

Technical Information

SmartLine Manifolds Specification 34-ST-03-149, April 2020



Introduction

Honeywell SmartLine Manifolds are a perfect compliment to SmartLine Pressure transmitters to provide factory tested, calibrated and certified equipment for accurate, reliable and safe measurement in process applications.

- Available for entire range of SmartLine Pressure Transmitters
- Block and Bleed models for in-line transmitters
- 2, 3 and 5-valve manifold configurations for dual head AP, GP and DP transmitters
- Wide and compact body styles
- Traditional and wafer style variants
- Available in various materials including NACE compliant materials of construction
- Every unit is factory leak tested
- Available with manifold mounting brackets
- Factory integration option with transmitter for hassle-free experience
- Various certification options
- Full material traceability



6000 psi Pressure Version

PTFE

- Maximum pressure 413 bar (6000 psi) at -40 to 100°C (212°F)
- Maximum pressure 206 bar (3000 psi) at 215°C (420°F)

Graphite

- Maximum pressure 250 bar (3625 psi) at -40 to 100°C (212°F)
- Maximum pressure 155 bar (2250 psi) at 450°C (842°F)

Salient Features

Dual Grade as Standard

 All stainless steel SmartLine manifolds in stainless steel are SS 316/316L dual grade certified. All non-wetted components are SS316/316L

Safety Assured

 Each manifold model is designed to withstand a destructive test of 4 x "Over Pressure" (per ASME VIII, B31.1, B31.3 standards) to ensure reliable and safer operations in the field

User Friendly Design

- The T-bar on valveheads has a hidden screw to enable smooth and hassle-free operation of valves.
- No short handles for effortless valve operation
- Ergonomic valvehead placements to avoid "pinching fingers"

The Valvehead Design

Standard Special (Anti-tamper) Grub Screw Handle Color Coded Dust Cap Pusher _ Lock Nut Stem/Shaft Seal Yoke Packing Seal Tap Bonnet Bonnet Lock Pin • Bonnet Nose Seal Non-Rotating Trim Valve/ Manifold

- Low Operating Torque
- Safety Back Seating of Stem
- Anti Blow-Out Shaft
- Stem Seal below the Threads
- Bonnet Seal located below Threads
- External adjustment of packing seal
- Non-Rotating Trim
- Color Coded Valve Function
- Hidden Tap Handle Locating Screw
- Full Traceability
- Lock Nut

- Bonnet Lock Pin
- Stem dust cap
- Mirror Finish Burnished Stem Seal Surface
- Single Point Machined Threads
- Tap Assembly Tracker Code

Features and Benefits Explained

Safety Back Seating of Stem

This function prevents accidental removal of the stem while in operation. When the tap is in the fully opened position the stem produces a metal to metal secondary back seal, removing continuous pressure from the packing.

Anti Blow-Out Shaft

Reduces risk of injury as the shaft will be contained in the unlikely event of a shaft thread failure due to unforeseen circumstances.

Stem Seal below the Threads

This isolates the stem threads from the process media, preventing thread corrosion and keeps solids from entering the thread area which can cause galling. It also isolates the thread lubricant from the process, preventing process contamination as well as lubricant washout.

Bonnet Seal located below Threads

A metal to metal seal is utilized to provide a positive seal that maintains its effectiveness even at high temperatures. This seal is located below the bonnet threads isolating them from the process media.

Bonnet Lock Pin

All taps are secured by a Bonnet lock pin. These pins are machined from billet rather than using a roll pin. The result is a shouldered bonnet lock pin that is knurled on the insertion point.

Non-Rotating Trim

This stops galling or damage to the seat face by not allowing the trim to rotate while lifting off, and seating down on, the seating surface. For added security the trim is produced from billet rather than using a sphere (pure ball) as a ball does not have polarity. This ensures the trim can only rotate around the same axis as the stem.

Single Point Machined Threads

Produces high accuracy threads as opposed to tapping.

100% Pressure Tested

Each manifold is tested with nitrogen gas to a minimum of 750 psi. Hydrostatic testing at 1.5 x MAWP is also available as an option.

External adjustment of packing seal

The stem seal can be easily adjusted insitu, without any disassembly of the valve or manifold.

Stem dust cap

Protects stem threads against contaminants in the atmosphere.

Color Coded Valve Function

Tap function easily identifiable through color coded dust caps.

Full Traceability

All components are fully traceable back to source.

Locknut

Ensures safe operation under high vibration conditions.

