



ELITE INSTRUMENTS

ISO 9001 COMPANY

PRESSURE GAUGE | THERMOMETER | DIAPHRAGM SEAL | ACCESSORIES

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ULTRA HIGH PRESSURE GAUGES

WETTED PARTS -NACE MR0175
AISI 316L SS , HASTELLOY-C276 , INCONEL 625 , MONEL 400



EXCELPLUS MOVEMENT-PMI TESTED -ACCURACY 0.5% -MIRROR DIAL/DIAL FLUORESCENT /GLOW IN DARK -KNIFE EDGE POINTER

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Table of contents

SR NO.	MODEL NO. NV-01	DESCRIPTION ANGLE VALVE	PAGE NO.
2	NV-02	NEEDLE VALVE (COMPRESSED END)	3
3	NV-03	MINIATURE VALVE	5
4	NV-04	NEEDLE VALVE	7
5	NV-05	BLOCK & BLEED VALVE	9
6	NV-06	MULTIPORT VALVE	11
7	NV-07	NEEDLE VALVE (SPECIAL SERIES)	13

^{*} FOR MANIFOLD CATALOGUE REFER PAGE NO.14



ANGLE VALVE



NV-01

Type angle pattern needle valve designed for use in on general applications requiring complete isolation or throttling of the media. Ideal for use on gas services and some liquid applications. Produce as standard angle body at 90 degrees. Angle body 45 degrees optional. Specially designed soft Delrin needle tip (type **DS**) rolled in to the stem assembly in perfect location for positive bubble tight shut-off. Available with end connections in sizes from 1/4" to1/2" and a wide choice of female screwed, male to female screwed or socket weld.

Technical specifications

Design Pressure : 6000 PSI / 400 bar

Max temp. : 100°C

Material : Stainless steel

Stem : (Type DS) Delrin Soft Needle Tip rolled into the needle

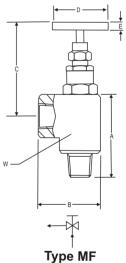
Gland Packing : PTFE

Stem packing area : Burnished finish for smooth valve operation. Safety Feature : Back seating for Preventing stem blowout.

Size	Туре	Body	dimens	ions	Height (open)	Handle	Handle OD
3126	1,000	Α	В	W	С	D	E
	FxF	32	32	28	63	40	10
1/4"	MxF	48	32	28	63	40	10
	MxM	48	48	28	63	40	10
	FxF	32	32	28	63	40	10
3/8"	MxF	48	32	28	63	40	10
0,0	MxM	48	48	28	63	40	10
	FxF	50	50	32	95.5	50	12
	MxF	70	50	32	95.5	50	12
1/2"	MxM	70	70	32	95.5	50	12

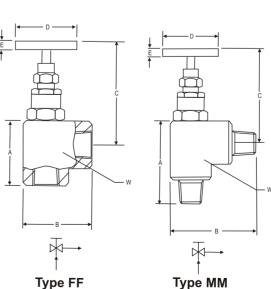






Applications

- Instrument line shut off.
- Instrument and gauge isolation.
- Drain valve.
- Specially designed for gas service.





ANGLE VALVE



HOW TO ORDER: NV-01

Body Material	Stem Packing	Size = $P \times P1$	Connections	Threads
C = Carbon Steel	P = PTFE	24 = 1/4" x 1/4"	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	G = Grafoil	33 = 3/8" x 3/8"	MF = Male x Female	P = BSPP
S4 = SS 304		44 = 1/2" x 1/2"	MM = Male x Male	(BS 2779,ISO 228/1)
SL = SS 316L		., ., ., ., ., .,	SW = Socket Weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400				
M5 = Monel 500				
H = Hastelloy C				

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG: For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate GO: Hydro test certificate

Example

To place an order simply refer to the codes in the table.

Note -

The weld prepared types are available with a male-or-female plain end - suitable for socket weld, or male butt weld end. Always specify pipe schedule and further requirements when ordering valves for welded or Flange connections. Panel mounting option for installation in racks and panels.

Standard Valve Materials

Valve	Body	Bonnet	Stem	Tip
Carbon Steel	CS A105	CS A105	SS 304	SS 304
Stainless Steel	SS 316	SS 316	SS 316	SS 316
Monel	Monel	Monel	Monel	Monel



NEEDLE VALVE (COMPRESSION END)



NV-02

Needle Valves with compression ends for use in applications on fluids containing solid particles designed to give high capacity bi-directional flow with reliable bubble tight shut off. The flow path of the valve is easy to clean for viscous fluid application. Offered with Waaree designed twin ferrules and nuts available in imperial and metric sizes (See Tube Fitting catalogue No. FIT/04/06). Available with tube end connections in sizes from 6 mm to 12 mm and 1/4" to ½" tube or one end screwed to male or female.

Technical specifications

Design Pressure : 6000 PSI /400 bar

Max temp. : 240°C

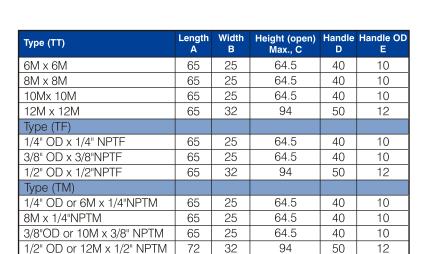
Stem : Rising Plug(Type BD)

Stem packing area : Burnished finish for smooth valve operation. Safety Feature : Back seating for preventing stem blowout.

Feature : Replaceable soft seat which absorbs contaminants

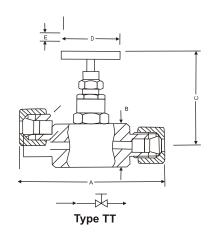
and operates in dirty service, with easy

Maintenance and straight through design for high



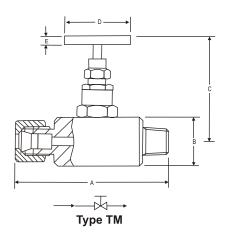


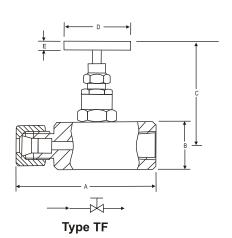




Applications

- Instrument isolation
- Media throttling
- Liquid and vapor service.







NEEDLE VALVE COMPRESSION END



HOW TO ORDER: NV-02

Body Material	Stem Packing	Size = P x P1	Connections	Threads
C = Carbon Steel	P = PTFE	6M = 6 x 6mm OD	TT = Tube x Tube	N = NPT (ANSI B 1.20.1)
S = SS 316	G = Grafoil	8M = 8 x 8mm OD	TM = Tube x Male	P = BSPP
S4 = SS 304		10M = 10 x 10mm OD	TF = Tube x Female	(BS 2779, ISO 228/1)
SL = SS 316L		12M = 12 x 12mm OD		B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400		$4T = 1/4" \times 1/4" OD$		
M5 = Monel 500		6T = 3/8" x 3/8" OD		
H = Hastelloy C		8T = 1/2" x 1/2" OD		
B = Brass		$4 = 1/4"OD \times 1/4"$ thread		
		$6 = 3/8"OD \times 3/8"$ thread		
		$8 = 1/2"OD \times 1/2"$ thread		

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG: For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

Example

To place an order simply refer to the codes in the table.



Note -

The weld prepared types are available with a male-or-female plain end - suitable for socket weld, or male butt weld end. Always specify pipe schedule and further requirements when ordering valves for welded or Flange connections. Panel mounting option for installation in racks and panels.

Standard Valve Materials

Valve	Body	Bonnet	Stem	Tip
Carbon Steel	CS A105	CS A105	SS 304	SS 304
Stainless Steel	SS 316	SS 316	SS 316	SS 316



MINIATURE VALVE



NV-03

Type miniature compact design needle valves are ideal for bubble tight shut-off in applications where space is at a premium. The mini series are available with metal to metal low torque seating (Stem Type YS). Available with end connections in sizes 1/8" to 1/4" and as pipe connections.

Technical specifications

Design Pressure : 3000 PSI / 200 bar

Max temp. : 240°C Gland Packing : PTFE

Stem packing area : Burnished finish for smooth valve operation.

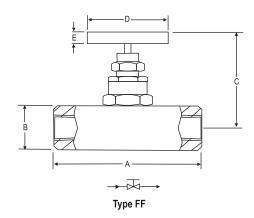
Safety Feature : Back seating for preventing stem blowout.

Feature : Metal to metal seating Material Stainless Steel



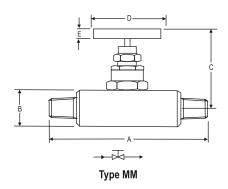
Size	Туре	Length A	Width B	Height (open) C	Handle D	Handle OD E
	FxF	50	22	56	40	10
1/8"	MxF	56	22	56	40	10
	MxM	60	22	56	40	10
	FxF	55	22	56	40	10
1/4"	MxF	65	22	56	40	10
	MxM	60	22	56	40	10

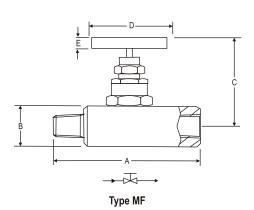
All dimensions are in mm



Applications

- Instrument air lines
- Control panels
- Air header assemblies
- Gas sampling
- Laboratory equipment
- Instrument isolation
- Control loops
- Gas and liquid service







MINIATURE VALVE



HOW TO ORDER: NV-03

Body Material	Stem Packing	Size = P x P1	Connections	Threads
S = SS 316	P = PTFE	22 = 1/8" x 1/8"	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S4 = SS 304		24 = 1/4" x 1/4"	MF = Male x Female	P = BSPP
SL = SS 316L			MM = Male x Male	(BS 2779, ISO 228/1)
B = Brass				

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG: For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

Example

To place an order simply refer to the codes in the table.

Note -

The weld prepared types are available with a male-or-female plain end - suitable for socket weld, or male butt weld end. Always specify pipe schedule and further requirements when ordering valves for welded or Flange connections. Panel mounting option for installation in racks and panels.

Standard Valve Materials

Valve	Body	Bonnet	Stem	Tip
Carbon Steel	CS A105	CS A105	SS 304	SS 304



NEEDLE VALVE



NV-04

Type needle valves with soft seat types are designed for use on applications requiring complete isolation or throttling of the media and for high pressure instrument lines. Ideal for use on gas services and some liquid applications. Specially designed Delrin needle tip (stem type DS) rolled into the stem assembly in perfect location for positive bubble tight shut-off. Available with end connections in sizes from 1/8" to 1" and a wide choice of female screwed, male to female screwed or socket weld.

Technical specifications

Design Pressure : 6000 PSI / 400 bar

Max temp. : 100°C

Material : Stainless steel

Stem : (DS)Delrin Soft Needle Tip rolled into the needle

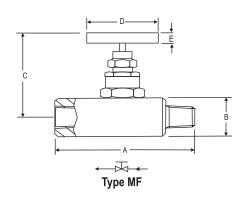
Gland Packing : PTFE

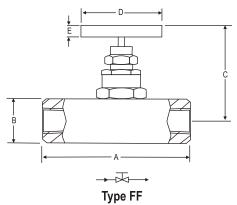
Stem packing area : Burnished finish for smooth valve operation. Safety Feature : Back seating for preventing stem blowout.

Size	Туре	Length A	Width B	Height (open) Max., C	Handle D	Handle OD E
	FxF	50	25	63.5	40	10
1/8"	MxF	55	25	63.5	40	10
	MxM	60	25	63.5	40	10
	FxF	55	25	63.5	40	10
1/4"	MxF	65	25	63.5	40	10
	MxM	60	25	63.5	40	10
	FxF	55	25	63.5	40	10
3/8"	MxF	65	25	63.5	40	10
	MxM	65	25	63.5	40	10
	FxF	65	32	93.5	50	12
1/2"	MxF	75	32	93.5	50	12
	MxM	70	32	93.5	50	12
	FxF	70	38	96.5	50	12
3/4"	MxF	75	38	96.5	50	12
	MxM	80	38	93.5	50	12
	FxF	90	45	101	70	12
1"	MxF	105	45	101	70	12
	MxM	105	45	101	70	12



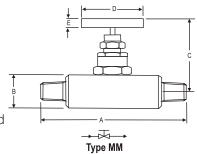






Applications

- Instrument line shut off.
- Instrument isolation.
- Gauge isolation.
- Drain valve.
- Specially designed for gas service and liquid applications.





NEEDLE VALVE



HOW TO ORDER: NV-04

Body Material	Stem Packing	Size = P x P1	Connections	Threads
C = Carbon Steel	P = PTFE	22 = 1/8" x 1/8"	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	G = Grafoil	24 = 1/4" x 1/4"	MF = Male x Female	P = BSPP
S4 = SS 304 SL = SS 316L		33 = 3/8" x 3/8"	MM = Male x Male	(BS 2779, ISO 228/1)
M4 = Monel 400		44 = 1/2" x 1/2"	SW = Socket Weld	B = BSPT (BS 21, ISO 7/1)
M5 = Monel 500		66 = 3/4" x 3/4"		
H = Hastelloy C		88 = 1" x 1"		
B = Brass				

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG: For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate GO: Hydro test certificate

Example

To place an order simply refer to the codes in the table.



Note -

The weld prepared types are available with a male-or-female plain end - suitable for socket weld, or male butt weld end. Always specify pipe schedule and further requirements when ordering valves for welded or Flange connections. Panel mounting option for installation in racks and panels.

Standard Valve Materials

Valve	Body	Bonnet	Stem	Tip
Carbon Steel	CS A105	CS A105	SS 304	SS 304
Stainless Steel	SS 316	SS 316	SS 316	SS 316
Monel	Monel	Monel	Monel	Monel



BLOCK & BLEED VALVE



NV-05

type gauge valve is a block and bleed needle pattern gauge valve with specially designed integral bleed of M8. Ideal for use on applications requiring bleeding or venting of media. Self centering needle non-rotating, on the valve seat. The conical metal tip (stem type CT) press fitted ensures perfect alignment for positive bubble tight shut-off. Standard end connections are male inlet and female outlet from 1/4" to 3/4".

Technical specifications

Design Pressure 6000 PSI / 400 bar

Max temp. 240°C

Material Stainless Steel

Stem (CT) Conical tip press fitted hard chrome plated.

Gland Packing PTFE

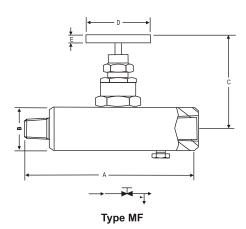
Stem packing area Burnished finish for smooth valve operation.

Safety Feature Back seating for Preventing stem blowout.

Size	Туре	Length A	Width B	Height (open) Max., C	Handle D	Handle OD E
	FxF	70	25	63	40	10
1/4"	MxF	70	25	63	40	10
	MxM	75	25	63	40	10
	FxF	70	25	63	40	10
3/8"	MxF	70	25	63	40	10
	MxM	75	25	63	40	10
	FxF	75	32	83.6	50	12
1/2"	MxF	83	32	83.6	50	12
	MxM	88	32	83.6	50	12
	FxF	75	38	86.6	50	12
3/4"	MxF	83	38	86.6	50	12
	MxM	88	38	83.6	50	12

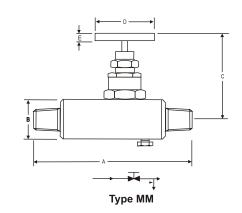


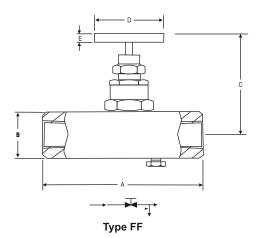




Applications

- Installation of instrument and gauge.
- isolation of Instrument.
- Venting of Instrument.





