

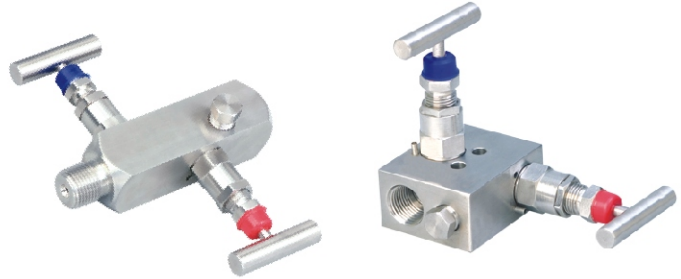
FEATURES

- 1 isolate & 1 vent valves

APPLICATION

- Isolation & venting of gauges, switches & transmitters
- High pressure line shut off
- Liquid & gas services

Direct / Remote Mounting



STANDARD SPECIFICATIONS

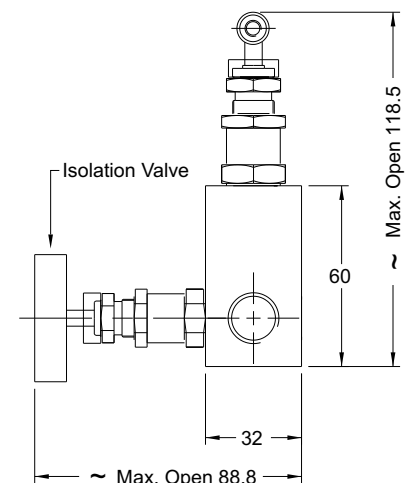
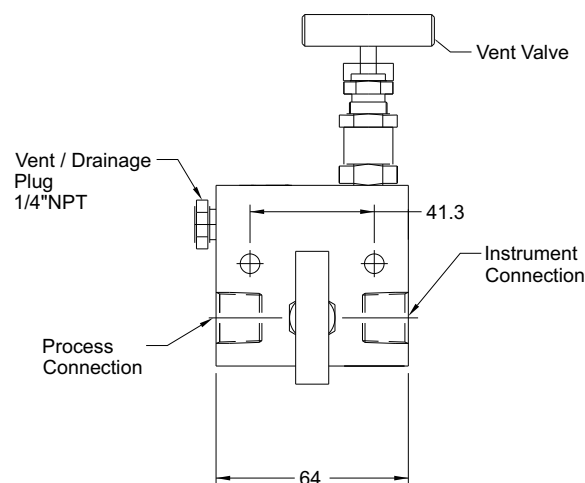
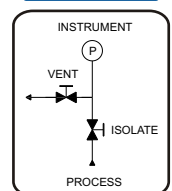
Mounting	:	Remote
Pattern	:	2
Wetted parts	:	AISI 316 SS
Instrument connection	:	1/2" NPT (F) / 1/2" BSP (F)
Stem packing	:	PTFE
Process connection	:	1/2" NPT (M) / 1/2" BSP (M)
Stem	:	Conical metal tip
Max. working pressure	:	413.7 bar (6000 psi)
Max. working temperature	:	240°C
"T" bar handle	:	AISI 304 SS
Drain port	:	1/4" NPT (F), plugged

