sealing performance
- Optional fire resistance function. Using the latest technology, combining fire suppression with respiratory function.
- Disc assembly can be replaced on site
- Suitable for temperature range from -26°C to 206°C

Features

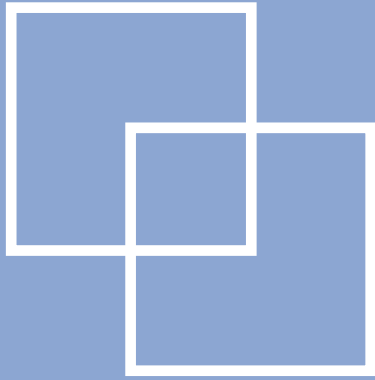
- Stainless steel and FEP for valve seat and trim,
- with resistance to corrosion
- 10% over-pressure to full lift.
- For allowable leakage (leakage much less than API2000 standard)
- In-situ replacement for valve pallet and seat assembly
- Available in ANSI, DIN and HG T20592~20635-2009 flanges

Valve Setting Range

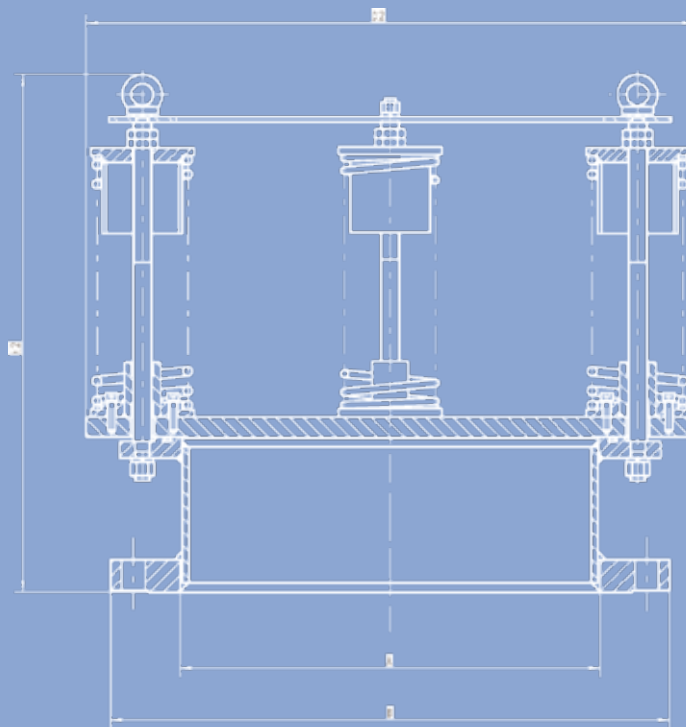
| Model | Size |
|-------|------------------------|
| 5800 | 2" (50mm) -12" (300mm) |

Material

| Body | Seat/Pallet | Trim | Fasteners | Counter Weight | Gasket |
|------|-------------|--------------|---------------|----------------|--------|
| AL | SS | FEP | Galvanized CS | Galvanized CS | Buna-N |
| SS | AL | Buna-Nvition | SS | SS | FEP |
| CS | | | | AL | Viton |



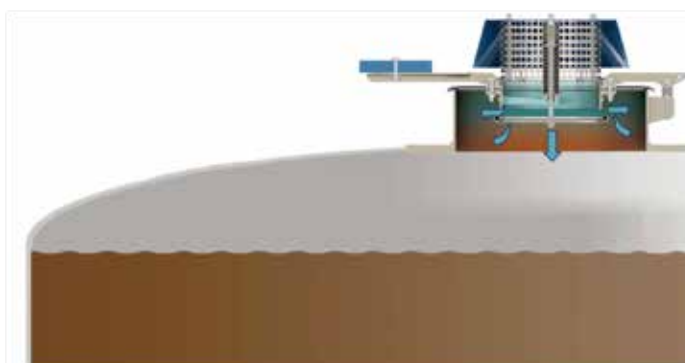
Model 7000 Emergency Relief Valve (Manhole Vent)



Pressure Relief



Vacuum Relief



Principle of Operation

In the event of pressure build-up in the tank due to an emergency situation caused by operational errors such as work or external fires or rainfall.

The opening action of the Emergency Pressure/Vacuum Relief valve is as follows:

When the pressure is exceeded, the valve disc receives an upward force and the valve cover opens to relieve the pressure. When the pressure reaches 90% of the set pressure, the valve disc returns to its seat and seals.

When a vacuum builds up in the tank, the valve disc opens downwards to release the vacuum. When the vacuum reaches 90% of the set vacuum, the valve disc returns to its seat and seals again.

