



**BLAZE**



# Pressure Relief Valve

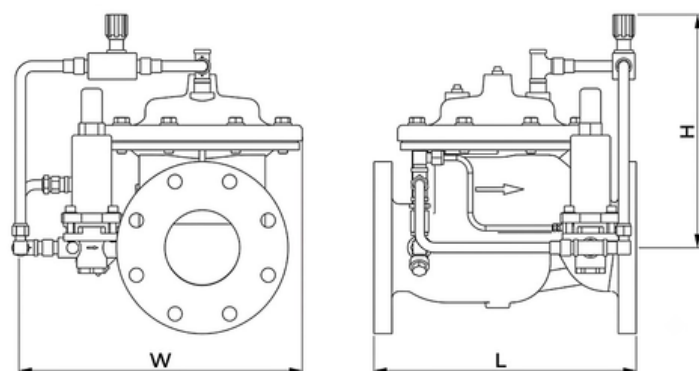
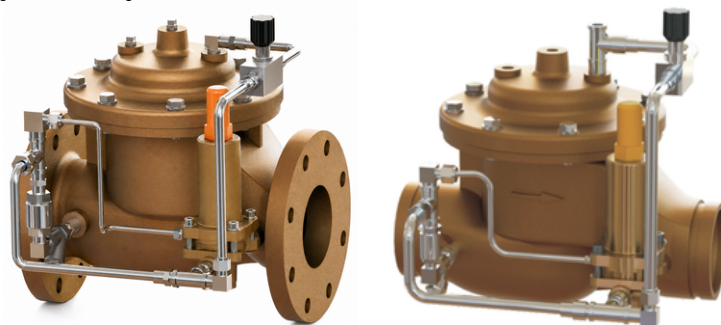
**Model : BT 5932G**

## Description:

The BT 5932G Pressure Relief Valve is a pilot-operated automatic control valve designed to protect fire protection pumping systems from excessive pressure. Cast from high-grade bronze, this angle-pattern valve automatically relieves excess discharge pressure and maintains a constant system pressure as flow demand changes.

Its robust bronze construction offers natural, exceptional resistance to marine environments, brackish water, and cavitation, ensuring an extended service life without the risk of internal coating degradation. The valve delivers highly stable, accurate pressure regulation to protect pumps and piping from overpressure while enhancing overall system safety.

The BT 5932G Pressure Relief Valve operates smoothly over a wide flow range. Its advanced hydraulic design features quick-opening capabilities to immediately relieve dangerous pressure spikes, paired with an adjustable closing speed to prevent water hammer and protect the system from sudden shocks.



## Specifications :

|                                  |                                                                                                                       |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Size</b>                      | DN40-DN300 (1 ½" - 12")                                                                                               |
| <b>Maximum Working Pressure</b>  | 20.7 bar (300 psi)                                                                                                    |
| <b>Temperature Range</b>         | 0° C to 80°C ( 32°F to 176°F)                                                                                         |
| <b>Approvals</b>                 | UL 1478 Listed and FM 1361 Approved.                                                                                  |
| <b>End Connection</b>            | Flanged to ANSI Class 150 RF<br>(*ANSI Class 125 / PN 16 Available on Request)<br>Grooved Ends to AWWA C606 Standard. |
| <b>Finish</b>                    | Natural / (Optional - FBE Coating / Painted)                                                                          |
| <b>Pressure Adjustment Range</b> | 65 psi to 300 psi                                                                                                     |

## Dimensions (Straight Type):

| Order Code                | Size  | L (mm / inch) |              |              | H<br>(mm / inch) | W<br>(mm / inch) |
|---------------------------|-------|---------------|--------------|--------------|------------------|------------------|
|                           |       | FL x FL       | FL x GR      | GR x GR      |                  |                  |
| BT-5932G-040-300-RF / -GG | 1 ½"* | 200 / 7.87"   | 210 / 8.26"  | 220 / 8.66"  | 180 / 7.1"       | 410 / 16.2"      |
| BT-5932G-050-300-RF / -GG | 2"*   | 230 / 9.05"   | 236 / 9.26"  | 241 / 9.48"  | 200 / 7.9"       | 420 / 16.6"      |
| BT-5932G-065-300-RF / -GG | 2 ½"  | 290 / 11.42"  | 290 / 11.42" | 290 / 11.42" | 215 / 8.46"      | 440 / 17.35"     |
| BT-5932G-080-300-RF / -GG | 3"    | 310 / 12.2"   | 318 / 12.5"  | 325 / 12.8"  | 265 / 10.45"     | 455 / 18"        |
| BT-5932G-100-300-RF / -GG | 4"    | 350 / 13.78"  | 366 / 14.4"  | 381 / 15"    | 310 / 12.2"      | 470 / 18.5"      |
| BT-5932G-125-300-RF / -GG | 5"    | 400 / 15.75"  | 410 / 16.15" | 419 / 16.5"  | 360 / 14.2"      | 490 / 19.3"      |
| BT-5932G-150-300-RF / -GG | 6"    | 480 / 18.9"   | 494 / 19.4"  | 508 / 20"    | 380 / 15"        | 540 / 21.25"     |
| BT-5932G-200-300-RF / -GG | 8"    | 600 / 23.6"   | 623 / 24.5"  | 645 / 25.4"  | 450 / 17.75"     | 590 / 23.23"     |
| BT-5932G-250-300-RF / -GG | 10"*  | 730 / 28.75"  | 746 / 29.37" | 762 / 30"    | 570 / 22.45"     | 640 / 25.2"      |
| BT-5932G-300-300-RF / -GG | 12"*  | 850 / 33.46"  | 875 / 34.44" | 900 / 35.43" | 690 / 27.2"      | 690 / 27.2"      |

