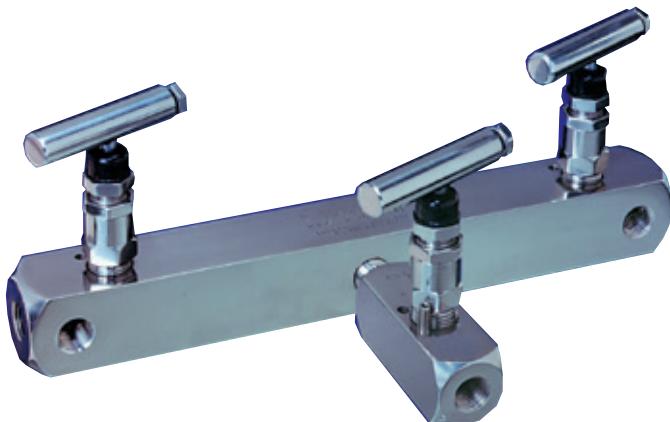


ANDERSON GREENWOOD M19 METER MANIFOLD

A three or five valve harness manifold for use with orifice meters in natural gas service at pressures to 6000 psig (414 barg)



GENERAL APPLICATION

The three-valve manifold is used when the orifice meter is mounted adjacent to the orifice flange and the two process block valves provide convenient closure. The five-valve assembly is for orifice meters remote from the orifice flange union.

TECHNICAL DATA

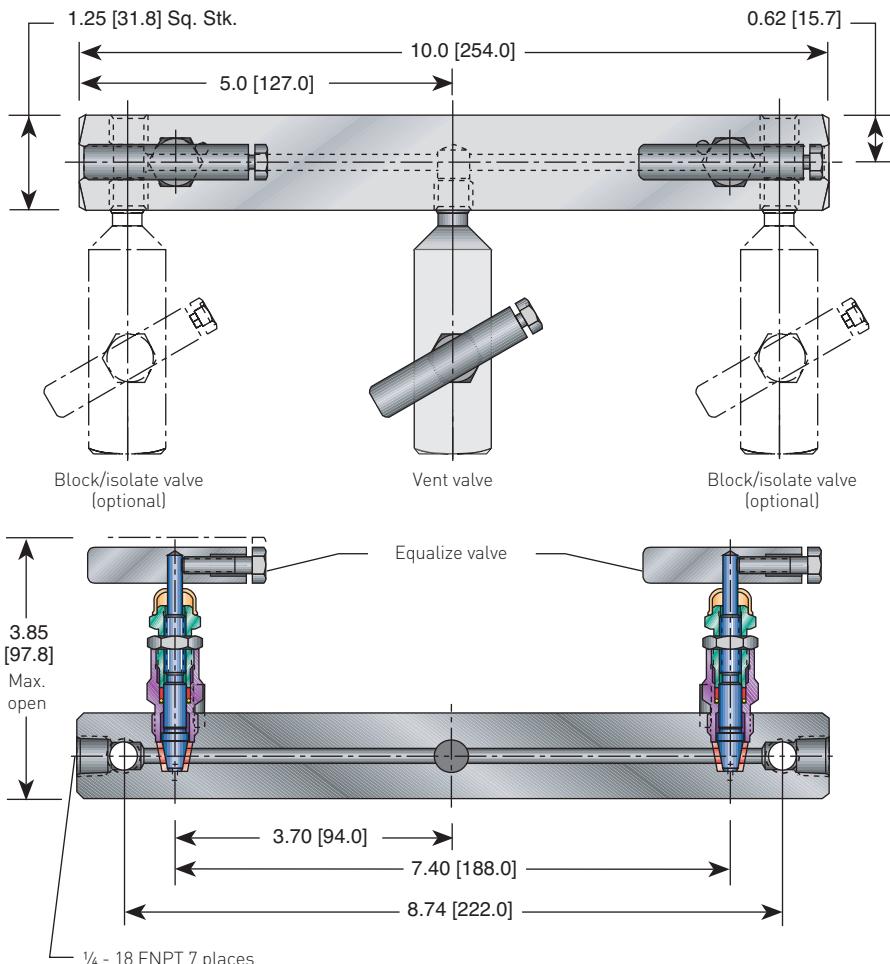
Materials:	CS, SS
Seats:	Soft
Connections	
Instrument:	1/4" NPT
Process:	1/4" NPT
Pressure (max.):	6000 psig (414 barg)
Temperature (max.):	400°F (204°C)

FEATURES

- Soft seat replaceable valve operates in dirty service with repetitive bubble-tight shutoff.
- Packing below threads prevents lubricant washout, thread corrosion, process contamination and eliminates galling.
- Easily adjustable PTFE packing decreases replacement downtime and increases valve life.
- Dust cover protects stem from lubricant contamination.
- Safety back seating prevents stem blowout or accidental removal and provides a metal-to-metal secondary stem seal while in the fully open position.
- ENC plated 316 SS stem prevents galling or freezing of stem threads. CS valves use a 303 SS stem for 'hard-to-soft' contact, to prevent galling.
- Rolled stem and bonnet threads provide additional strength.
- Mirror stem finish in the packing area provides smooth operation and extends packing life.
- Straight-through flow path means high flow capacity, bi-directional flow and rodding capabilities.
- Metal-to-metal body-to-bonnet seal in constant compression prevents bonnet thread corrosion, eliminates possible tensile breakage and gives a reliable seal point.

