

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.
- Flanged Connection Gaps or Misalignment:** If the gap between rigidly mounted inlet and outlet piping flanges is too large to accommodate the strainer (e.g., gap of 1/16" or more), or if the inlet and outlet piping flanges are not carefully aligned (e.g. angular deviation of 2° or more), Micromold can make spacers to fill the gap, fix the alignment, or both. For information on purchasing such spacers, provide the centerline distance plus the angular gap to be filled to your distributor who will provide you with a quotation from Micromold. If the gap is less than 1/16" or the misalignment is less than 2°, 1/16" gaskets at each end are satisfactory to fill the gap/misalignment.

NOTE: We strongly recommend use of Formula-8® Teflon® PTFE paste sealant, available from Micromold, on PTFE-to-PTFE NPT threaded joints.

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	N/A

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 ¹ O-ring	Cap ² O-ring	Cap ² O-ring
1/8"	NA	-116	-118	-119
1/4"	NA	-116	-118	-119
3/8"	16	-116	-118	-119
1/2"	20	-116	-118	-119
3/4"	25	-125	-220	-221
1"	32	-125	-220	-221
1-1/4"	40	-226	-228	-228
1-1/2"	50	-226	-228	-228
2"	63	-231	-335	-335
3"	90	-242	-346	-346
4"	110	-356	-358	N/A

¹Standard cartridge o-ring: FEP encapsulated hollow-core silicone rubber

²Standard cap o-ring: FEP encapsulated solid-core silicone rubber.

