

Manifolds - Two Valve

Versatile two-valve static pressure manifolds with a variety of inlet and outlet connections that enable isolation, calibration and venting in single unit

General Application

Especially designed for use with pressure transmitters, gauges and switches in liquid and vapor service, all models are for instrument isolation with the ability to vent or calibrate to a separate threaded port.

TECHNICAL DATA

Materials

316 SS, Monel® and other exotic materials

Seats:

Metal

Connections:

Instrument: ½" NPT threaded

Process: ½" NPT threaded or flanged

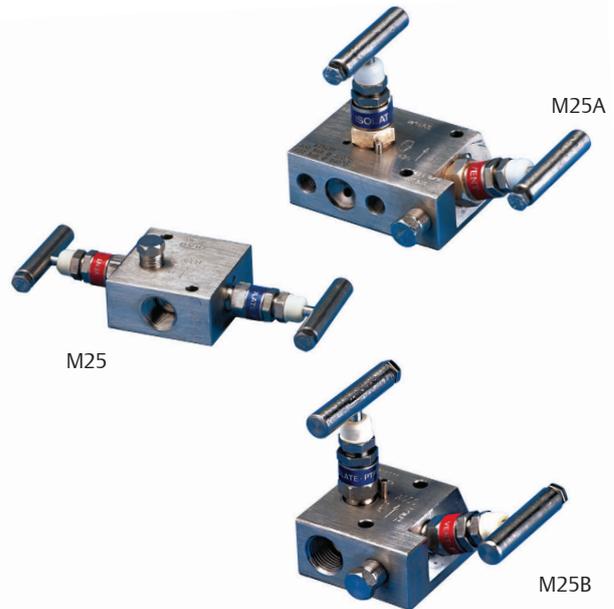
Pressure (max):

10,000 psig (689 barg)

Temperature (min/max):

-70°F to 1000°F

(-57°C to 538°C)



Features

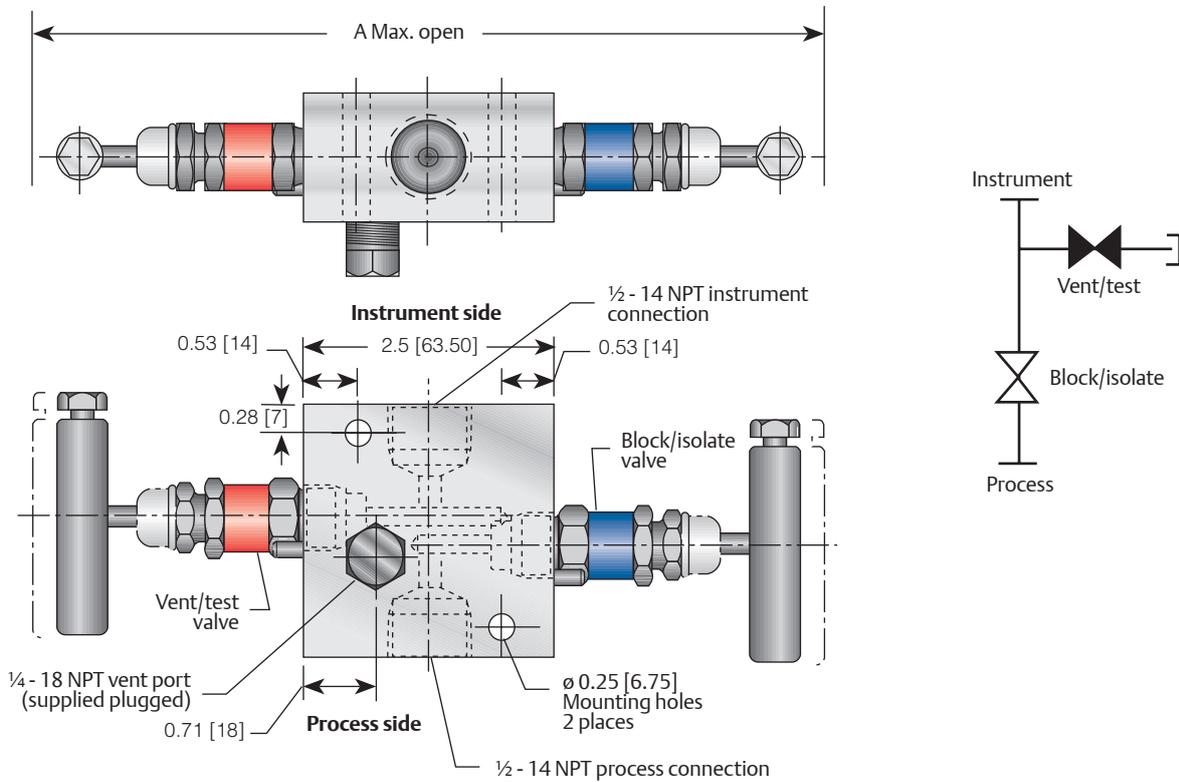
- Remote mounting compact design requires minimum space for operation and installation.
- Reduced installation costs by manifolding the valves, eliminating several components essential for 'piping-up'.
- Free-swivelling ball end stem ensures perfect alignment, providing repetitive bubble-tight shutoff and long life.
- PTFE or graphite packing below stem threads prevents lubricant washout and thread corrosion.
- Back seat stem prevents blowout or accidental removal.
- Threaded vent ports allow vent to be piped away safely. Supplied plugged as standard.
- All manifolds supplied with mounting holes as standard to enable pipe bracket mounting.