Optional : GV 10 - High pressure valves for 10,000 psi pressure GV 20 - High pressure valves for 20,000 psi pressure



BLOCK & BLEED VALVE



HOW TO ORDER: NV-05

Body Material	Stem Packing	Size	Connections (inlet x outlet)	Threads
C = Carbon Steel	P = PTFE	24 = 1/4" x $1/4$ "	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	G = Grafoil	$33 = 3/8$ " $\times 3/8$ "	MF = Male x Female	P = BSPP
S4 = SS 304		44 = 1/2" x 1/2"	MM = Male x Male	(BS 2779, ISO 228/1)
SL = SS 316L		$66 = 3/4$ " $\times 3/4$ "	SW = Socket Weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400				
M5 = Monel 500				
H = Hastelloy C				

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

D4 : 1/4" NPT (M) Drain Plug instead of M8 bleed

BLD4: Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.



Note -

The weld prepared types are available with a male-or-female plain end - suitable for socket weld, or male butt weld end. Always specify pipe schedule and further requirements when ordering valves for welded or Flange connections. Panel mounting option for installation in racks and panels.

Standard Valve Materials

Valve	Body	Bonnet	Stem	Tip
Carbon Steel	CS A105	CS A105	SS 304	SS 304
Stainless Steel	SS 316	SS 316	SS 316	SS 316



MULTI PORT VALVE



NV-06

Type multiport gauge valves are ideal for use on gauge or instrument installations without further penetrations of the main piping. A gauge valve with multiple outlets and inlets with in various sizes and connections. The standard three 1/2" NPT female screwed outlet ports offer a flexibility of alternative applications. Available with a male inlet and three female outlet ports or female inlet and three female lets. Bleed valves and plugs to suit outlet ports supplied optional.



Technical specifications

Design Pressure 6000 PSI / 400 bar

Max temp. 240°C

Stem (Type CT) Conical tip press fitted hard chrome plated

Gland Packing PTFE

Stem packing area Burnished finish for smooth valve operation.

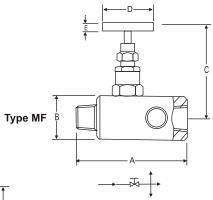
Safety Feature Back seating for preventing stem blowout.

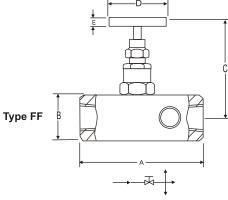
Feature Multi outlet design extended valve inlet up to 4" max.

for pipe insulation.

Size	Туре	Length A	Width B	Height (open) Max., C	Handle D	Handle OD E
1/4"	FxF	74	25	63	40	10
'/-	MxF	84	25	63	40	10
3/8"	FxF	74	25	63	40	10
] 3/0	MxF	84	25	63	40	10
1/2"	FxF	102	32	83.6	50	12
'/-	MxF	115	32	83.6	50	12
3/4"	FxF	102	38	86.8	50	12
L 0,4	MxF	115	38	86.6	50	12

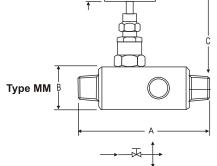
All dimensions are in mm





Applications

- Mounting of instruments or multiple gauges
- Instrument isolation
- Instrument installation with separate vents And calibrate connections
- Liquid and vapor gas service



Optional : MGT 10 - High pressure valves for 10,000 psi pressure

MGT 20 - High pressure valves for 20,000 psi pressure



MULTI PORT VALVE



HOW TO ORDER: NV-06

Body Material	Stem Packing	Size = P x P1	Connections	Threads
C = Carbon Steel	P = PTFE	24 = 1/4" x 1/4"	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	G = Grafoil	44 = 1/2" x 1/2"	MF = Male x Female	P = BSPP
S4 = SS 304		46 = 1/2" x 3/4"	SW = Socket Weld	(BS 2779, ISO 228/1)
SL = SS 316L M4 = Monel 400		64 = 3/4" x 1/2"	FL = Female x extended	B = BSPT (BS 21, ISO 7/1)
M5 = Monel 500		66 = 3/4" x 3/4"	long body end	
H = Hastelloy C				

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG: For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate
BLD8: Bleeder 1/2" NPT (Male)
D8: Plug 1/2" NPT (Male)

Example

To place an order simply refer to the codes in the table.



Note -

The weld prepared types are available with a male-or-female plain end - suitable for socket weld, or male butt weld end. Always specify pipe schedule and further requirements when ordering valves for welded or Flange connections. Panel mounting option for installation in racks and panels.

Standard Valve Materials

Valve	Body	Bonnet	Stem	Tip
Carbon Steel	CS A105	CS A105	SS 304	SS 304
Stainless Steel	SS 316	SS 316	SS 316	SS 316



NEEDLE VALVE (SPECIAL SERIES)



NVR

with threaded inlet and outlet port. One end of the valve is provided with a rotating nut.



Rotating End

Applications

- High pressure line shut off.
- Instrument isolation.
- Gauge isolation.
- Liquid and vapor service

NV24

Needle valves are designed for use on application requiring complete isolating or throttling of the media. Available with and connection in size $1\frac{1}{2}$ " (NPT, BSP) and a wide choice in connection of female screwed, male screwed etc. Withstands pressure up to 6000 PSI / 400 bar.



Size 1 1/2"

Applications

- High pressure line shut off.
- Instrument isolation.
- Gauge isolation.
- Liquid and vapor service

NV32

Needle valves are designed for use on application requiring complete isolating or throttling of the media. Available with and connection in size 2" (NPT, BSP) and a wide choice in connection of female screwed, male screwed etc. Withstands pressure up to 6000 PSI / 400 bar.

Size 2"



Applications

- High pressure line shut off.
- Instrument isolation.
- Gauge isolation.
- Liquid and vapor service

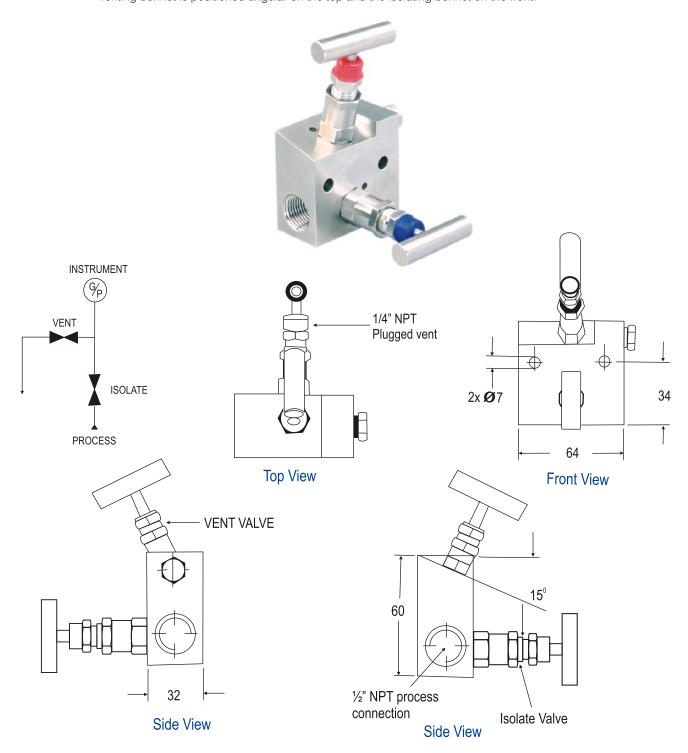
Table of contents

SR NO.	MODEL NO.	DESCRIPTION 2 VALVE MANIFOLD	PAGE NO.
	M-01		15 17
2	M-02 M-03	2 VALVE MANIFOLD 2 VALVE MANIFOLD	19
4	M-03	2 VALVE MANIFOLD 2 VALVE MANIFOLD	21
5	M-04	2 VALVE MANIFOLD 2 VALVE MANIFOLD	23
6	M-06	2 VALVE MANIFOLD	25
7	M-07	2 VALVE MANIFOLD	27
8	M-08	2 VALVE MANIFOLD	29
9	M-09	2 VALVE MANIFOLD	31
10	M-10	3 VALVE MANIFOLD	33
11	M-11	3 VALVE MANIFOLD	35
12	M-12	3 VALVE HAMIFOLD	37
13	M-13	3 VALVE MANIFOLD	39
14	M-14	3 VALVE MANIFOLD	41
15	M-15	3 VALVE MANIFOLD	43
16	M-16	3 VALVE MANIFOLD	45
17	M-17	3 VALVE MANIFOLD	47
18	M-18	3 VALVE MANIFOLD	49
19	M-19	3 VALVE MANIFOLD	51
20	M-20	3 VALVE MANIFOLD	53
21	M-21	3 VALVE MANIFOLD	55
22	M-22	5 VALVE MANIFOLD	57
23	M-23	5 VALVE MANIFOLD	59
24	M-24	5 VALVE MANIFOLD	61
25	M-25	5 VALVE MANIFOLD	63
26	M-26	5 VALVE MANIFOLD	65
27	M-27	5 VALVE MANIFOLD	67
28	M-28	5 VALVE MANIFOLD	69
29	M-29	5 VALVE MANIFOLD	71
30	M-30	5 VALVE MANIFOLD	73
31	M-31	5 VALVE MANIFOLD	75
32	M-32	5 VALVE MANIFOLD	77
33	M-33	5 VALVE MANIFOLD	79
34	M-34	5 VALVE MANIFOLD	81
35	M-35	DISTRIBUTION MANIFOLD VALVE	83
36	M-36	SINGLE VALVE MANIFOLD	85
37	M-37	SINGLE VALVE MANIFOLD	87





With threaded horizontal port inlet and outlet and vent/test connection on the right hand side. The venting bonnet is positioned angular on the top and the isolating bonnet on the front.



Standard connection

Product Process side		Instrument side	Vent/Test
M 01	1/2" NPT female	1/2" NPT female	1/4" NPT female





Standard version specifications

Body : SS 316
Stem : SS 316
Valve assembly : SS 316
'T' bar handle : SS 304
Maximum working pressure : 6000 PSI / bar

Maximum working temperature : 240°C Packing : PTFE

Type of stem : Type CT; Stem with conical metal tip

Drain port : 1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes : 2 Nos. (Not available in Series 2VT, 2VTF)

Hard Chrome plating : Provided on stem tip and female threads of valve.

How To Order: Valve Type-M-01

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT	P = PTFE	24 = 1/4" x 1/4"	MF = Male x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	33 = 3/8" x 3/8"	FF = Female x Female	P = BSPP
S4 = SS 304			44 = 1/2" x 1/2"	SW = Socket weld	(BS 2779, ISO 228/1)
SL = SS 316L			66 = 3/4" x 1/2"	FM = Female x Male	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400			2F = 1/4"x Flange		
M5 = Monel 500			3F = 3/8"x Flange		
H = Hastellogy C			4F = 1/2"x Flange		

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

DS: Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB: Mounting Bracket

Example

To place an order simply refer to the codes in the table.



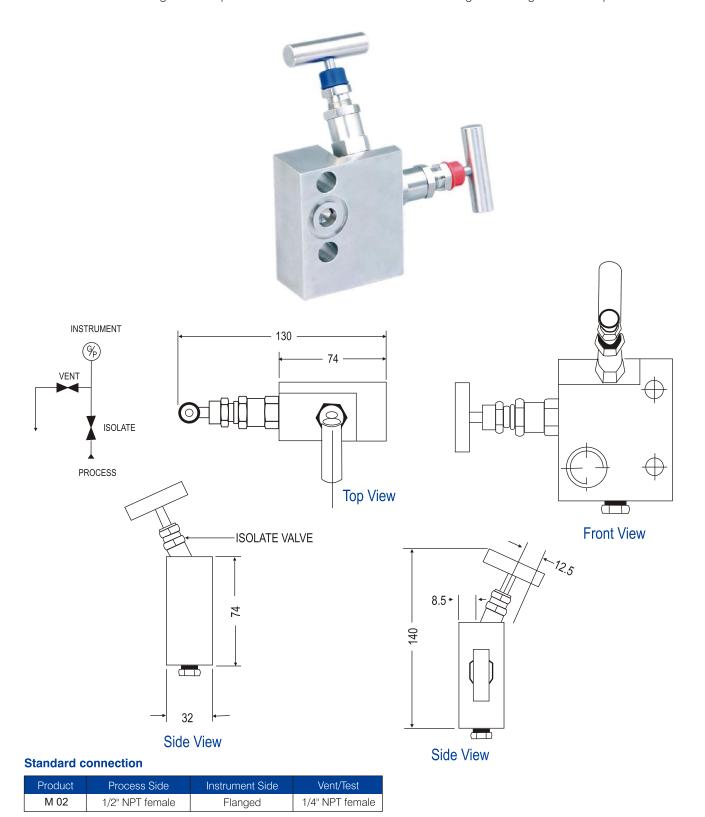
NOTE:

- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With threaded horizontal port inlet with a Flange outlet instrument connection. A vent/test port on base. The venting bonnet is positioned on the left hand side and the isolating bonnet angular on the top.







Standard version specifications

Body : SS 316
Stem : SS 316
Valve assembly : SS 316
'T' bar handle : SS 304

Maximum working pressure : 6000 PSI / 400 bar

Maximum working temperature : 240°C Packing : PTFE

Type of stem : Type CT; Stem with conical metal tip
Drain port : 1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes : 2 Nos.

Hard Chrome plating : Provided on stem tip.

How To Order: Valve Type-M-02

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT	P = PTFE	24 = 1/4" x 1/4"	MF = Male x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	33 = 3/8" x 3/8"	FF = Female x Female	P = BSPP
S4 = SS 304			44 = 1/2" x 1/2"	SW = Socket weld	(BS 2779, ISO 228/1)
SL = SS 316L			66 = 3/4" x 1/2"	FM = Female x Male	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400			2F = 1/4"x Flange		
M5 = Monel 500			3F = 3/8"x Flange		
H = Hastellogy C			4F = 1/2"x Flange		

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS : Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

PRF : PTFE Ring For Flange Seal
GRF : Grafoil Ring For Flange Seal

Example

To place an order simply refer to the codes in the table.



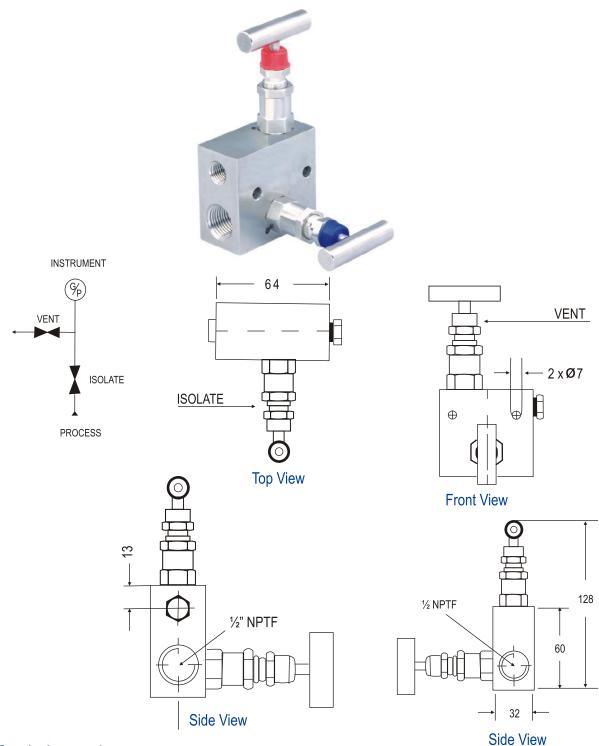
NOTE:

- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





M-03 With threaded horizontal port inlet, outlet and vent/test connection on the left hand side. The venting bonnet is positioned on the top and the isolating bonnet on the front.



