

FEATURES

- 2 isolate & 1 vent valves (plugged vent provided)



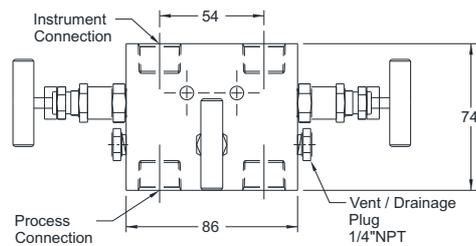
APPLICATION

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

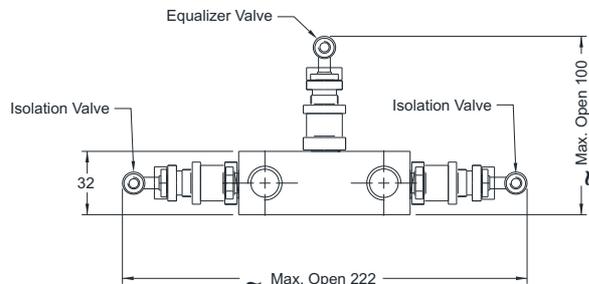
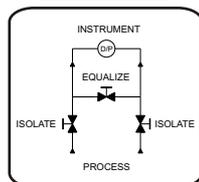
STANDARD SPECIFICATIONS

Mounting	: Direct
Pattern	: 1
Wetted parts	: AISI 316 SS
Instrument connection	: 1/2" NPT (F) x 2 Nos. / 1/2" BSP (F) x 2 Nos.
Stem packing	: PTFE
Process connection	: 1/2" NPT (F) x 2 Nos. / 1/2" BSP (F) x 2 Nos.
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) x 2 Nos, plugged

Remote mount - Pattern 1

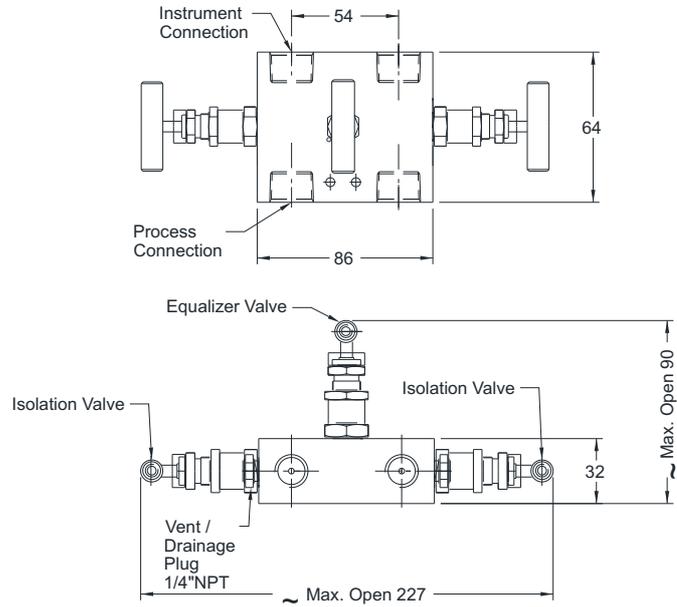
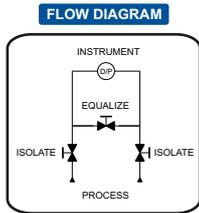