M25/M251SERIES

Manifolds - Two Valve

M25 & M251 Dimensions

M25 and M251 dimensions, inches (mm) threaded x threaded - Front vent



Dimensions, inches (mm)

Packing	A
PTFE	7.87 (200)
GRAFOIL®	8.98 (228)

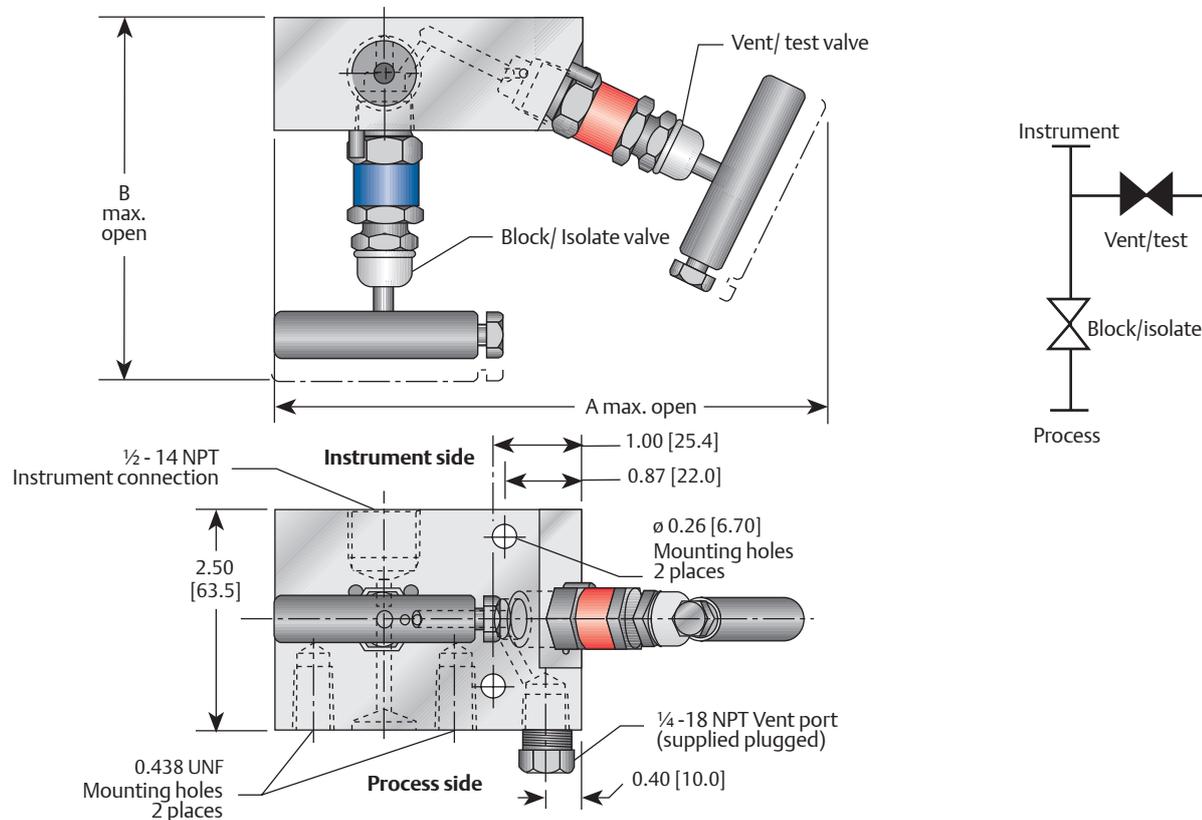
NOTES

1. Approximate valve weight: 2.2 lb [1.0 kg]. 0.187-inch [4.8 mm] diameter orifice. Valve Cv 0.52 maximum.
2. The M25 and M251 are supplied as standard with two 0.26-inch [6.7 mm] diameter mounting holes.

