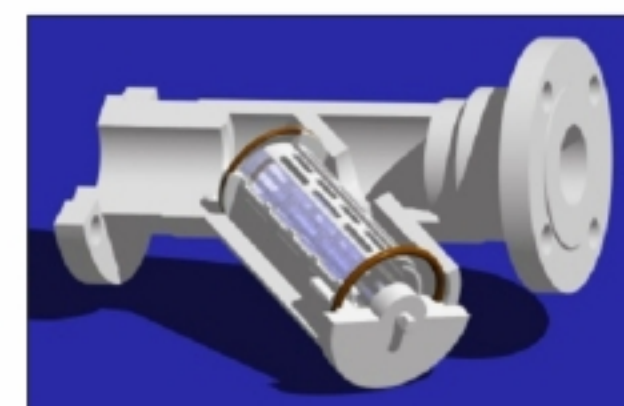


FLUOR-O-SHIELD™

## PVDF & PTFE Y-Strainers

# INSTALLATION AND MAINTENANCE GUIDE



### Installation Tips

- Flow Orientation:** Cartridge/Cap projection will point downstream.
- Axial Alignment:** To avoid damage to the housing - ensure that the inlet and outlet piping centerlines are in alignment. For flanged units, ensure connecting flanges are parallel with the strainer's sealing surfaces.
- Connection Spacing:** Observe end-connection spacing, given in tables below. For flanged units, do not rely on bolts to draw connecting pipes to strainer. Err on the side of less, rather than more spacing to minimize stresses on the housing welds. Allowance for NPT thread, or Socket Weld insertion will further reduce the spacing.

### Operating Pressures

Maximum operating pressure varies with temperature, Y-strainer size and material. As a general rule, maximum long-term operating pressures at room temperature are shown in the table below. Short-term operating pressures can be substantially higher with PTFE units since creep would not be a factor. For guidance in higher temperature environments, contact the factory.

### End Connection Spacing and Maximum Long-Term Operating Pressures at Room Temperature

| Nominal Size |      | End Connection Spacing Dim A | PVDF Y-Strainer | PTFE Y-Strainer |
|--------------|------|------------------------------|-----------------|-----------------|
| (in.)        | (mm) | (inches)                     | (PSI)           | (PSI)           |
| 1/8"         | NA   | 7.4                          | 150             | 65              |
| 1/4"         | NA   | 7.4                          | 150             | 65              |
| 3/8"         | 16   | 7.4                          | 150             | 65              |
| 1/2"         | 20   | 7.4                          | 150             | 65              |
| 3/4"         | 25   | 9.9                          | 150             | 50              |
| 1"           | 32   | 9.9                          | 150             | 50              |
| 1-1/4"       | 40   | 10.6                         | 150             | 35              |
| 1-1/2"       | 50   | 10.6                         | 150             | 35              |
| 2"           | 63   | 12.2                         | 100             | 30              |
| 3"           | 90   | 14.7                         | 60              | 25              |
| 4"           | 110  | 17.3                         | 60              | 20              |

**O-ring Replacement:** O-rings are user-replaceable; Spares can be purchased from the factory. Dash numbers are given in the table below. Removal and installation of o-rings is most easily accomplished when the o-rings are pre-heated in hot water. Always use a plastic tool to avoid damaging the sealing surfaces of the o-rings and their seats.

### O-ring AS 568 Dash Numbers

| Nominal Size |      | PVDF and PTFE Y-Strainer      | PVDF Y-Strainer         | PTFE Y-Strainer         |
|--------------|------|-------------------------------|-------------------------|-------------------------|
| (in.)        | (mm) | Cartridge <sup>1</sup> O-ring | Cap <sup>2</sup> O-ring | Cap <sup>2</sup> O-ring |
| 1/8"         | NA   | -116                          | -118                    | -121                    |
| 1/4"         | NA   | -116                          | -118                    | -121                    |
| 3/8"         | 16   | -116                          | -118                    | -121                    |
| 1/2"         | 20   | -116                          | -118                    | -121                    |
| 3/4"         | 25   | -125                          | -220                    | -220                    |
| 1"           | 32   | -125                          | -220                    | -220                    |
| 1-1/4"       | 40   | -226                          | -228                    | -228                    |
| 1-1/2"       | 50   | -226                          | -228                    | -228                    |
| 2"           | 63   | -231                          | -336                    | -334                    |
| 3"           | 90   | -243                          | -346                    | -346                    |
| 4"           | 110  | -356                          | -358                    | -358                    |

<sup>1</sup>Standard cartridge o-ring: FEP encapsulated hollow-core silicone rubber

<sup>2</sup>Standard cap o-ring: FEP encapsulated solid-core silicone rubber.