Classification

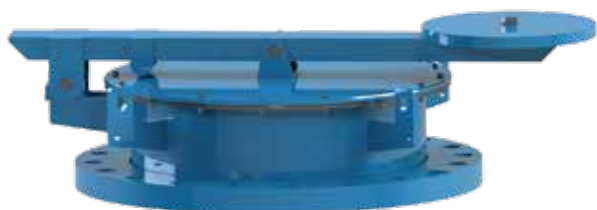
By pressure/vacuum relief: emergency pressure relief valves, emergency pressure/vacuum relief valves

By loaded type: weight loaded, spring loaded and pilot operated.

By opening type: hinged opening, vertical opening



Model 7100 Emergency Pressure Relief Valve



Model 7100 provides emergency protection for storage tanks and is used to deal with tank overpressure situations that cannot be dealt with by the standard venting of the tank. The relief valve is sized and designed to provide discharge capacity in accordance with API 2000 standards and is sufficient for emergency venting due to fire.

It's very convenient for tank inspection and maintenance.

Model 7100 emergency pressure relief valve is pressure relief only.

Features

- The use of advanced sealing technology for a permissible leakage superior to API 2000, Pressure Set Point accuracy ($\pm 3\%$) is guaranteed.
- All components can be replaced on site, including the trim seal without any special tools or complex procedures.
- Full lifting
- Anti-corrosion coating for the most aggressive applications.
- Available in ANSI, DIN and HG/T20592~20635-2009 flanges.

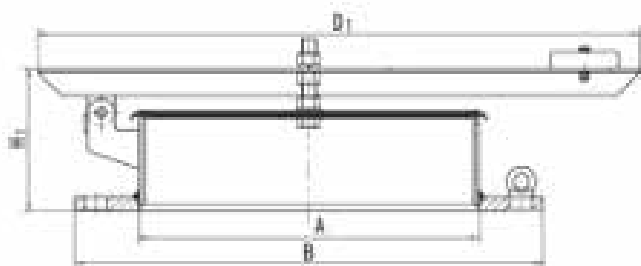
Materials

| Body | Hinge | Pallet | Sealing | Holder |
|----------------------|----------------------|----------------------|------------------------|----------|
| CS SS304 SS316 | CS SS304 SS316 | AL SS304 SS316 | Buna-N FEP Viton | AL SS |

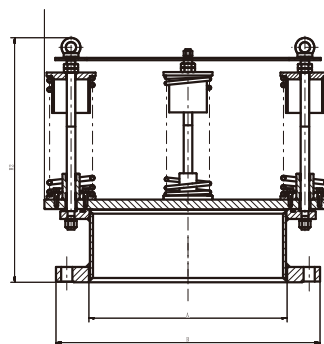
Set Pressure

| Model | Size mm (In) | Set Pressure | Set Vacuum |
|-------|--------------------------------|---|------------|
| 7110 | 400 (16) , 500 (20) , 600 (24) | 7.2inH ₂ O-28inH ₂ O 18mbar-69mbar | NA |
| 7120 | 400 (16) , 500 (20) , 600 (24) | 28inH ₂ O-415inH ₂ O 69mbar-1034mbar | NA |





