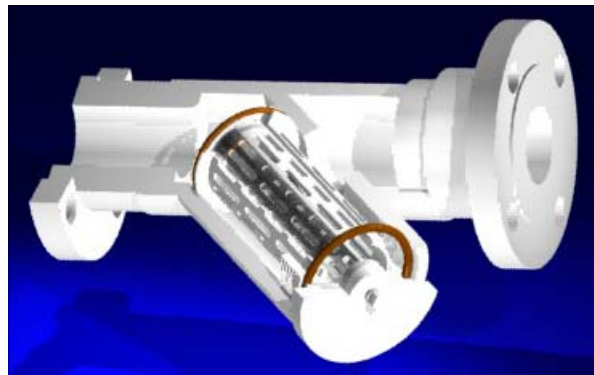


FLUOR-O-FLO®
PVDF & PTFE Y-Strainers

Removable PTFE Strainer Cartridge with Fluoropolymer Screen
Flanged • NPT • Tri-Clamp • Socket Weld



Micromold's Y-Strainers remove particles or debris from process lines handling extremely corrosive or high-purity fluids. To ensure maximum corrosion resistance and purity, all wetted materials are fluoroplastics.

PVDF Y-Strainers are available in 1/8" through 4" and PTFE Y-Strainers are available in 1/8" through 3" pipe sizes.

Easily cleaned, removable PTFE cartridges securely support ETFE screens in standard 11, 17, 30 or 51 mesh sizes. Standard PEEK screens available in mesh sizes ranging from 400 to 65 (12 to 155 microns). Other mesh sizes and types available on special order.

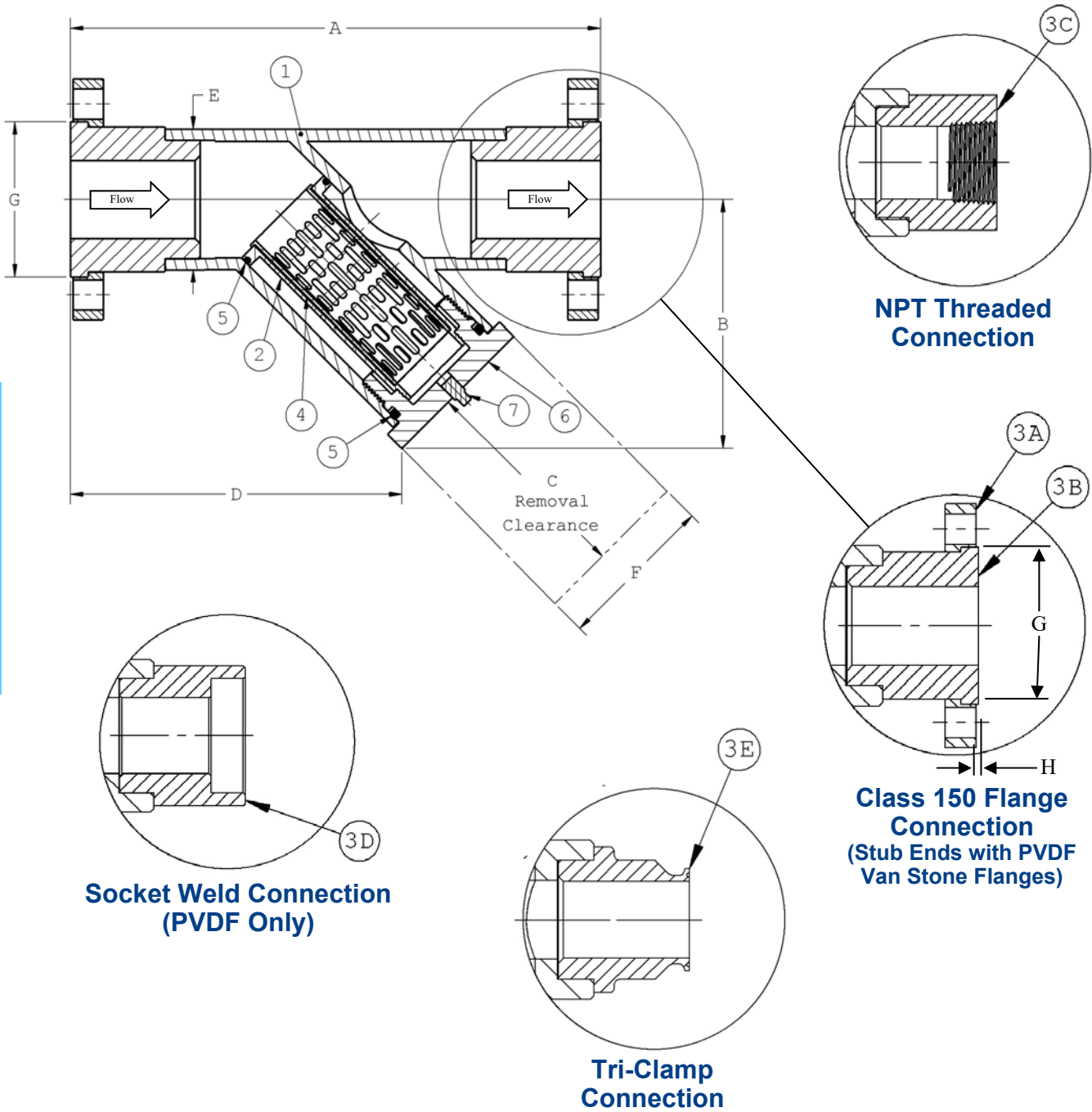
Open area ratio of screen to pipe meets or exceeds 2:1 for all sizes when used with a mesh having a minimum 48% open area.

