# smar

MANIFOLD VALVES

ROLLED LINE

Smar rolled valves line is made up of Block Valve, 2, 3 and 5-way Manifold Valves. They are tipically produced in rolled 316 SST but optionally also in Hastelloy*, Treated Carbon Steel*, Monel* and Super Duplex*. Their design adopts the needle type valve concept for high pressures with a non-rotating shutter, which provides high air-tightness to the process.

This shutter avoids chafing with the valve block and leaves a smooth surface between them. Thus, the leak found in valves with rotative shutter is eliminated.

The product have applications with vacuum, special cleaning for use with oxygen* and they are according to NACE MR-0175* standard for use with H_2S.

Smar has a spare part and accessories line for the manifolds valves can be provided separately.

* Item by inquire
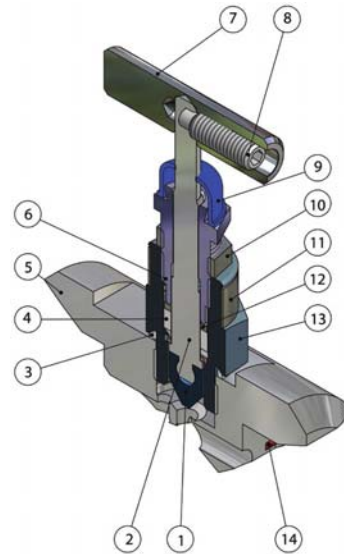
01-Non-rotating tip	08-Headless Allen®
02-Spindle	09-Dust cap
03-Bonnet / Castle sealing	10-Lock nut
04-Spindle's sealing	11-Label describing functionality
05-Housing	12-Protection washer
06-Pusher	13-Bonnet
07-T-bar	14-Process thread bonnet

COD.	Model							
VBL	Rolled Block Valve							
VM2L	2-Way Rolled Manifold Valve							
	COD.	**Material**						
	S	316 SST						
	C	Treated Carbon Steel (*)						
	H	Hastelloy C276 (*)						
	M	Monel 400 (*)						
	D	Super Duplex (*)						
		COD.	**Instrument Connection / Process Connection**					
		0	1/2" NPT (Female) / 1/2" NPT (Female)					
		1	1/2" BSP (Female) / 1/2" BSP (Female)					
		2	1/2" NPT (Male) / 1/2" NPT (Female)					
		3	1/2" BSP (Male)/ 1/2" BSP (Female)					
		4	Flange / 1/2" NPT (Female)					
		5	Flange / 1/2" BSP (Female)					
			COD.	**Gasket Material**				
			T	Teflon® - PTFE (-50 °C to +200 °C)				
				COD.	**Pressure Class**			
				S	6,000 psi (414 bar)			
					COD.	**Optional**		
					DS	Drain/Vent Value (1/4" NPT)		
						COD.	**Special Cleaning**	
						C1	Special cleaning for oxygen use	
							COD.	**Sour Fluids**
							NA	Wet and Non-Wet parts in Compliance with Hydrogen Sulfide (H_2S) Exposure Requirements (*) (**)
							NB	Wet Parts in Compliance with Hydrogen Sulfide (H_2S) Exposure requirements (*) (**)

| VBL | - | S | 0 | - | T | S | / | | / | | / | |

* Item by inquire.
** Chemical specifications, maximum hardness and thermic treatment in accordance with NACE MR-01-75 standard.

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COD.	Model
VM3L	3-Way Rolled Manifold Valve Type Y
VM5L	5-Way Rolled Manifold Valve Type Y

COD.	Material
S	316 SST
C	Treated Carbon Steel (*)
H	Hastelloy C276 (*)
M	Monel 400 (*)
D	Super Duplex (*)

COD.	Instrument Connection / Process Connection
0	Flange / 1/2" NPT (Female)
1	Flange / 1/2" BSP (Female)
2	Flange / Flange

COD.	Gasket Material
T	Teflon® - PTFE (-50 °C to +200 °C)

COD.	Pressure Class
S	6,000 psi (414 bar)

COD.	Distance Between Centers
0	54 mm
4	56 mm
5	58.3 mm

COD.	Optional
DS	Drain/Vent Value (1/4" NPT) - Valid for 5-Ways Model

COD.	Special Cleaning
C1	Special cleaning for oxygen use

COD.	Sour Fluids
NA	Wet and Non-Wet parts in Compliance with Hydrogen Sulfide (H_2S) Exposure Requirements (*) (**)
NB	Wet Parts in Compliance with Hydrogen Sulfide (H_2S) Exposure requirements (*) (**)

VM3L	-	S	0	-	T	S	0	/		/	

* Item by inquire.
** Chemical specifications, maximum hardness and thermic treatment in accordance with NACE MR-01-75 standard.