Standard connection

Product	Process side	Instrument side	Vent/Test
M 03	1/2" NPT female	1/2" NPT female	1/4" NPT female





Standard version specifications

Body : SS 316
Stem : SS 316
Valve assembly : SS 316
'T' bar handle : SS 304
Maximum working pressure : 6000 PSI / bar

Maximum working temperature : 240°C Packing : PTFE

Type of stem : Type CT; Stem with conical metal tip

Drain port : 1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes : 2 Nos. (Not available in Series 2VT, 2VTF)

Hard Chrome plating : Provided on stem tip and female threads of valve.

How To Order: Valve Type-M-03

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT	P = PTFE	24 = 1/4" x 1/4"	MF = Male x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	33 = 3/8" x 3/8"	FF = Female x Female	P = BSPP
S4 = SS 304			44 = 1/2" x 1/2"	SW = Socket weld	(BS 2779, ISO 228/1)
SL = SS 316L			66 = 3/4" x 1/2"	FM = Female x Male	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400			2F = 1/4"x Flange		
M5 = Monel 500			3F = 3/8"x Flange		
H = Hastellogy C			4F = 1/2"x Flange		

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

DS: Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB: Mounting Bracket

Example

To place an order simply refer to the codes in the table.



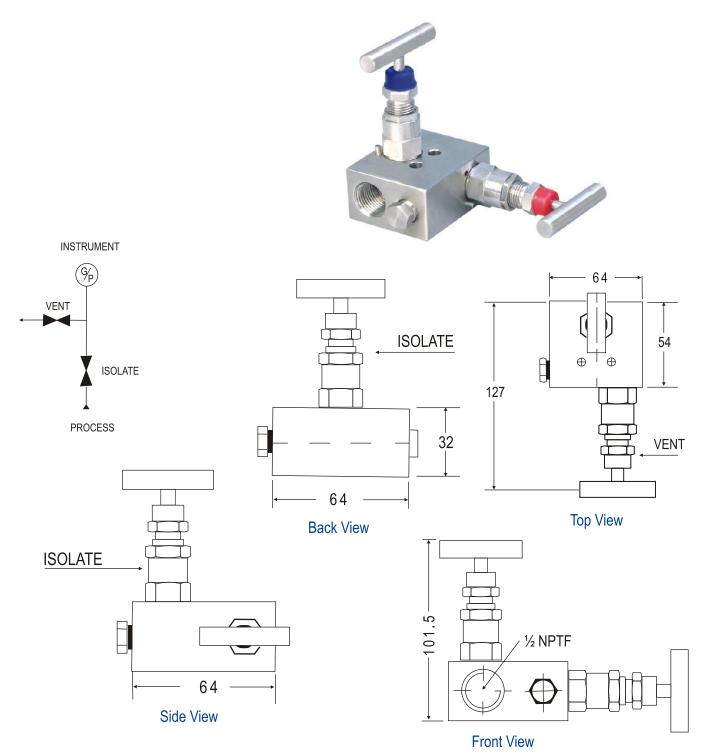
NOTE:

- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With threaded horizontal port inlet, outlet and vent/test connection on the left hand side. The venting bonnet is positioned on the top and the isolating bonnet on the front.



Standard connection

Product	Process side	Instrument side	Vent/Test
M 04	1/2" NPT female	1/2" NPT female	1/4" NPT female





Standard version specifications

Body : SS 316
Stem : SS 316
Valve assembly : SS 316
'T' bar handle : SS 304
Maximum working pressure : 6000 PSI / bar

Maximum working temperature : 240°C Packing : PTFE

Type of stem : Type CT; Stem with conical metal tip

Drain port : 1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes : 2 Nos. (Not available in Series 2VT, 2VTF)

Hard Chrome plating : Provided on stem tip and female threads of valve.

How To Order: Valve Type-M-04

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT	P = PTFE	24 = 1/4" x 1/4"	MF = Male x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	33 = 3/8" x 3/8"	FF = Female x Female	P = BSPP
S4 = SS 304			44 = 1/2" x 1/2"	SW = Socket weld	(BS 2779, ISO 228/1)
SL = SS 316L			66 = 3/4" x 1/2"	FM = Female x Male	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400			2F = 1/4"x Flange		
M5 = Monel 500			3F = 3/8"x Flange		
H = Hastellogy C			4F = 1/2"x Flange		

Options -

IE : Handle circular.

TF: Compliance to NACE standard MR-0175.

SG: For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

DS: Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB: Mounting Bracket

Example

To place an order simply refer to the codes in the table.



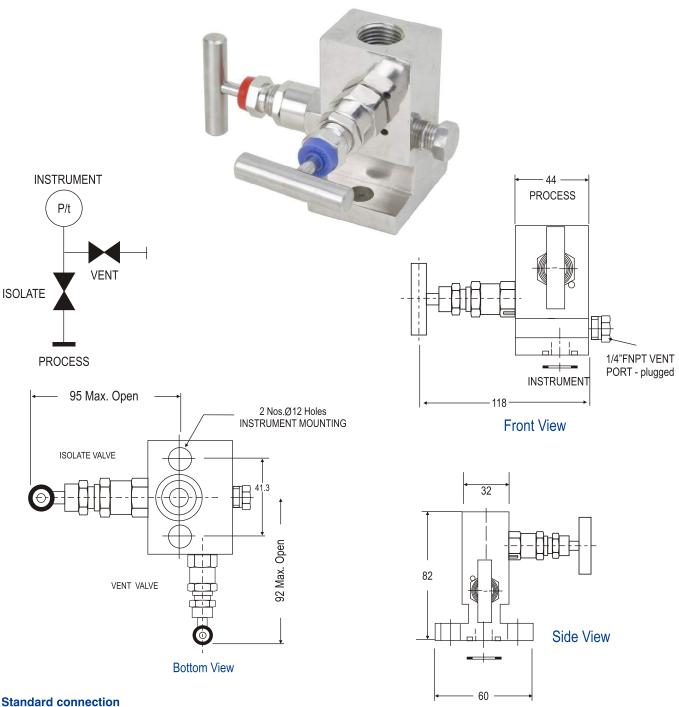
NOTE:

• The weld prepared types are available with female plain end - suitable for socket weld. Anti-tamper bonnet - special design on request with locking arrangement if desired.





With threaded horizontal port inlet on the front side and Flange outlet on the back side, test connection on M-05 the body. The isolating bonnet are positioned on the left and right hand side and the Equalizing Bonnet is positioned on the top.



Product	Process side	Instrument side	Vent/Test
M 05	1/2" NPT female	Flange	1/4" NPT female





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip
Drain port 1/4" NPT [F]; provided with SS 316 plug

Hard Chrome plating Provided on stem tip

How To Order: Valve Type-M-05

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT	P = PTFE	2F = 1/4"x Flange	FD = Female x Flange	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	3F = 3/8"x Flange		P = BSPP
S4 = SS 304			4F = 1/2"x Flange (std)		(BS 2779, ISO 228/1)
SL = SS 316L					B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					
M5 = Monel 500					
H = Hastellogy C					

Options -

IE: Handle circular.

TF : Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB: Mounting Bracket

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

PRF : PTFE Ring For Flange Seal GRF : Grafoil Ring For Flange Seal

Example

To place an order simply refer to the codes in the table.



NOTE:

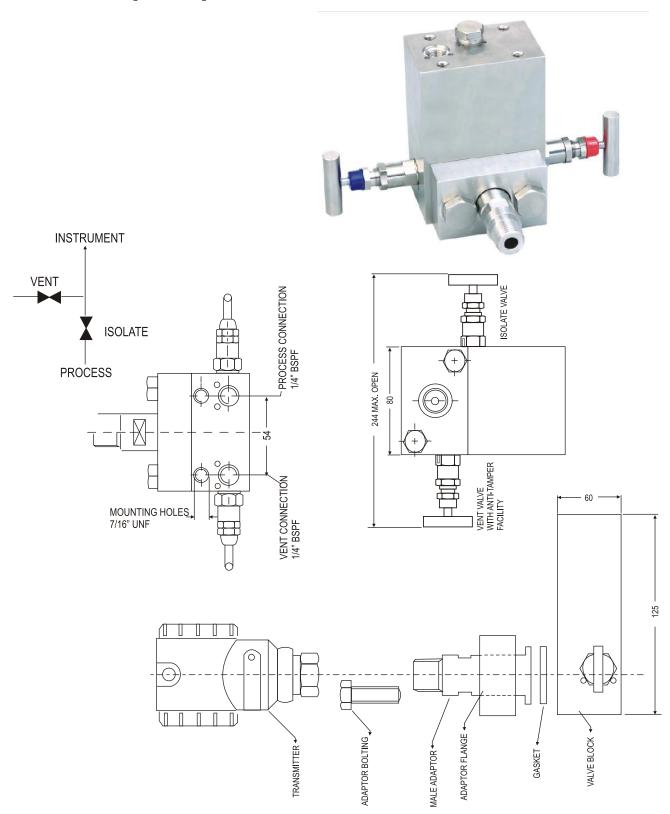
• The weld prepared types are available with female plain end - suitable for socket weld. Anti-tamper bonnet - special design on request with locking arrangement if desired.





M-06

Special two valve manifold designed to accommodate threaded direct transmitters and pressure instruments with inlet at front and outlet on top, vent/test connection at front; venting bonnet at left side and isolating bonnet at right.







Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip
Drain port 1/4" NPT [F]; provided with SS 316 plug

Hard Chrome plating Provided on stem tip

How To Order: Valve Type-M-06

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT	P = PTFE	2F = 1/4"x Flange	FD = Female x Flange	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	3F = 3/8"x Flange		P = BSPP
S4 = SS 304			4F = 1/2"x Flange (std)		(BS 2779, ISO 228/1)
SL = SS 316L					B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					
M5 = Monel 500					
H = Hastellogy C					

Options -

IE: Handle circular.

TF : Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB: Mounting Bracket

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

PRF : PTFE Ring For Flange Seal GRF : Grafoil Ring For Flange Seal

Example

To place an order simply refer to the codes in the table.



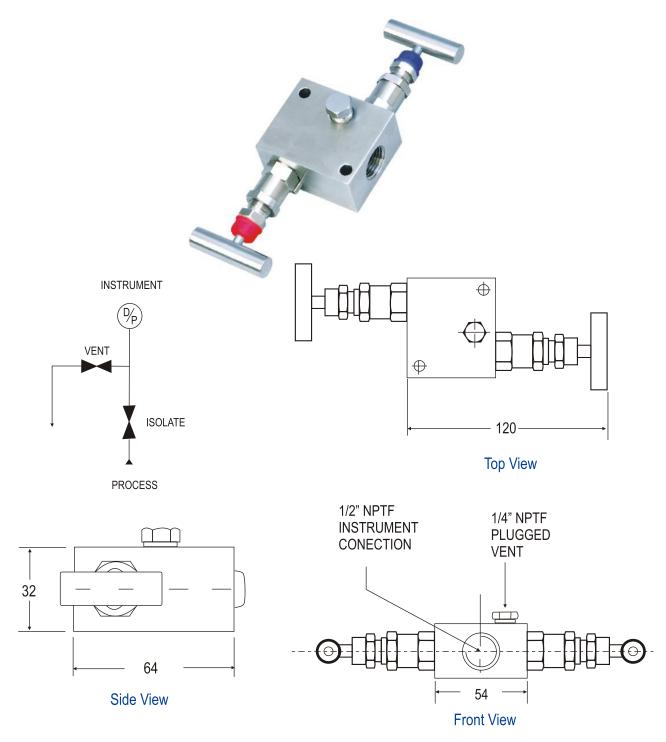
NOTE:

• The weld prepared types are available with female plain end - suitable for socket weld. Anti-tamper bonnet - special design on request with locking arrangement if desired.





With threaded vertical port inlet and outlet. The vent/test connection is positioned on the front side. The drain bonnet is positioned on the right hand side and the isolating bonnet on the left hand side.



Standard connection

Product	Process side	Instrument side	Vent/Test
M 07	1/2" NPT female	1/2" NPT female	1/4" NPT female

Remote or direct mounting by means of threaded connections.





Standard version specifications

Body : SS 316
Stem : SS 316
Valve assembly : SS 316
'T' bar handle : SS 304
Maximum working pressure : 6000 PSI / bar

Maximum working temperature : 240°C Packing : PTFE

Type of stem : Type CT; Stem with conical metal tip

Drain port : 1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes : 2 Nos. (Not available in Series 2VT, 2VTF)

Hard Chrome plating : Provided on stem tip and female threads of valve.

How To Order: Valve Type-M-07

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT	P = PTFE	24 = 1/4" x 1/4"	MF = Male x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	33 = 3/8" x 3/8"	FF = Female x Female	P = BSPP
S4 = SS 304			44 = 1/2" x 1/2"	SW = Socket weld	(BS 2779, ISO 228/1)
SL = SS 316L			66 = 3/4" x 1/2"	FM = Female x Male	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400			2F = 1/4"x Flange		
M5 = Monel 500			3F = 3/8"x Flange		
H = Hastellogy C			4F = 1/2"x Flange		

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG: For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

DS: Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB: Mounting Bracket

Example

To place an order simply refer to the codes in the table.



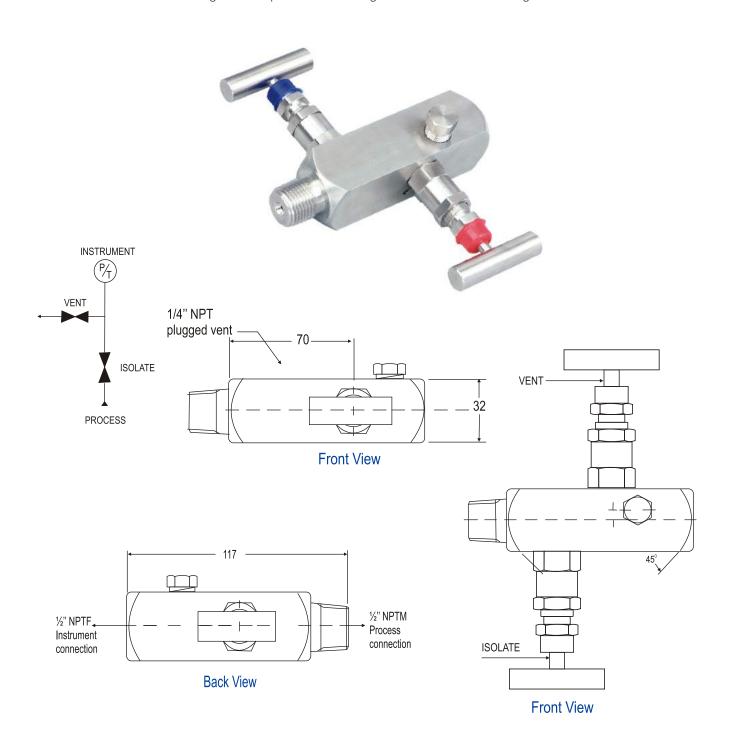
NOTE:

- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With threaded vertical port inlet and female outlet. The vent/test connection is positioned on the front side. The venting bonnet is positioned on the right hand side and the isolating bonnet on left hand side.



Standard connection

Product	Process side	Instrument side	Vent/Test
M 08	1/2" NPT male	1/2" NPT female	1/4" NPT female





Standard version specifications

Body : SS 316
Stem : SS 316
Valve assembly : SS 316
'T' bar handle : SS 304
Maximum working pressure : 6000 PSI / bar

Maximum working temperature : 240°C Packing : PTFE

Type of stem : Type CT; Stem with conical metal tip

Drain port : 1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes : 2 Nos. (Not available in Series 2VT, 2VTF)

Hard Chrome plating : Provided on stem tip and female threads of valve.