Standard end connections fit NPT threaded, Tri-Clamp, flanged, and socket- or butt-weld (PVDF only) piping systems. We can provide virtually any connection (True-Union, etc.) on special order.

Units may be installed either horizontally or vertically.

Also available:
FLUOR-O-FLO® PVDF & PTFE Y-Strainers

- Sales Bulletin
- Installation and Maintenance Guide
- Strainer Screens Technical Bulletin



Connection Availability and Size Ranges

Strainer Material	NPT	Flanged	Socket Weld	Tri-Clamp
PVDF	1/8" - 4"	1/2" - 4"	3/8" - 4"	1/2" - 4"
PTFE	1/8" - 3"	1/2" - 3"	N/A	1/2" - 3"

All flanges are Van Stone type with stub ends (rotatable)



Dimensions*

Nominal Pipe Size	A	B	C	D	E (PVDF)	E (PTFE)	F	G	H	PLUG NPT
1/8	8.3	2.8	2.9	4.7	1.32	1.50	1.60	NA	NA	1/8
1/4	8.3	2.8	2.9	4.7	1.32	1.50	1.60	NA	NA	1/8
3/8	8.3	2.8	2.9	4.7	1.32	1.50	1.60	NA	NA	1/8
1/2	8.3	2.8	2.9	4.7	1.32	1.50	1.60	1.62	0.065	1/8
3/4	9.9	3.5	3.7	5.5	1.90	2.00	2.20	1.99	0.065	1/8
1	9.9	3.5	3.7	5.5	1.90	2.00	2.20	2.37	0.065	1/8
1-1/4	11.1	5.5	5.8	7.4	2.88	2.88	3.00	2.74	0.065	1/8
1-1/2	11.1	5.5	5.8	7.4	2.88	2.88	3.00	3.12	0.065	1/8
2	12.2	6.3	6.2	7.7	3.50	3.75	3.94	3.87	0.065	1/8
3	14.7	8.9	8.7	9.9	5.00	5.25	5.44	5.12	0.065	1/4
4	17.3	11.5	10.7	11.9	6.63	N/A	7.20	6.63	0.065	1/4
* All dimensions shown in inches										

Construction

Item No.	PVDF Y-Strainers	PTFE Y-Strainers
1	PVDF Body	MICROFLON™ PTFE Body
2	PTFE Cartridge	PTFE Cartridge
3A	PVDF Flange (Other materials available)	PVDF Flange (Other materials available)
3B	PVDF Stub End	PTFE Stub End
3C	PVDF NPT Connector	PTFE NPT Connector
3D	PVDF Socket Weld Connector	Not Available
3E	PVDF Tri-Clamp Connector	PTFE Tri-Clamp Connector
4	Fluoropolymer Screen	Fluoropolymer Screen
5	FEP Encapsulated Silicone Rubber O-Ring	FEP Encapsulated Silicone Rubber O-Ring
6	PVDF Knurled Cap	PTFE Knurled Cap
7	PTFE Drain Plug	PTFE Drain Plug