Seal Yoke

The high precision yoke provides good encapsulation and integrity of the stem seal.

Hidden Tap Handle Locating Screw

This improves the feel to the user when operating the tap as there are no sharp edges or protruding bolts.

Mirror Finish Burnished Stem Seal Surface

The face where the seal contacts the stem is burnished to a mirror like finish. This reduces operating torque and extends the life of the seal.

Tap Assembly Tracker Code

All taps are assembled with a tracker code to ensure 100% traceability.

Valvehead Materials

Across SmartLine manifolds, all wetted components of the valvehead are produced from the same material grade as the manifold body. When special alloys are used, the non-wetted components will be produced from 316/316L SS. Below is a list of a few common materials to illustrate the list of materials used. Care should be taken to specify the correct material for the process media and conditions.

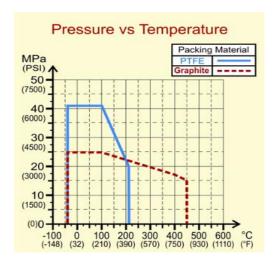
			Ma	nifolds E	Body Materia	al of Con	struction			
Valvehead Component	SS 316/316L t Dual Certified			Hastelloy® C-276	Duplex stainless steel W Nr: 1.4462		Inconel 625	Monel® 400	Carbon Steel (ASTM A105)	
Bonnet	SS		SS 316/316 L Dual Certified	SS 316/316 L Dual Certified	Hastelloy® C-276	Duplex stainless				CS (ASTM A105)
Shaft/Stem	316/316L Dual Certified	Hastelloy ® C-276	Hastelloy® C-276	Monel® 400	Hastelloy® C-276	steel W Nr:	Hastelloy® C-276	Inconel 625	Monel® 400	SS 304
Trim	Cortiniod		Hastelloy® C-276	Monel® 400	Hastelloy® C-276	1.4462				SS 304 Tungsten Carbide Ball
Pusher										CS (ASTM A105)
Yoke										CS (ASTM A105)
Handle				SS	S 316/316 L					CS (ASTM A105)
Grub Screw										SS 304
Bonnet Lock Pin										SS 304
Lock Nut										SS 304
Dust Cap				UV St	abilized Nylon	- Color Co	oded			
Packing Seal					PTFE or G	raphite				
Manifold Mounting Bracket	Available as an option in Carbon Steel or SS 316 for all manifolds, suitable for 2" pipe mounting									

Process wetted components
Non-wetted components
Manifold Mounting Bracket

^{*} Monel® 400 or UNS N04400.

^{**} Hastelloy® C-276 or UNS N10276.

Pressure / Temperature Ratings



Materials Certificates, Testing and Traceability

Material Certificates and Traceability

Each SmartLine manifold body is permanently marked with an alphanumeric traceability code called assembly A-number.

Furthermore, the individual valveheads are pre-assembled and get their own traceability code marked onto them before being installed into the manifold bodies. These codes link each component to manufacturing, assembly and mill test reports (MTR's).

The A-Number is stored in our ISO 9001 quality management system and corresponds to our Material Certificate Register (MCR).

An MCR is supplied with every order to the customer. This document gives a list of the corresponding material batch numbers and grades for all wetted components used to assemble that specific batch of manifolds. Along with this MCR, mill test reports (MTR's) are also supplied in a mini data book.

All SmartLine manifolds carry permanent markings of complete model code (including material of construction, certificates etc.), pressure and temperature ratings and a logic diagram.

The material of construction marking pertains to all the wetted components in the valve/manifold.

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Testing and Quality Control

All components undergo 100% size testing during the manufacturing process. From there the components will be assembled into the final product which gets pressure tested to confirm correct operation. To keep to the highest possible standard, 100% of the finished products are tested.

Honeywell's standard testing procedure conforms to MSS-SP-99*. Each manifold is tested in such a way that every valve seat in the manifold, as well as every valvehead's stem packing and bonnet to body seal is checked. This test utilizes pressurized nitrogen gas at a minimum of 750 psi (MSS-SP-99 only requires 80 psi). Honeywell does not permit any leakage at all through the seat or the stem packing during testing.

The results are then recorded, and a report compiled.

Refer to the Model Selection Guide section (Table 4) for the available certificate options.

* For code applications where a hydrostatic 1.5X overpressure shell test needs to be performed, Honeywell uses the MSS-SP-105 testing procedure. This testing is done on special request.