DIMENSIONAL DRAWING

Remote mount - Pattern 1



FLOW DIAGRAM



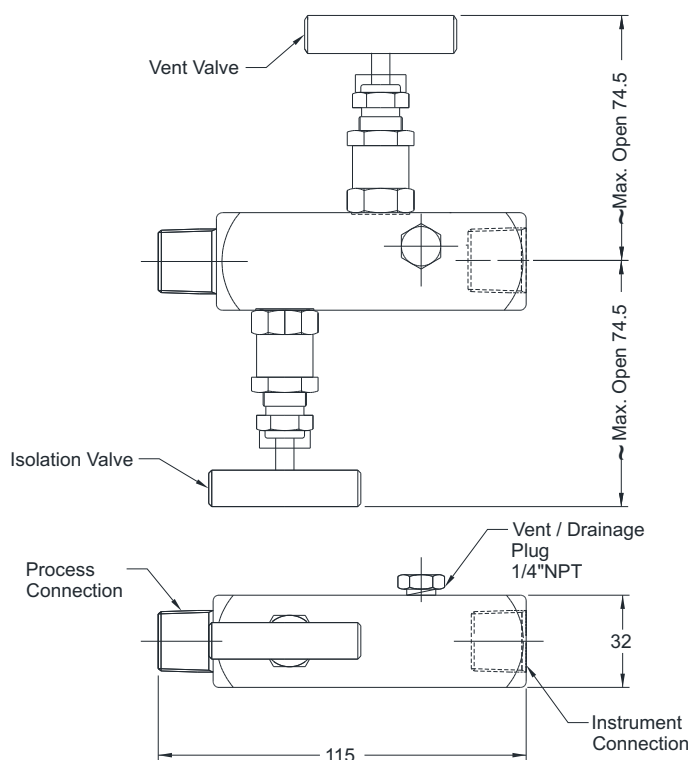
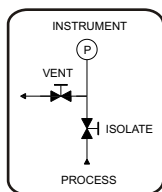
All dimensions are in mm.

DIMENSIONAL DRAWING

Remote mount - Pattern 2



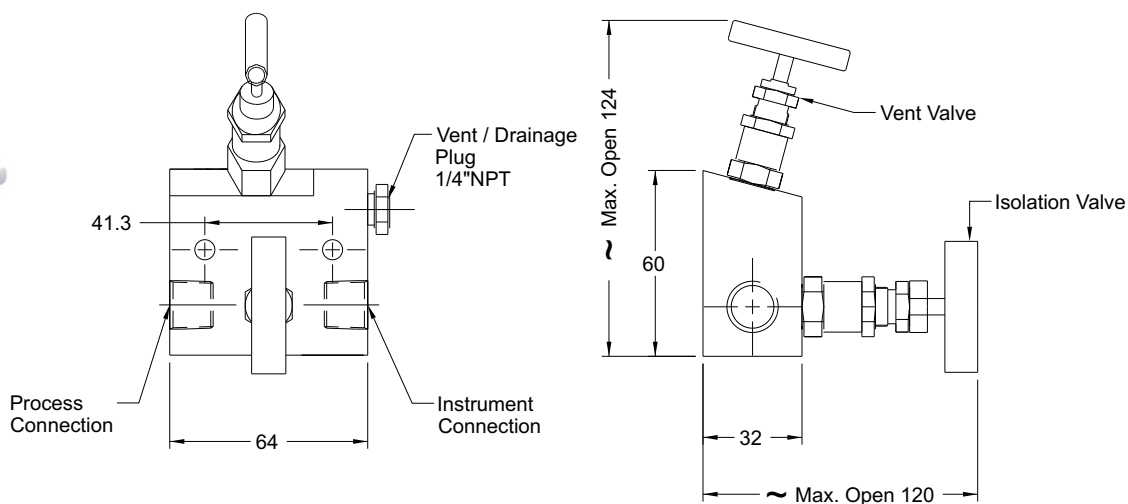
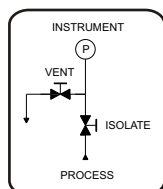
FLOW DIAGRAM