7100

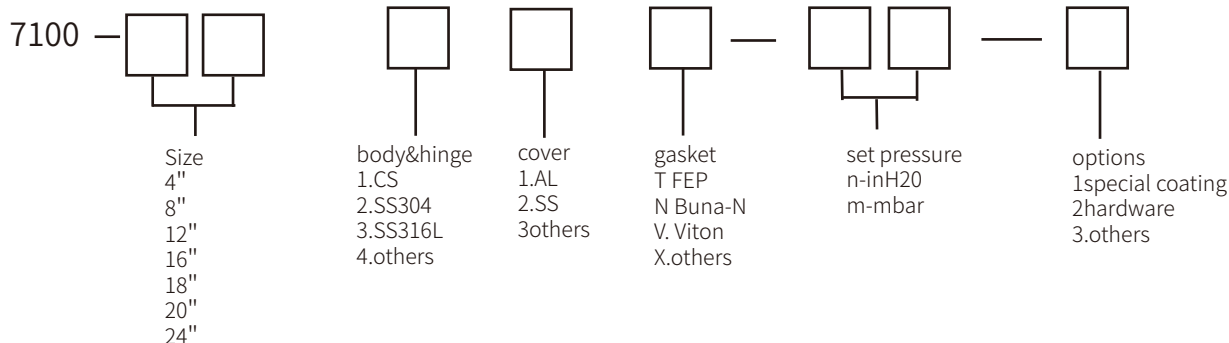


7120

Specifications

| Model | A In (mm) | B In (mm) | D1 In (mm) | D2 In (mm) | H1 In (mm) | H2 In (mm) | Approx. Weight Lb (Kg) |
|-------|--------------|--------------|---------------|---------------|---------------|---------------|------------------------------|
| 7100 | 16(400) | 23.5(595) | 29.53(750) | 33.46(850) | 9.33 (237) | 21.14(537) | 156(71) |
| 7100 | 20(500) | 27.56(700) | 35.43(900) | 39.37(1000) | 10.11(257) | 21.89(556) | 198(90) |
| 7100 | 24(600) | 32.09(815) | 39.37(1000) | 43.7(1100) | 10.11(257) | 21.89(556) | 264(120) |

Model 7100



Sample:



Indicates an Emergency Relief Valve with size 12", body and hinge material carbon steel, cover material Aluminum, Buna-N gasket, flanged ANSI 150lbs and set pressure 20mbar.

Model 7200 Emergency Pressure Vacuum Relief Valve



Model 7200 provides emergency protection for storage tanks and is used to deal with tank overpressure and vacuum situations that cannot be dealt with by the standard venting of the tank. The relief valve is sized and designed to provide discharge capacity in accordance with API 2000 standards and is sufficient for emergency venting due to fire.

It's very convenient for tank inspection and maintenance.

Model 7200 is for both pressure and vacuum relief.

Features

- The use of advanced sealing technology for a permissible leakage superior to API 2000, Pressure Set Point accuracy ($\pm 3\%$) is guaranteed.
- All components can be replaced on site, including the trim seal without any special tools or complex procedures.
- Full lifting
- Anti-corrosion coating for the most aggressive applications.
- Available in ANSI, DIN and HG/T20592~20635-2009 flanges.

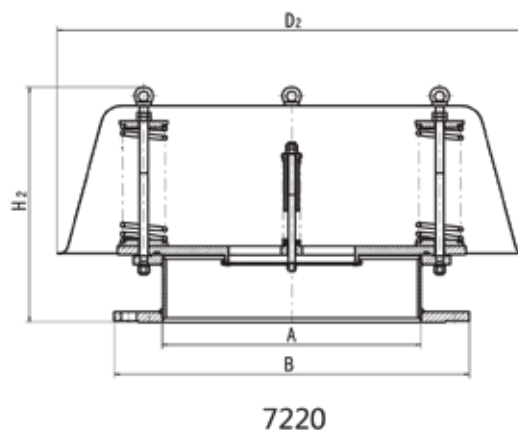
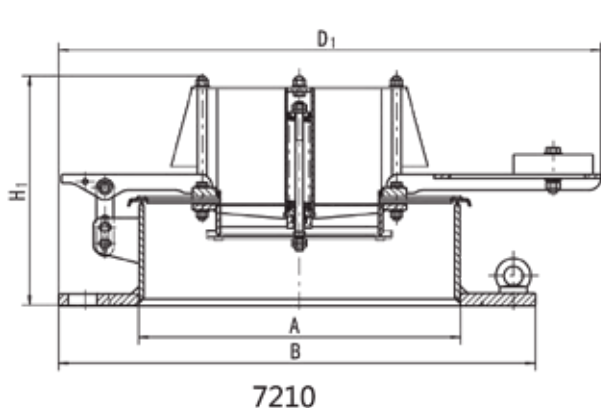
Materials

| body,hinge,cover | holder | seal | spring | trim |
|----------------------|----------|------------------------|--------|-----------|
| CS SS304 SS316 | AL SS | Buna-N FEP Viton | SS | PPS SS |

Set Pressure

| Model | Size mm (In) | Set Pressure | Set Vacuum |
|-------|--------------------------------|---|------------------------------------|
| 7210 | 400 (16) , 500 (20) , 600 (24) | 2.4inH ₂ O-14inH ₂ O 6mbar-34mbar | 0.8-6.8inH ₂ O 2-17mabr |
| 7220 | 400 (16) , 500 (20) , 600 (24) | 14inH ₂ O-415inH ₂ O 34mbar-1034mbar | 0.8-6.8inH ₂ O 2-17mabr |