How To Order: Valve Type-M-08

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	СТ	P = PTFE	24 = 1/4" x 1/4"	MF = Male x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	33 = 3/8" x 3/8"	FF = Female x Female	P = BSPP
S4 = SS 304			44 = 1/2" x 1/2"	SW = Socket weld	(BS 2779, ISO 228/1)
SL = SS 316L			66 = 3/4" x 1/2"	FM = Female x Male	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400			2F = 1/4"x Flange	MM = Male x Male	
M5 = Monel 500			3F = 3/8"x Flange		
H = Hastellogy C			4F = 1/2"x Flange		

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG: For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

DS: Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB: Mounting Bracket

Example

To place an order simply refer to the codes in the table.



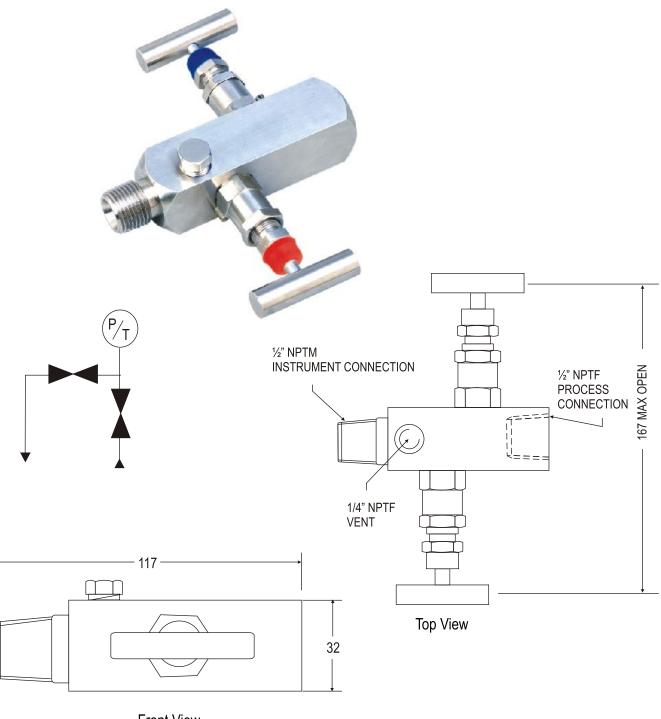
NOTE:

- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





M-09 With the vent is positioned near the male instrument connection side.



Front View

Standard connection

Product	Process side	Instrument side	Vent/Test
M 09	½"NPT Female	½"NPT Male	1/4" NPT Female





Standard version specifications

Body : SS 316
Stem : SS 316
Valve assembly : SS 316
'T' bar handle : SS 304
Maximum working pressure : 6000 PSI / bar

Maximum working temperature : 240°C Packing : PTFE

Type of stem : Type CT; Stem with conical metal tip

Drain port : 1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes : 2 Nos. (Not available in Series 2VT, 2VTF)

Hard Chrome plating : Provided on stem tip and female threads of valve.

How To Order: Valve Type-M-09

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	СТ	P = PTFE	24 = 1/4" x 1/4"	MF = Male x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	33 = 3/8" x 3/8"	FF = Female x Female	P = BSPP
S4 = SS 304			44 = 1/2" x 1/2"	SW = Socket weld	(BS 2779, ISO 228/1)
SL = SS 316L			66 = 3/4" x 1/2"	FM = Female x Male	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400			2F = 1/4"x Flange		
M5 = Monel 500			3F = 3/8"x Flange		
H = Hastellogy C			4F = 1/2"x Flange		

Options -

IE Handle circular.

TF Compliance to NACE standard MR-0175.

SG For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH Material test certificate
GO Hydro test certificate

MBC Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

DS Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB Mounting Bracket

Example

To place an order simply refer to the codes in the table.



NOTE:

- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.

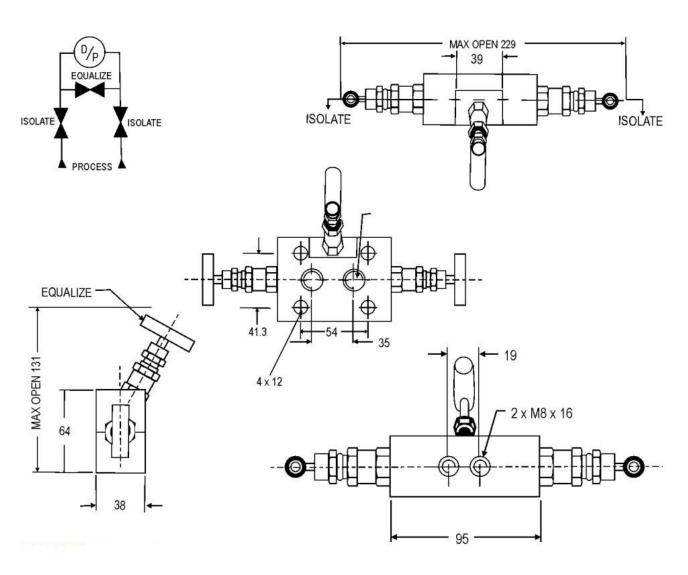




M-10

With two threaded horizontal port inlets on the front side and two Flange outlets on the back side. The two isolating bonnets are positioned on the left and right hand side, the equalizing bonnet is of angular design positioned on the top for easy operation.





M 10	1/2" NPT female	Flange





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip

Drain port 1/4" NPT [F]; provided with SS 316 plug [not available in Series 3VA]

Hard Chrome plating Provided on stem tip.

How To Order: Valve Type-M-10

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	4F = 1/2" x Flange	FD = Female x Flange(54mm)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	2F = 1/4" x Flange	FR = Female X Female	P = BSPP
S4 = SS 304		G Graion	Zi i/ i/ X hango	Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				SW = Socket Weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					
M5 = Monel 500					
H = Hastelloy C					

Options -

IE Handle circular.

TF Compliance to NACE standard MR-0175.

SG For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH Material test certificate
GO Hydro test certificate

DS Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB Mounting Bracket

MBC Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

PRF PTFE Ring For Flange Seal
GRF Grafoil Ring For Flange Seal

Example

To place an order simply refer to the codes in the table.



- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.

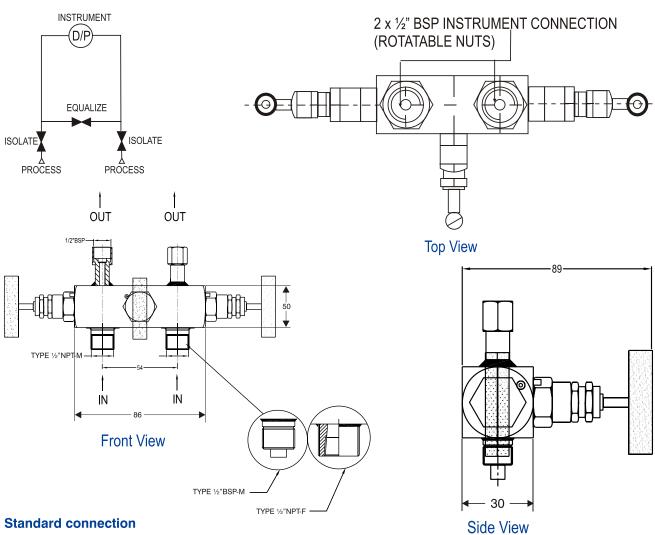




Three valve manifold or differential pressure gauges. Two horizontal inlets NPT male at bottom side.

Two outlets with rotating for nuts 1/2"BSP F on top side. Equalizing bonnet at front, isolating bonnets at left and right hand side.





Product	Process side	Instrument side
M 11	½"NPT male	1/2"BSP Rotatable nuts





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar [not available in Series 3VMN]

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip

Drain port 1/4" NPT [F]; provided with SS 316 plug [1/8" NPT (F)

available in Series 3VMN]

Hard Chrome plating Provided on stem tip

Bracket mounting holes 2 Nos. (Not available in Series 3VM)

How To Order: Valve Type-M-11

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	24 = 1/4" x 1/4"	FF = Female x Female (Std)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	44 = 1/2" x 1/2" (std)	SW = Socket Weld	P = BSPP
S4 = SS 304				MR = Male x Female Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				IVIN = IVIAIE X FEITIAIE HOLALIITY	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400				FR = Female x Female	,
M5 = Monel 500				Rotating	
H = Hastelloy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

Example

To place an order simply refer to the codes in the table.



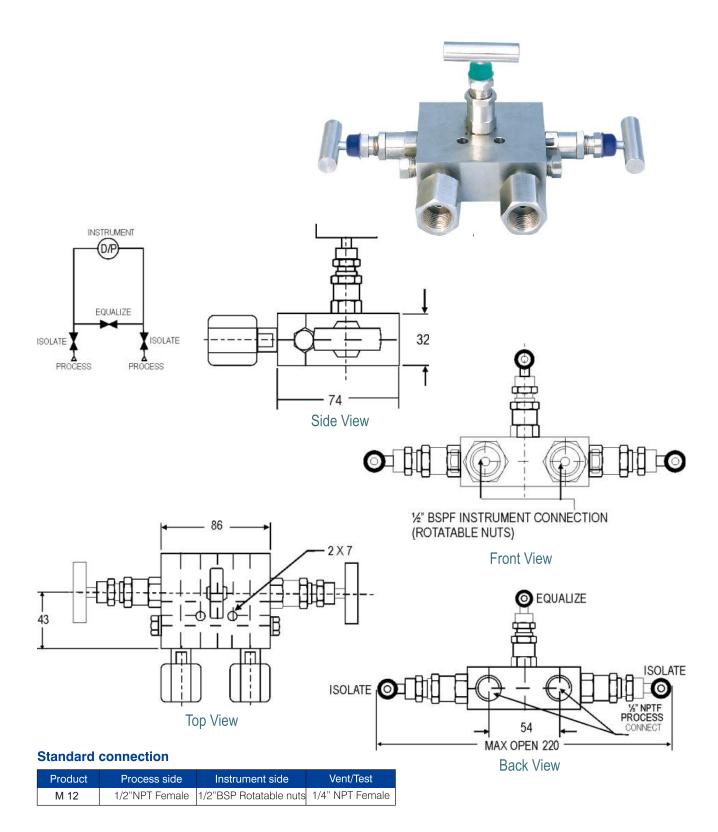
- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





Three valve manifold or differential pressure gauges. Two horizontal inlets NPT female at bottom side.

Two outlets with rotating for nuts on top side and vent/test connection ontop. Equalizing bonnet at front, isolating bonnets at left and right hand side.







Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar [not available in Series 3VMN]

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip

Drain port 1/4" NPT [F]; provided with SS 316 plug [1/8" NPT (F)

available in Series 3VMN]

Hard Chrome plating Provided on stem tip

Bracket mounting holes 2 Nos. (Not available in Series 3VM)

How To Order: Valve Type-M-12

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	24 = 1/4" x 1/4"	FF = Female x Female (Std)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	44 = 1/2" x 1/2" (std)	SW = Socket Weld	P = BSPP
S4 = SS 304				MR = Male x Female Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				IVIN = IVIAIE X FEITIAIE HOLALIITY	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400				FR = Female x Female	,
M5 = Monel 500				Rotating	
H = Hastelloy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

Example

To place an order simply refer to the codes in the table.

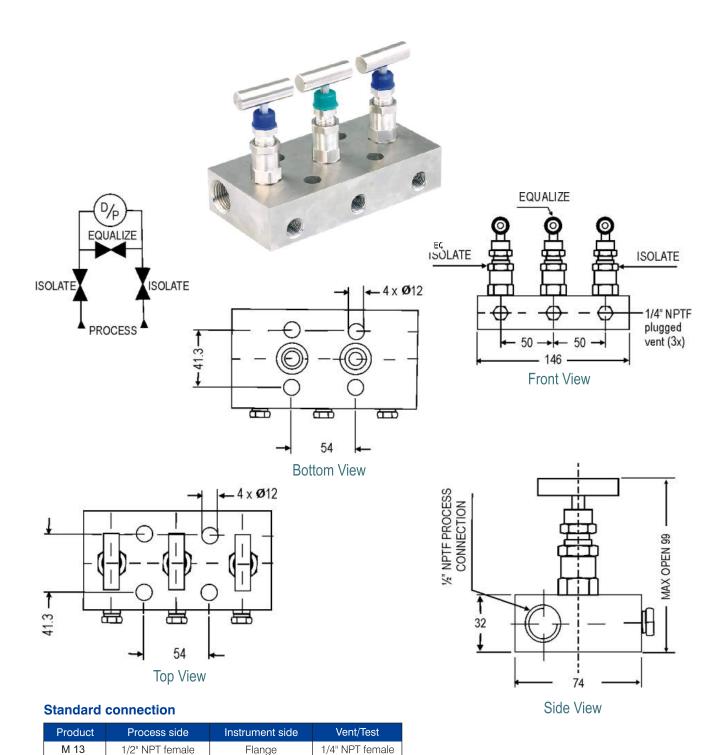


- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With two threaded horizontal port inlets positioned on the left and right hand side and two Flange outlets on the back side. The two isolating bonnets and the equalizing bonnet are positioned on the front. Standard with three downstream test connections.







Standard version specifications

BodySS 316StemSS 316Valve assemblySS 316'T' bar handleSS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip

Drain port 1/4" NPT [F]; provided with SS 316 plug [not available in Series 3VA]

Hard Chrome plating Provided on stem tip.

How To Order: Valve Type-M-13

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	4F = 1/2" x Flange	FD = Female x Flange(54mm)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	2F = 1/4" x Flange	FR = Female X Female	P = BSPP
S4 = SS 304		G Graion	Li i, i x i ango	Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				SW = Socket Weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					, , ,
M5 = Monel 500					
H = Hastelloy C					

Options -

IE: Handle circular.

TF : Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

PRF : PTFE Ring For Flange Seal GRF : Grafoil Ring For Flange Seal

Example

To place an order simply refer to the codes in the table.

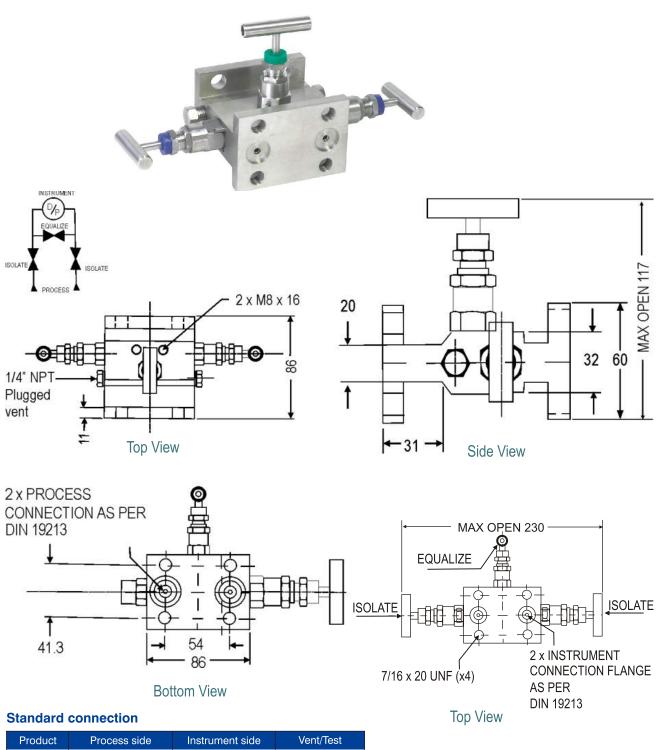


- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With Flange horizontal port inlets on the front side and Flange outlets on the back side. Two test M-14connections positioned on the left and right hand side of the body. The isolating bonnets are positioned on the left and right hand side and the equalizing bonnet is positioned on the top.



