

Manifolds

A unique dual rotary-positioned differential pressure transmitter manifold with single handle actuation

General Application

The M20 is uniquely suited for applications with serious space limitations, such as winterizing enclosures, offshore oil production platforms and power plant rack designs. No equalizing valving prevents transmitter overheating. For hazardous process fluids, a dual locking and venting feature assures personnel safety.

TECHNICAL DATA

Materials

316 SS

Seats:

Metal

Connections:

Instrument: Pipe x flanged

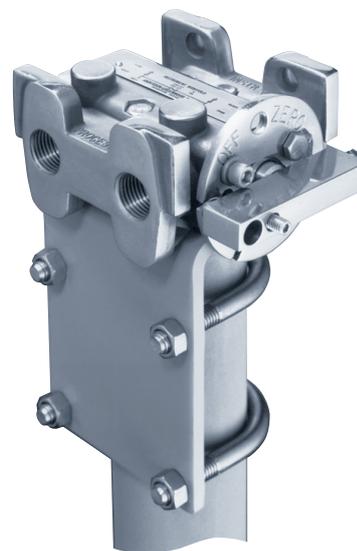
Process: Flanged

Pressure (max):

3000 psig (207 barg)

Temperature range (max):

400°F (204°C)



Features

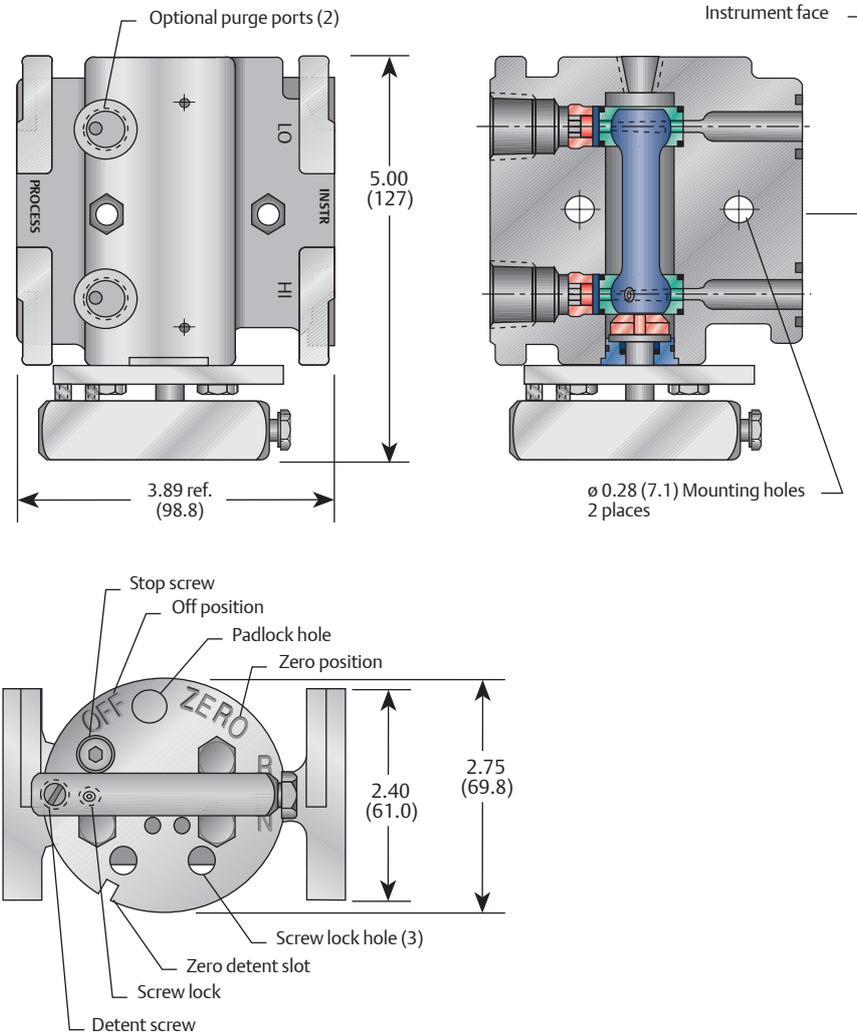
- Enables external transmitter zeroing via single handle.
- Lockable handle may be screw locked in any position or padlocked in OFF position, for personnel safety.
- AG Mount direct pipe stand mounting enables early installation without transmitter and easy instrument removal for maintenance.
- Correct fixed valve sequence ensures accurate transmitter pressurization and zeroing. Port sequencing always admits high side pressure to transmitter first, preventing possible zero shift from reverse over-ranging.
- Safe venting of manifold and instrument cavities protects personnel during maintenance.
- Seal fluids cannot be lost when manipulating to ZERO, RUN or OFF, providing major savings in down time and seal fluids.
- Foolproof manual configuration prevents incorrect transmitter over-ranging and transmitter burn-out due to equalizer valve being left open for flow.