Remote mount - Pattern 3

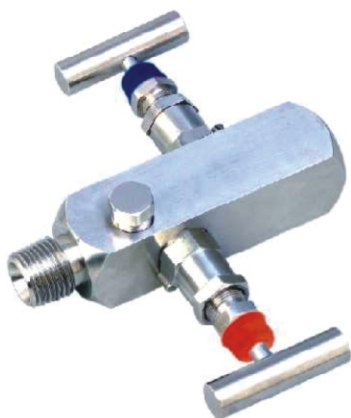


FLOW DIAGRAM

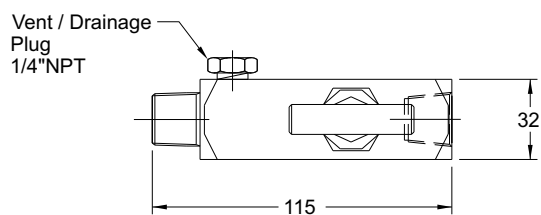
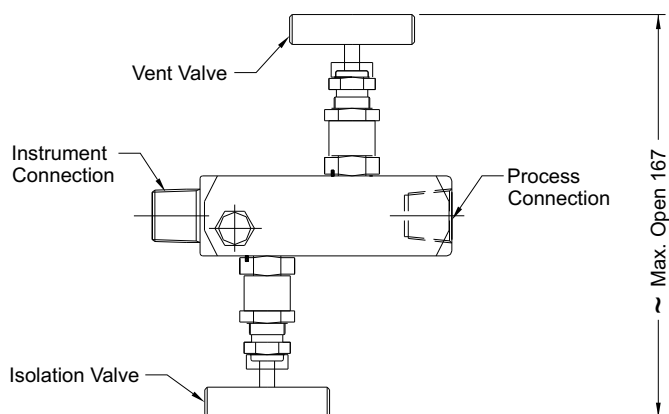
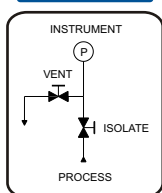


DIMENSIONAL DRAWING

Remote mount - Pattern 4



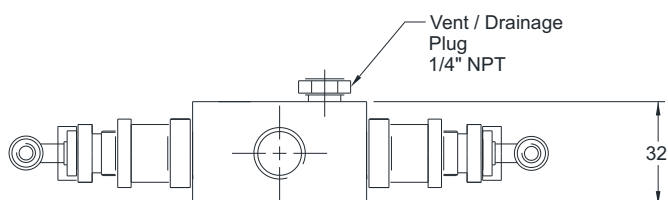
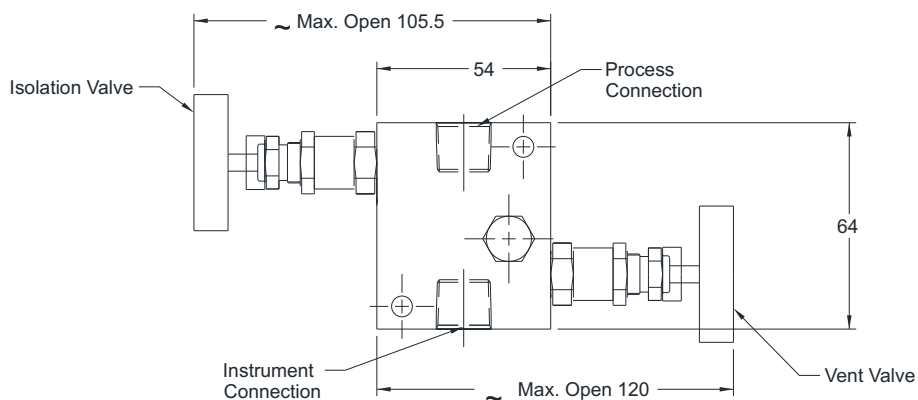
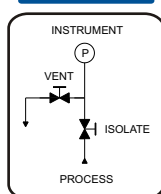
FLOW DIAGRAM