Product	Process side	Instrument side	Vent/Test
M 14	Flange	Flange	1/4" NPT female





Standard version specifications

 Body
 : SS 316

 Stem
 : SS 316

 Valve assembly
 : SS 316

 'T' bar handle
 : SS 304

Maximum working pressure : 6000 PSI / 400 bar

Maximum working temperature : 240°C Packing : PTFE

Type of stem : Type CT; Stem with conical metal tip

Drain port : 1/4" NPT [F]; provided with SS 316 plug

Hard Chrome plating : Provided on stem tip.
Bracket mounting holes : 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-14

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	4F= 1/2" x Flange	FD = Female x Flange (54mm)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	2F = 1/4" x Flange	SW = Socket Weld	P = BSPP
S4 = SS 304				DD = Flange x Flange (54mm)	(BS 2779, ISO 228/1)
SL = SS 316L				5 5 V /	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					
M5 = Monel 500					
H = Hastelloy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS : Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)D4: 1/4" NPT (M) Drain Plug

PRF : PTFE Ring For Flange Seal
GRF : Grafoil Ring For Flange Seal
BLD4 : Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.

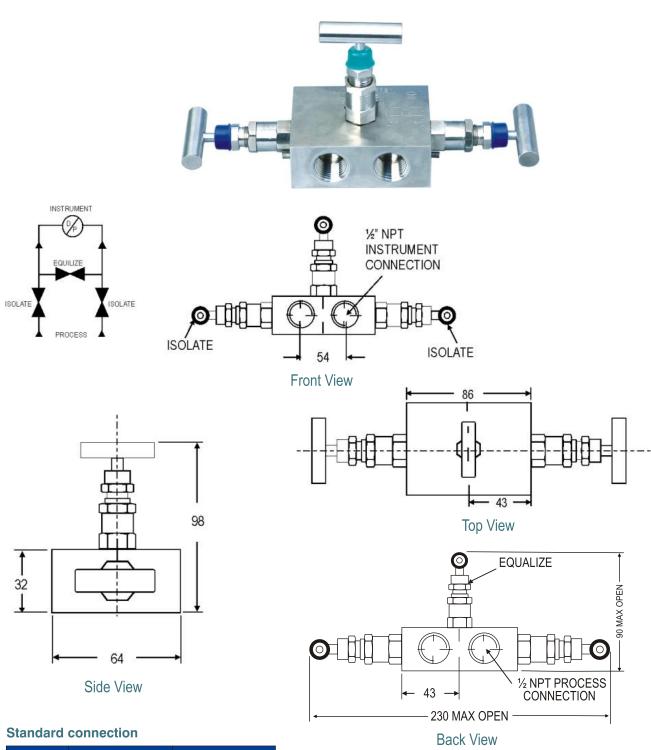


- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With threaded vertical port inlets and outlets. The isolating bonnets are positioned on the left and right hand side and the equalizing bonnet is positioned on the front. This manifold is specially designed as miniature valve to be remote mounted.



Product	Process side	Instrument side
M 15	1/2" NPT female	1/2" NPT female





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar [not available in Series 3VMN]

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip

Drain port 1/4" NPT [F]; provided with SS 316 plug [1/8" NPT (F)

available in Series 3VMN]

Hard Chrome plating Provided on stem tip

Bracket mounting holes 2 Nos. (Not available in Series 3VM)

How To Order: Valve Type-M-15

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	24 = 1/4" x 1/4"	FF = Female x Female (Std)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	44 = 1/2" x 1/2" (std)	SW = Socket Weld	P = BSPP
S4 = SS 304				MR = Male x Female Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				IVIN = IVIAIE X FEITIAIE HOLALIITY	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400				FR = Female x Female	,
M5 = Monel 500				Rotating	
H = Hastelloy C					

Options -

IE Handle circular.

TF Compliance to NACE standard MR-0175.

SG For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH Material test certificate
GO Hydro test certificate

DS Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB Mounting Bracket

MBC Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

Example

To place an order simply refer to the codes in the table.



- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.



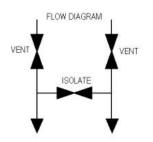


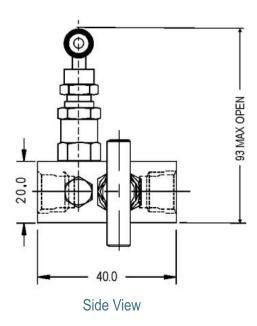
M-16

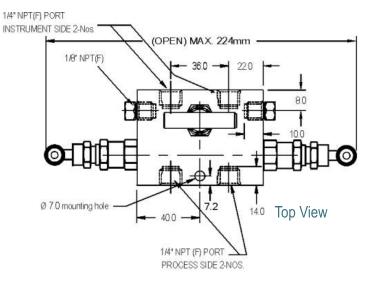
Three valve **Miniature** manifold with compact design having threaded port for inlet and out let and finds application for isolating and venting the process media. This is used where space is a constraint. The isolating bonnets positioned on top and venting bonnets are positioned on right and left hand side.

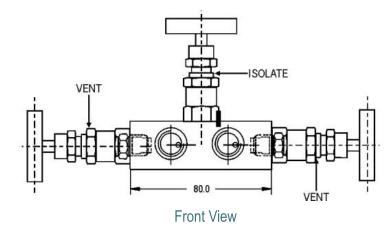
Connection : 1/4" (F) For Instrument and process along with 1/8" (F) Drain Maximum Working Pressure 3000 PSI











Product	Process side	Instrument side	Vent/Test
M 16	1/4"NPT Female	1/4"NPT Female	1/8" NPT Female





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar [not available in Series 3VMN]

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip

Drain port 1/4" NPT [F]; provided with SS 316 plug [1/8" NPT (F)

available in Series 3VMN]

Hard Chrome plating Provided on stem tip

Bracket mounting holes 2 Nos. (Not available in Series 3VM)

How To Order: Valve Type-M-16

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	24 = 1/4" x 1/4"	FF = Female x Female (Std)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	44 = 1/2" x 1/2" (std)	SW = Socket Weld	P = BSPP
S4 = SS 304				MR = Male x Female Rotating	(BS 2779, ISO 228/1)
SL = SS 316L					B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400				FR = Female x Female	
M5 = Monel 500				Rotating	
H = Hastelloy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

Example

To place an order simply refer to the codes in the table.

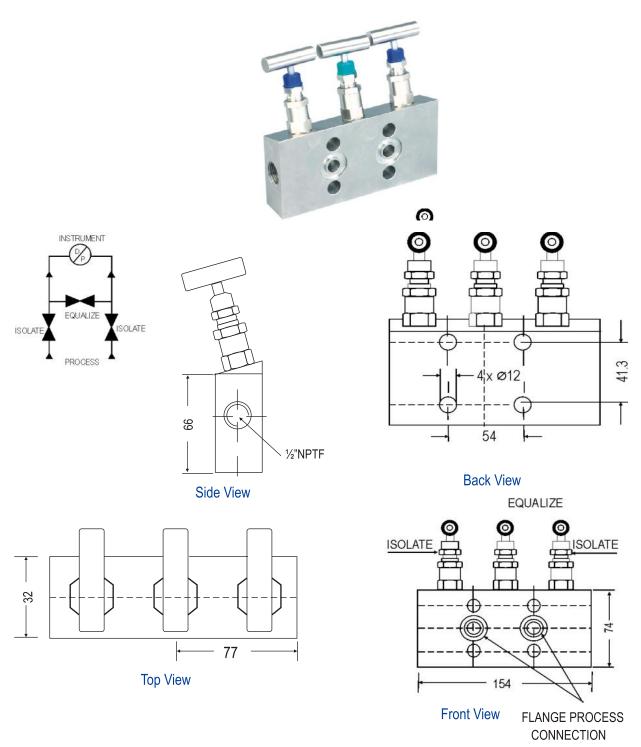


- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With threaded horizontal port inlets on the left and right hand side and Flange outlets on the back side. The isolating bonnets and the equalizing bonnets are positioned angular on the top of the body.



Product	Process side	Instrument side
M 17	1/2" NPT female	Flange





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip

Drain port 1/4" NPT [F]; provided with SS 316 plug [not available in Series 3VA]

Hard Chrome plating Provided on stem tip.

How To Order: Valve Type-M-17

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	4F = 1/2" x Flange	FD = Female x Flange(54mm)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	2F = 1/4" x Flange	FR = Female X Female	P = BSPP
S4 = SS 304		G Graion	Li i, i x i ango	Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				SW = Socket Weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					(,, .,
M5 = Monel 500					
H = Hastelloy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

PRF : PTFE Ring For Flange Seal GRF : Grafoil Ring For Flange Seal

Example

To place an order simply refer to the codes in the table.



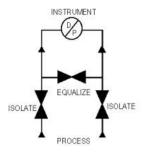
- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.

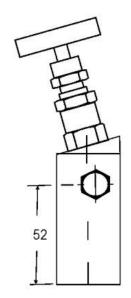


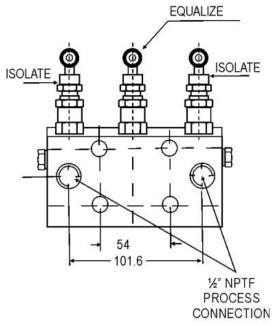


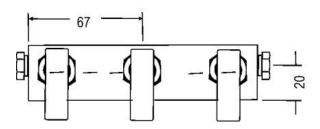
With threaded horizontal port inlets positioned on the front and Flange outlets on the back side. The test connections are positioned on the left and right hand side. The isolating bonnets and the equalizing bonnet are positioned angular on the top of the body.







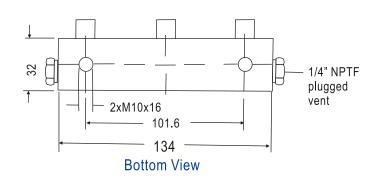




Front View

Top View

Product	Process side	Instrument side	Vent/Test
M 18	1/2" NPT female	Flange	1/4" NPT female







Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip

Drain port 1/4" NPT [F]; provided with SS 316 plug [not available in Series 3VA]

Hard Chrome plating Provided on stem tip.

How To Order: Valve Type-M-18

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	4F = 1/2" x Flange	FD = Female x Flange(54mm)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	2F = 1/4" x Flange	FR = Female X Female	P = BSPP
S4 = SS 304		G GIGION	Zi i, i x i ango	Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				SW = Socket Weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					(, , . ,
M5 = Monel 500					
H = Hastelloy C					

Options -

IE: Handle circular.

TF : Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

PRF : PTFE Ring For Flange Seal GRF : Grafoil Ring For Flange Seal

Example

To place an order simply refer to the codes in the table.

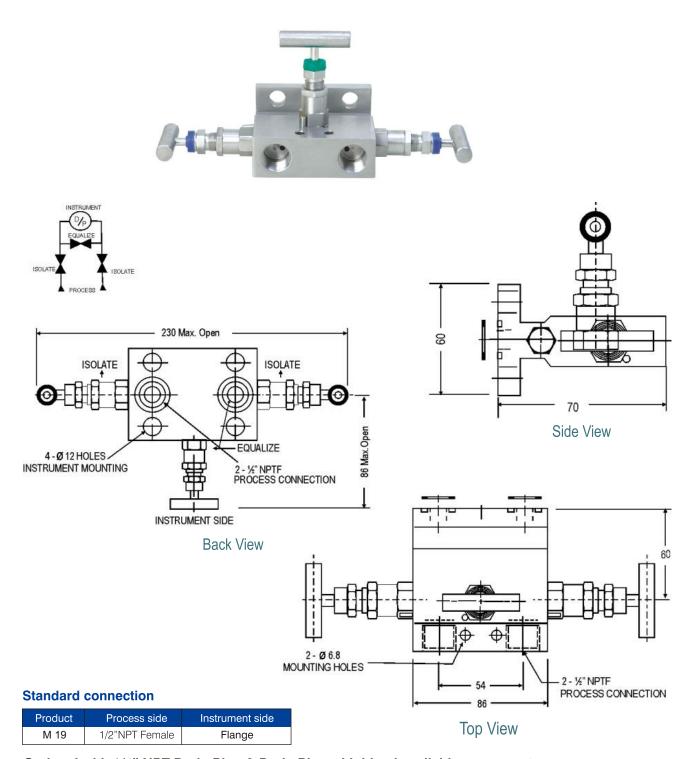


- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With threaded horizontal port inlet on the front side and Flange outlet on the back side without test/ vent connection. The isolating bonnets are positioned on the left and right hand side and Equalizing bonnet is positioned on the top.



Optional with 1/4" NPT Drain Plug & Drain Plug with bleed available on request





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem

Type CT; Stem with conical metal tip

Drain port

Type CT; Stem with conical metal tip

1/4" NPT [F]; provided with SS 316 plug

Hard Chrome plating Provided on stem tip.

Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-19

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	4F= 1/2" x Flange	FD = Female x Flange (54mm)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	2F = 1/4" x Flange	SW = Socket Weld	P = BSPP
S4 = SS 304				DD = Flange x Flange (54mm)	(BS 2779, ISO 228/1)
SL = SS 316L				· · · · · · · · · · · · · · · · · ·	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					
M5 = Monel 500					
H = Hastelloy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)D4: 1/4" NPT (M) Drain Plug

PRF : PTFE Ring For Flange Seal
GRF : Grafoil Ring For Flange Seal
BLD4 : Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.

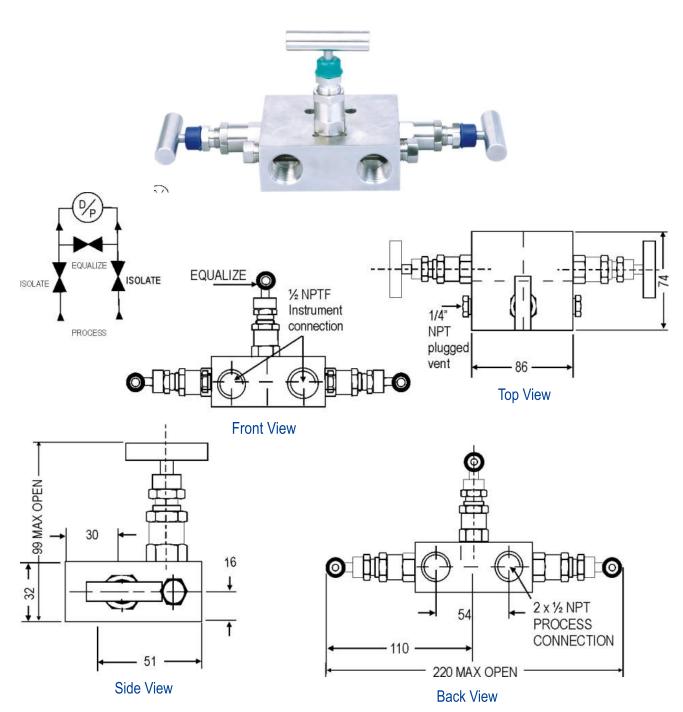


- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With two threaded vertical port inlets and outlets, both test connections are positioned on the left and right hand side. The two isolating bonnets are positioned on the left and right hand side and the equalizing bonnet is positioned on the front.



Product	Process side	Instrument side	Vent/Test
M 20	1/2" NPT female	1/2" NPT female	1/4" NPT female





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar [not available in Series 3VMN]

Maximum working temperature 240°C Packing PTFE

Type of stem

Type CT; Stem with conical metal tip

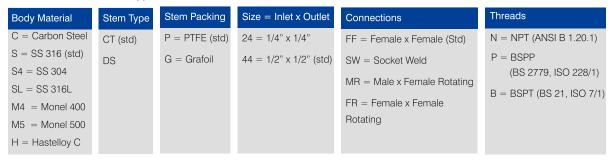
Drain port 1/4" NPT [F]; provided with SS 316 plug [1/8" NPT (F)

available in Series 3VMN]

Hard Chrome plating Provided on stem tip

Bracket mounting holes 2 Nos. (Not available in Series 3VM)

How To Order: Valve Type-M-20



Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

Example

To place an order simply refer to the codes in the table.