FLOW DIAGRAM



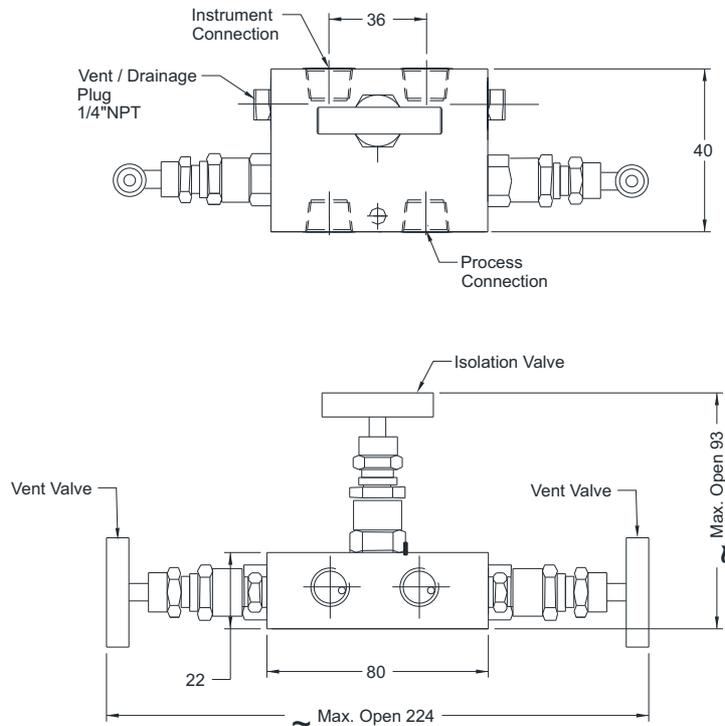
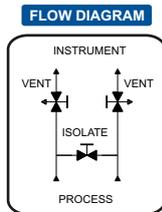
All dimensions are in mm.

Remote mount - Pattern 2



Note : The model comes without drain plugs.

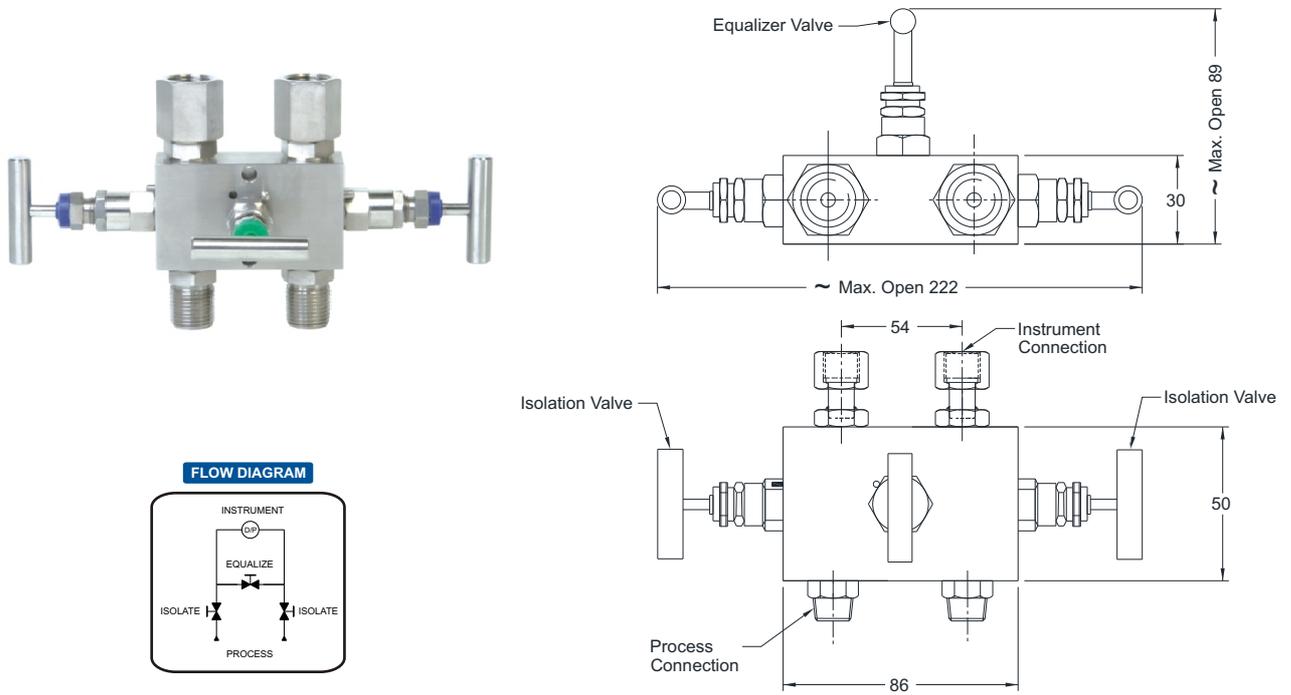
Remote mount - Pattern 3



Note : Available as 1/4" NPT (F x F) connection only.

