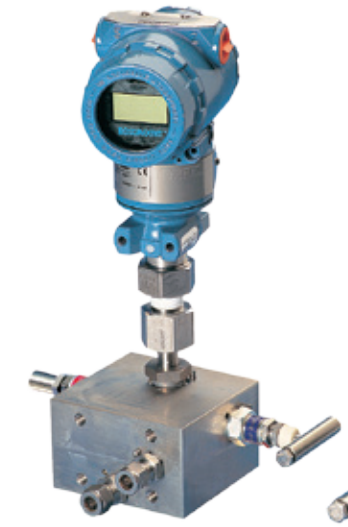
ANDERSON GREENWOOD AS6 INTEGRAL MANIFOLD MOUNTING SYSTEM

The simplest and most effective means to install and calibrate Rosemount® Coplaner™ style transmitters



AS6 2/5

AS6 2/1, 2, 3

GENERAL APPLICATION

AS6 manifolds are designed for use with transmitters on general liquid and gas flow or liquid level measurement. They are all designed to be bolted directly onto a standard Shell mounting plate.

TECHNICAL DATA

Materials:	SS, Monel, Duplex, Hastelloy and other exotic materials
Seats:	Metal
Connections	
Instrument:	½" (15 mm) NPT; G ½" (15 mm) (AS6 2/5 only)
Process:	G ¼"(7 mm)
Pressure (max.):	6000 psig (414 barg)
Temperature (max.):	1000°F (538°C)

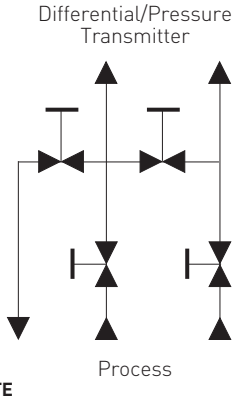
FEATURES

- Compact design reduces installation costs and potential leakage points.
- Process inlet and vent connections supplied G ¼" parallel threaded to DIN 3852 fitted with tube/compression fittings. ¼" NPT female option available.
- Suitable for liquid or gas service.
- Fully self draining.
- Equalize and vent valves fitted with an anti tamper facility.
- Choice of manifold configurations to suit the application:
  AS6 2/1 - Double isolate, equalize, vent
  AS6 2/2 - Double isolate, double vent
  AS6 2/3 - Single isolate, vent/ block
  AS6 2/5 - Single isolate, vent/ block (threaded connections).
- Designed to be generally compatible with Shell M.E.S.C specification 60.98.56. XXX
- NACE /sour gas service option available.
- Choice of accessories:
  Seal pot, filling connectors
  Heater (steam/electric)
  Mounting plate
  Sun shade

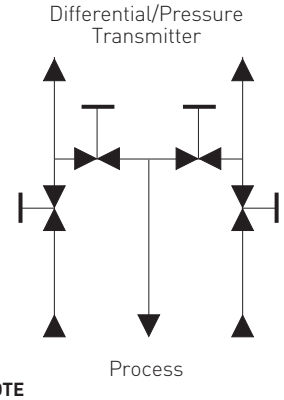
PRODUCT OVERVIEW

Integral mounted AS6 TVIS 2/1, 2, 3
The Integral manifold system provides true direct mounting to the transmitter sensor module, eliminating the need for Coplaner™ or traditional flange adaptors, extra bracketing and minimizing pipework.

They are designed to be used with the following Rosemount® Coplaner™ style pressure/ differential pressure transmitters:
- Model 3051
- Model 2051
- Model 3095 multivariable™ transmitter
- Model 4088 multivariable™ transmitter



NOTE
Approximate weight: 11.46 lb (5.2 kg).



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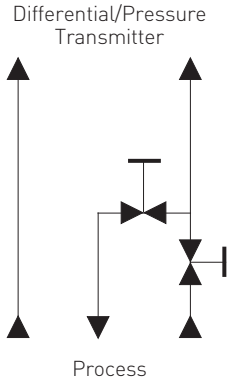


NOTE
Approximate weight: 11.02 lb (5.0 kg).