Specifications

Manufacturing Standards and Compliance

SmartLine Manifolds are designed, manufactured and tested to the highest possible standards and can have the following standards and regulations applied as required:

ASME BPVC VIII Div 1	ASME Boiler Pressure Vessel Code Section 8 Division 1
ASME B31.1	Power Piping
ASME B31.3	Process Piping
ASME B16.34	Valves Flanged, Threaded
ISO 9001:2008	Certified Quality System
MSS-SP-99	Instrument Valves
MSS-SP-105	Instrument valves for code applications
MSS-SP-25	Standard marking system for valves, fittings, flanges and unions
MSS-SP-61	Hydrostatic testing of steel valves
NACE	National Association of Corrosion Engineers
NACE MR0175 / ISO 15156	Materials for use in H2S-containing environments in oil and gas production
NACE MR0103	Materials Resistant to Sulfide Stress Cracking in Corrosive Petroleum Refining Environments
NORSOK M650	Qualification of manufacturers of special materials
EN 10204 3.1 or 3.2	Mill Test Reports
ASME B1.20.1	General Pipe Threads or high tolerance thread
ASTM A182	Forged or Rolled Alloy - Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High Temperature Service
ASTM A276	Standard Specification for Stainless Steel Bars and Shapes
ASTM A479	Stainless Steel Bars and Shapes for Use in Boilers and other Pressure Vessels
SANS 347	Categorization and conformity assessment criteria for all pressure equipment
P.E.R	Pressure Equipment Regulations (South Africa)
P.E.D	Pressure Equipment Directive (Europe)
CSA B 51.03 CRN	Canadian Standards Association (CRN (CSAB51.03)
CRN*	Canadian Registration Number
-	

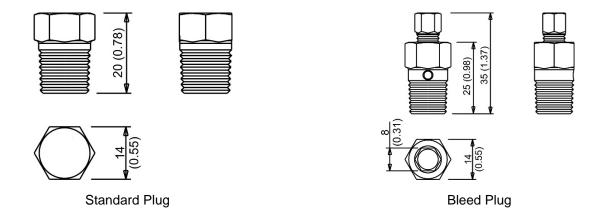
^{*}CRN Registration in Process

Pressure Equipment Directive (P.E.D 97/23/EC) (Europe)

Due to internal bore size and internal volumes up to and including 1"/25mm, products offered in this catalogue comply with S.E.P (Sound Engineering Practice) article 3, paragraph 3 of the Pressure Equipment Directive P.E.D 97/23/EC and therefore CE marking is not applicable.

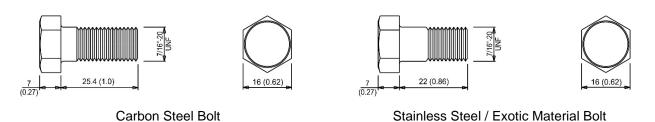
Vent / Bleed Port Plugs

Following vent / bleed / test port plug options are available in matching material of construction of manifolds.

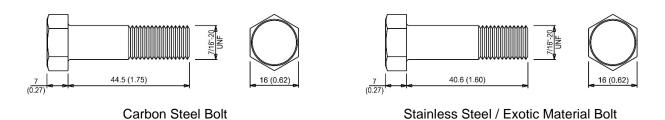


Bolts

Bolts for Traditional Style Manifolds (Wide / Compact Bodies)



Bolts for Wafer Style Manifolds



Manifold Section

All designs are available with anti-tamper taps. An anti-tamper key (see Accessories list) shall be ordered separately whenever manifolds are ordered with anti-tamper taps..

Single Block and Bleed Manifolds



Process connection:

½" NPT Female

Transmitter Connection:

1/2" NPT Male

Vent/ Bleed / Drain Location:

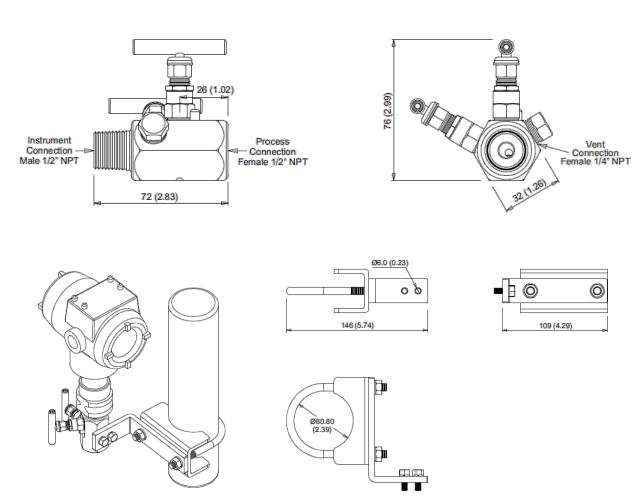
Side

Approximate Weight:

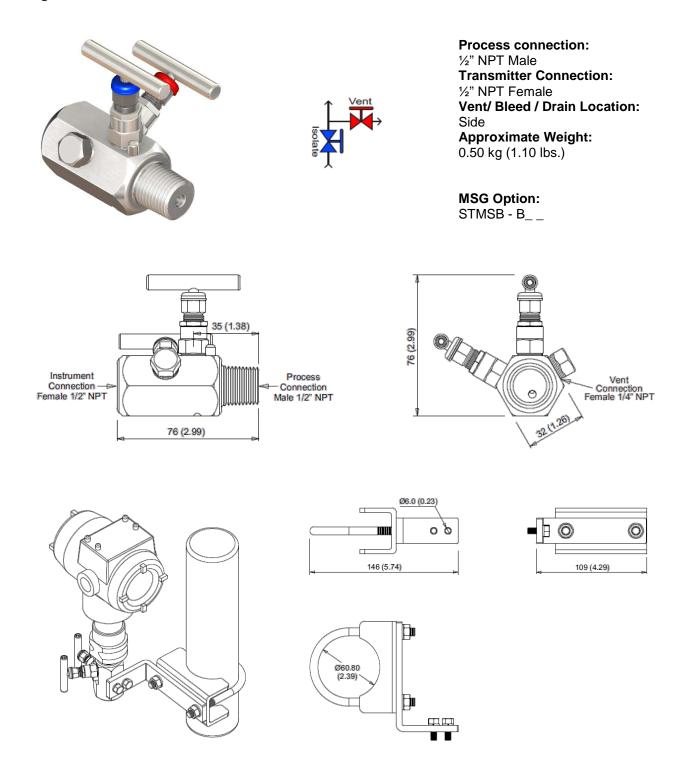
0.50 kg (1.10 lbs.)

MSG Option:

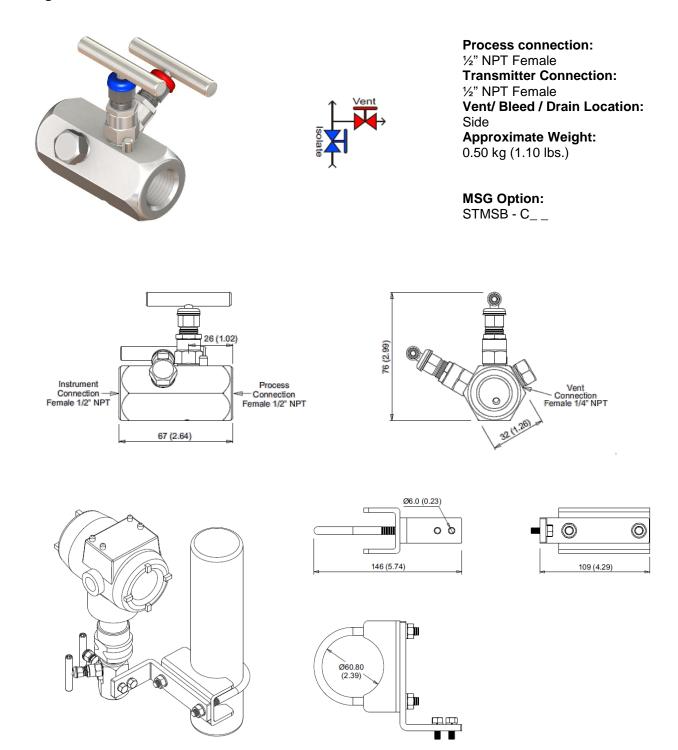
STMSB - A _ _



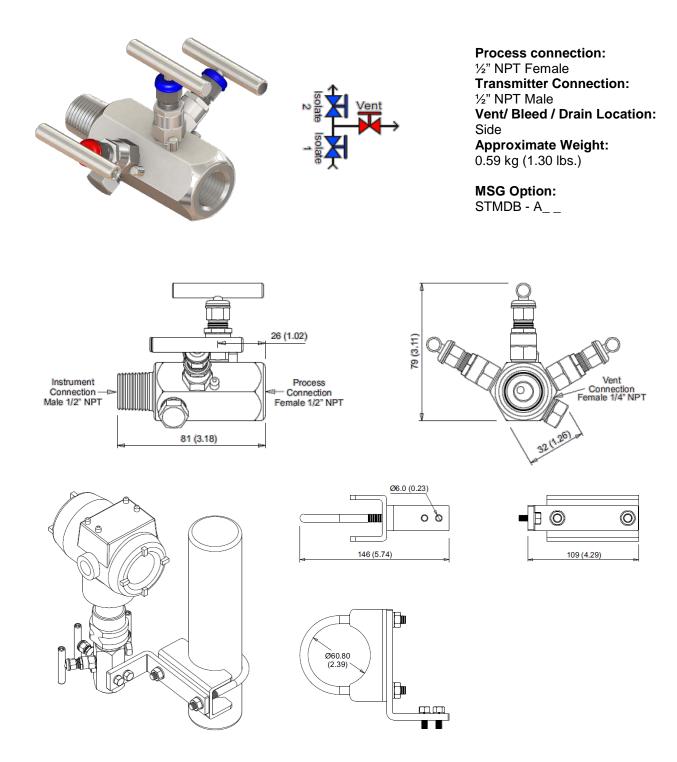
Single Block and Bleed Manifolds



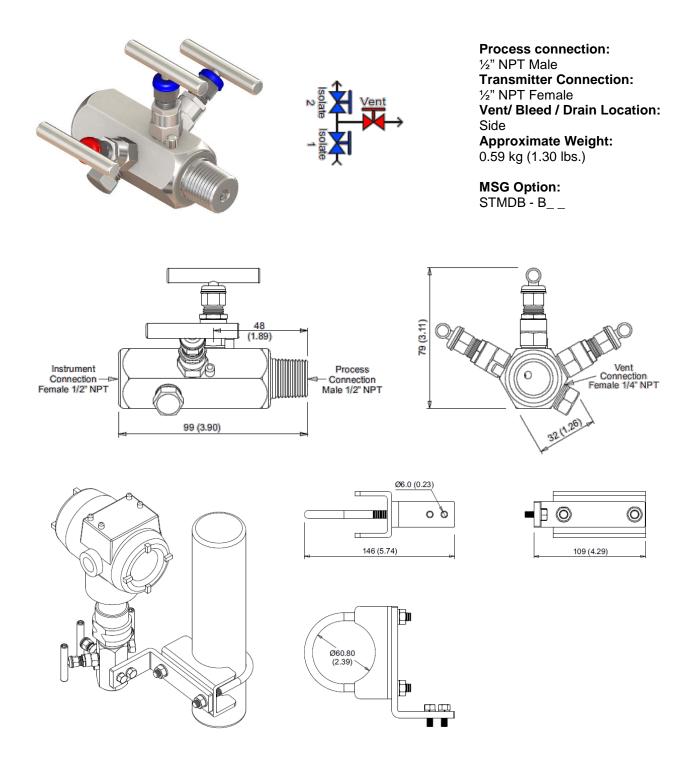
Single Block and Bleed Manifolds



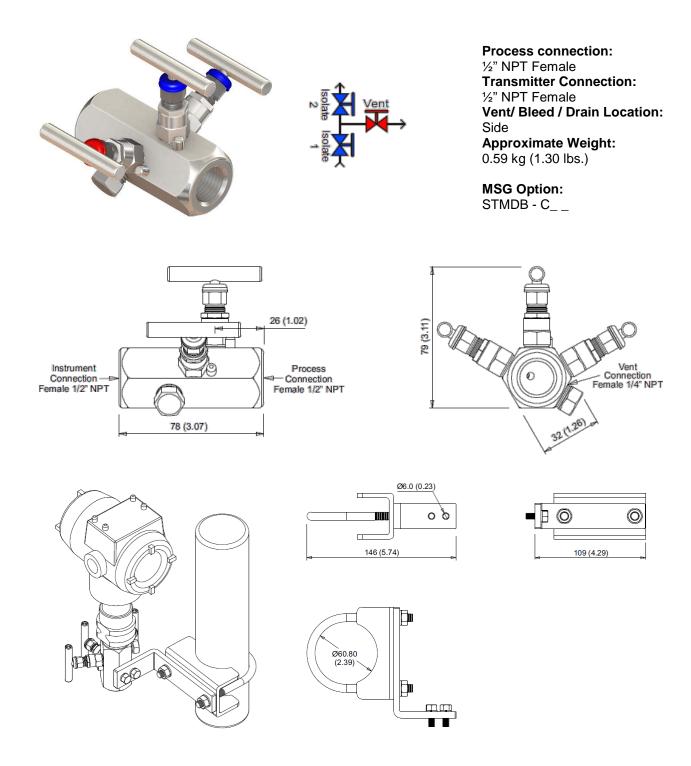
Double Block and Bleed Manifolds



Double Block and Bleed Manifolds



Double Block and Bleed Manifolds



2 Valve Wide Liquid Level Manifold



Process connection:

1/2" NPT Female

Transmitter Connection:

Flanged

Vent/ Bleed / Drain Location:

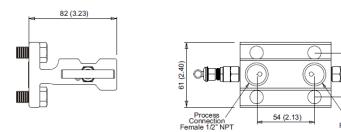
N/A

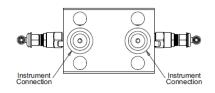
Approximate Weight:

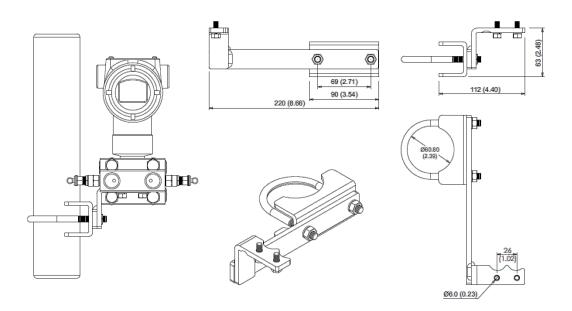
1.45 kg (3.19 lbs.)

MSG Option:

STMD2 - D_ _

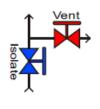






2 Valve Compact Body Manifold





Process connection:

1/2" NPT Female

Transmitter Connection:

Flanged

Vent/ Bleed / Drain Location:

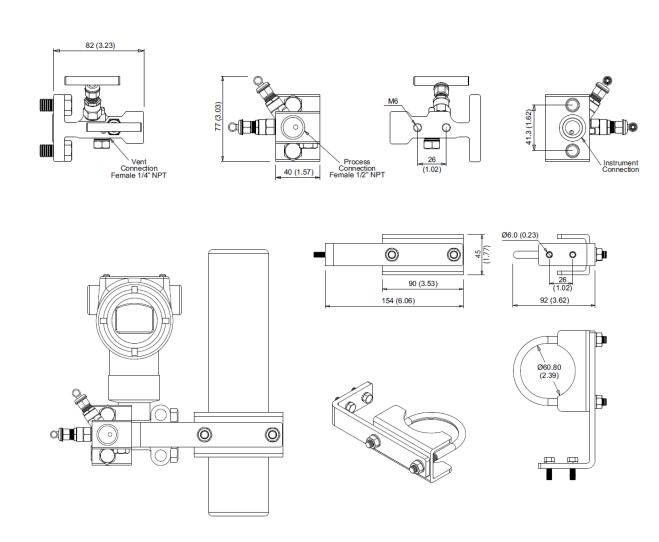
Bottom

Approximate Weight:

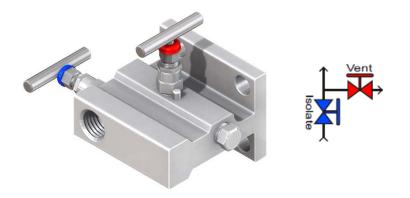
0.80 kg (1.76 lbs.)

MSG Option:

STMD2 - E _ _



2 Valve Wide Body Manifold



Process connection:

1/2" NPT Female

Transmitter Connection:

Flanged

Vent/ Bleed / Drain Location:

Side

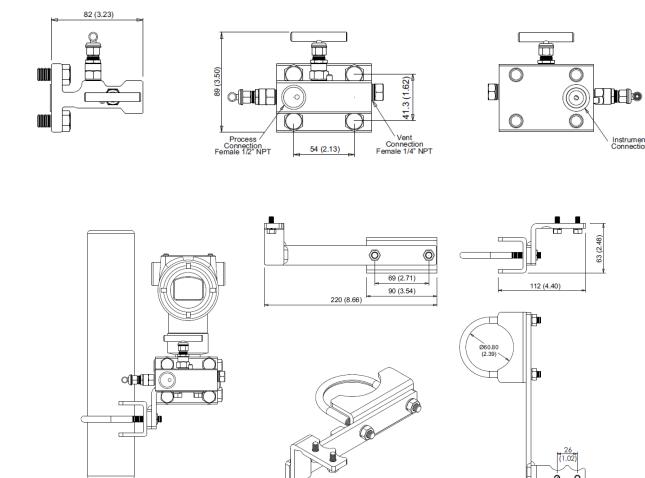
Approximate Weight:

1.4 kg (3.08 lbs.)