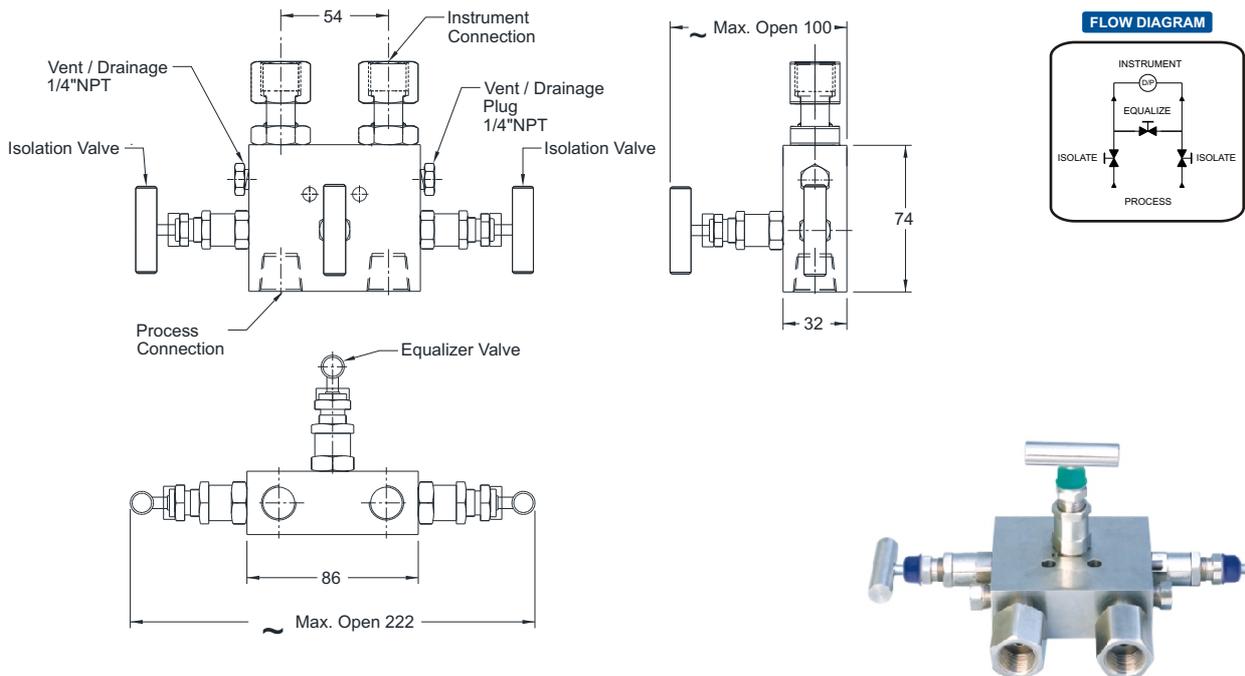
All dimensions are in mm.

Remote mount - Pattern 4



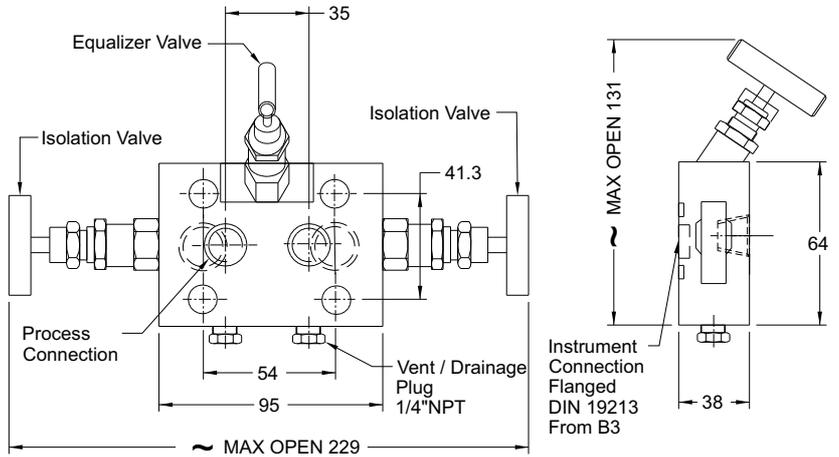
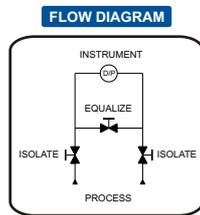
Note : The model comes without drain ports and with male process connections.