Remote mount - Pattern 5

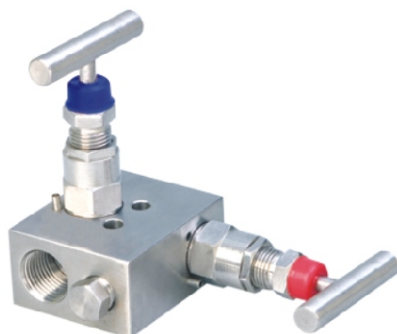


FLOW DIAGRAM

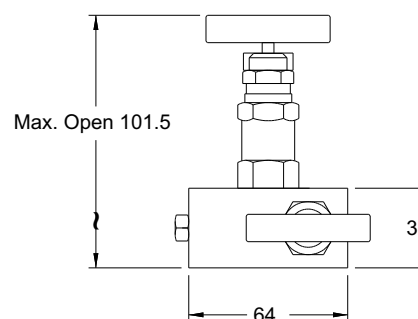
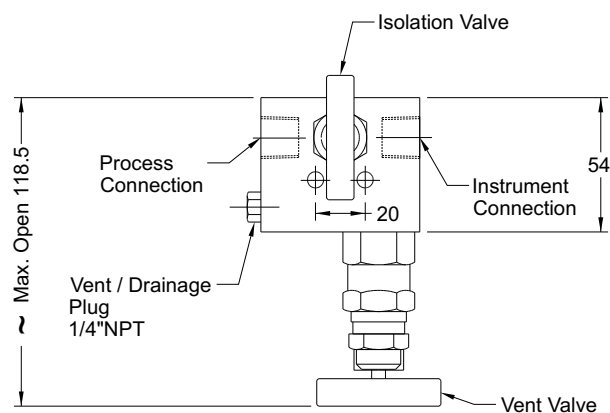
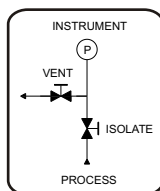


DIMENSIONAL DRAWING

Remote mount - Pattern 6



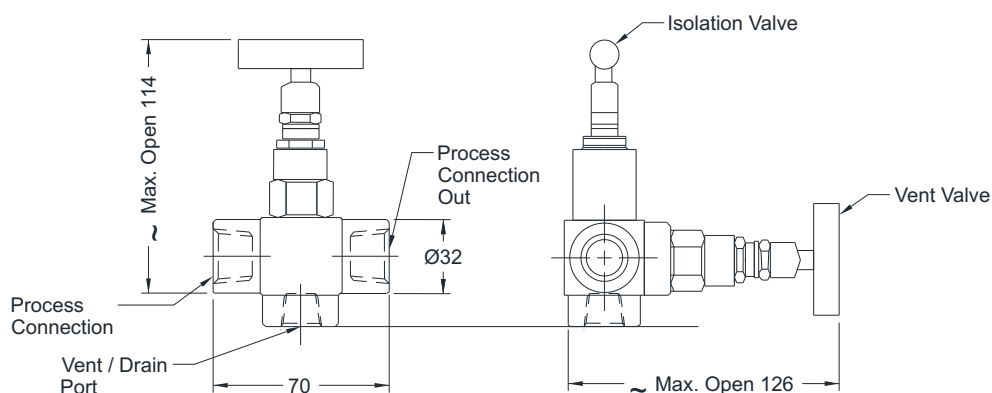
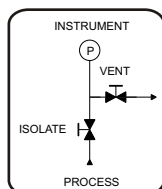
FLOW DIAGRAM



