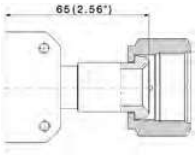
M20 | DIAPHRAGM VALVE

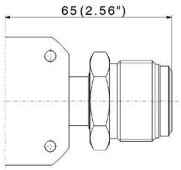
KEY FEATURES

- 100% Helium Leak Test performed
- Available in sizes 3/4" to 1" to support a wide range of connections
- Assembling, testing & Packaging in cleanroom: Class ISO 4
- Individual serial number for full traceability
- Electropolished surface roughness per SEMI F19 UHP Grade
- 316L VAR® stainless steel double melt per SEMI F20 option available
- Excellent purgeability due to optional purge ports
- Fluid specific seat material as standard options
- Replaceable seat

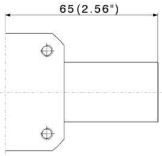




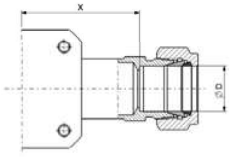
Female (face seal)
Swivel



Male (face seal)
Swivel



BWO for micro-welding head

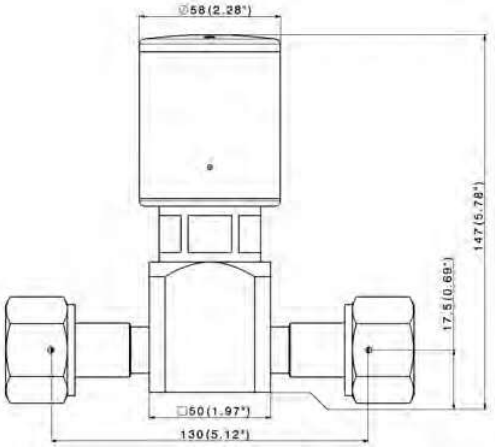


Compression tube fittings

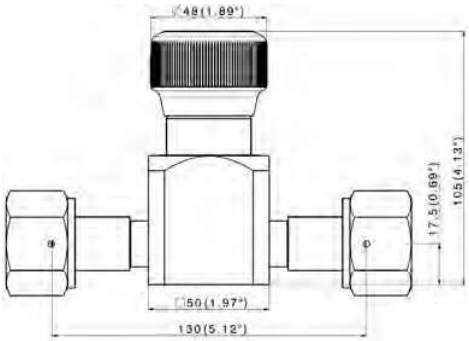
ØD	X
3/4"	49,3
1"	46

DIMENSIONS

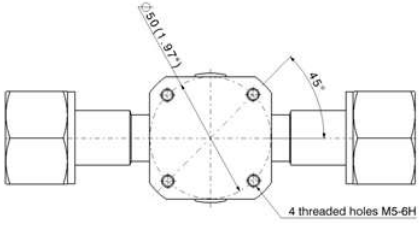
M20 - PNEUMATIC VALVE (PP2NC, PP2NO)



M20 - MULTI-TURN VALVE (MT)



M20-BOTTOM VIEW



Dimensions are for reference only and are subject to change without notice

ALL RIGHTS OF CHANGE RESERVED

SPECIFICATIONS

Max. working pressure	See table below
Pneumatic actuator opening pressure	5 to 7 bar (73 to 102 psig)
Temperature range	See table below

Flow capacity (Cv)	3.5
Nominal seat diameter	20 mm (0.79")
Wetted volume	> 700 bar (10152 psig)
Burst pressure	≤ 1 x 10^{-9} mbar.l/s

Certified max. Helium outboard leak rate	≤ 1 x 10^{-9} mbar.l/s
Certified max. Helium across the seat leak rate (at max. pressure)	≤ 1 x 10^{-9} mbar.l/s
Certified max. Helium inboard leak rate (at max. pressure)	≤ 1 x 10^{-9} mbar.l/s

CONSTRUCTION MATERIAL

	Parts	Material
Wetted parts	Body	SS 316L, VAR
	Seat	PCTFE, PVDF, VESPEL®
	Diaphragm	Phynox®
Non-wetted parts	Backup diaphragm	Phynox®
	Handwheel	Aluminium
	Actuator Body	Aluminium
	Others	Stainless Steel and Alloys

SURFACE FINISH

S	V	U
Ra 0.4 µm (15 µin)	Ra 0.25 µm EP (10 µin)	Ra 0.13 µm EP (5 µin)

TEMPERATURE RANGE

Seat (Actuation type)	Temperature Range
PCTFE / PVDF (manual & pneumatic)	-20°C to +65°C (-4°F to +149°F)
Vespel® (manual & pneumatic)	-20°C to +150°C (-4°F to +302°F)

VALVE VERSION / MAX. WORKING PRESSURE

Valve	Max. working pressure
M20 (MT) Multiturn handwheel	15 bar
M20 (PP2*) Pneumatically actuated	15 bar

MANUAL ACTUATION

Parts for all valve grades	
Upper spindle	Brass
Handle	Aluminum
All others	Stainless Steel or Alloys

PNEUMATIC ACTUATION

Parts	
Actuator Body	Stainless Steel / Aluminium
Piston	Brass / Aluminium / Stainless Steel
O-ring	NBR
All others	Stainless Steel or Alloys

All specifications subject to change without notice

PRODUCT CONFIGURATOR

	Surface Finish		Actuation		Porting Configuration		Body Material		Seat Material		End Connection		Options	
M20	S		MT		2V1		I		K		A/B: B¾		FP	
	Ra 0.4 µm (15 µin Ra)	S	Multi-Turn Handwheel (15 bar)	MT	2 ports in line	2V1	SS 316L	I	PCTFE (Kel-F®)	K	Metal face seal ¾" - Female	V ¾ F	Back Mounting	FP
	Ra 0.25 µm EP (10 µin)	V	Pneumatically actuated (15 bar)	PP2*	2 Ports in line, upstream purge port - left side	2VPEG	Hastelloy®*	H	PI (Vespel®)	V	Metal face seal ¾" - Male	V ¾ M	Electric Limit Switch*	CI
	Ra 0.13 µm EP (5 µin)*	U	*Add NO for normally open or NC for normally closed		2 Ports in line, downstream purge port - left side	2VPSG	*On demand		PVDF	P	BWO ¾" (Butt Orbital Weld)	B ¾	*Only for pneumatic actuators	
	*On demand				2 Ports in line, 2 purge ports up-/downstream-left side	2V1P2					BWO 1" (Butt Orbital Weld)	B 1		
											Metal face seal 1"- Male	V1M		
											Metal face seal 1" - Female	V1F		
											Compression tube fittings	RDB¾		
											Compression tube fittings	RDB1"		

Special configuration on demand

*Add NO for normally open or NC for normally closed

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