Remote mount - Pattern 5



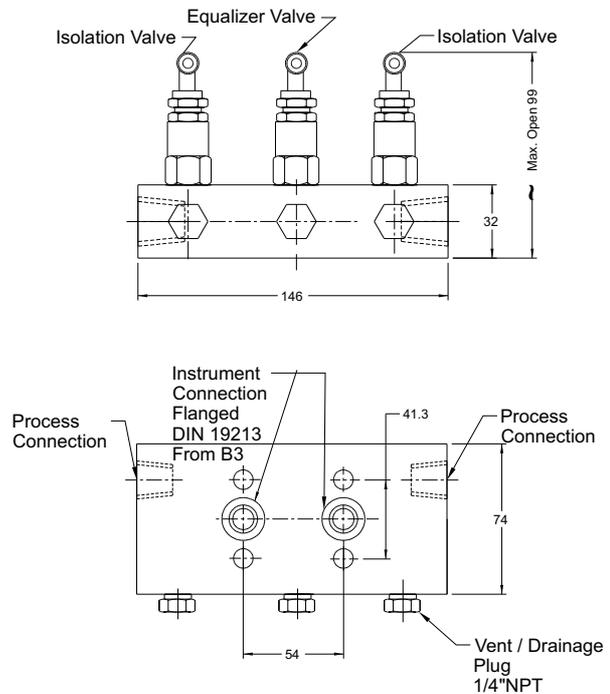
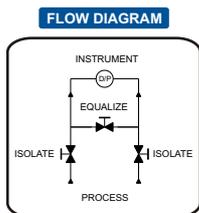
All dimensions are in mm.

Direct mount - Pattern 1



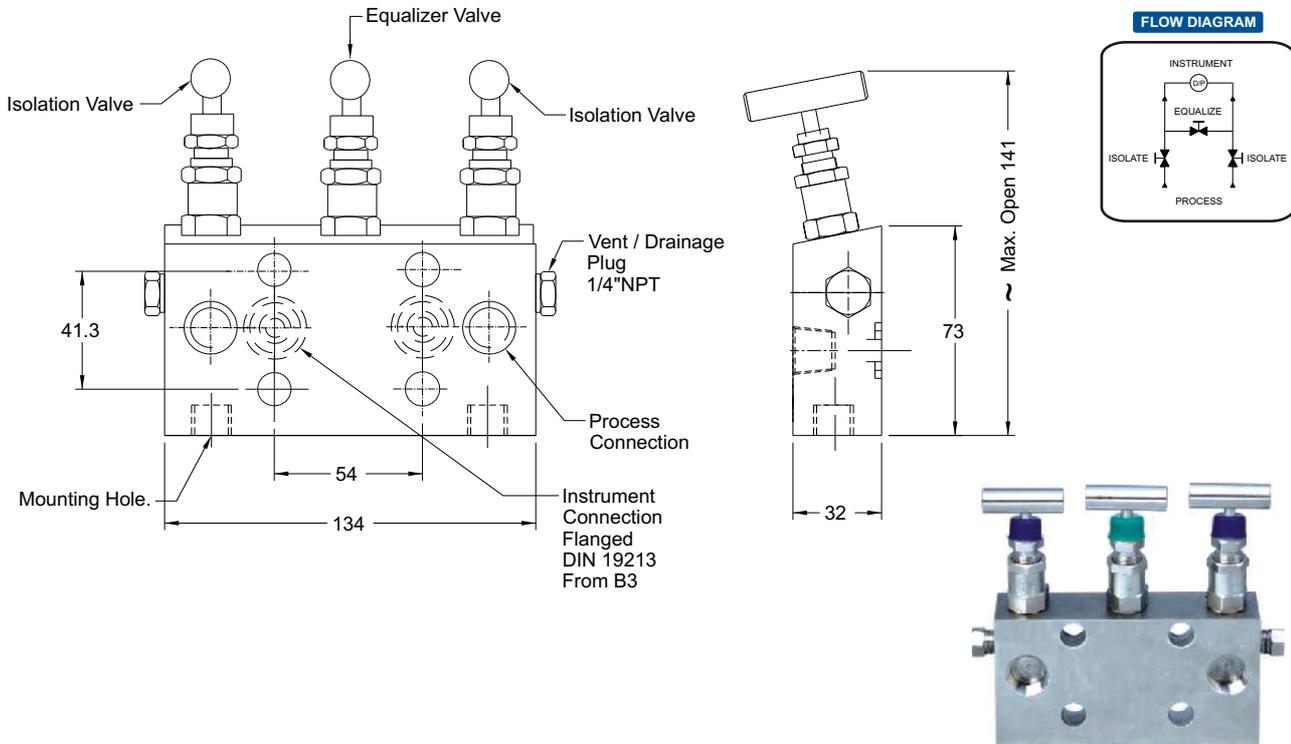
Note : The model comes without drain plugs.