Remote mount - Pattern 7



FLOW DIAGRAM

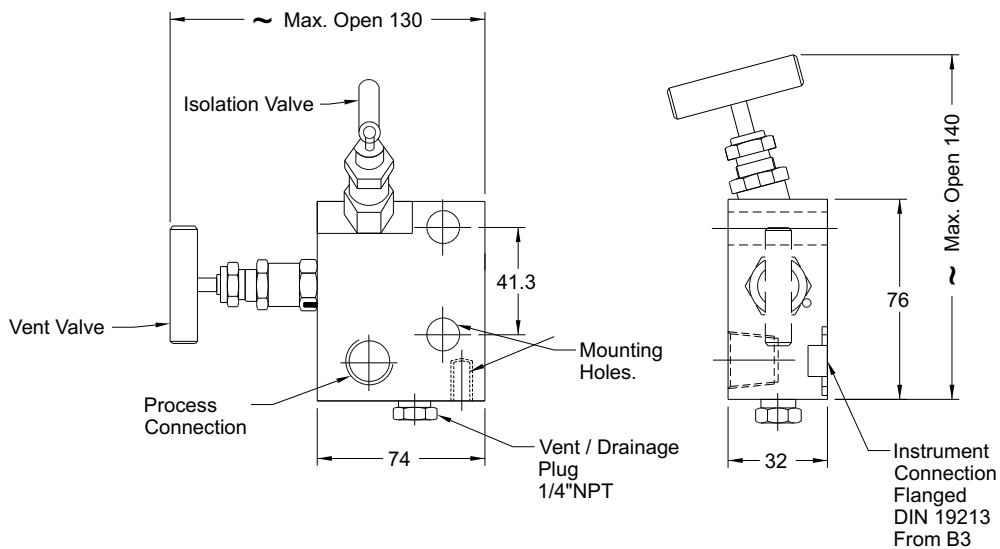
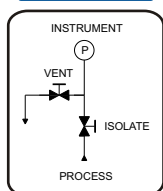


DIMENSIONAL DRAWING

Direct mount - Pattern 1



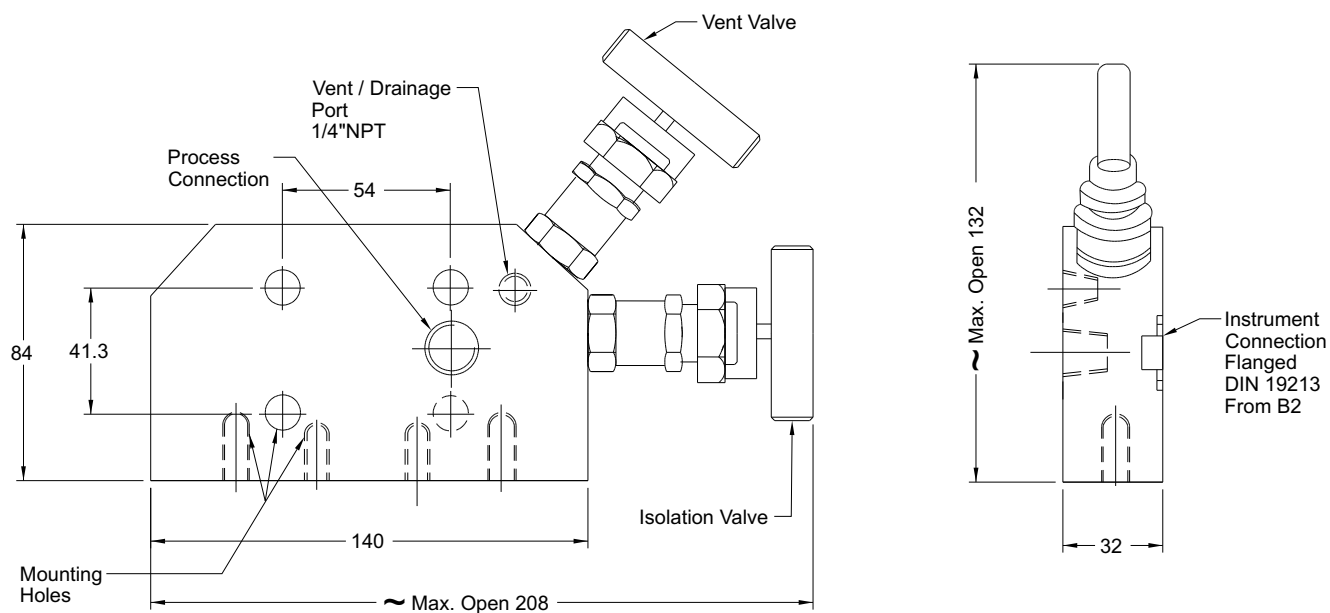
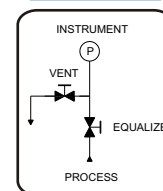
FLOW DIAGRAM