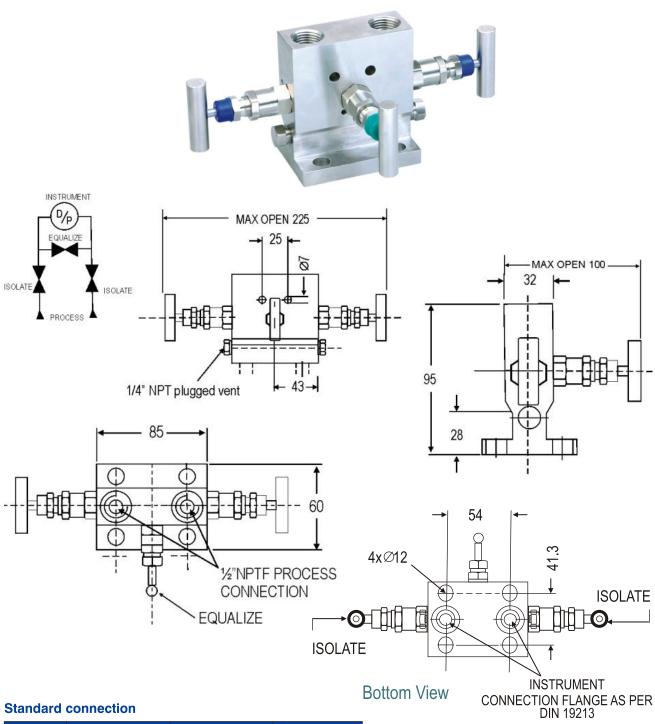


- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With threaded horizontal port inlets on the front side and Flange outlets on the back side. Two test connections positioned on the left and right hand side of the body. The isolating bonnets are positioned on the left and right hand side and the equalizing bonnet is positioned on the top.



Product Process side		Process side	Instrument side	Vent/Test
	M 21	1/2" NPT female	Flange	1/4" NPT female





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem

Type CT; Stem with conical metal tip

Drain port

Type CT; Stem with conical metal tip

1/4" NPT [F]; provided with SS 316 plug

Hard Chrome plating Provided on stem tip.

Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-21

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	4F= 1/2" x Flange	FD = Female x Flange (54mm)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	2F = 1/4" x Flange	SW = Socket Weld	P = BSPP
S4 = SS 304				DD = Flange x Flange (54mm)	(BS 2779, ISO 228/1)
SL = SS 316L					B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					
M5 = Monel 500					
H = Hastelloy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)D4: 1/4" NPT (M) Drain Plug

PRF : PTFE Ring For Flange Seal
GRF : Grafoil Ring For Flange Seal
BLD4 : Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.



- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.

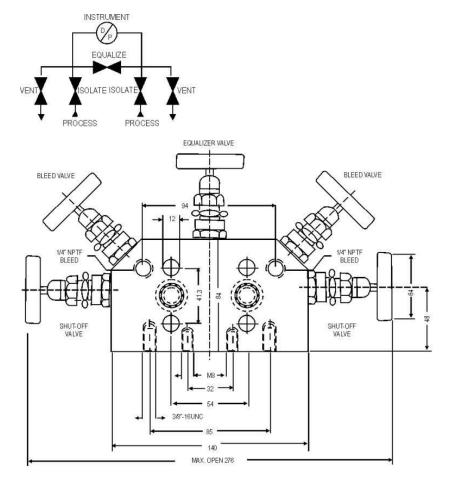


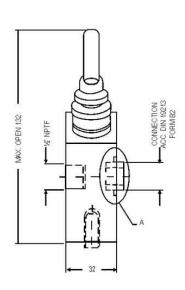


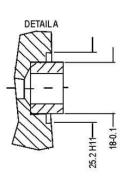
M-22

Special Five Valve Manifold designed to suit FR 3051 transmitters - inlet NPT female at front - outlet Flange to DIN 19213 at back side - vent/test connection at back, eualizing bonnet on top; isolating bonnets at left and right hand side; venting bonnets angular at left and right side.













Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem

Type CT; Stem with conical metal tip

Drain port

1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes 2 Nos.

Hard Chrome plating Provided on stem tip.

Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-22

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	СТ	P = PTFE	44= 1/2" x 1/2" (std)	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	24= 1/4" x 1/4"	FR = Female x Female	P = BSPP
S4 = SS 304		a – araion	27 1/7 X 1/7	Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				SW = Socket weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					(,, .,
M5 = Monel 500					
H = Hastellogy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

BLD4: Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.

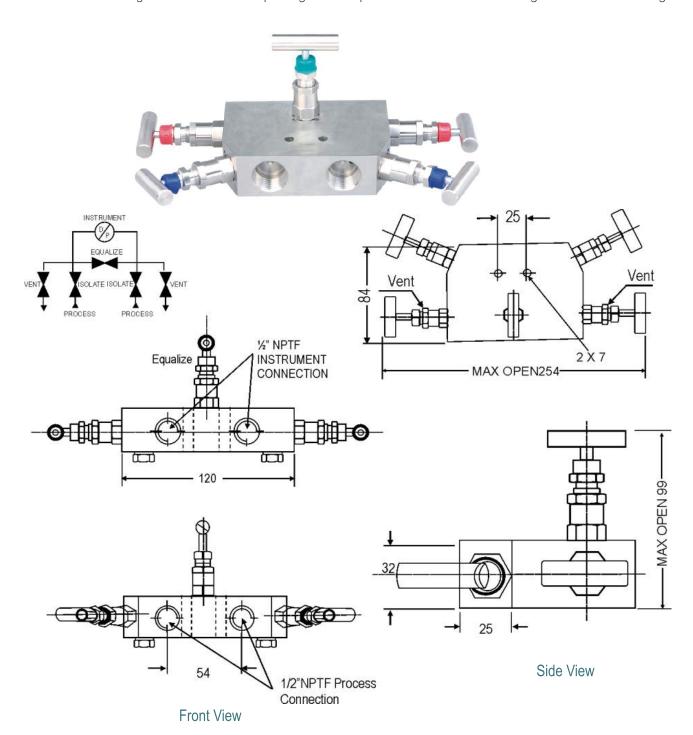


- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With threaded vertical port inlets and outlets. The isolating and venting bonnets are positioned on the left and right hand side and the equalizing bonnet is positioned on the front side. Designed for remote mounting.



Product	Process side	Instrument side	Vent/Test
M 23	1/2" NPT female	1/2" NPT female	1/4" NPT female





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem

Type CT; Stem with conical metal tip

Drain port

1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes 2 Nos.

Hard Chrome plating Provided on stem tip.

Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-23

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	СТ	P = PTFE	44= 1/2" x 1/2" (std)	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	24= 1/4" x 1/4"	FR = Female x Female	P = BSPP
S4 = SS 304		a – araion	27 1/7 X 1/7	Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				SW = Socket weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					(,, .,
M5 = Monel 500					
H = Hastellogy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

BLD4: Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.

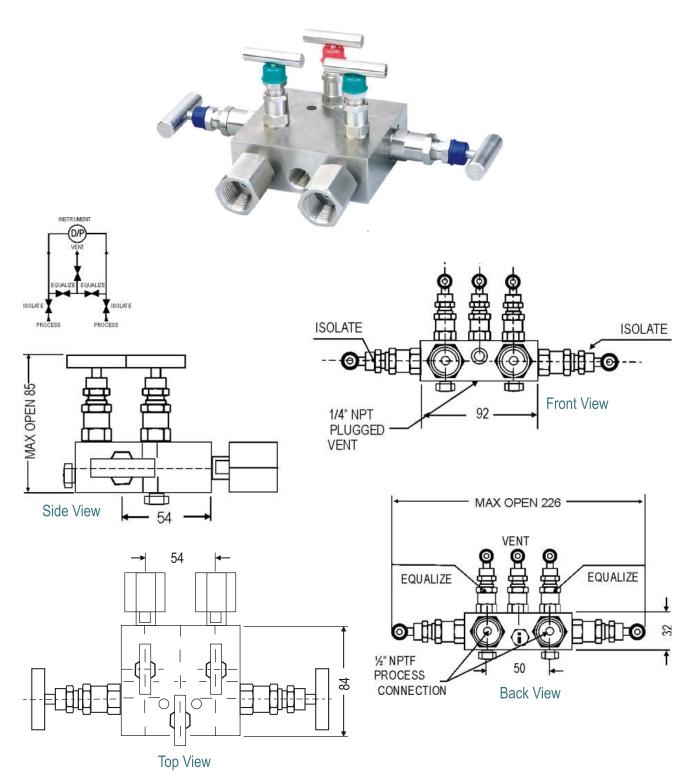


- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





M-24 Series for differential pressure gauges with 2 inlets NPT female at bottom and 2 outlets with rotating nuts on top side.



Product	Process side	Instrument side	Vent/Test
M 24	1/2" NPT female	1/2"BSP Rotatable nuts	1/4" NPT female





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem

Type CT; Stem with conical metal tip

Drain port

1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes 2 Nos.

Hard Chrome plating Provided on stem tip.

Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-24

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	СТ	P = PTFE	44= 1/2" x 1/2" (std)	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	24= 1/4" x 1/4"	FR = Female x Female	P = BSPP
S4 = SS 304		a Graion	21 1/1 / 1/1	Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				SW = Socket weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					, , , ,
M5 = Monel 500					
H = Hastellogy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

BLD4: Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.



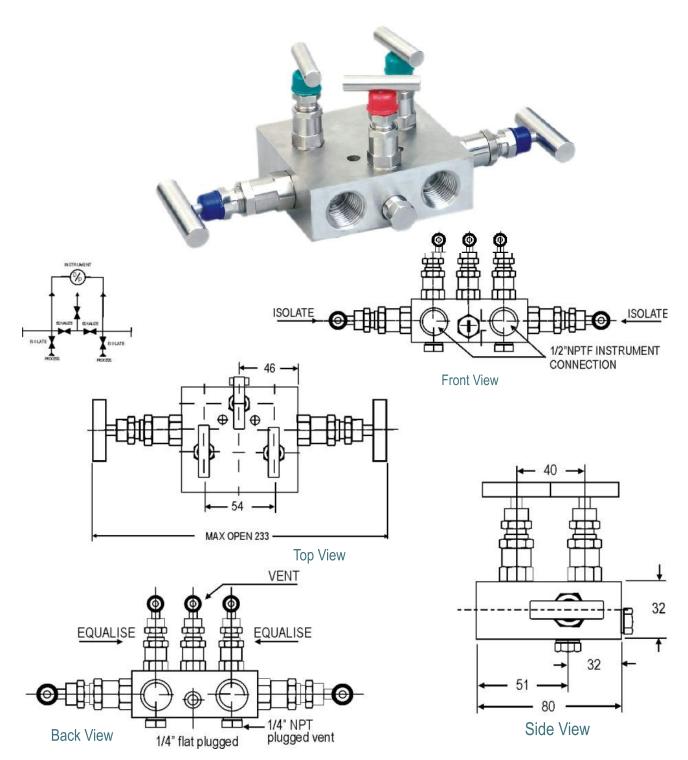
- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





M-25

With threaded vertical port inlets and outlets. The vent/test ports are positioned on the bottom and top of the body. The isolating bonnets are positioned on the left and right hand side and the venting and equalizing bonnets are positioned on the front side. Specially designed for remote mounting to field meters, differential transmitters and chart recorders on gas service allowing fail safe configuration preventing pressure loss from the high to low pressure impulse lines.



Product	Process Side	Instrument Side	Vent/Test
M 25	1/2" NPT female	1/2" NPT female	1/4" NPT female





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem

Type CT; Stem with conical metal tip

Drain port

1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes 2 Nos.

Hard Chrome plating Provided on stem tip.

Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-25

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT	P = PTFE	44= 1/2" x 1/2" (std)	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	24= 1/4" x 1/4"	FR = Female x Female	P = BSPP
S4 = SS 304				Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				SW = Socket weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					,
M5 = Monel 500					
H = Hastellogy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

BLD4: Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.

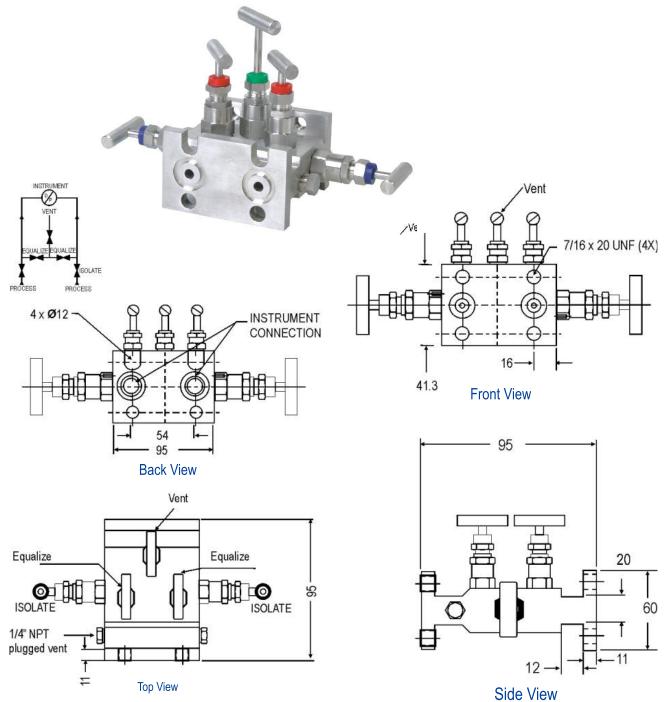


- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With Flange horizontal port inlets and Flange port outlets. The vent/test ports are positioned on the bottom side. The isolating and venting bonnets are positioned on the left and right hand side and the equalizing bonnet is positioned on the top side. Designed for direct mounting.



Product	Process Side	Instrument Side	Vent/Test
M 26	Flange	Flange	1/4" NPT female





Standard version specifications

BodySS 316StemSS 316Valve assemblySS 316'T' bar handleSS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip
Drain port 1/4" NPT [F]; provided with SS 316 plug

Hard Chrome plating Provided on stem tip.
Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-26

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	4F= 1/2" x Flange	FD = Female x Flange (54mm)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	FF= Flange x Flange	DD = Flange x Flange	P = BSPP
S4 = SS 304			2F = 1/4" y Flance	6 6	(BS 2779, ISO 228/1)
SL = SS 316L			Zi — i/+ Xi lange	3VV — Socket Weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					,
M5 = Monel 500					
H = Hastelloy C					
SL = SS 316L M4 = Monel 400 M5 = Monel 500			2F = 1/4" x Flange	SW = Socket Weld	,

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS : Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

PRF : PTFE Ring For Flange Seal
GRF : Grafoil Ring For Flange Seal
BLD4 : Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.



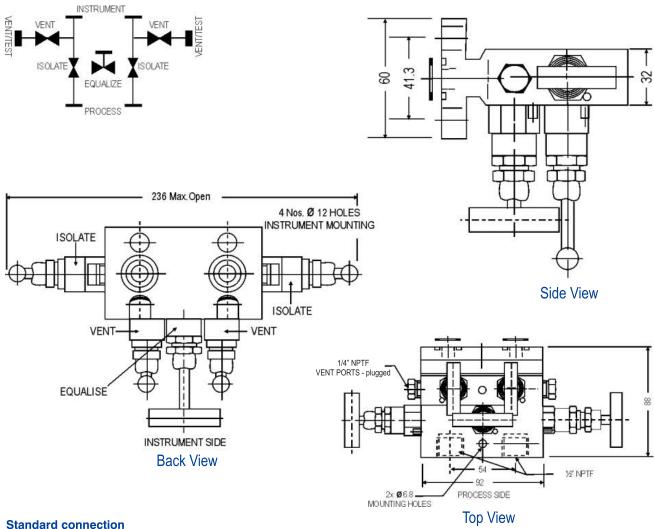
- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With threaded female ports on front side for instrument connection along with extended Flange for process connection. The two vent bonnets along with equalizing bonnet is positioned on the top side. The two isolation bonnets are positioned on left and right hand sides.