Direct mount - Pattern 2



All dimensions are in mm.

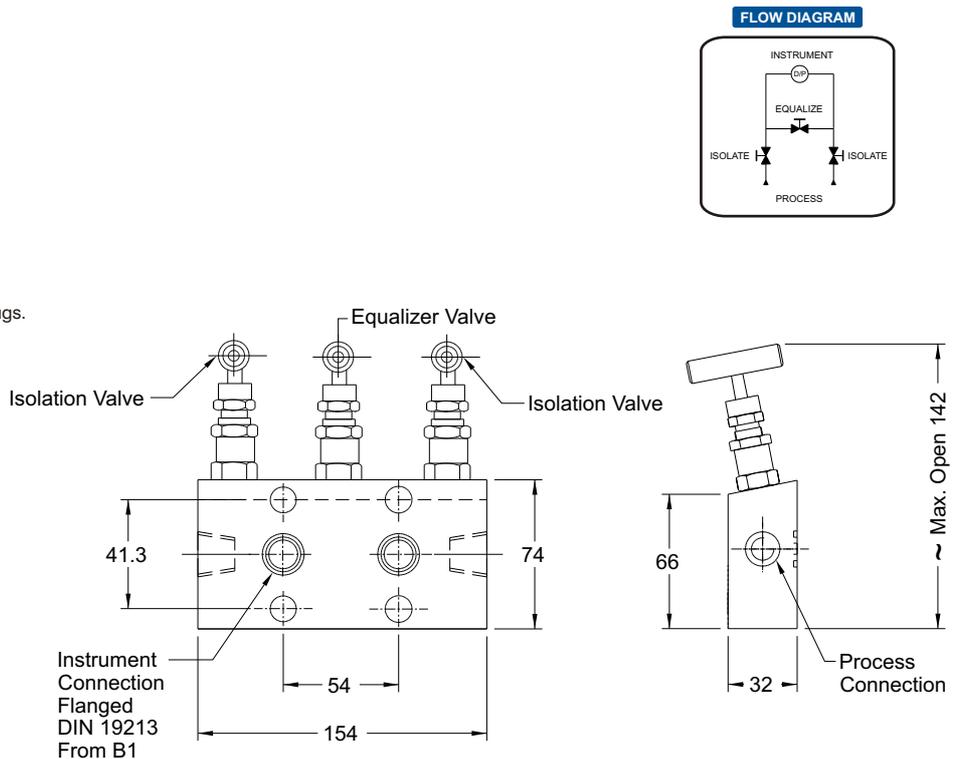
Direct mount - Pattern 3



Direct mount - Pattern 4