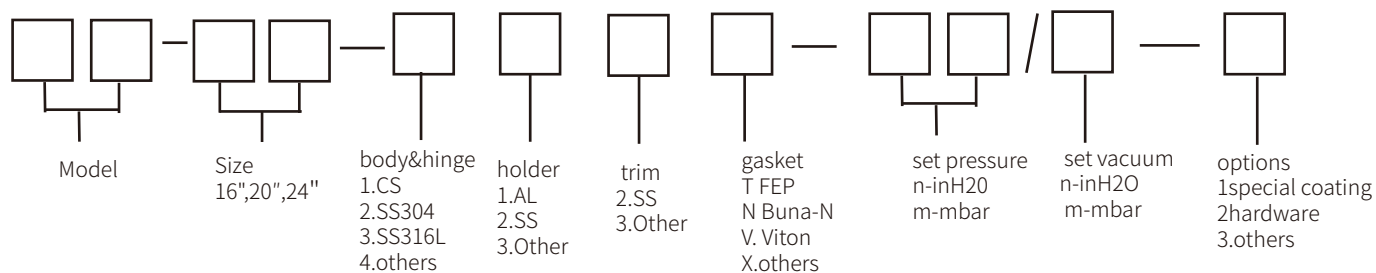




Specifications

| Model | A In (mm) | B In (mm) | D1 In(mm) | D2 In(mm) | H1 In(mm) | H2 In(mm) | Approx. Weight Lb (Kg) |
|-------|--------------|--------------|--------------|--------------|--------------|--------------|------------------------------|
| 7200 | 16(400) | 23.5(595) | 29.7(678) | 33.46(850) | 11.42(290) | 21.14(537) | 196(89) |
| 7200 | 20(500) | 27.56(700) | 33.46(850) | 39.37(1000) | 11.18(300) | 21.89(556) | 238(108) |
| 7200 | 24(600) | 32.09(815) | 36.42(925) | 43.7(110) | 11.81(300) | 21.89(56) | 344(156) |

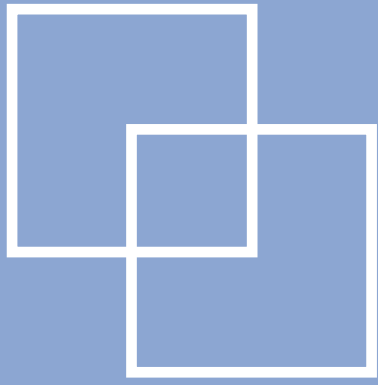
Model 7200



Sample:

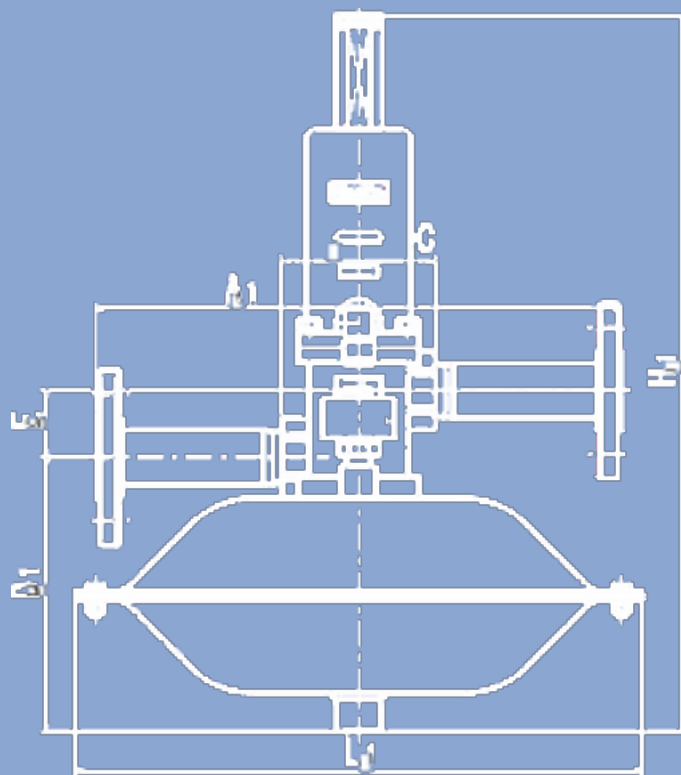


Indicates an Emergency Relief Valve with size 12", body, hinge and cover material carbon steel, pallet material 316L, stainless steel trim, FEP gasket, set pressure 18 inH2O, set vacuum 5 inH2O and option special coating.



