HAM-LET FULLY IMMERSIBLE HIGH-TEMPERATURE

TF SERIES

- Cv of 0.8
- Up to 250°C fully immersible
- Available in Inline and Surface-Mount configurations

TF SERIES

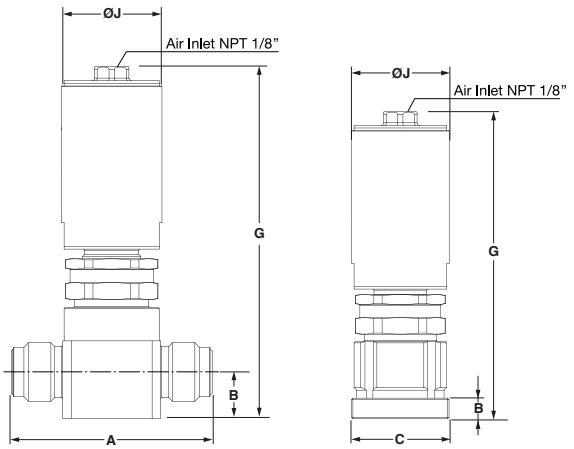
FULLY IMMERSIBLE HIGH-TEMPERATURE STABLE FLOW UCV

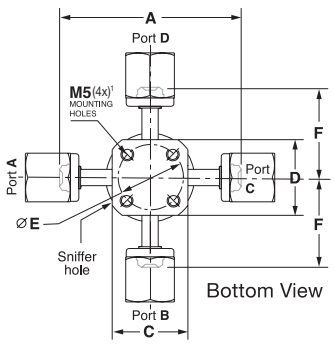
METAL DIAPHRAGM VALVES

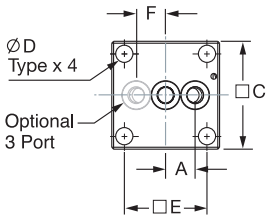
An ultra-high purity valve delivers a consistent flow performance across a wide temperature range and boasts a long cycle life. The TF series is specifically designed to be fully immersed in an environment temperature of up to 250°C, making it the best solution for a wide variety of demanding applications.

STANDARD CONFIGURATION DIMENSIONS

Body Size	Series	End Connections	A		B		C		D		E		F		G		J	
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1/2"	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				
		Swivel female Face-Seal	3.45	87.6									1.72	43.8				
		Buttweld	2.25	57.2									1.13	28.6				
	TFS	Surface-Mount 1.5" C-Seal	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







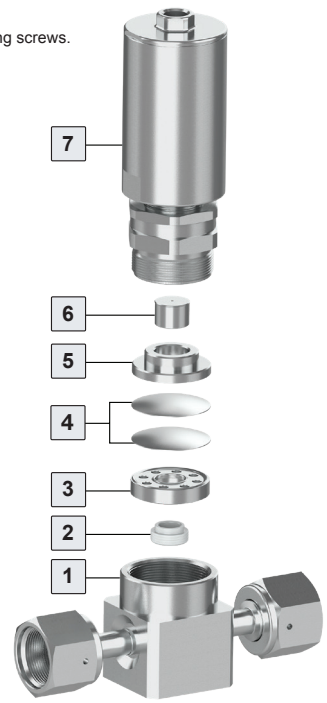
[1]M5 holes are compatible with 10-32 mounting screws.

SPECIFICATIONS

Size	Design Pressure	Burst Pressure	Proof Pressure	Temp.	Cv	Leak Rates	
						Inboard	Across Seat
1/2"	1MPa (150 psi)	31MPa (4500 psi)	1.5MPa (225 psi)	-10 to 250°C	0.8	$3X10^{-11}$ atm cc He/sec	$1X10^{-9}$ atm cc He/sec

MATERIALS OF CONSTRUCTION

Item No.	Part No.	Material
1	Body	SS 316L VAR
2	Seat	Polyimide
3	Seat holder	SS 316L VAR
4	Diaphragm	Co-Cr-Ni Alloy
5	Act. button holder	SS ASTM 630 H900
6	Act. button	Carbon steel + PTFE
7	Actuator assembly	SS 316L



ORDERING INFORMATION - TF SERIES

VALVE DESCRIPTION EXAMPLE

TF - 2 - 1 - 8 V S LC - BW 4 BW 4

Valve Series	
TF	Inline
TFS	Surface-Mount

Valve Type	
2	2-Port valve
3	3-Port valve
4[1]	4-Port valve

[1]For inline valves only

Port Designator
0,1,2,3,4,5

Body Size	
8	- 1/2"

Body Material	
V	SS 316L VAR

Seat Material	
S	Polyimide

Actuation Device	
LC	Air operated N.C.

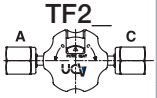
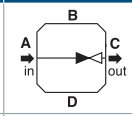
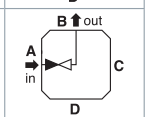
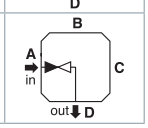
End Connection	
BW	Buttweld
GF	Swivel female Face-Seal
GM	Swivel male Face-Seal
M	Male Face-Seal

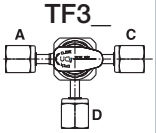
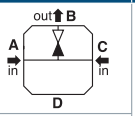
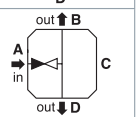
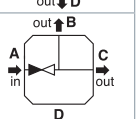
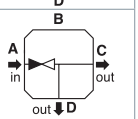
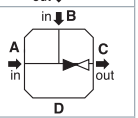
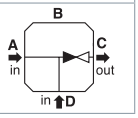
Port A — Port B

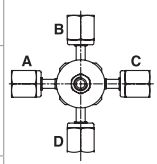
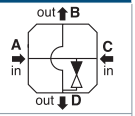
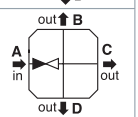
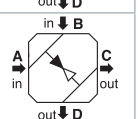
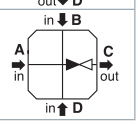
End Size	
6[2]	3/8"
8	1/2"

[2]For Buttweld only

PORT DESIGNATOR - (TOP VIEW)

Valve Configuration	Port Designator	Schematic Flow Chart
Two Port Valve TF2_ 	0	
	1 L-Port	
	2 L-Port	

Valve Configuration	Port Designator	Schematic Flow Chart
Three Port Valve TF3_ 	0	
	1	
	2	
	3	
	4	
	5	

Valve Configuration	Port Designator	Schematic Flow Chart
Four Port Valve TF4_ 	0	
	1	
	2	
	3	

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.

UCT