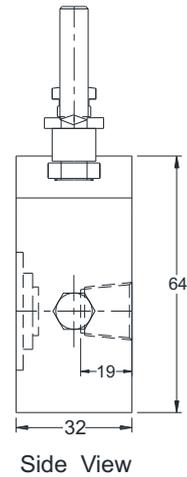
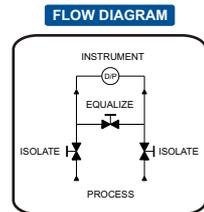
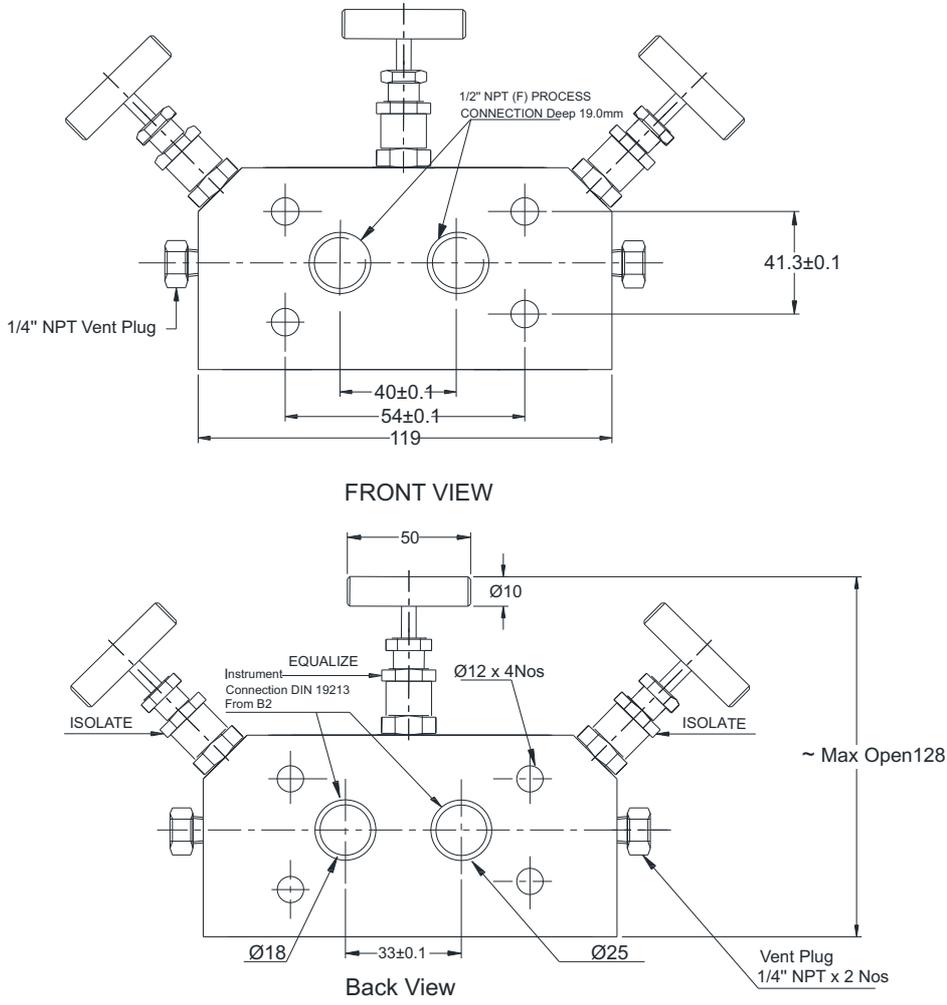


Note : The model comes without drain plugs.