AS6 TVIS 2/1
A double isolate/equalize/vent block manifold for general liquid and gas flow measurement using DP transmitters. It has been designed to be fitted with a full range of accessories.

Applications
- Differential pressure transmitters.
- Flow measurement.
- Level measurement.
- Integral manifold option of MESC 60.98.56.201 (Type A).

AS6 TVIS 2/2
A double isolate/double vent block for applications with differential pressure transmitters, where contamination of process systems is not permitted.

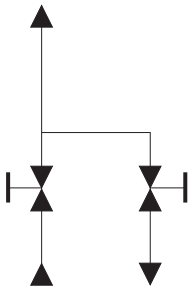
Applications
- Differential pressure transmitters.
- Flow measurement.
- Level measurement.
- Integral manifold option of MESC 60.98.56.201 (Type B).

AS6 TVIS 2/3
A single isolate/ vent block designed for low pressure applications with differential pressure transmitters and level measurement on atmospheric tanks. It can also be used with pressure transmitters of the differential pressure body design and has been designed to be fitted with a full range of accessories.

Applications
- Low pressure differential pressure transmitters.
- Pressure transmitters of the differential body design.
- Level measurement.
- Flow measurement.
- Pressure measurement.
- Integral manifold option of MESC 60.98.56.201 (Types C and D).

NOTES
1. Coplaner™ and multivariable are trademarks of Emerson Process Management
2. Rosemount® is a registered trademark of Emerson Process Management

Pressure transmitter



Process

NOTE

Approximate weight: 11.02 lb (5.0 kg).

Threaded outlet AS6B TVIS 2/5

A compact single isolate/vent block designed for applications with pressure transmitters/gauges using threaded connections, which are made directly into the manifold's standard G ½" female instrument connection. An alternative rotatable adaptor can be provided which allows the instrument to be positioned through 360°.
It is compatible with the following threaded Rosemount® pressure transmitters:
- Model 3051T
- Model 2088
- Model 2051

Applications

- Pressure measurement.
- Pressure transmitters using threaded connections.
- Pressure transmitter options of MESC 60.98.56.301 (Types E, F, G).

NOTES

1. Rosemount® is a registered trademark of Emerson Process Management

BONNET ASSEMBLIES

The metal-seated bonnet assemblies have a rotating stem with free swivel ball-type 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.

The high-temperature bonnet assemblies use a strengthened stem and bonnet incorporating adjustable graphite packing and back-up pressure rings to ensure a leak-free stem seal.

Valve bonnet Anti Tamper facility

STANDARD MATERIALS

Valve	Body	Bonnet	Stem	Ball seat	Non-wetted parts
SS	A479-316SS	316 SS	316 SS	316 SS	Austenitic SS
SG	A479-316SS	316 SS	Alloy 400	Alloy K500	Austenitic SS

Standard material traceability
Standard material traceability to EN10204- 3.1, manifold body only.

Valve packings
PTFE (standard)
Maximum pressure: 6000 psig (413 barg)
Maximum temperature: 500°F (260°C)
Graphite (optional)
Maximum pressure: 6000 psig (413 barg)
Maximum temperature: 1000°F (538°C)

Valve bonnet identification
Dust cap coding

Function ring label
Each valve bonnet is identified with a coloured stainless steel ring label.
Blue - isolate
Green - equalize
Red - vent