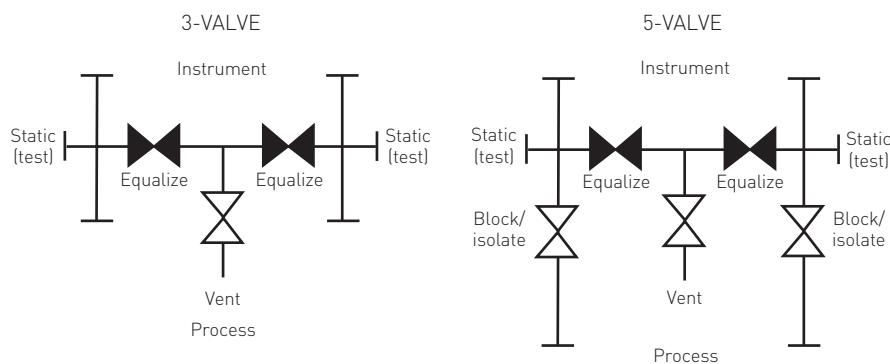
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DIMENSIONS, INCHES [mm]



NOTE

1. Approximate valve weight: 5.5 lb [2.4 kg]. 8.0 lb [3.6 kg] with optional block valves. 0.187-inch [4.8 mm] diameter orifice. Valve C_v 0.83 maximum.



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BONNET ASSEMBLIES

The rodable soft-seated bonnet assemblies have a one-piece rotating stem and plug. The stem threads are rolled and lubricated to prevent galling and reduce operating torque. They are available with a FKM O-ring and PTFE back-up ring or a patented PTFE packing gland, which is adjustable in service. A protective dust cap is fitted to contain stem lubricant and prevent the influx of contaminants. All bonnets are assembled with a bonnet locking pin to prevent accidental removal while in service.

STANDARD MATERIALS

Valve	Body	Bonnet	Stem	Packing	Seat ¹⁾
CS ²⁾	A108 CS	A108 CS	A581-303 SS	FKM O-ring with PTFE backup ring	Delrin®
SS	A479-316 SS	A476-316 SS	A276-316 SS	FKM O-ring with PTFE backup ring	Delrin®
SG ³⁾	A479-316 SS	A479-316 SS	Monel® R405	PTFE	Delrin®

PRESSURE AND TEMPERATURE RATINGS

Seat	Ratings
Delrin® and PCTFE ¹⁾	6000 psig at 200°F [414 barg at 93°C]
PEEK	6000 psig at 200°F [414 barg at 93°C] 2000 psig at 400°F [138 barg at 204°C]
PTFE	1000 psig at 150°F [69 barg at 66°C] 200 psig at 500°F [14 barg at 260°C]

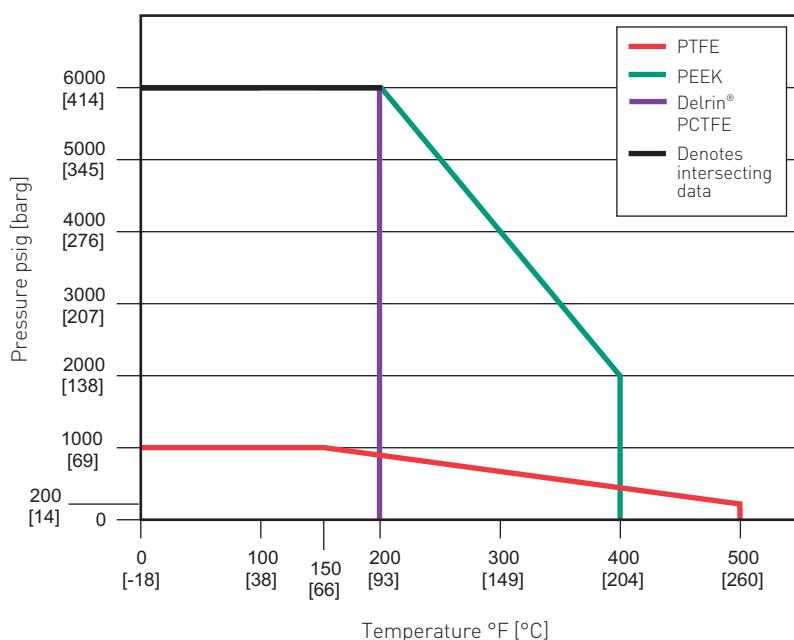
MINIMUM TEMPERATURE

Carbon steel:	-20°F [-29°C]
316 SS O-ring seal:	-20°F [-29°C]
316 SS PTFE Packed:	-70°F [-57°C]

NOTES

1. PCTFE (Polychlorotrifluoroethylene is exact equivalent of Kel-F®), PEEK and PTFE are available.
2. CS is zinc plated to prevent corrosion.
3. SG (Sour Gas) meets the requirements of NACE MR0175-latest revision.
4. Also available with PTFE packing.

PRESSURE VS. TEMPERATURE



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SELECTION GUIDE

Example:	M19	C	T	-H1	-SG
Materials of construction					
C	CS, A108				
S	SS, A479-316				
Configuration					
T	Three-valve				
F	Five-valve				
Vent valve type					
H1					
H5					
Options					
CL00	Cleaned for chlorine service				
OC00	Cleaned for oxygen service				
HD	Hydrostatic testing (100 percent) (MSS-SP-61)				
MS	Monel® stem				
PHB	Phenolic black handle				
SG	Sour Gas meets the requirements of NACE MR0175/ISO 15156 (for chloride conditions < 50 mg/l (ppm)) and NACE MR0103-2005 (SS only)				