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M20 Dimensions

Dimensions, inches (mm)



Standard Materials

Body and rotary elements	Internals	Seat	Soft goods ^[1]
A351 CF8M/A479-316	316 SS	PEEK	FKM
A351 CF8M/A479-316	316 SS	PTFE	FKM

NOTES

1. Other elastomers available. Consult factory.
2. Approximate valve weight: 5.9 lb (2.7 kg).

Pressure and Temperature Ratings

Body and rotary elements	Seat	Ratings
A351	PEEK	3000 psig at 100°F (207 barg at 38°C)
CF8M/A479-316		225 psig at 400°F (16 barg at 204°C)
A351	PTFE	800 psig at 200°F (55 barg at 93°C)
CF8M/A479-316		225 psig at 400°F (16 barg at 204°C)

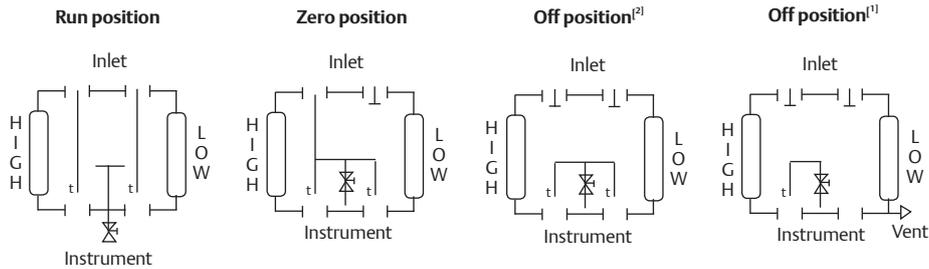


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Operation Sequence

Field calibration (must have M20 with -FC option):

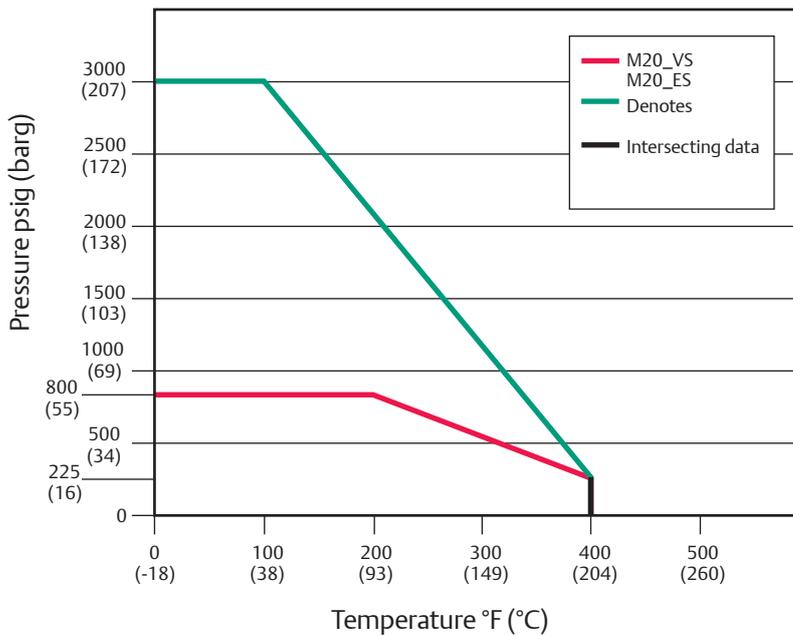
- a. Manifold in 'OFF' position.
- b. Vent low side of instrument (use vent on low side of transmitter).
- c. Apply calibration pressure through field test valve.



NOTES

- 1. Field calibration option (allows transmitter to be calibrated in the field).
- 2. Also zero can vent to atmosphere to remove transmitter.

Pressure vs. Temperature



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Selection Guide

M20	T	E	S	-H1	-FC
BASIC SERIES	CONNECTION STYLE	SEAT	BODY	OPTIONAL DRAIN VALVE	OPTIONS
M20	T 1/2-inch NPT taps x flange	E PEEK	S 316 SS	H1 H1RDS-22	AM AGCO Mount Kit for 2-inch pipe stand mounting of manifold
	A Flange x flange	V PTFE		H5 H5VIS-22	FC Field calibration spindle
					HD Hydrostatic testing (100 percent) (MSS SP-61)
					OC00 Cleaned for oxygen service
					R3V ^[2] Add for use with Rosemount® model 3051C (SS 18-8 bolts)
					SSA ^[2] SS flange bolt (grade 18-8) - maximum pressure rating 4500 psi [310 barg]
					SSB 316 SS flange bolt (B8M Class 2) - will provide full pressure rating
					-SSC ^[2] 316 flange bolt (B8M) - maximum pressure rating 4500 psi [310 barg]
					SG (Sour Gas) meets the requirements of NACE MR0175/ISO 15156 (for Chloride conditions ≤ 50 mg/l [ppm]) and NACE MR0103 (SS valves only) (not available for O-ring packed valves)
					SG3 (Sour Gas) meets the requirements of NACE MR0175/ISO 15156 (for Chloride conditions > 50 mg/l [ppm])

NOTES

- For other materials of construction, consult factory.
- 316 SS bolts lower pressure ratings to a maximum of 4500 psig (310 barg). Consult factory for full ratings with 316 SS bolts.