Model **8000**

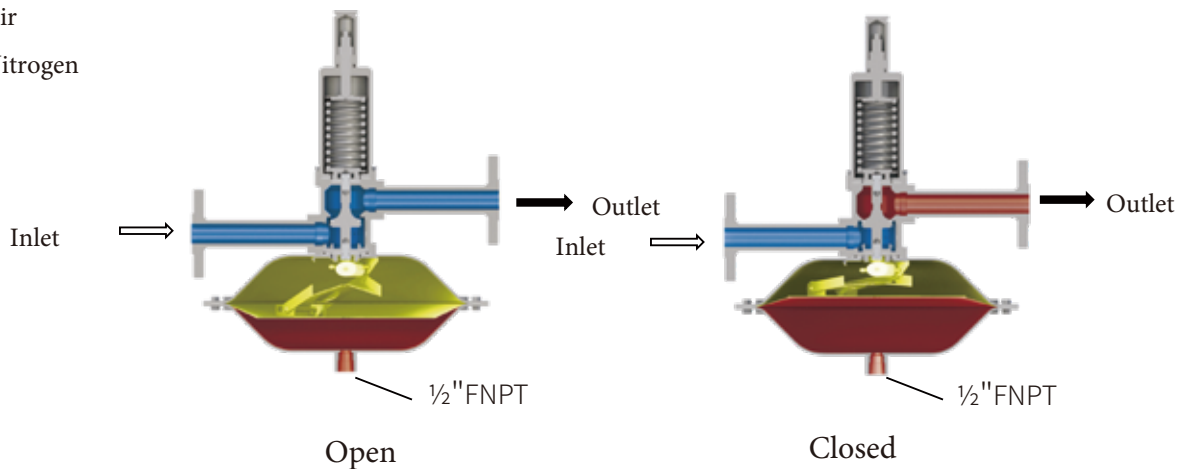
Blanketing Valve



8000 Blanketing Valve

- The formation of explosive vapor/gas mixtures can be effectively controlled to prevent flammable liquids from burning in the storage tank.
- Minimizes evaporation and reduces volatilization within the tank.
- It prevents the entry of external contaminants and reduces contamination and deterioration of the tank.

- Mixtures
- Air
- Nitrogen



Structure and Working Principle

A blanketing valve is used to regulate the pressure in the inert gas layer at the top of the tank. It senses the pressure in the tank and opens when the pressure drops below the set pressure to allow the inert gas to flow in. When the pressure rises back to the set pressure, the valve closes and stops, preventing further inert gas inflow.

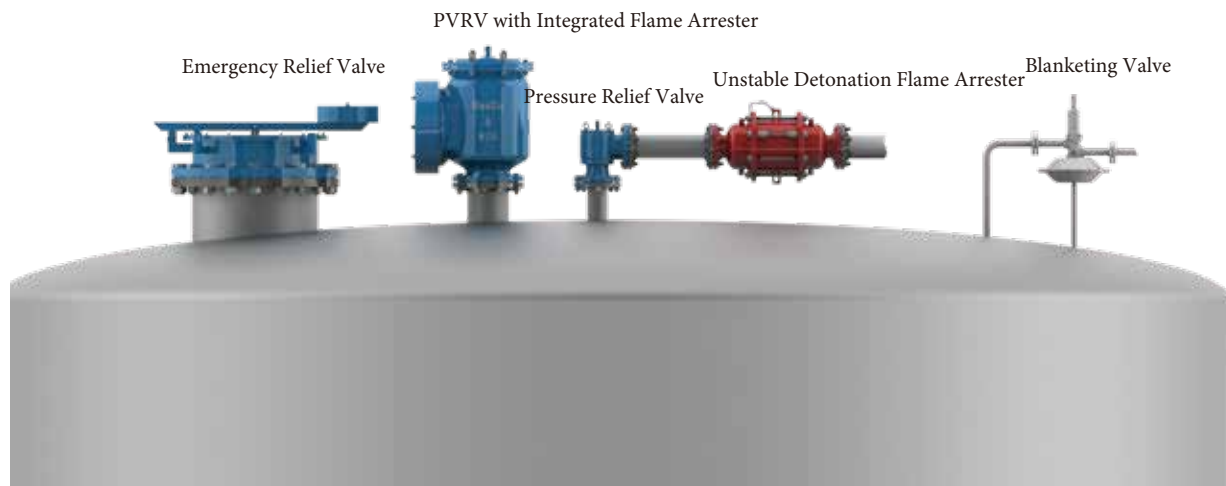
A blanketing valve must have three external connections, one connecting the valve to the tank and measuring the tank pressure. The second connection links the inert gas to the valve, the inert gas supply port. The third connection links the valve outlet to the storage tank and supplies the tank with inert gas.

A layer of inert gas overlying the tank vapour will prevent the atmosphere from entering the tank. An inert gas (usually nitrogen) is injected into the upper layer of the liquid as required to maintain a non-flammable environment. This maintains a non-flammable environment. The set pressure of a blanketing valve is usually very low (less than 6.9 KPa). External gases containing oxygen, moisture and other contaminants are not allowed to enter the tank.

