

HAM-LET FULLY IMMERSIBLE HIGH-TEMPERATURE







FULLY IMMERSIBLE HIGH-TEMPERATURE STABLE FLOW UCV

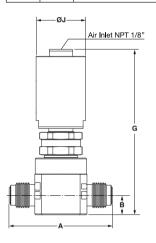
METAL DIAPHRAGM VALVES

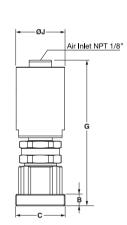
A ultra-high purity valve provides consistant steady flow performance, through a wide range of temperatures, with a long-life cycle. The TF series was specially designed to be fully immersible up to 200°C making it the best solution for a wide variety of applications.

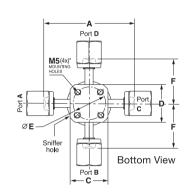


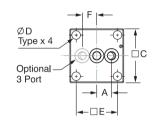
STANDARD CONFIGURATION DIMENSIONS

Body	Series	Fud Osams etian	A		В		С		I	D		E		=	(G		J	
Size		End Connection	in	mm	in	mm	in	mm											
	TF	Male Face Seal	2.99	76.0		17.5	1.46	37.0	1.46	37.0	1.10	28.0	1.5	38.0	5.24 133	133.0	0 1.50	38.0	
		Swivel Male Face Seal	3.45	87.6	0.69								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	









 $\ensuremath{\mathsf{M5}}$ holes are compatible with 10-32 mounting screws.

SPECIFICATIONS

Size	Design	Burst	Proof	Temp.	Cv	Leak Rates		
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

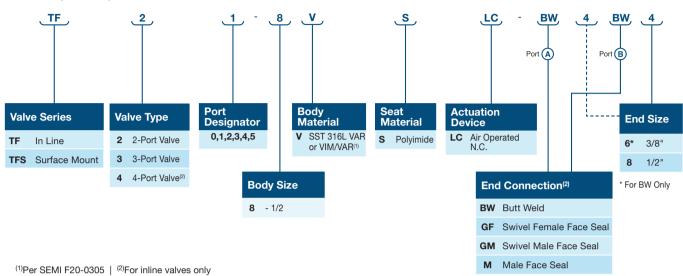
Item No.	Part No.	Material					
1	Body	Stainless steel, 316L VAR or VIM/VAR1					
2	Seat	Polyimide					
3	Seat Holder	Stainless steel, 316L VAR or VIM/VAR1					
4	Diaphragm	Co-Cr-Ni Alloy					
5	Act. Button Holder	Stainless steel, ASTM 630 H900					
6	Bushing	Carbon steel + PTFE					
7	Actuator Assembly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

⁽¹⁾Per SEMI F20-0305



ORDERING INFORMATION TF SERIES





PORT DESIGNATOR - (TOP VIEW)

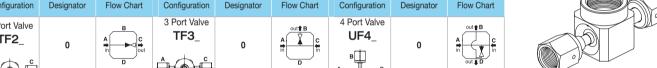
PORT DESIGNATOR - (TOP VIEW)										
Valve Configuration	Port Designator	Schematic Flow Chart	Valve Configuration	Port Designator	Schematic Flow Chart	Valve Configuration	Port Designator	Schematic Flow Chart		
2 Port Valve TF2_	0	A C Out	3 Port Valve TF3_ A C	0	out B C In	4 Port Valve UF4_ B	0	out # B c in out # D		
Sniffer Hole	1 L-Port	A out C	Sniffer Hole	1	out # B out # D	Sniffer Hole	1	out B C out		
	2 L-Port	A out D C		2	Out B C Out		2	in B C Out		
				3	B C out D out		3	in B C out		
				4	A C O O O O O					
				5	A B ou in D					



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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.





Swivel Female Face-Seal Ends



Swivel Male Face-Seal Ends



Male Face-Seal Ends



Butt Weld Ends