Manifolds - Two Valve

M25A Dimensions

M25A Dimensions, inches (mm) Flanged x Threaded (Bottom Vent)



Dimensions, inches (mm)

Packing	A	B
PTFE	6.26 (159)	3.95 (100)
GRAFOIL®	6.70 (170)	4.57 (116)

NOTES

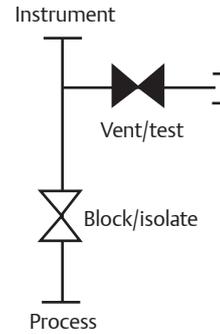
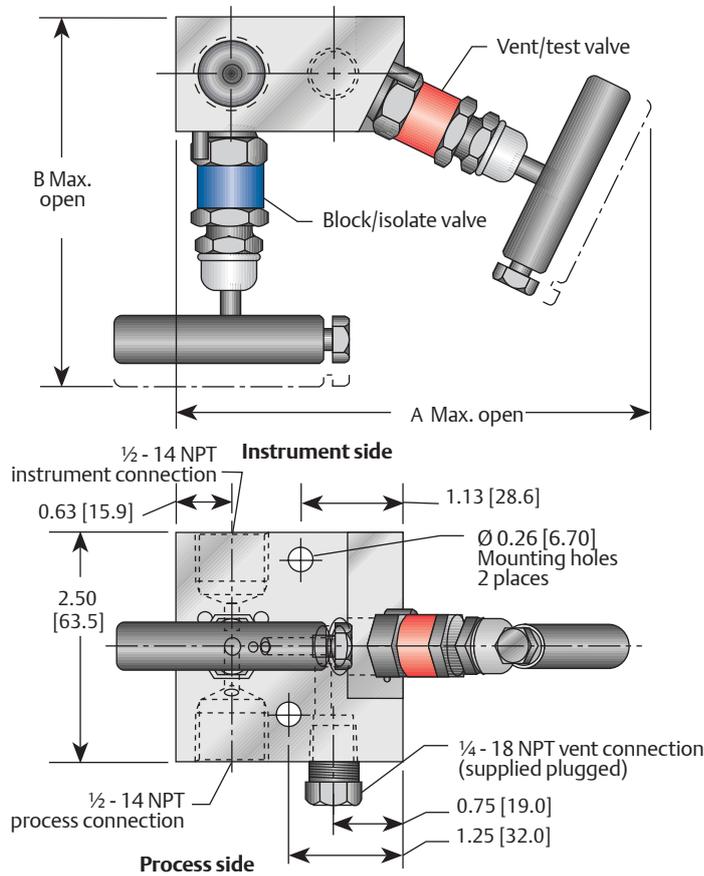
1. Approximate valve weight: 3.3 lb [1.5 kg]. 0.187-inch [4.8 mm] diameter orifice. Valve Cv 0.52 maximum.
2. The M25A is supplied as standard with two 0.26-inch [6.7 mm] diameter mounting holes.

M25A/M25B/M251B SERIES

Manifolds - Two Valve

M25B & M251B Dimensions

M25B and M251B Dimensions, inches (mm) Threaded x Threaded (Bottom vent)



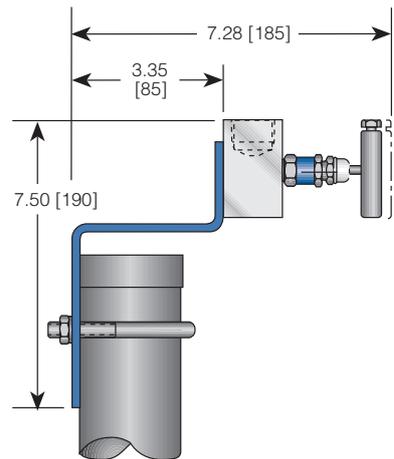
Dimensions, inches (mm)		
Packing	A	B
PTFE	5.38 (134)	3.95 (100)
GRAFOIL®	5.71 (145)	4.57 (116)

AGCO Mount AM

The AGCO Mount principle is to mount the manifold not the instrument enabling easier loop installation and lower on-going maintenance costs. M25A, M25B and M251B are available with an AM AGCO Mount suitable for 2-inch NB pipestand. Supplied in zinc plated CS as standard.

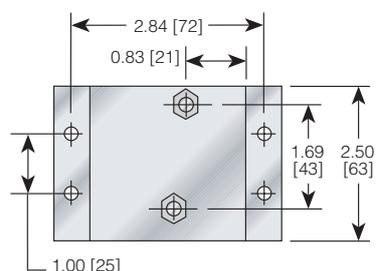
NOTES

1. Approximate valve weight: 2.2 lb [1.0 kg].
0.187-inch [4.8 mm] diameter orifice.
Valve Cv 0.52 maximum.
2. The M25B and M251B are supplied as standard with two 0.26-inch [6.7 mm] diameter mounting holes.