A blanketing valve only allows this inert gas to enter if the process is below the set pressure (or vacuum). When pumping liquids out of the tank or due to a drop in temperature, a blanketing valve opens to supply the tank with gas when the vapour in the tank condenses due to a drop in temperature.

The amount of inert gas required is calculated on the basis of the maximum inlet volume due to instantaneous cooling due to rain or hail, etc. plus the maximum discharge rate. Although the most commonly used inert gas is nitrogen, other gases, including air, can be used in some cases.

8000 Blanketing Valve



Example of a safety relief system for storage tanks

Typical Application

The picture above shows a typical tank scenario with valves.:

1. The blanketing valve is set at the lowest pressure, maintaining the operating pressure in tank above the set pressure of the blanketing valve to ensure that the tank can be maintained at a slight positive pressure.
2. The set pressure of pressure relief valve is higher than the blanketing valve, and when the operating pressure in tank exceeds the set pressure of pressure relief valve, the pressure relief valve lifts and relieves over-pressure to keep the operating pressure maintained between the set pressure of blanketing valve and the pressure relief valve. Between the nitrogen seal valve and the single call valve.
3. The breather valve with flame arrester is used to ensure the safety of the tank in case of unforeseen conditions such as over-pressure and vacuum due to equipment failure. The set pressure of breather valve is set slightly higher than the pressure relief valve, but lower than the maximum pressure that the tank can withstand. Similarly, the set vacuum of breather valve is higher than the normal operating vacuum, but lower than the maximum vacuum that the tank can withstand.
4. The set pressure of emergency relief valve is set higher than the set pressure of the breather valve for unforeseen over-pressure relief such as a fire condition.

8100 Blanketing Valve



Keys for setting a Blanketing Valve

1. Blanketing Valve must be completely reliable and with sufficient supply of inert gas.
 2. Inert gas should be padded into the tank in an efficient way.
 3. Inert gas pollution from any source must be prevented.
- Field maintainability
 - Various materials are available: stainless steel metal parts
 - Buna-N、 Neoprene、 Viton®、EDPM are available for sealing.

Features

- Effective operation with Nitrogen Supply pressure from 10PSIG to 200PSIG
- Standard NPT inlet and outlet
- ANSI150lb.or 300lb Flange connection
- Supply line filter option is available
- Self-actuating structure for flow filling gas automatically
- The set point is unaffected by supply pressure
- The tank will automatically shut down when the pressure in Tank is restored to the set pressure

Materials

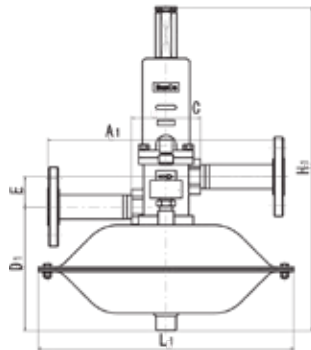
| Body | Internal | Spring | Sealing | Membrane |
|------------------------|------------------|--------|------------------------|----------|
| CS SS 304 SS 316 | SS 304 SS 316 | SS | Buna-N FEP Viton | FEP |

Set Pressure Range

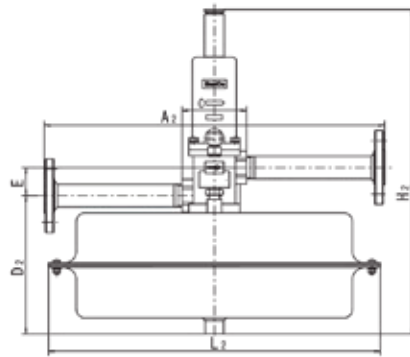
| Model | Connection Type | Size | Pressure |
|-------|------------------|--------------------------|-----------------------------|
| 8110 | Flanged/Threaded | 1/2"(15)、3/4"(20)、1"(25) | 20.4~51mmH2O 2~5mbar |
| 8120 | Flanged/Threaded | 1/2"(15)、3/4"(20)、1"(25) | 51~204mmH2O 5~20mbar |
| 8130 | Flanged/Threaded | 1/2"(15)、3/4"(20)、1"(25) | 204~1428mmH2O 20~140mbar |