Engineering Specifications

FLUOR-O-FLO® Y-Strainers shall be (PVDF or virgin PTFE) construction with (socket weld, NPT threaded, Tri-Clamp, or flanged) end connections. The strainers shall have covers removable without the use of tools to facilitate cleaning, and have an FEP encapsulated silicone rubber o-ring seal. Strainer to have a (1/8" or 1/4") NPT removable drain plug. Strainers to have a minimum 2:1 ratio of open area to the size-corresponding cross-sectional pipe area when used with a mesh screen having a minimum open area of 48%. Strainers shall have a removable PTFE strainer cartridge with FEP encapsulated silicone rubber o-ring seal that is secured to and removable with the cover. Strainer cartridges shall have perforated PTFE inner and outer cartridge components to secure screen mesh. As manufactured by MICROMOLD PRODUCTS, INC.



PVDF Y-Strainer Part Numbers and Pressure Ratings*

Nominal Size		FNPT Threaded	IPS Socket Weld	Metric Socket Weld	ANSI Class 150 Flanged	Tri-Clamp	Pressure Ratings (psi)
(in.)	(mm)						
1/8"	NA	S-YK01FTNNN	S-YK01SINNN	N/A	N/A	N/A	150
1/4"	NA	S-YK02FTNNN	S-YK02SINNN	N/A	N/A	N/A	150
3/8"	16	S-YK03FTNNN	S-YK03SINNN	S-YK03SMNNN	N/A	N/A	150
1/2"	20	S-YK04FTNNN	S-YK04SINNN	S-YK04SMNNN	S-YK04FLNNN	S-YK04TCNNN	150
3/4"	25	S-YK06FTNNN	S-YK06SINNN	S-YK06SMNNN	S-YK06FLNNN	S-YK06TCNNN	150
1"	32	S-YK08FTNNN	S-YK08SINNN	S-YK08SMNNN	S-YK08FLNNN	S-YK08TCNNN	150
1-1/4"	40	S-YK10FTNNN	S-YK10SINNN	S-YK10SMNNN	S-YK10FLNNN	S-YK10TCNNN	150
1-1/2"	50	S-YK12FTNNN	S-YK12SINNN	S-YK12SMNNN	S-YK12FLNNN	S-YK12TCNNN	150
2"	63	S-YK16FTNNN	S-YK16SINNN	S-YK16SMNNN	S-YK16FLNNN	S-YK16TCNNN	100
3"	90	S-YK24FTNNN	S-YK24SINNN	S-YK24SMNNN	S-YK24FLNNN	S-YK24TCNNN	60
4"	110	S-YK32FTNNN	S-YK32SINNN	S-YK32SMNNN	S-YK32FLNNN	S-YK32TCNNN	60

PTFE Y-Strainer Part Numbers and Pressure Ratings*

Nominal Size		FNPT Threaded	ANSI Class 150 Flanged	Tri-Clamp	Pressure Ratings (psi)
(in.)	(mm)				
1/8"	NA	S-YT01FTNNN	N/A	N/A	65
1/4"	NA	S-YT02FTNNN	N/A	N/A	65
3/8"	16	S-YT03FTNNN	N/A	N/A	65
1/2"	20	S-YT04FTNNN	S-YT04FLNNN	S-YT04TCNNN	65
3/4"	25	S-YT06FTNNN	S-YT06FLNNN	S-YT06TCNNN	50
1"	32	S-YT08FTNNN	S-YT08FLNNN	S-YT08TCNNN	50
1-1/4"	40	S-YT10FTNNN	S-YT10FLNNN	S-YT10TCNNN	35
1-1/2"	50	S-YT12FTNNN	S-YT12FLNNN	S-YT12TCNNN	35
2"	63	S-YT16FTNNN	S-YT16FLNNN	S-YT16TCNNN	30
3"	90	S-YT24FTNNN	S-YT24FLNNN	S-YT24TCNNN	25

Standard Mesh Specifications

Particle sizes strained: 1 to 25,400 microns (0.00003" to 1") using either membranes, mesh screens, or drilled holes. Please refer to our *Strainer Screens Technical Bulletin* for details.

*NNN refers to mesh size of screen. Pressure Ratings are maximum long-term operating pressures at room temperature.

