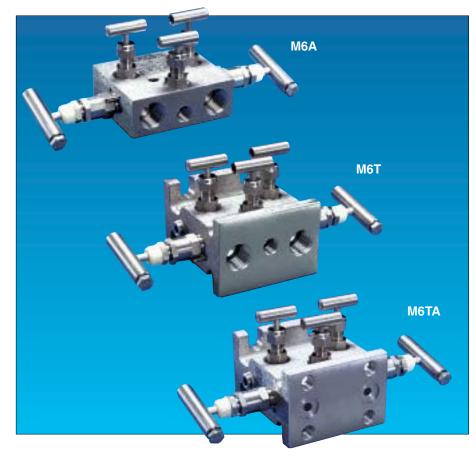
Natural Gas Manifolds – M6A, M6T, M6TA 5-Valve Manifolds



Product Overview

The M6A 5-Valve Manifold for natural gas applications was first designed and manufactured in 1960. It soon took over as the standard for recording orifice meters. Today, it is still widely used. The M6A is usually supported in the vertical meter tubing from the orifice flange union. Static pressure and calibration test connections are standard. The unit is available with integral tube fittings, if desired.

Differential pressure transmitter accuracy and stability have improved, resulting in their broader use for natural gas measurement in production and transmission applications.

To meet the requirements for differential pressure transmitter applications, the M6T (pipe x flange) and M6TA (flange x flange) were designed to provide the family of M6A, M6T, M6TA for various field applications.

Recent natural gas measurement field research has shown that better accuracy results when the transmitter is installed directly on the orifice flanges or orifice fitting. Anderson Greenwood has designed a family of manifolds and installation configurations to meet the more accurate installations and users' requirements.

Refer to ACCU-Mount[™] Catalog.

Features and Benefits

M6A

- Easy Installation. The lightweight M6A is easily installed in meter tubing. No additional support is generally required.
- Upstream or downstream 1/4-inch FNPT ports are standard for connecting the static pressure to the meter.
- Available with soft or hard seats. Soft seats are easily replaced in the field in the event of damage from hydrated or sand. Soft seats are tolerant to much abuse from sand, grit, etc. remaining bubble-tight.
- Bonnet-to-body and stem threads are isolated from process corrosion – important in sour gas applications.

- Stem backout prevention eliminates accidental removal while under pressure.
- Stem packing is standard Viton[®]
 O-ring with TFE back-up ring with long life assured by mirror finish on stem in the packing area.
- Integral hard backseat forms a secondary seal for the stem threads when valve is fully opened.
- Stem threads are rolled (not cut) to increase strength and longer life.
- Either single or double ferrule tube fittings are available integral to the body. This reduces potential leak points.

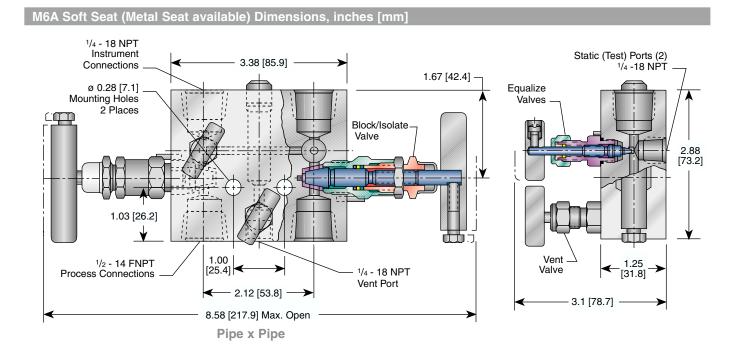
M6T and M6TA

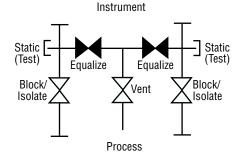
- Same features and benefits as the M6A plus the following.
- May be pipestand mounted using the appropriate AGCO Mount Kit. This allows the manifold to be mounted prior to receipt of transmitter. Makes it easier and quicker to remove the transmitter for servicing since it is attached only to the manifold and power source.

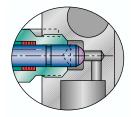


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Natural Gas Manifolds – M6A Specifications







Metal Seat

Note

1. Approximate valve weight: 4.0 lb [1.8 kg]. Metal seat: 0.156-inch [4.0 mm] diameter orifice.

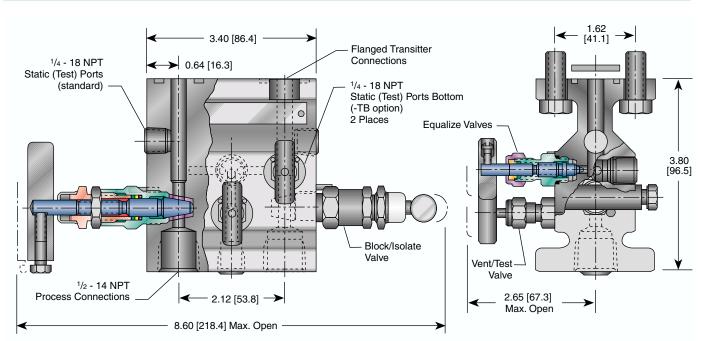
Valve C_v 0.36 maximum.