8100 Blanketing Valve



8100

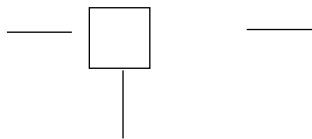


8120

| Size (in) | Size (mm) | | | | | | | | | |
|-----------|-----------|-----|-----|-----|----|----|-----|-----|-----|-----|
| | L1 | L2 | D1 | D2 | E | C | A1 | A2 | H1 | H2 |
| 1/2" | 356 | 495 | 172 | 206 | 42 | 96 | 330 | 508 | 449 | 483 |
| 3/4" | | | | | | | | | | |
| 1" | | | | | | | | | | |

8100 Model

8100



Connection
 A: 1/2" FNPT/ FNPT
 B: 1/2" FNPT/150#
 C: 1/2" 150#/150#
 D: 1" FNPT/ FNPT
 E: 1" FNPT/150#
 F: 1" 150#/150#



Body
 E: CS
 F: SS



Spring
 A: SS



Options:
 Plug
 Temperature Probe Tap
 ERV
 Other Fittings
 Special Coating
 Special Features

Sample:



Indicates an Blanketing Valve with 1/2" threaded, 150# flanged connection, body material stainless steel, spring material stainless steel, sealing material Buna-N.



8200 Pilot-operated Blanketing Valve

Model 8200 pilot-operated blanketing valve, utilizing the most advanced technology, provides nitrogen protection.

1. The formation of explosive vapour/gas mixtures can be effectively controlled to prevent combustion Burning.
2. Minimizes evaporation and reduces volatilization in the tank.
3. Prevents the ingress of external contaminants and reduces contamination in the tank.

Features

- Nitrogen supply pressure: 0.2- 0.8MPa
- After valve: 0. 5- 100KPa
- High sensitivity: sensitive response for high precision gas control
- Connection type: flanged, threaded
- Pilot operated construction for more stable operation
- Allowable leakage grade

Allowable leakage grade

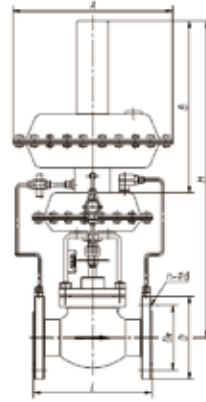
Standard grade: IV T(4213-92)

Material

| Body | Internal | Cover | Seal | Diaphragm |
|------|----------|-------|----------------------|---------------|
| CS | SS | CS | Oil-resistant rubber | Buna-N (丁腈橡胶) |
| SS | | | | |



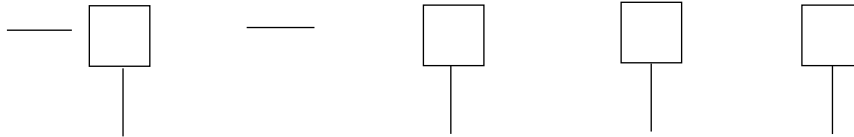
8200 Pilot-operated Blanketing Valve



| | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|
| Diameter DN (mm) | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 |
| Dimension L (mm) | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 |
| B | 415 | | | | | | | | | |
| H | 720 | 720 | 730 | 730 | 750 | 790 | 840 | 890 | 910 | 950 |
| ΦA | 310 | | | | | | | | 402 | |
| ΦD | 105 | 115 | 135 | 145 | 160 | 180 | 195 | 215 | 245 | 280 |
| ΦD ₀ | 75 | 85 | 100 | 110 | 125 | 145 | 160 | 180 | 210 | 240 |
| n-Φd | 4-14 | 4-14 | 4-18 | 4-18 | 4-18 | 4-18 | 8-18 | 8-18 | 8-18 | 8-23 |

8200 Pilot-operated Blanketing Valve

8200



Size

A: 1/2" FNPT/ FNPT
 B: 1/2" FNPT/150# Flange
 C: 1/2" 150# Flange/150# Flange
 D: 1" FNPT/ FNPT
 E: 1" FNPT/150# Flange
 F: 1" 150# Flange/150# Flange