Product	Process Side	Instrument Side	Vent/Test
M 27	1/2" NPT female	Flange	1/4" NPT female





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip
Drain port 1/4" NPT [F]; provided with SS 316 plug

Hard Chrome plating Provided on stem tip.

Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-27

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	4F= 1/2" x Flange	FD = Female x Flange (54mm)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	FF= Flange x Flange	DD = Flange x Flange	P = BSPP
S4 = SS 304			2F = 1/4" x Flange	SW = Socket Weld	(BS 2779, ISO 228/1)
SL = SS 316L			21 - 1/4 XT lange	SVV = Socket Weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					,
M5 = Monel 500					
H = Hastelloy C					

Options -

IE : Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

DS: Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS : Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

PRF : PTFE Ring For Flange Seal
GRF : Grafoil Ring For Flange Seal
BLD4 : Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.



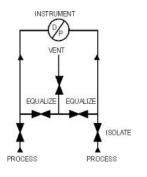
- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.

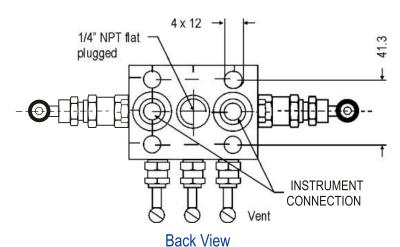


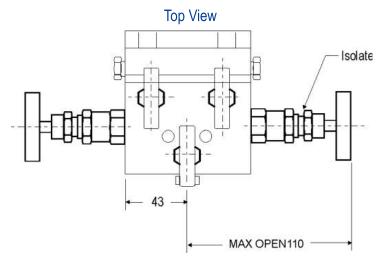


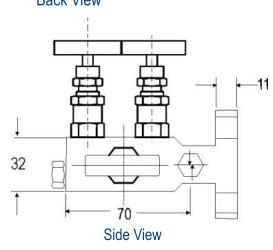
Five Valve Manifold Special Series to accommodate any half DIN 19213 interface complaint pressure transmitter. 2 inlets NPT female at front and 2 outlets Flange at back side DIN 19213. Vent/teat connection at front, equalizing bonnets at top side, isolating bonnets at left and right side-venting bonnet at top.











Product		Process Side	Instrument Side	Vent/Test
	M 28 1/2" NPT female		flanged	1/4" NPT female





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip
Drain port 1/4" NPT [F]; provided with SS 316 plug

Hard Chrome plating Provided on stem tip.

Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-28

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	4F= 1/2" x Flange	FD = Female x Flange (54mm)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	FF= Flange x Flange	DD = Flange x Flange	P = BSPP
S4 = SS 304			2F = 1/4" x Flange	SW = Socket Weld	(BS 2779, ISO 228/1)
SL = SS 316L			21 - 1/4 X Hange	3W - Socket Weid	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					,
M5 = Monel 500					
H = Hastelloy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS : Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

PRF : PTFE Ring For Flange Seal
GRF : Grafoil Ring For Flange Seal
BLD4 : Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.



- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.

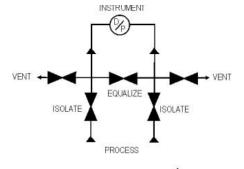


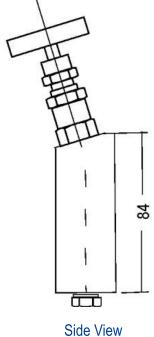


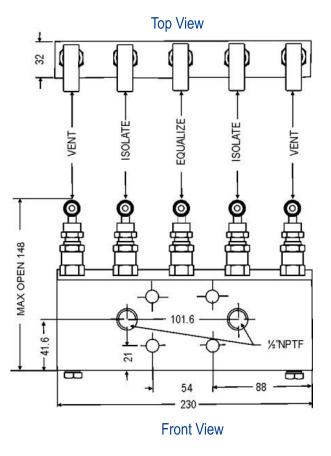
M-29

With threaded horizontal port inlets and Flange port outlets. Three vent/test connections are positioned on the bottom of the body. The isolating, venting and equalizing bonnets are angular positioned on the top designed direct mounting.









Product Process Side		Instrument Side	Vent/Test	
M 29	1/2" NPT female	flange	1/4" NPT female	





Standard version specifications

 Body
 : SS 316

 Stem
 : SS 316

 Valve assembly
 : SS 316

 'T' bar handle
 : SS 304

Maximum working pressure : 6000 PSI / 400 bar

Maximum working temperature : 240°C Packing : PTFE

Type of stem : Type CT; Stem with conical metal tip

Drain port : 1/4" NPT [F]; provided with SS 316 plug

Hard Chrome plating : Provided on stem tip.
Bracket mounting holes : 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-29

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	2F = 1/4" x Flange	FD = Female x Flange (54mm)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	4F= 1/2" x Flange	SW = Socket Weld	P = BSPP
S4 = SS 304			Ü		(BS 2779, ISO 228/1)
SL = SS 316L					B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					
M5 = Monel 500					
H = Hastelloy C					

Options -

IE: Handle circular.

TF : Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB: Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS : Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

PRF : PTFE Ring For Flange Seal
GRF : Grafoil Ring For Flange Seal
BLD4 : Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.



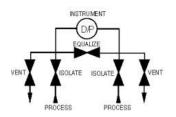
- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.

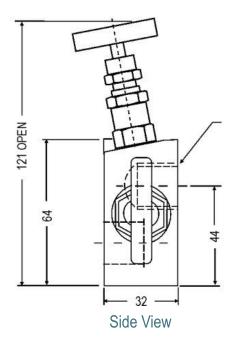


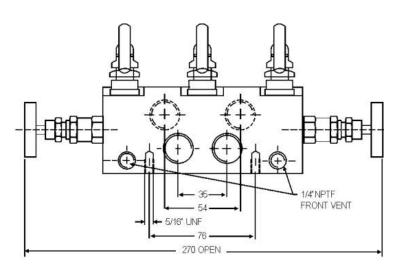


Series designed for complete isolation of instruments-2 inlets NPT female at front, 2 outlets NPT female at back side. Vent/test connection at front, equalizing bonnets (2) angular top, isolating bonnets at left and right side, venting bonnet angular on top.









Front View

Product	Process Side	Instrument Side	Vent/Test
M 30	1/2" NPT female	1/2" NPT female	1/4" NPT female





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem

Type CT; Stem with conical metal tip

Drain port

1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes 2 Nos.

Hard Chrome plating Provided on stem tip.

Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-30

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	СТ	P = PTFE	44= 1/2" x 1/2" (std)	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	24= 1/4" x 1/4"	FR = Female x Female	P = BSPP
S4 = SS 304		a – dialon	24- 1/4 X 1/4	Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				SW = Socket weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					(, , . ,
M5 = Monel 500					
H = Hastellogy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

BLD4: Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.



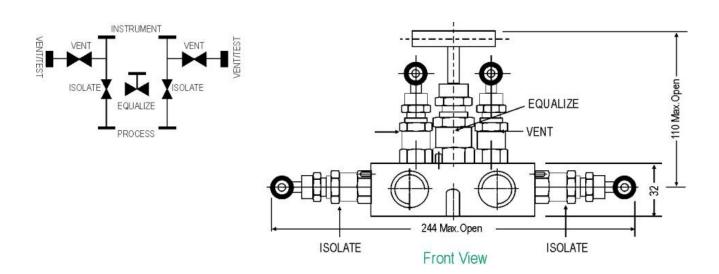
- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.

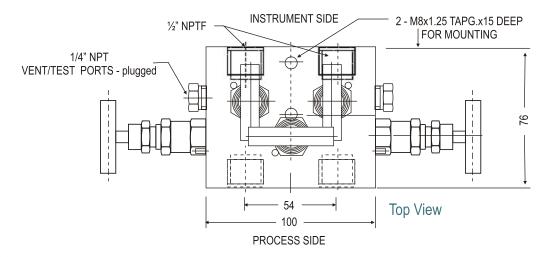




With threaded female ports on front side and back side for instrument and process connections. The two vent bonnets along with equalizing bonnet are positioned on the top side. The two isolation bonnets are positioned on left and right hand sides.







Product	Process Side	Instrument Side	Vent/Test
M 31	1/2" NPT female	1/2" NPT female	1/4" NPT female





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip
Drain port 1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes 2 Nos.

Hard Chrome plating Provided on stem tip.

Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-31

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT	P = PTFE	44= 1/2" x 1/2" (std)	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	24= 1/4" x 1/4"	FR = Female x Female	P = BSPP
S4 = SS 304		G Graion	21 1/1 X 1/1	Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				SW = Socket weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					, ,
M5 = Monel 500					
H = Hastellogy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

BLD4: Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.



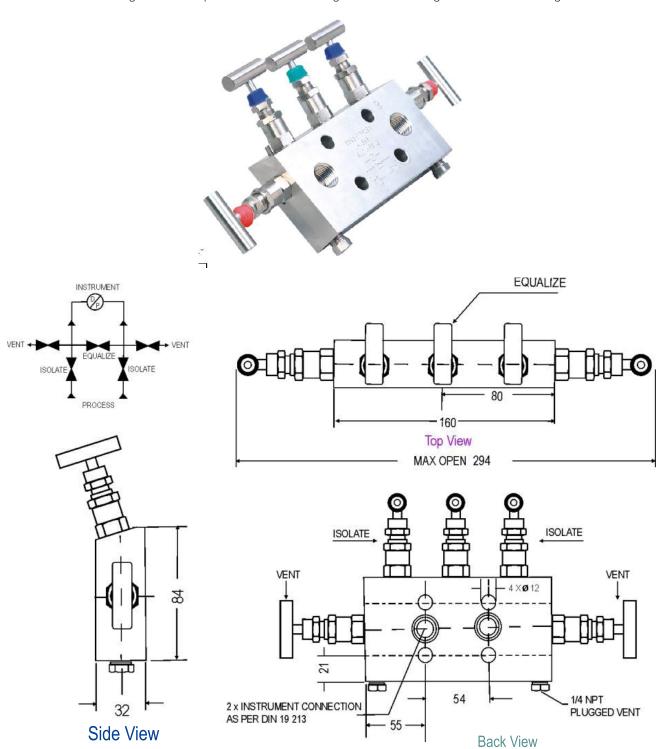
- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





M-32

With threaded horizontal port inlets and Flange outlets. Two vent/test connections are positioned on the bottom of the body. The isolating and equalizing bonnets are angular positioned on the top side. The vending bonnets are positioned on the left & right hand side. Designed for direct mounting.



Product Process side		Instrument side	Vent/Test
M 32	1/2" NPT female	flange	1/4" NPT female





Standard version specifications

BodySS 316StemSS 316Valve assemblySS 316'T' bar handleSS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip
Drain port 1/4" NPT [F]; provided with SS 316 plug

Hard Chrome plating Provided on stem tip.
Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-32

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	2F = 1/4" x Flange	FD = Female x Flange (54mm)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	4F= 1/2" x Flange	SW = Socket Weld	P = BSPP
S4 = SS 304			Ü		(BS 2779, ISO 228/1)
SL = SS 316L					B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					,
M5 = Monel 500					
H = Hastelloy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS : Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

PRF : PTFE Ring For Flange Seal GRF : Grafoil Ring For Flange Seal BLD4 : Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.

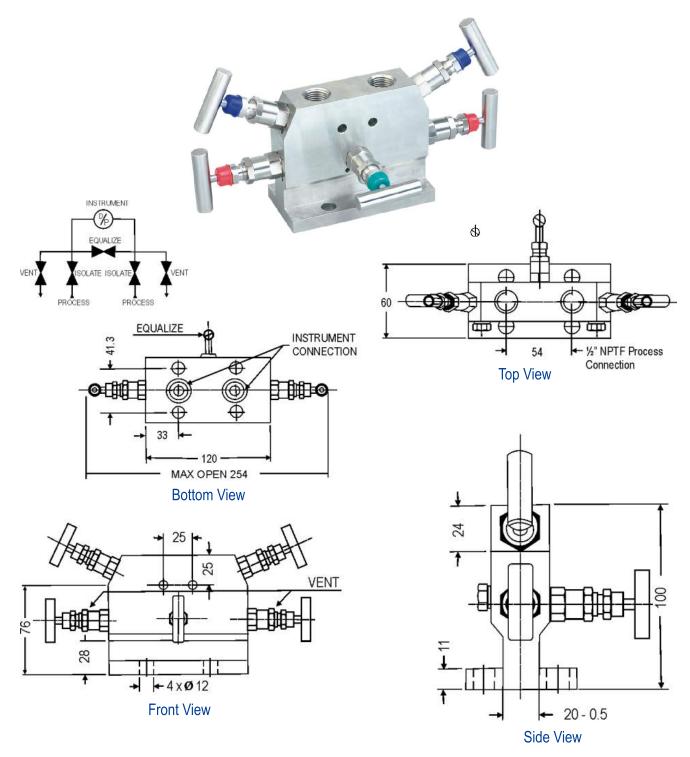


- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With threaded horizontal port inlets and Flange port outlets. The vent/test ports are positioned on the bottom side. The isolating and venting bonnets are positioned on the left and right hand side and the equalizing bonnet is positioned on the top side. Designed for direct mounting.



Product	Process Side	Instrument Side	Vent/Test
M 33	1/2" NPT female	flanged	1/4" NPT female





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip
Drain port 1/4" NPT [F]; provided with SS 316 plug

Hard Chrome plating Provided on stem tip.

Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-33



Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS : Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

PRF : PTFE Ring For Flange Seal
GRF : Grafoil Ring For Flange Seal
BLD4 : Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.

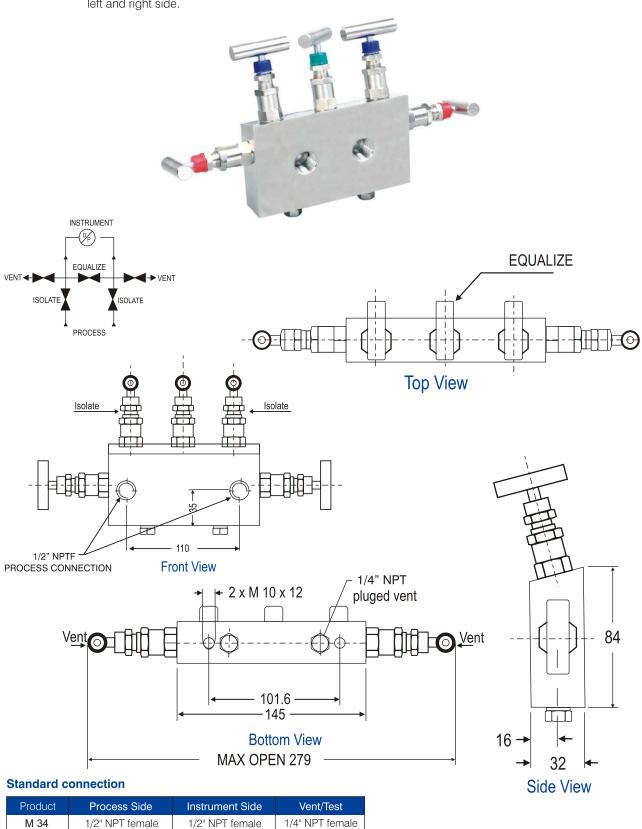


- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





Model designed for complete isolation of instruments with NPT female inlets /outlets. Vent/test connection at bottom; equalizing bonnet angular on top-isolating bonnets angular on top venting bonnets at left and right side.