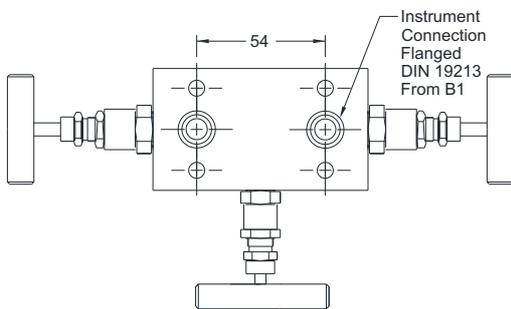
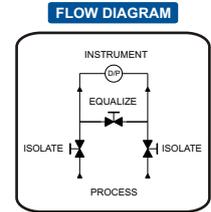
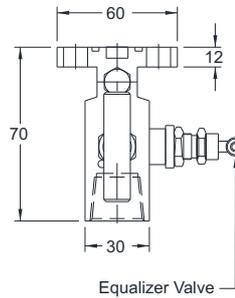
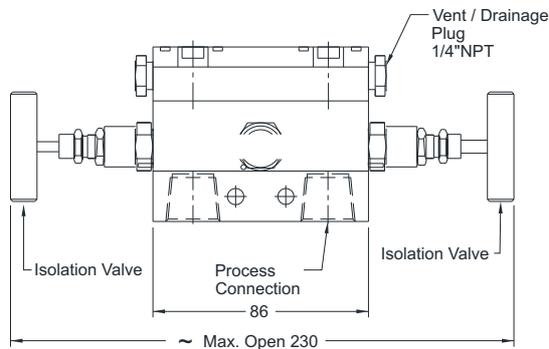
All dimensions are in mm.

Direct mount - Pattern 5

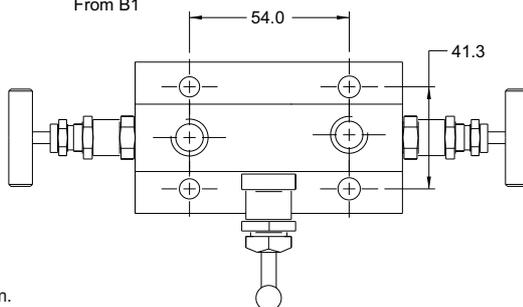
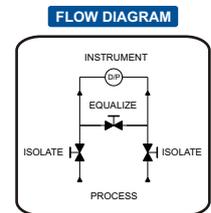
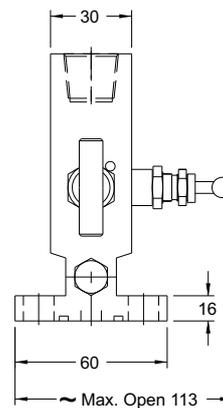
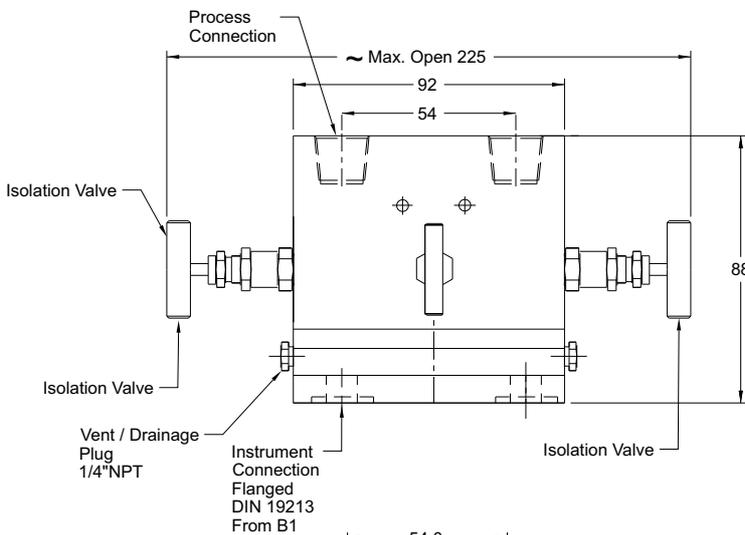


All dimensions are in mm.