Body

E: CS
 F: SS
 K: Other

Spring

B: SS

Options

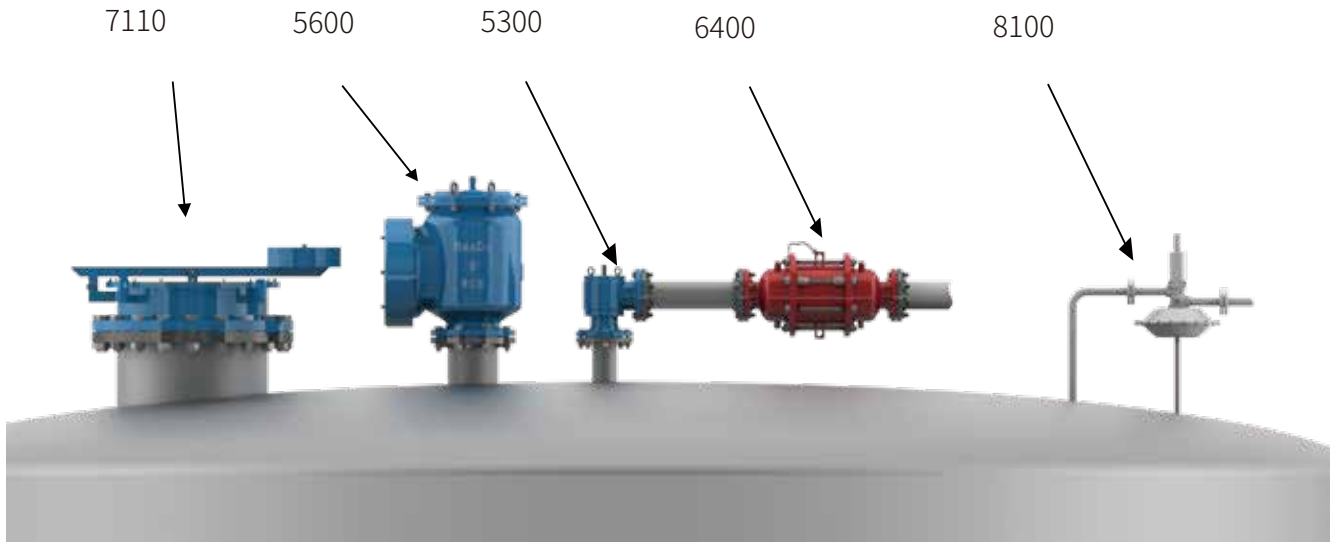
1. Plug
2. Temperature probe tap
3. Special coating
4. Other
5. Protective layer
6. Special features

Sample:

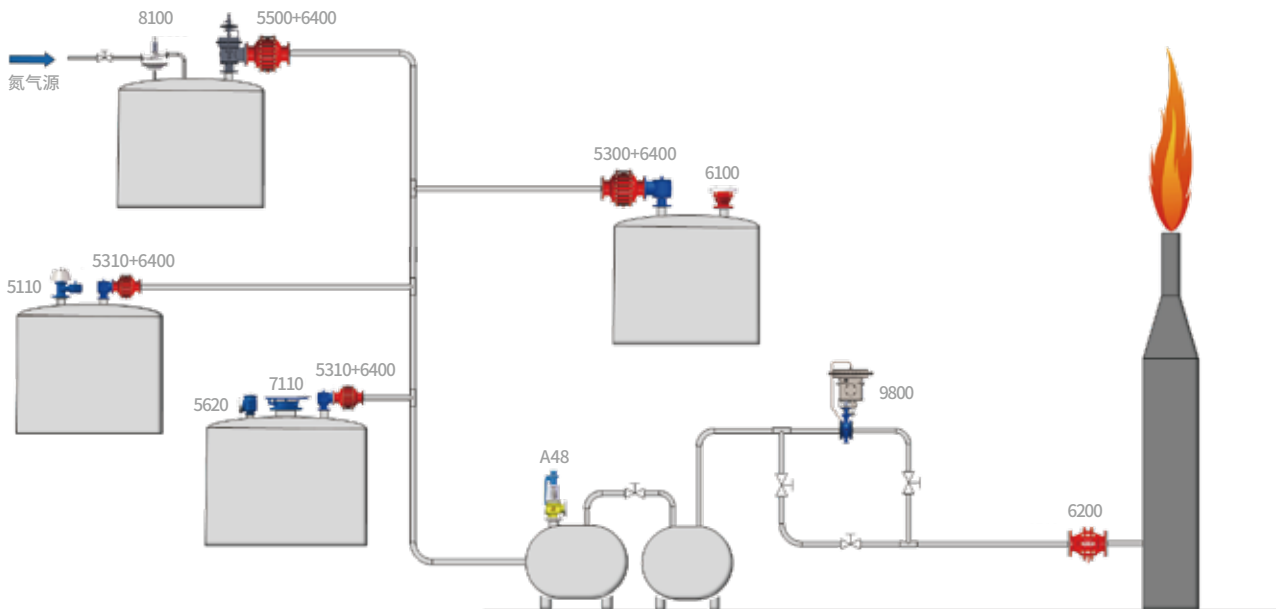


Indicates a Pilot-operated Blanketing Valve with connection size 1/2", flange 150#, body material stainless steel, spring material stainless steel and Buna-N seal.

BasCo Valves



BasCo valves mounted on top of Tank



BasCo valves applied in Groud Flare System

