

#### HOW TO ORDER

## M12

			PART	NUMB	ER			
Example:	M12 U	MT	2V1	1	/	K	A/B: B1/2	FT
	1	2	3	4		5	6	7

#### 1- Valve Series

M12-U	UHP - Ra 0.15 μm Ep. (6 μinch Ra)
M12-V	HP/UHP - Ra 0.25 μm Ep. (10 μinch Ra)
M12-S	HP Version - Ra 0.4 µm non EP (15 µinch Ra)

#### 3 - Valve Configuration

Z V I	2 pons in line
2VPEG	2 Ports in line, upstream purge port - left side
2VPSG	2 Ports in line, downstream purge port - left side
2V1P2	2 Ports in line, 2 purge ports upstream/
	downstream/left side

3VT 2 ports in line, full passage, downstream branch ("Te" Valve)

3VTPS 2 ports in line, full passage, downstream branch (purge port)

#### 5 - Seat Material

K	PCTFE (Kel-F®)
V	PI (Vespel®)
Р	PVDF

#### 7 - Options

ROTAREX

FT	Panel Mounting
_	Back Mounting
CI	Electric Limit Switch (PP2 actuators)

#### 2 - Valve Actuation

MT	Multi-Turn Handwheel
PP2	Pneumatically actuated
	(Normally close version)

Standard colour for handles: white (other colours on request) for pneumatic actuators: blue

#### 4 - Body Material

I AISI 316 L H Hastelloy® (on request)

#### 6a - End Connections for 2VPEG/2VPSG/2V1P2/2VI

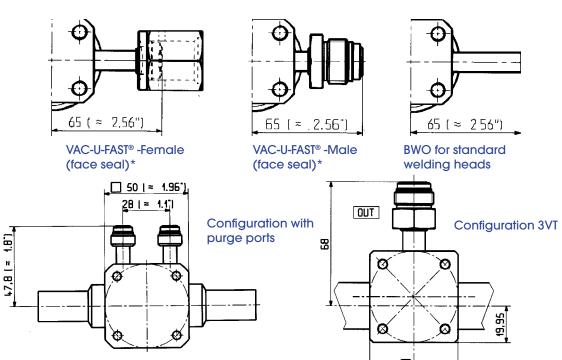
V 1/2-F	VAC-U-FAST® 1/2" - Female (Face Seal*)
V 1/2-M	VAC-U-FAST® 1/2" - Male (Face Seal*)
B 1/2	BWO 1/2" - (Butt Orbital Weld)
B 3/4	BWO 3/4" (Butt Orbital Weld)

Purge port available as BWO 1/4" or VAC-U-FAST® 1/4" male

#### 6b - End Connections for 3VT/3VTPS

B 1/2	BWO 1/2" - (Butt Orbital Weld)
B 3/4	BWO 3/4" (Butt Orbital Weld)
B1	BWO 1" (Butt Orbital Weld)
V1/2-F	VAC-U-FAST® 1/2" - Female (Face Seal*)
V1/2-M	VAC-U-FAST® 1/2" - Male (Face Seal*)
V3/4-M	VAC-U-FAST® 3/4" - Male (Face Seal*)
V3/4-F	VAC-U-FAST® 3/4" - Female (Face Seal*)
branch ava	

Purge port available as BWO 1/4" or VAC-U-FAST® 1/4" male



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# SELFA Valves & Fittings

A total component solution, from source to process

## M12 SPRINGLESS DIAPHRAGM VALVES FOR HP AND UHP APPLICATIONS (STANDARD AND GAS SPECIFIC)



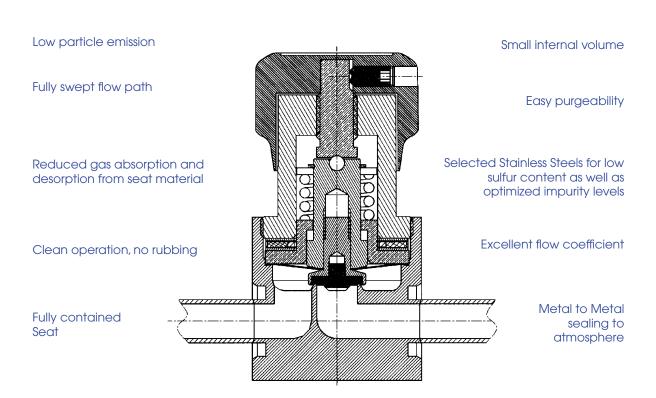




Valves & Fittings

SELFA

## Tied diaphragm design for positive seat opening and retractation



Manufactured to the THREE STAR PROCESS ®

## CONSTRUCTION MATERIALS

		Valve Grade &	Materials	
Parts		S	V	U
	Body Stainless Steel 316L			
Wetted parts	Body Surface Finish	<0,4µm(15Ra)nonEP	< 0,25 μm (10 Ra) EP	< 0,15 μm (6 Ra) EP
	Diaphragms	Elgiloy®		
	Seat material	PCTFE (Kel- $F^{\oplus}$ ) / PVDF or Vespel (on request)		n request)
Non-wetted parts	Backup diaphragm	Elgiloy®		
	All others	Stainless Steel or alloys		

#### Manual Actuation

Upper Spindle	Stainless Steel
Handle	Aluminum
All others	Stainless Steel or Alloys

#### Pneumatic Actuation

Parts	PP2
O-ring	NBR
Actuator Body	Aluminum Anodized

TECHNICAL DATA			
Fluid Media		High and Ultra High Purity, corrosive and non-corrosive gases 15 bar (215 PSI)	
Max operating pressure	M12 MT manual		
	M12 PP2 Pneumatic	15 bar (215 PSI)	
Min. operating pressure		Vacuum (for manual only)	
Actuator opening pressure		5 to 7 bar (75 to 105 PSI)	
Temperature range		-20°C to + 80°C (-4°F to 176°F)	
Flow Coefficient		Cv = 1,75	
Certified max. Helium inboard leak rate (at max. pressure)		< 10 <sup>-9</sup> mbar.l/sec	
Certified max. Helium outboard leak rate (at max. pressure)		< 10 <sup>-9</sup> mbar.l/sec	
Nominal Seat Diameter		12 mm (0.47")	
Weight	M12 MT	1,4 kg	
	M12 PP2	3,1 kg	

## DIMENSIONS

