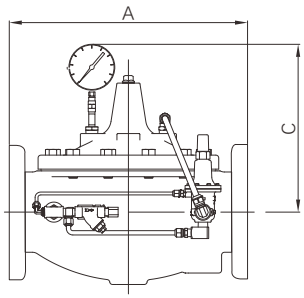
# Flanged globe type pressure relief valve

Pressure relief valve (Fire pump relief valve) is used in the discharge of fire pump to automatically relieve excessive pressure, so to maintain constant pressure. It allows the fire pump to be stopped without causing surging.



- Certificate: UL Listed / FM Approved / CE
- Standard: UL 1478, NFPA 20
- Connection: Flanged as B16.42 Class 150 / 300, B16.1 Class 125 / 250, EN 1092-2 PN16
- Temperature: Max 82°C, water
- W. pressure: 250 / 400 psi, etc.
- Surface: FBE coating as AWWA C550




## Main parts and material

| | | | |
|---|---|---|---|
| **Body** | Ductile iron as ASTM A536, 65-45-12 / Bronze as B148 C95400 | **Cover** | Ductile iron as ASTM A536, 65-45-12 |
| **Main valve trim** | SS seat, SS stem, KOL Anti-Cavitation Trim Seat (optional) | **Pilot control** | Cast bronze with SS trim |

## Available size (Source 1 with UL/FM)

| Size | | Relief pressure range (psi) | A | Connection | Working pressure (psi) | Ref. No. |
|---|---|---|---|---|---|---|
| Inch | DN | | mm | | | |
| 1-1/2" | 40 | 20 ~ 200 / 100 ~ 300 | 216 / 229 | Class 150 / 300 | 250 / 400 | U3101 (UL) |
| 2" | 50 | 20 ~ 200 / 100 ~ 300 | 238 / 254 | Class 150 / 300 | 250 / 400 | U3102 (UL) |
| 2-1/2" | 65 | 20 ~ 200 / 100 ~ 300 | 279 / 295 | Class 150 / 300 | 250 / 400 | U3103 (UL) |
| 3" | 80 | 20 ~ 200 / 100 ~ 300 | 305 / 337 | Class 150 / 300 | 250 / 400 | U3104 (UL/FM) |
| 4" | 100 | 20 ~ 200 / 100 ~ 300 | 381 / 397 | Class 150 / 300 | 250 / 400 | U3105 (UL/FM) |
| 6" | 150 | 20 ~ 200 / 100 ~ 300 | 508 / 533 | Class 150 / 300 | 250 / 400 | U3107 (UL/FM) |
| 8" | 200 | 20 ~ 200 / 100 ~ 300 | 645 / 670 | Class 150 / 300 | 250 / 400 | U3108 (UL/FM) |
| 10" | 250 | 20 ~ 200 / 100 ~ 300 | 756 / 790 | Class 150 / 300 | 250 / 400 | U3109 (ULC) |

**Note:**
1. For size 3", 4", 6", and 8", the working pressure of Class 300 connection is 300 psi by UL listed, and 400 psi by FM approved.
2. EN/BS flanged end connection is also available by FM approved, including EN 1092-2 PN10, PN16, or PN25.
3. As factory preset, the relief pressure is set at 60 psi for 20 ~ 200 range, 100 psi for 100 ~ 300 range.

# Flanged globe type pressure relief valve

## Available size (Source 2 with UL/FM)

| Size | | Relief pressure range (psi) | A | Connection | Working pressure (psi) | Ref. No. |
|---|---|---|---|---|---|---|
| Inch | DN | | mm | | | |
| 1-1/2" | 40 | 65 ~ 300 | 200 | Class 125 / 150 / 250 / PN16 | 300 | U3121 (UL/FM) |
| 2" | 50 | 65 ~ 300 | 230 | Class 125 / 150 / 250 / PN16 | 300 | U3122 (UL/FM) |
| 2-1/2" | 65 | 65 ~ 300 | 290 | Class 125 / 150 / 250 / PN16 | 300 | U3123 (UL/FM) |
| 3" | 80 | 65 ~ 300 | 310 | Class 125 / 150 / 250 / PN16 | 300 | U3124 (UL/FM) |
| 4" | 100 | 65 ~ 300 | 350 | Class 125 / 150 / 250 / PN16 | 300 | U3125 (UL/FM) |
| 5" | 125 | 65 ~ 300 | 400 | Class 125 / 150 / 250 / PN16 | 300 | U3126 (UL/FM) |
| 6" | 150 | 65 ~ 300 | 480 | Class 125 / 150 / 250 / PN16 | 300 | U3127 (UL/FM) |
| 8" | 200 | 65 ~ 300 | 600 | Class 125 / 150 / 250 / PN16 | 300 | U3128 (UL/FM) |
| 10" | 250 | 65 ~ 300 | 730 | Class 125 / 150 / 250 / PN16 | 300 | U3129 (FM) |
| 12" | 300 | 65 ~ 300 | 850 | Class 125 / 150 / 250 / PN16 | 300 | U3130 (FM) |

**Note:** As factory preset, the relief pressure is set at 130 psi for 65 ~ 300 range.

## Available size (Source 3 with CE)

| Size | | Relief pressure range (psi) | A | Connection | Working pressure (psi) | Ref. No. |
|---|---|---|---|---|---|---|
| Inch | DN | | mm | | | |
| 2" | 50 | 29 ~ 188 | 206 / 203 | Class 125 / PN16 | 200 / 230 | U3142 (CE) |
| 2-1/2" | 65 | 29 ~ 188 | 211 / 216 | Class 125 / PN16 | 200 / 230 | U3143 (CE) |
| 3" | 80 | 29 ~ 188 | 249 / 241 | Class 125 / PN16 | 200 / 230 | U3144 (CE) |
| 4" | 100 | 29 ~ 188 | 320 / 292 | Class 125 / PN16 | 200 / 230 | U3145 (CE) |
| 6" | 150 | 29 ~ 188 | 414 / 356 | Class 125 / PN16 | 200 / 230 | U3147 (CE) |
| 8" | 200 | 29 ~ 188 | 500 / 495 | Class 125 / PN16 | 200 / 230 | U3148 (CE) |
| 10" | 250 | 29 ~ 188 | 605 / 622 | Class 125 / PN16 | 200 / 230 | U3149 (CE) |
| 12" | 300 | 29 ~ 188 | 724 / 698 | Class 125 / PN16 | 200 / 230 | U3150 (CE) |
| 14" | 350 | 29 ~ 188 | 734 / 787 | Class 125 / PN16 | 200 / 230 | U3151 (CE) |
| 16" | 400 | 29 ~ 188 | 991 / 914 | Class 125 / PN16 | 200 / 230 | U3152 (CE) |

**Note:** As factory preset, the relief pressure is set at 60 psi for 29 ~ 188 range.