FULLY SUBMERSIBLE HIGH-TEMPERATURE









FULLY SUBMERSIBLE HIGH-TEMPERATURE STABLE FLOW UCV

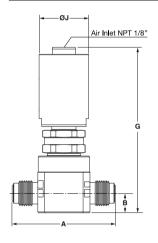
Metal Diaphragm Valves

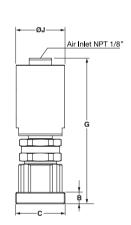
Ultra-high purity valve that provides steady flow performance consistently, through a wide range of temperatures, with a long-life cycle. The TF series was specially designed to be fully submersible up to 200°C making it the best solution for a wide variety of applications.

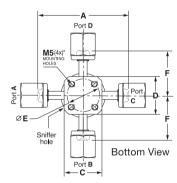


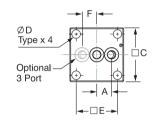
STANDARD CONFIGURATION DIMENSIONS

Body	SE- RIES	End Connection	A		В		С		D		Е		F		G		J	
Size			in	mm	in	mm												
	TF	Male Face seal	2.99	76.0	0.69	17.5	1.46	37.0	1.46	37.0	1.10	28.0	1.5	38.0	5.24	133.0	1.50	38.0
		Swivel Male Face seal	3.45	87.6									1.72	43.8				
1/2		Swivel Female Face seal	3.45	87.6									1.72	43.8				
		Butt Weld	2.25	57.2									1.13	28.6				
	TFS	Surface Mount	0.46	11.6	0.31	8.0	1.49	37.9	0.20	5.2	1.19	30.2	0.46	11.6	4.7	119.4	1.50	38.0









* M5 holes are compatible with 10-32 mounting screws

SPECIFICATIONS

ı	Size	Design	Burst	Proof	Temp.	Cv	Leak Rates			
ı	Size	Pressure	pressure	pressure	remp.	CV	Inboard	Across Seat		
	1/2	1MPa (150 psi)	31MPa (4500 psi)	1.5MPa (225 psi)	-10 to 200°c	0.8	1X10 ⁻⁹	3X10 ⁻¹¹		

STRUCTURE

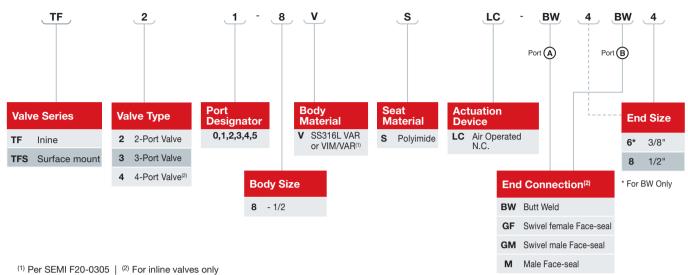
Item No.	Part No.	Material
1	Body	Stainless steel, 316L VAR or VIM/VAR1
2	Seat	Polyimide
3	Seat Holder	Stainless steel, 316L VAR or VIM/VAR1
4	Diaphragm	Co-Cr-Ni Alloy
5	Act. Button Holder	Stainless steel, ASTM 630 H900
6	Bushing	Carbon steel + PTFE
7	Actuator Assembly	Stainless steel, 316L

⁽¹⁾ Per SEMI F20-0305

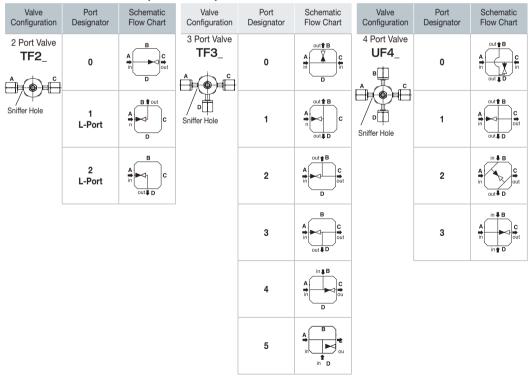


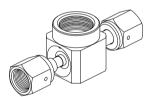
ORDERING INFORMATION TF SERIES

Valve Description Example:



PORT DESIGNATOR - (TOP VIEW)





Swivel Female Face-Seal Ends



Swivel Male Face-Seal Ends



Male Face-Seal Ends



Butt Weld Ends

Warning!

The system designer and user have the sole responsibility for selecting products suitable for their special application requirements, ensuring their safe and trouble-free installation, operation, and maintenance. Application details, material compatibility and product ratings should all be considered for each selected product. Improper selection, installation or use of products can cause property damage or personal injury.

TF | 2020_Rev00