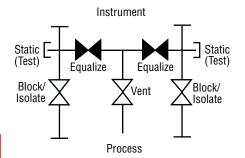
Soft seat:

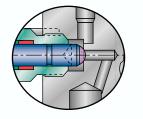
0.187-inch [4.8 mm] diameter orifice. Valve C_v 0.83 maximum.

Natural Gas Manifolds – M6T Specifications

M6T Soft Seat (Metal Seat available) Dimensions, inches [mm]







M6T and M6TA Metal Seat

Notes

- M6T Installation Kit consists of 4 bolts ⁷/₁₆-inch -20 x 1-inch A193-B7, 4 washers, and 2 Teflon[®] gaskets.
- 2. Approximate valve weight: 6.0 lb [2.7 kg]. Metal seat:

0.156-inch [4.0 mm] diameter orifice. Valve C_{ν} 0.36 maximum.

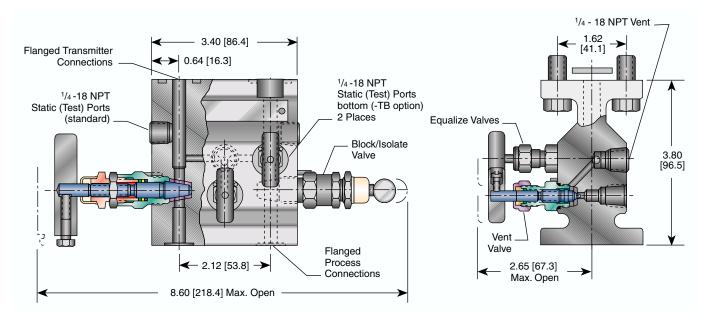
Soft seat:

0.187-inch [4.8 mm] diameter orifice. Valve C_v 0.83 maximum.

3. See Specifications, pages 128 - 129 and Ordering Information, page 130.

Natural Gas Manifolds – M6TA Specifications





Notes

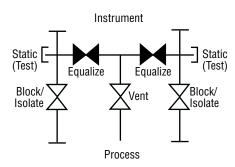
1. Approximate valve weight: 6.0 lb [2.7 kg]. Metal seat:

0.156-inch [4.0 mm] diameter orifice. Valve C_v 0.36 maximum.

Soft seat:

0.187-inch [4.8 mm] diameter orifice. Valve C_v 0.83 maximum.

- M6TA Installation Kit consists of 4 bolts ⁷/16-inch -20 x 1-inch A193-B7, 4 washers, and 2 Teflon[®] gaskets.
- 3. The M6TA high pressure extrusion has flanged (integral) instrument and process connections.



Natural Gas Manifolds – M6A, M6T, M6TA Specifications

Standa	ard Materia	ls				
Valve	Seat	Body	Bonnet	Stem	Ball	Flow Washer
CS1	Soft	A105 ²	A108	A581-303	N/A	316
CS1	Integral	A1052	A108	A581-303	17-4PH	N/A
SS	Soft	A479-316	A479-316	A276-316	N/A	316
SS	Integral	A479-316	A479-316	A276-316	316	N/A
SG ³	Soft	A479-316	A479-316	Monel [®] 400	N/A	316
SG3	Integral	A479-316	A479-316	Monel [®] 400	Monel® K500	N/A

Pressure and Temperature Ratings						
Valve	Packing	Seat Material	Standard Bolting	SS Bolting		
CS <i>1</i> , SS, SG <i>3</i> , Monel®	Teflon® O-ring	Delrin® PCTFE ⁴	3000 psig @ 200°F [207 barg @ 93°(C] 3000 psig @ 200°F [207 barg @ 93°C]		
CS1, SS, SG3	Teflon® O-ring	PEEK	6000 psig @ 200°F [414 barg @ 93°(3000 psig @ 300°F [207 barg @ 149°(
Monel®	Teflon [®] O-ring	PEEK	5300 psig @ 200°F ⁵ [365 barg @ 93°(3000 psig @ 300°F [207 barg @ 149°(
CS ¹ , SS, SG ³ , Monel®	Teflon®	Teflon®6	1000 psig @ 150°F [69 barg @ 66°(200 psig @ 500°F [14 barg @ 260°(1 10 1 0 1		
CS <i>1</i> , SS, SG <i>3</i>	Teflon® GRAFOIL® Low Emissions Graphite	Body Material	4000 psig @ 500°F [276 barg @ 260°(C] 3000 psig @ 500°F [207 barg @ 260°C]		
Monel®	Teflon® GRAFOIL® Low Emissions Graphite	Body Material	5300 psig @ 200°F ⁵ [365 barg @ 93°(4000 psig @ 500°F [276 barg @ 260°(