Wall Mounting Bracket AMW

A wall mounting bracket is available suitable for M25A, M25B, M251B.



Manifolds - Two Valve

Valve Bonnet Identification

Dust cap coding: the valve bonnet dust caps are color coded to identify the gland packing/stem.

- White: Standard bonnet assembly PTFE packing.
- Blue: High pressure bonnet assembly PTFE packing.
- Green: Sour Gas service PTFE packing.

Bonnet Assemblies

The metal-seated bonnet assemblies have a rotating stem with free swivel ball-end seat for long service life. The specially hardened ball seat is ideal for both gas and liquid service.

All stem threads are rolled and lubricated to prevent galling and reduce operating torque. The stem seal is a patented PTFE packing gland which is adjustable in service. All bonnets are assembled with a bonnet locking pin to prevent accidental removal while in service and a protective dust cap is fitted to contain stem lubricant and prevent the influx of contaminants.

Special Severe Service Materials

- Duplex UNS S31803
- 6MO UNS S31254
- Hastelloy® C276
- Inconel 625

316 SS and Monel® valves are suitable for most process applications, however for severe service, M25/ M251 valves are also available in the above exotic materials. For any other material requirements, please consult the factory.

Connections

Standard Connections

Process and instrument M25, M251 M25B and M251B:

- Threaded ½-inch NPT to ANSI/ASME B1-20-1.
M25A has a flanged inlet connection.
- Vent Threaded ¼-inch NPT to ANSI/ASME B1-20-1.

Other connections

- Threaded BSP Tr to BS21
- BSP F to BS2779

Please consult the factory for availability.

Standard Materials

Valve ^[2]	Body	Bonnet	Stem	Ball seat
316 SS	316 SS	316 SS	316 SS	316 SS
Monel®	Monel® 400	Monel® 400	Monel® 400	Monel® K500
SG ³	316 SS	316 SS	Monel® 400	Monel® K500

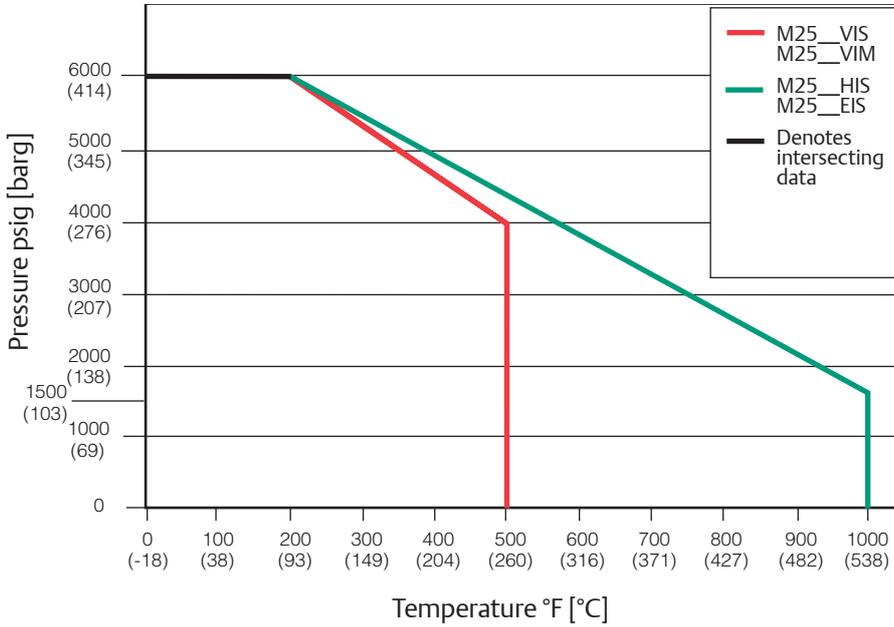
NOTES

1. Threaded connection: vent supplied with blanking plug as standard.
2. Approximate valve weight: 3.3 lb [1.5 kg]. 0.187-inch [4.8 mm] diameter orifice. Valve Cv 0.52 maximum.
3. SG (Sour Gas) meets the requirements of NACE MR0175/ISO 15156 (for chloride conditions ≤ 50 mg/l (ppm)) and NACE MR0103-2005.