Direct mount - Pattern 2



FLOW DIAGRAM

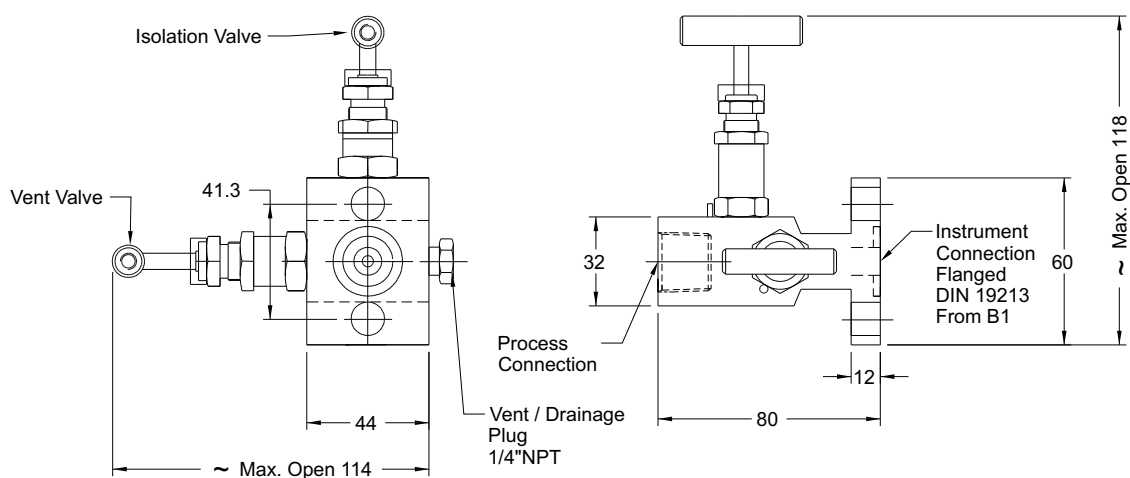
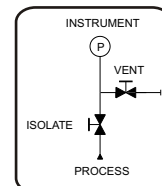


DIMENSIONAL DRAWING

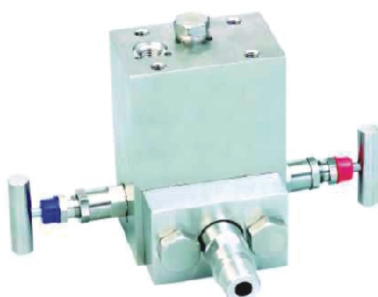
Direct mount - Pattern 3



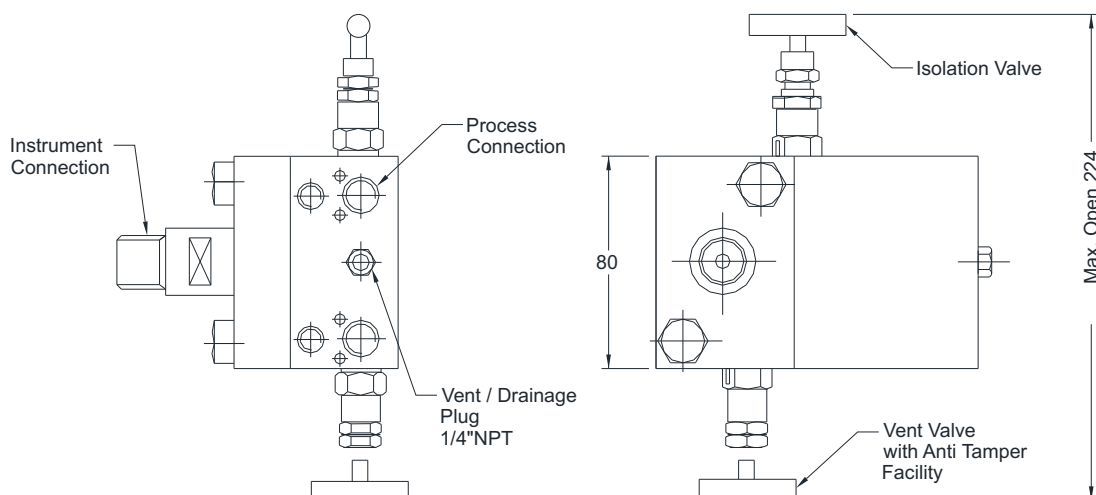
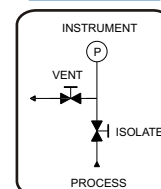
FLOW DIAGRAM