Notes

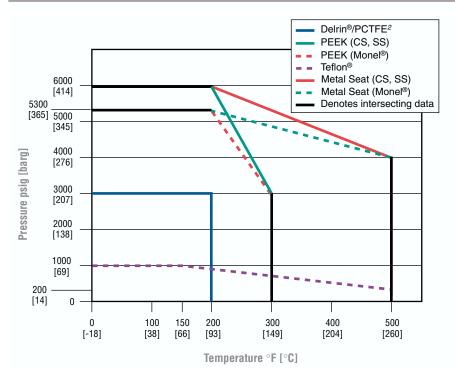
- 1. CS parts are zinc cobalt plated to prevent corrosion.
- 2. M6A body material is A108.
- 3. SG (Sour Gas) meets the requirements of NACE MR0175-latest revision.
- 4. PCTFE (Polychlorotrifluoroethylene) is the exact equivalent of Kel-F[®].
- M6A Monel[®] ratings are: 6000 psig @ 200°F [414 barg @ 93°C] 4000 psig @ 500°F [276 barg @ 260°C].
- 6. Block valves only.

Natural Gas Manifolds – M6A, M6T, M6TA Specifications

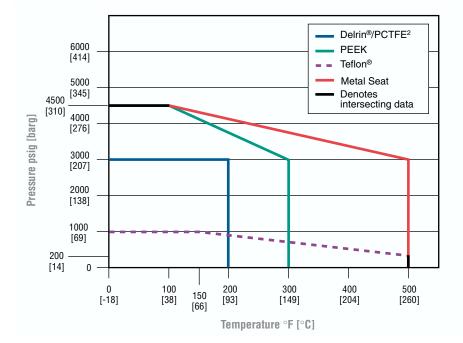
Pressure vs. Temperature – Standard Bolting

Notes

- 1. PCTFE (Polychlorotrifluoroethylene) is the exact equivalent of Kel-F[®].
- M6A Monel[®] ratings are: 6000 psig @ 200°F [414 barg @ 93°C] 4000 psig @ 500°F [276 barg @ 260°C].



Pressure vs. Temperature – SS Bolting



Natural Gas Manifolds

	g Information							Notes
		M6A	/ D	9	6	-4	-SG	1. For Cl Ended numbe as par
Valve Ty	уре							2. M6A is
M6A M6T	 h [4.8 mm] orifice Pipe x Pipe Pipe x Flange Flange x Flange 							3. Availa 4. Availa
Packing	J							
R – O-I H – GF	flon® (patent protected) ring RAFOIL® w Emissions Graphite							
Seat								
Soft: V – Tef D – De E – PE K – PC	EEK	<i>Hard:</i> I – Integra	I (body mat	erial)				
Body M	aterial							
C – CS S – SS	S, A105 ² M – N S, A479-316	1onel [®]						
Process	s Connections							
AT ⁴ – Int	e-inch FNPT tegral Single Ferrule tube fit 3AT ³ /8-inch, 316 SS Ferrule and Nut 4AT ¹ /2-inch, 316 SS Ferrule and Nut	ttings ATD⁴	– 4ATD ¹	/8-inch , Ferrule a	and Nut	ə fitting	gs	
Options	5							
-AM A -BC A -BP A -CL C -HD H -OC C -R3V A -SG S b b	AGCO Mount Kit for 2-inch Accessory bracket for mour Accessory bracket for mour Cleaned for Chlorine Servic Hydrostatic testing - include Cleaned for Oxygen Service Add when mounting to Rose components. Use SS colum Sour Gas meets the required bolts standard, SS mounting packed valves) Static/Test Ports (bottom of	nting conduit w nting purge me es test report (f e. emount® Mode ans for rating. (ments of NACE bolts optional)	ith AGCO N ters with AC MSS-SP-61 el #3051C, 2 M6T, M6TA E MR0175-la (SS valves	lount. GCO Mou 2024, -30 only) atest revis only) (No	int. 95. Spec sion. (B7 ot availab	cify on moun ble for	ting O-ring	

- uple Futbols (NPT and Tubedapter Kits, order by part I within respective tables or CU-Mount[™] Catalog.
- 10L18.
- M6A and M6T only.
- M6T only.