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Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI / 400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem

Type CT; Stem with conical metal tip

Drain port

1/4" NPT [F]; provided with SS 316 plug

Bracket mounting holes 2 Nos.

Hard Chrome plating Provided on stem tip.

Bracket mounting holes 4 Nos. With 12 mm ID.

How To Order: Valve Type-M-34

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	СТ	P = PTFE	44= 1/2" x 1/2" (std)	FF = Female x Female	N = NPT (ANSI B 1.20.1)
S = SS 316	DS	G = Grafoil	24= 1/4" x 1/4"	FR = Female x Female	P = BSPP
S4 = SS 304			,, .	Rotating	(BS 2779, ISO 228/1)
SL = SS 316L				SW = Socket weld	B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400					,
M5 = Monel 500					
H = Hastellogy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG : For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH: Material test certificate
GO: Hydro test certificate

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

MB : Mounting Bracket

MBC : Mounting bolts (7/16" UNF) in carbon steel (Model : MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

BLD4: Bleeder 1/4" NPT (Male)

Example

To place an order simply refer to the codes in the table.



- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.

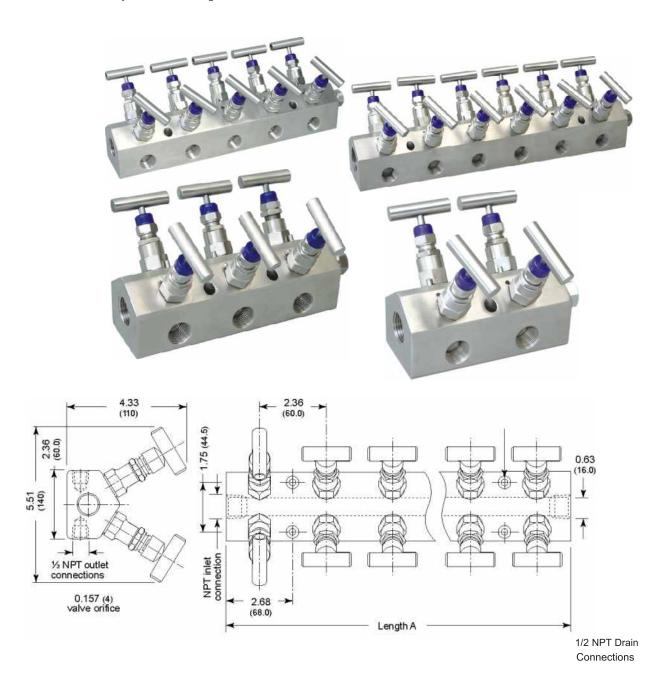


DISTRIBUTION MANIFOLD VALVE



M-35

This Distribution Manifold valves are made by extruded stainless steel body rated for 6 000 psig (414 bar) working pressure. Fewer potential leak points than conventional distribution manifolds. Compact, versatile manifold for gas and liquid applications. Mounting holes through the manifold to reduce stress on the piping system. Four to eighteen needle valves / outlet connections.



Dimensions

Dimensions, in inches (millimeters), are for reference only and are subject to change.

Product	Inlet Connection	Outlet Connection	Drain Connection	
M 35	1/2" NPT female	1/2" NPT female	1/2" NPT female	

Number of Outlet Connections	Length A in. (mm)	
4	5.35 (136)	
6	7.72 (196)	
8	10.1 (256)	
10	12.4 (316)	
12	14.8 (376)	
14	17.2 (436)	
16	19.5 (496)	
18	21.9 (556)	



DISTRIBUTION MANIFOLD VALVE



Standard version specifications

Body 316
Stem SS 316
Valve assembly SS 316
T' bar handle SS 304
Maximum working pressure 6000 psi
Maximum working temperature 240°C

Packing PTFE (Grafoil for temperature above 240°c to 550°c)

Type of stem Type CT; Stem with conical metal tip

Drain port provided with plug

mounting holes Available

How To Order: Valve Type-M-35

Body Material	Inlet Connection	Outlet Connection (Valve outlet)	Packing	Handle	Number of Outlet (Connections Valve)
C = Carbon Steel	4N = 1/4"Female NPT	4N = 1/4"Female NPT	P = PTFE	T = Bar	4
S4 = SS 304	8N = 1/2"Female NPT	8N = 1/2"Female NPT	G = Grafoil		6 8
S = SS 316 (std)	12N = 3/4"Female NPT	12N = 3/4"Female NPT			10
SL = SS 316L	16N = 1"Female NPT	16N = 1"Female NPT			12
					14
					16
					18

Options

GH : Material test certificateGO : Hydro test certificate

• TF : Sour gas service to NACE standard MR-01-75.

FN : Flange inlet Connections available.

D4 : 1/4" NPT (F) Drain point provided with plug.
D8 : 1/2" NPT (F) Drain point provided with plug.

Example

To place an order simply refer to the codes in the table.



• Additional materials, options, and accessories are available.

TESTING:

• Every valve is hydrostatically tested at ambient temperature.

Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance.

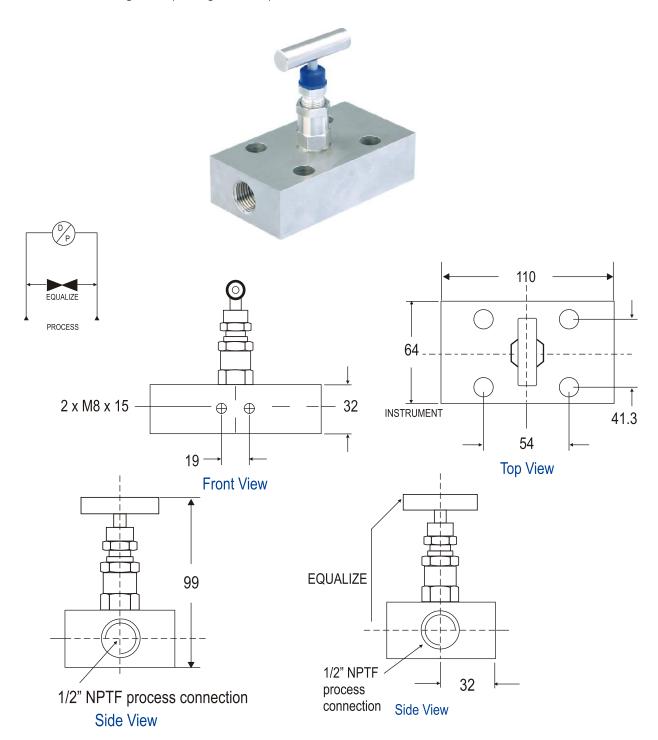
Function, material compatibility adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

Caution: Do not mix or interchange parts with those of other manufacturers.





With threaded horizontal port inlet and outlet and Flange instrument connection with 54 mm centre bolting. The equalizing bonnet is positioned on the front side.



Product	Process side	Instrument side	
M 36	1/2" NPT female	Flange	





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI /400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip

Drain port 1/4" NPT [F]; provided with SS 316 plug [not available in Series SVV]

Bracket mounting holes 2 Nos. of 7 mm diameter [not available in Series SVH]

Hard Chrome plating Provided on stem tip

How To Order: Valve Type-M-36

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	24 = 1/4" x 1/4"	FF = Female x Female (Std)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	33 = 3/8" x 3/8"	SW = Socket Weld	P = BSPP
S4 = SS 304			44 = 1/2" x 1/2" (std)	FD = Female x Flange(54mm)	(BS 2779,ISO 228/1)
SL = SS 316L			2F = 1/4"x Flange		B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400			3F = 3/8"x Flange		
M5 = Monel 500			4F = 1/2"x Flange		
H = Hastelloy C					

Options -

IE: Handle circular.

TF: Compliance to NACE standard MR-0175.

SG: For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH : Material test certificateGO : Hydro test certificate

MBC: Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS: Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

DS : Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

Example

To place an order simply refer to the codes in the table.



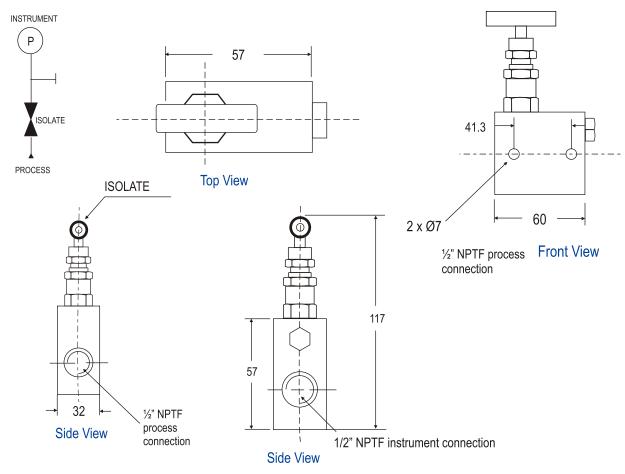
- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.





With threaded horizontal port inlet, outlet and vent/test connection located at the right hand side. The venting bonnet is positioned on the top.





Product Process side		Instrument side	Vent/Test	
M 37	1/2" NPT female	1/2" NPT female	1/4" NPT female	





Standard version specifications

Body SS 316
Stem SS 316
Valve assembly SS 316
'T' bar handle SS 304

Maximum working pressure 6000 PSI /400 bar

Maximum working temperature 240°C Packing PTFE

Type of stem Type CT; Stem with conical metal tip

Drain port 1/4" NPT [F]; provided with SS 316 plug [not available in Series SVV]

Bracket mounting holes 2 Nos. of 7 mm diameter [not available in Series SVH]

Hard Chrome plating Provided on stem tip

How To Order: Valve Type-M-37

Body Material	Stem Type	Stem Packing	Size = Inlet x Outlet	Connections	Threads
C = Carbon Steel	CT (std)	P = PTFE (std)	24 = 1/4" x 1/4"	FF = Female x Female (Std)	N = NPT (ANSI B 1.20.1)
S = SS 316 (std)	DS	G = Grafoil	33 = 3/8" x 3/8"	SW = Socket Weld	P = BSPP
S4 = SS 304			44 = 1/2" x 1/2" (std)	FD = Female x Flange(54mm)	(BS 2779,ISO 228/1)
SL = SS 316L			2F = 1/4"x Flange		B = BSPT (BS 21, ISO 7/1)
M4 = Monel 400			3F = 3/8"x Flange		
M5 = Monel 500			4F = 1/2"x Flange		
H = Hastelloy C					

Options -

IE Handle circular.

TF Compliance to NACE standard MR-0175.

SG For Oxygen service, valves are supplied cleaned, degreased and suitably packed.

GH Material test certificate
GO Hydro test certificate

MBC Mounting bolts (7/16" UNF) in carbon steel (Model: MBC - M45, MBC - M25)

MBS Mounting bolts (7/16" UNF) in SS (Model: MBS - M45, MBS - M25)

DS Valves with stem having soft conical and Delrin tip rolled into the needle for gas service

Example

To place an order simply refer to the codes in the table.



- The weld prepared types are available with female plain end suitable for socket weld.
- Anti-tamper bonnet special design on request with locking arrangement if desired.

DIAPHRAGM SEALS

- All wetted parts SS 316L confirming to NACE MR 0175
- All diaphragm are laser welded with body
- All Sanitary seals are confirming to sanitary applications
- All the seals are helium leak tested
- Connected with gauges in MONEL ,HASTELLOY C 276,TITANIUM, TANTALUM, INCONEL 600, SILIVER
- We offer diaphragm seals till 400 bar



D-02 **DIRECT COUPLE TYPE**

Min Pressure :-30inHg Max.Pressure:6,000 psi



D-06 **HEAVY DUTY MINI SEAL**

Min Pressure :-30inHg Max.Pressure:9,000 psi



FLANGE," I " SECTION TYPE

Min Pressure :-30inHg Max.Pressure:6,000 psi



D-04 **FLUSH DIAPHRAGM SANITARY TYPE**

Min Pressure :-30inHg Max.Pressure:600 psi



D-07

Min Pressure :-30inHq Max.Pressure:600 psi



D-11 **EXTENDED NECK TYPE**

Min Pressure :-30inHg Max.Pressure:4,000 psi



D-05 **SCREWED FLUSH TYPE**

Min Pressure: -30inHa Max.Pressure: 900 psi



SANITARY SEAL, CLAMP TYPE DIRECT FLANGED FLUSHING TYPE

Min Pressure :-30inHq Max.Pressure:4,000 psi



PULP SEAL, FLOATING RING TYPE

Min Pressure :-30inHg Max.Pressure:600 psi

ACCESSORIES



AC-01 COOLING TOWER

Min. Pressure: -30inHg Max. Pressure: 6,000psi



AC-02 GAUGE COCK

Min. Pressure: -30inHg Max. Pressure: 230 psi and 1,500 psi as option



AC-03 GAUGE SAVER

Min. Pressure: -30inHg Max. Pressure::10,000 psi



AC-04 FLUSHING RING

Min. Pressure: -30inHg Max. Pressure: 6,000 psi



AC-05 PULSATION DAMPENER

Min. Pressure: -30inHg Max. Pressure: 6,000 psi



Min. Pressure: -30inHg Max. Pressure :1,500 psi



AC-07 SWIVEL ADAPTOR

Min. Pressure: -30inHg Max. Pressure: 6,000 psi



AC-08 CURVED PC LENS WITH RED DRAG POINTER

Size: 2.5" & 4"

THERMOWELLS

- Manufacture from BAR STOCK
- Design Standard : PTC 19.3
- Available material: SS316L ,HASTELLOY C,MONEL,TITANIUM,TANTALUM,

INCONEL 600

- Protection Coating: Available with PTFE for acid applications.
- Leak Testing: Helium gas and Hydro static pressure internal and external



FLANGE THERMOWELL

STRAIGHT THERMOWELL







Elite Instruments is a world class manufacturer of measuring instruments and accessories, including pressure gauges, thermometers, level gauges, pressure switches, RTD's, thermocouples and thermowells. We specialize in working together with our customers to develop comprehensive solutions in measurement technology and integrating those solutions into their processes.

Established in 2010, Elite Instruments delivers over 2 million quality products to over 50 countries every year. Worldwide, over 6 million ELITE measuring instruments are currently in use.

Headquartered in China, Kunshan Elite Instruments Company Ltd. also has locations in Singapore and India to better serve our customers,

Elite serves a wide variety of industries worldwide, including:

- 1. Oil and Gas
- 2. Chemical and Petrochemical
- 3. Food and Pharmaceutical
- 4. Water and Wastewater
- 5. Engineering and Process

Elite also specializes in developing custom built OEM products as per customer requirements. Our proficient team of engineers will work to bring your custom design to life, or work with you to create new products designed meet your exact needs.

Our customers have testified that the Quality, workmanship, appearance and packaging of Elite products are second to none.

Elite Instruments is ISO 9001:2008 certified with many products holding ATEX approval, per 2014/34/EU Our state of the art production, testing and warehouse facilities ensure Elite exceeds customer expectations for quality and delivery.

Elite's commitment to quality is demonstrated by our investment in world class production and testing equipment.

Our commitment to quality is also demonstrated in our procedures. All Elite products undergo rigorous quality inspection before, during and post-production to ensure 100% of products meet customer demands and specifications.

Elite Instruments' customer service is fast and flexible. We always put our CUSTOMER FIRST. Let us prove that we are the best choice for your supplier of measuring instruments.

Please visit our website www.elite-instrument.com or send your enquires to sales@elite-instrument.com

Please visit youtube page:

https://youtu.be/72MgbJNO5fw



Manufacturing Units

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