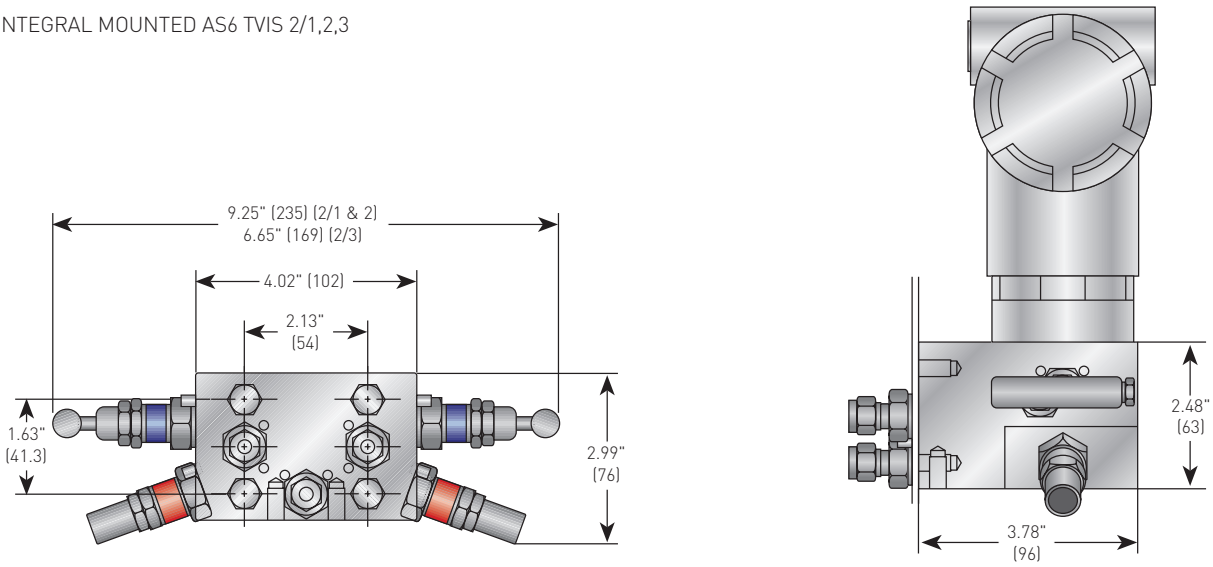
Special materials
For severe service, manifolds are available in the following exotic materials:
Monel® alloy 400
Duplex S31803
Hastelloy® C276
6MO UNS S31254

AT - Anti tamper bonnet
Valve bonnets are available with a removable T-bar key to prevent unauthorized operation of valves.
K - Key for anti tamper bonnet
Valves are available with lockable anti-tamper bonnets which can be supplied for padlocking, providing added security.
LAT - Lockable anti tamper bonnet

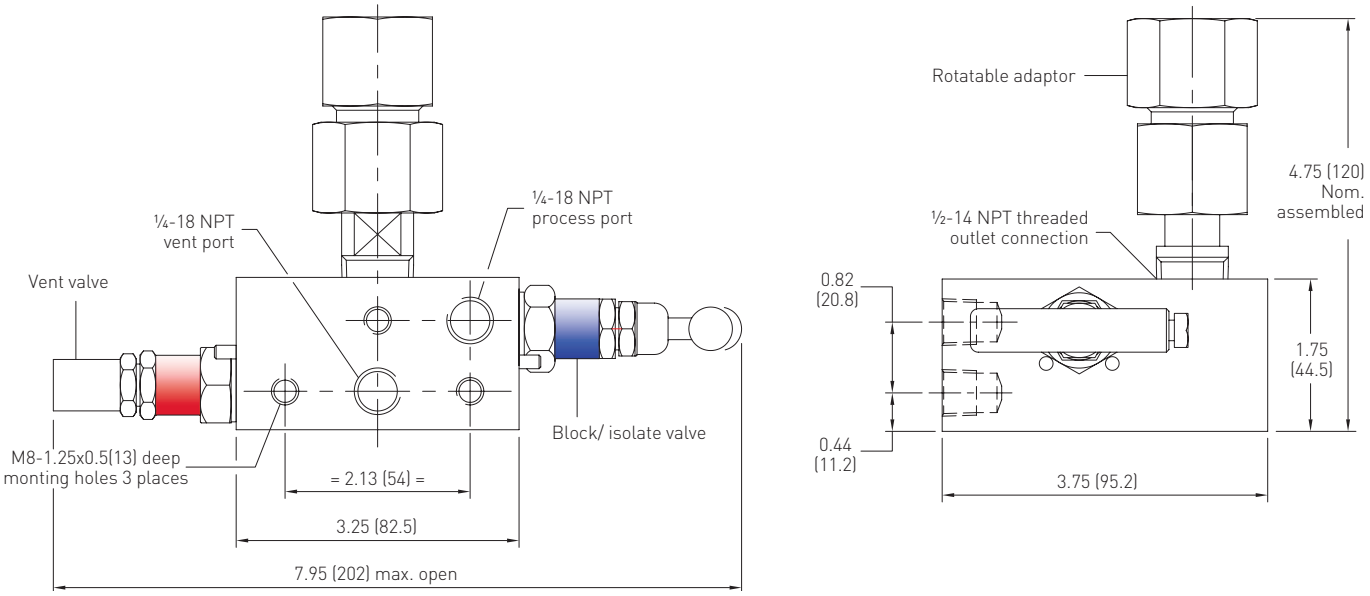
NOTE
Manifold transmitter bolting AS6 2/1, 2, 3
1. Instrument mounting: four 7/16" UNF stainless steel mounting bolts (Grade ASTM A193 B8.2) are supplied as standard.