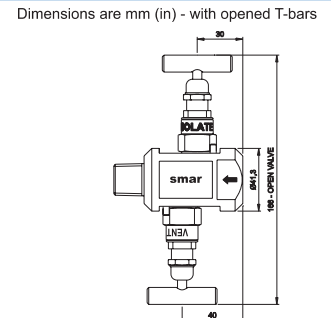## Instrument Connection - Male Thread | VBL | Instrument Connection - Female Thread
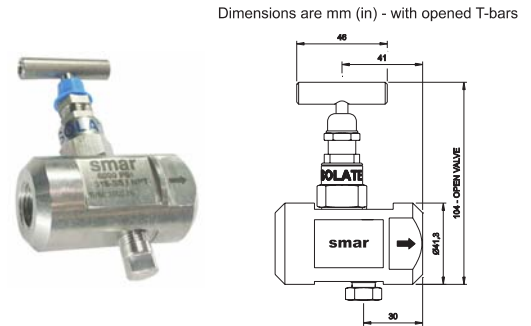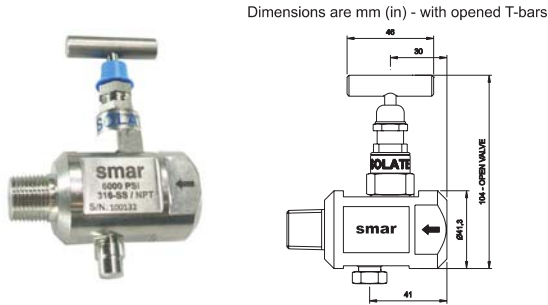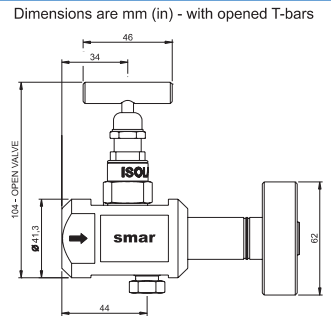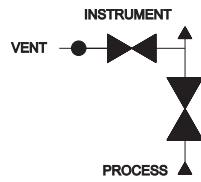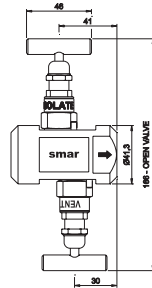
Dimensions are mm (in) - with opened T-bars

Dimensions are mm (in) - with opened T-bars

VBL - Instrument Connection - Flange

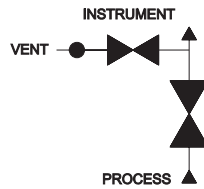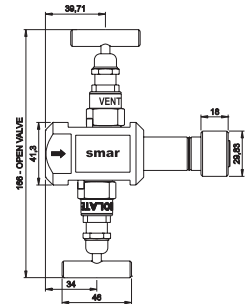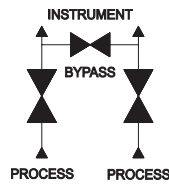Dimensions are mm (in) - with opened T-bars

VM2L - Instrument Connection - Male Thread

Dimensions are mm (in) - with opened T-bars
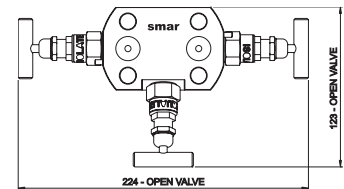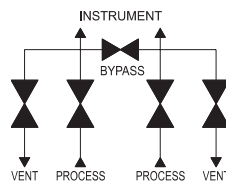
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VM2L - Instrument Connection - Female Thread

Dimensions are mm (in) - with opened T-bars

INSTRUMENT

VENT

PROCESS

VM2L - Instrument Connection - Flange

Dimensions are mm (in) - with opened T-bars

INSTRUMENT

VENT

PROCESS

VM3L

Dimensions are mm (in) - with opened T-bars

INSTRUMENT

BYPASS

PROCESS   PROCESS

224 - OPEN VALVE

123 - OPEN VALVE

VM5L

Dimensions are mm (in) - with opened T-bars

INSTRUMENT

BYPASS

VENT   PROCESS   PROCESS   VENT

123

86

252 - OPEN VALVE

148 - OPEN VALVE

40°
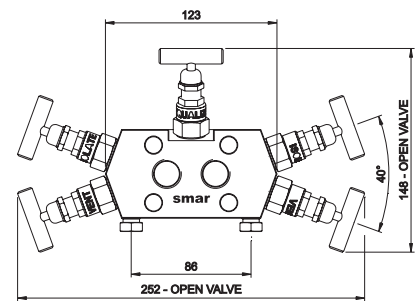
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VALVMANCE