M25/M25A/M25B/M251/M251B SERIES

Manifolds - Two Valve

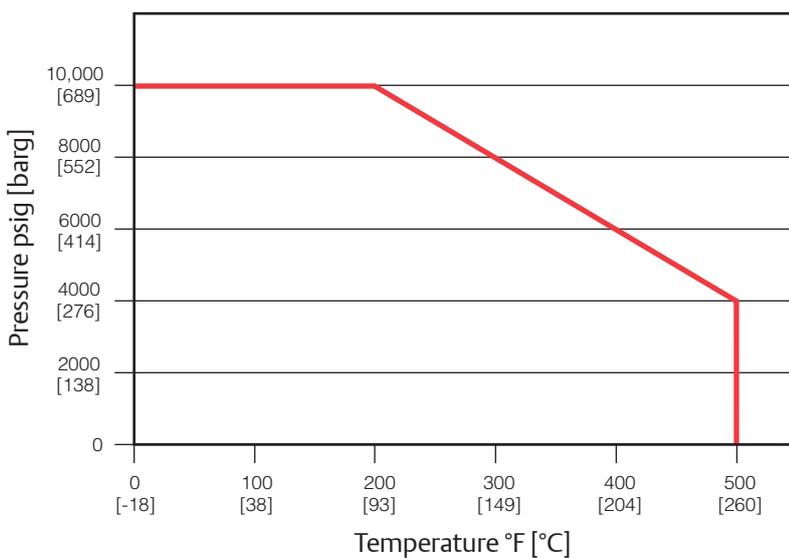
Pressure vs. Temperature - M25, M25A and M25B



Pressure and Temperature Ratings - M25, M25A and M25B

Valve	PTFE bonnet (standard)	
316 SS	6000 psig at 200°F	[414 barg at 93°C]
and Monel®	4000 psig at 500°F	[276 barg at 260°C]
Valve	High temperature	
316 SS	6000 psig at 200°F	[414 barg at 93°C]
	1500 psig at 1000°F	[103 barg at 538°C]

Pressure vs. Temperature - M251 and M251B



Pressure and Temperature Ratings - M251 and M251B

Valve	High pressure	
316 SS	10000 psig at 200°F	[689 barg at 93°C]
	4000 psig at 500°F	[276 barg at 260°C]

Manifolds - Two Valve

Selection Guide - M25, M25A, M25B

M25A		V	I	S	-4	-SG
BASIC SERIES		PACKING	SEAT	BODY MATERIAL	PROCESS CONNECTIONS	OPTIONS
M25	Threaded x threaded (front vent)	V PTFE	I Integral	S- 316 SS	4 Flanged x ½-inch FNPT	BL Bonnet lock device ⁽¹⁾
M25A	Flanged x threaded (bottom vent)	H GRAFOIL®		M Monel®	2 ¼-inch FNPT x ¼-inch FNPT Vent	K Key for -AT
M25B	Threaded x threaded (bottom vent)	E Low emissions graphite			4 ½-inch FNPT x ½-inch FNPT Vent	AMW Wall mounting bracket (M25A, M25B only) AM AGCO Mount 2NB pipestand OC00 Cleaned for oxygen service PD Padlock for -LAT SG SG (Sour Gas) meets the requirements of NACE MR0175/ISO 15156 (for chloride conditions ≤ 50 mg/l (ppm)) and NACE MR0103-2005 ST Stellite ball ended stem AT Tamper proof bonnet LAT Lockable tamper proof bonnet SS All 316 SS material for non wetted components

NOTE

1. H and E series bonnets, for PTFE bonnet call Factory.

M251/M251B SERIES

Manifolds - Two Valve

Selection Guide - M251, M251B

M251		V	I	S	-4	-SG
BASIC SERIES	PACKING	SEAT	BODY MATERIAL	PROCESS CONNECTIONS INLET X OUTLET	OPTIONS	
M251 Threaded x threaded (front vent)	V PTFE	I Integral	S 316 SS	2 ¼-inch FNPT x ¼-inch FNPT Vent	BL Bonnet lock device ⁽¹⁾	
M251B Flanged x threaded (bottom vent)			M Monel®	4 ½-inch FNPT x ½-inch FNPT Vent	K Key for -AT AMW Wall mounting bracket (M251B only) AM AGCO Mount 2NB pipestand OC00 Cleaned for oxygen service PD Padlock for -LAT SG SG (Sour Gas) meets the requirements of NACE MR0175/ISO 15156 (for chloride conditions ≤ 50 mg/l (ppm)) and NACE MRO 103-2005 ST Stellite ball ended stem and NACE MRO 103-2005 AT Tamper proof bonnet LAT Lockable tamper proof bonnet SS All 316 SS material for non wetted components	

NOTE

1. Please contact factory.