DIMENSIONS, INCHES (mm)

INTEGRAL MOUNTED AS6 TVIS 2/1,2,3



THREADED OUTLET AS6B TVIS 2/5



ACCESSORIES

FC - Filling connector

BF - Blind flange

SP - Seal pot

VPB - Vent purge block

SELECTION GUIDE - AS6 MANIFOLDS

Example:	AS6T	V	I	S	-2	/ 3	MA4	SG	GY-M
Manifold type									
AS6T Manifold type (/1, /2 and /3)									
AS6BT Manifold type (/5)									
Bonnet packing									
V PTFE									
H GRAFOIL®									
Seal type									
I Integral									
Body material*									
S Stainless steel									
Process/vent connections									
-2 G ¼-inch									
Manifold function									
/1 Double isolate, equalize, vent									
/2 Double isolate, double vent									
/3 Single isolate, vent									
/5 Single isolate, vent									
Instrument connection (AS6 2/5 only)									
MA4 ½-inch NPT male (rotatable adaptor)									
FA4 ½-inch NPT female (rotatable adaptor)									
FA4BSP G ½-inch female (rotatable adaptor)									
Manifold options									
SG Sour gas service									
KEY Anti-tamper bonnet key									

Process/vent connection fittings

GY-M Gyrolok metric (10 mm OD)
GY-I Gyrolok imperial (⅜-inch OD)
SK-M Swagelok metric (10 mm OD)
SK-I Swagelok imperial (⅜-inch OD)
For other makes and sizes - consult factory

NOTE

Compression fitting

1. SK-I can be substituted with SK-M, GY-I, GY-M
   SK-M = Swagelok - Metric 10 mm OD tube
   SK-I = Swagelok - Imperial ⅜-inch OD tube
   GY-M = Gyrolok - Metric 10 mm OD tube
   GY-I = Gyrolok - Imperial ⅜-inch OD tube

* Manifolds are available in Monel® and Hastelloy®. Please consult the factory for availability and delivery.

ACCESSORIES

VPBVIS-S	Vent purge block - single - 316 SS	PP.2.S	Port protector - brass
VPBVIS-D	Vent purge block - double - 316 SS	2S	Sunshade, plastic
SP.2HIS	Seal pot - 316 SS (consult factory)	IL9	GRP enclosure
FC.2S	Filling connector -316 SS	MPA1	Mounting plate for AS6T (316 SS Type A1)
STB-2	Steam block - 316	MPA2	Mounting plate for AS6T (316 SS Type A2)
MH-B4	Electrical heater block - 30 watt	MPB1	Mounting plate for AS6T (316 SS Type B1)
BFS	Blind flange - 316 SS	MPB2	Mounting plate for AS6T (316 SS Type B2)
P.06.S	Orifice plate 6 mm tubing - 316 SS	TTB-1	Transmitter test box - GRP
P.10.S	Orifice plate 10 mm tubing - 316 SS	AT - Key	Anti-tamper key - 316 SS
P.38.S	Orifice plate ⅜-inch OD tubing - 316 SS	KIF	Key interlocking facility - 316 SS (consult factory)