**Note : Size 1 ½", 2", 10" & 12" are Only FM Approved.**

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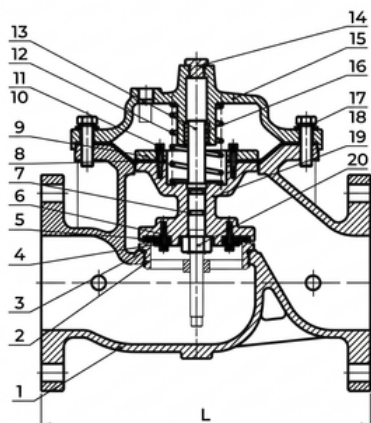


Fig. FL x FL

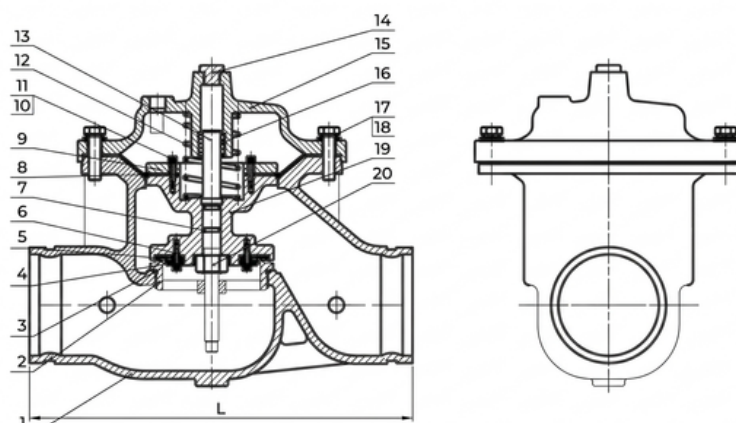


Fig. GR x GR

## Material Specifications :

| Item | Part Name      | Material                                       | ASTM Specification |
|------|----------------|------------------------------------------------|--------------------|
| 1    | Body           | Bronze                                         | B148 C95400        |
| 2    | Seat Ring      | Stainless Steel                                | CF8                |
| 3    | O-Ring         | Rubber                                         | EPDM               |
| 4    | Seal Gland     | Stainless Steel                                | CF8                |
| 5    | Seal Disc      | Rubber                                         | EPDM               |
| 6    | Bolt           | Stainless Steel                                | ASTM A193 B8       |
| 7    | O-Ring         | Rubber                                         | EPDM               |
| 8    | Diaphragm      | Nylon Reinforced Natural Rubber (NBR optional) |                    |
| 9    | Diaphragm Disc | Ductile Iron                                   | A536 Gr. 65-45-12  |
| 10   | Screw          | Alloy Steel                                    | ASTM A193 B8       |

| Item | Part Name         | Material        | ASTM Specification |
|------|-------------------|-----------------|--------------------|
| 11   | Washer            | Stainless Steel | ASTM A276 304      |
| 12   | Spring            | Stainless Steel | ASTM A276 304      |
| 13   | Stem              | Stainless Steel | ASTM A276 304      |
| 14   | Plug              | Brass           |                    |
| 15   | Bonnet            | Ductile Iron    | A536 Gr. 65-45-12  |
| 16   | Guide sleeve      | Bronze          | B148 C95800        |
| 17   | Bolt              | Stainless Steel |                    |
| 18   | Washer            | Stainless Steel |                    |
| 19   | Diaphragm Adapter | Ductile Iron    | A536 Gr. 65-45-12  |
| 20   | Nut               | Stainless Steel | ASTM A194 Grade 8  |

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