Direct mount - Pattern 4



FLOW DIAGRAM



All dimensions are in mm.

ORDERING CODES

1. MOUNTING

D	Direct	R	Remote
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2. TYPE

1	Pattern 1	2	Pattern 2
3	Pattern 3	4	Pattern 4
5	Pattern 5	6	Pattern 6
7	Pattern 7		

3. WETTED PARTS

MB	Carbon Steel / ASTM A105		
MC	AISI 304SS	MF	AISI 316 SS
MG	AISI 316L SS	MM	Monel 400
MN	Monel K-500	MO	Hastelloy C-276

4. INSTRUMENT CONNECTION

11N	1/8" NPT (M)	12N	1/4" NPT (M)
13N	3/8" NPT (M)	14N	1/2" NPT (M)
11B	1/8" BSP (M)	12B	1/4" BSP (M)
13B	3/8" BSP (M)	14B	1/2" BSP (M)
01N	1/8" NPT (F)	02N	1/4" NPT (F)
03N	3/8" NPT (F)	04N	1/2" NPT (F)
01B	1/8" BSP (F)	02B	1/4" BSP (F)
03B	3/8" BSP (F)	04B	1/2" BSP (F)
FL5	Flange (DIN 19213 Form B1)		
CL5	Coplanar (DIN 19213 Form B2)		
FL6	Flange (DIN 19213 Form B3)		

5. STEM PACKING

P	PTFE	G	Grafoil
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6. PROCESS CONNECTION

11N	1/8" NPT (M)	12N	1/4" NPT (M)
13N	3/8" NPT (M)	14N	1/2" NPT (M)
11B	1/8" BSP (M)	12B	1/4" BSP (M)
13B	3/8" BSP (M)	14B	1/2" BSP (M)
01N	1/8" NPT (F)	02N	1/4" NPT (F)
03N	3/8" NPT (F)	04N	1/2" NPT (F)
01B	1/8" BSP (F)	02B	1/4" BSP (F)
03B	3/8" BSP (F)	04B	1/2" BSP (F)
1SW	1/8" Socket-Weld		
2SW	1/4" Socket-Weld		
4SW	1/2" Socket-Weld		
5SW	3/4" Socket-Weld		

7. OTHER OPTIONS

XY	Circular Handle
TN	Tested to NACE standards
TO	Certification for Oxygen service
TM	Material test certificate 2.2
TH	Hydro test certificate
TC	Material test certificate 3.1
XR	Customized Marking
XL	Marking by laser

Ordering Example : M102-R-2-MF-04N-P-14N-XL

APPLICABLE ACCESSORIES

A501	Mounting Bracket, two valve manifold	A506	Mounting bolts
A507	Ring for flanged seal	A508	Sealing gasket

NOTES:

1. Other connections are available, please contact factory for details.
2. Valve stem dust covers shall be identified with color codes according to their function as Blue = ISOLATE, Green = EQUALIZE & Red = DRAIN / VENT.
3. For option "F5 = Flange (DIN 19213 Form B1)", the CC distance shall be 54 mm.