Direct mount - Pattern 6

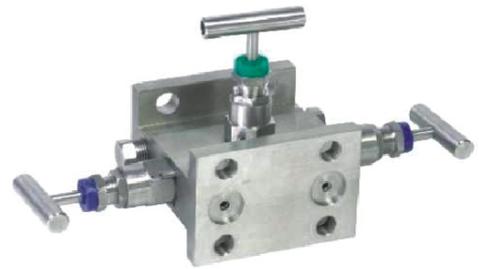
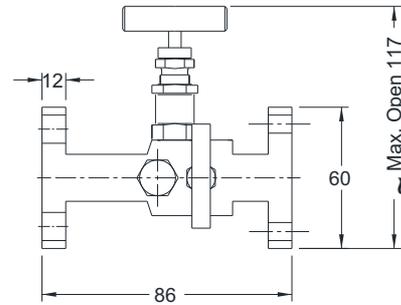
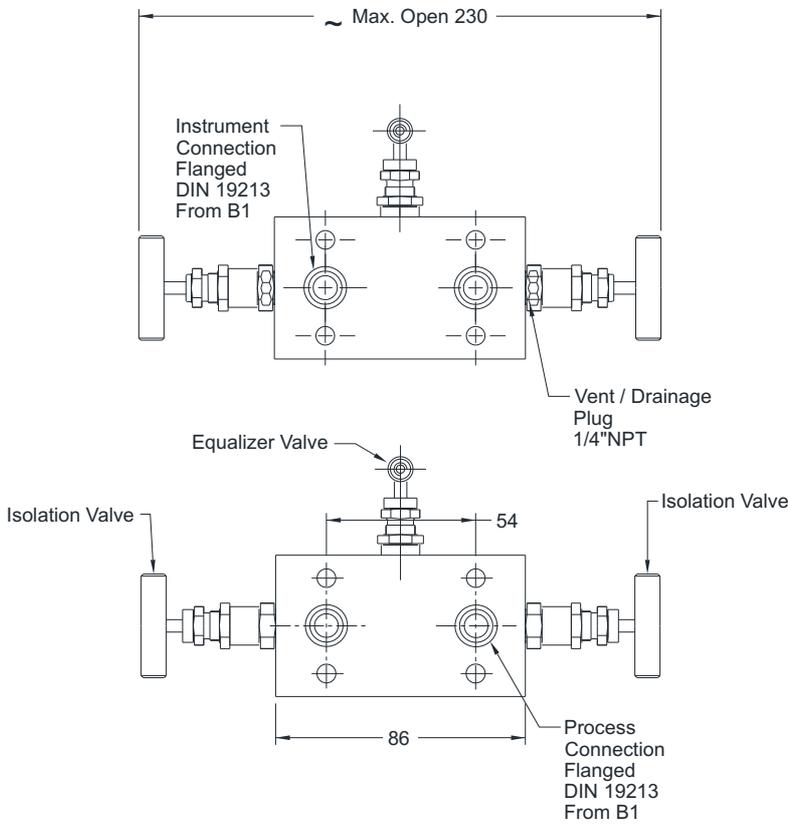


Direct mount - Pattern 7

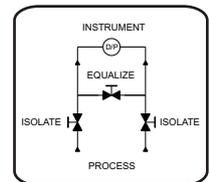


All dimensions are in mm.

Direct mount - Pattern 8



FLOW DIAGRAM



APPLICABLE ACCESSORIES

A502	Mounting Bracket, three/five valve manifold
A506	Mounting bolts
A507	Ring for flanged seal
A508	Sealing gasket

All dimensions are in mm.

ORDERING CODES

1. MOUNTING

- D** Direct
- R** Remote

R

2. TYPE

- | | |
|--------------------|--------------------|
| 1 Pattern 1 | 2 Pattern 2 |
| 3 Pattern 3 | 4 Pattern 4 |
| 5 Pattern 5 | 6 Pattern 6 |
| 7 Pattern 7 | 8 Pattern 8 |

2

3. WETTED PARTS

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

MF

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)

04N

5. STEM PACKING

- P** PTFE
- G** Grafoil

P

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

04N

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
- XL** Marking by laser

XL

Ordering Example : M103-R-2-MF-04N-P-04N-XL

NOTES:

1. 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.