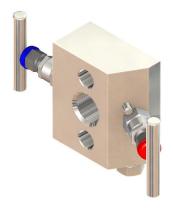
MSG Option:

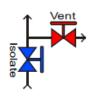
STMD2 - F _ _

Ø6.0 (0.23)



2 Valve Wafer Style Manifold





Process connection: ½" NPT Female

Transmitter Connection:

Flanged

Vent/ Bleed / Drain Location:

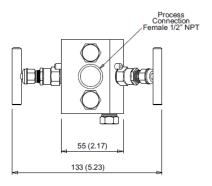
Bottom

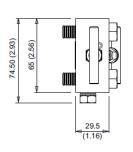
Approximate Weight:

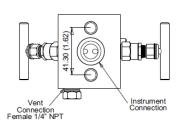
1.40 kg (3.08 lbs.)

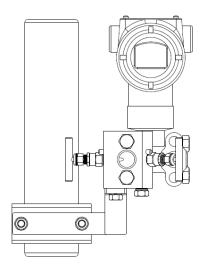
MSG Option:

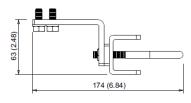
STMD2 - G _ _

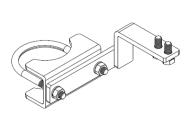


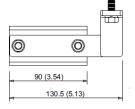


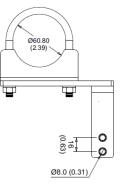




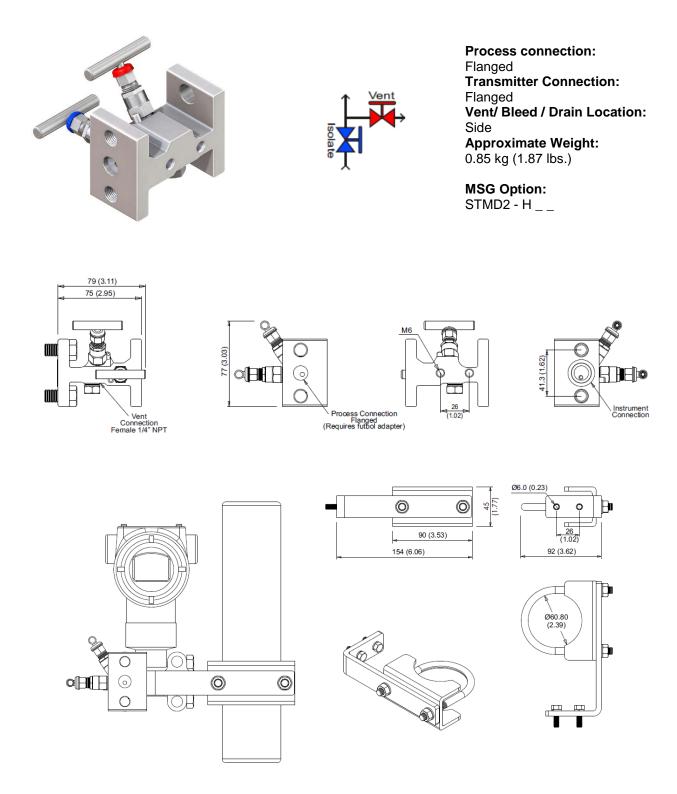




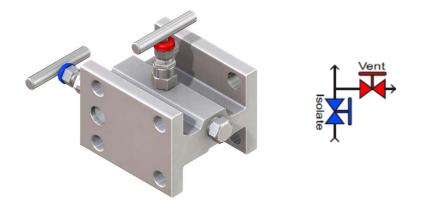




2 Valve Compact Body Manifold (Flange X Flange)



2 Valve Wide Body Manifold (Flange X Flange)



Process connection:

Flanged

Transmitter Connection:

Flanged

Vent/ Bleed / Drain Location:

Side

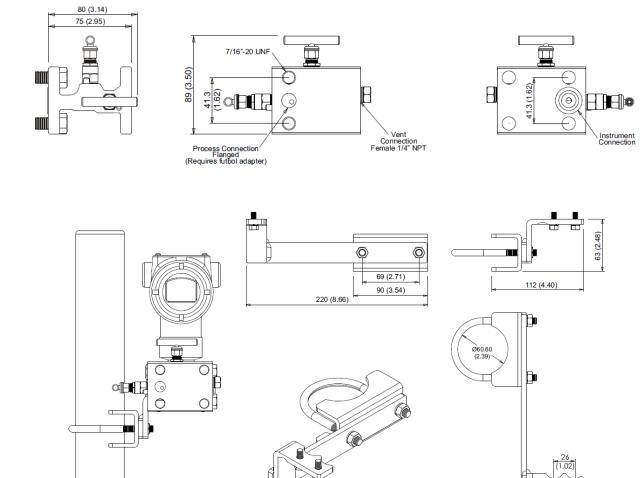
Approximate Weight:

Ø6.0 (0.23)

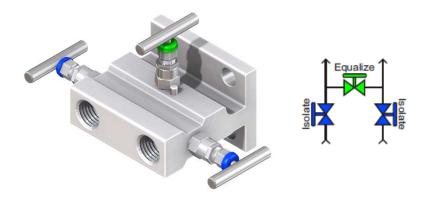
1.5 kg (3.30 lbs.)

MSG Option:

STMD2 - J__



3 Valve Wide Body Manifold



Process connection:

1/2" NPT Female

Transmitter Connection:

Flanged

Vent/ Bleed / Drain Location:

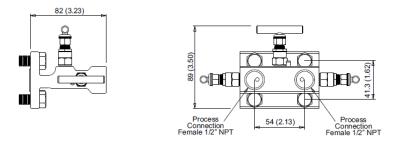
N/A

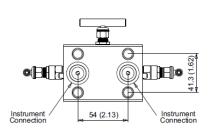
Approximate Weight:

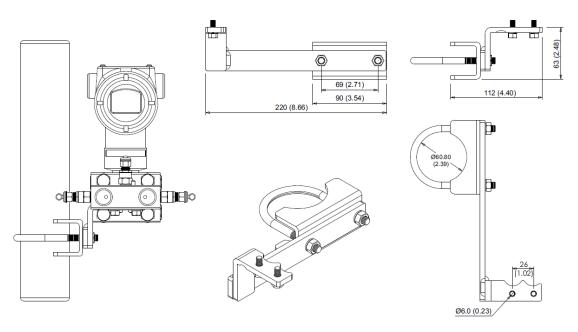
1.65 kg (3.63 lbs.

MSG Option:

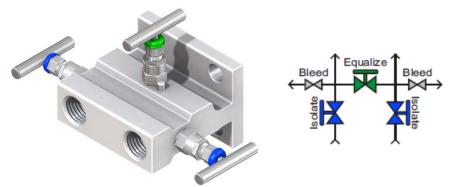
STMD3 - K _ _







3 Valve Wide Body Manifold with Bleed Ports



Process connection:

1/2" NPT Female

Transmitter Connection:

Flanged

Vent/ Bleed / Drain Location:

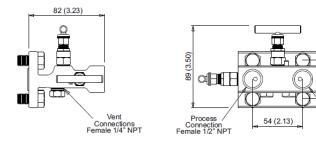
Bottom

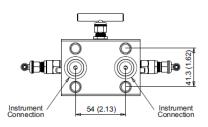
Approximate Weight:

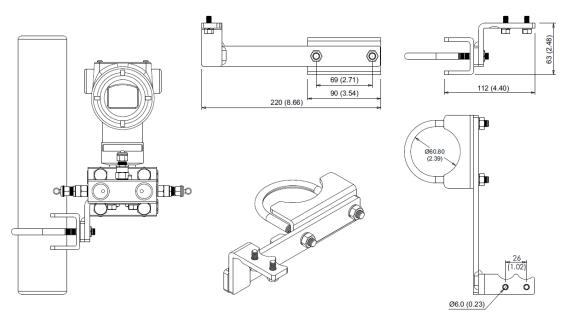
1.65 kg (3.63 lbs.)

MSG Option:

STMD3 - L _ _

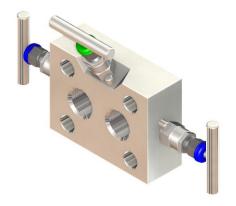


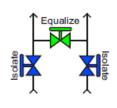




Process Connection Female 1/2" NPT

3 Valve Wafer Style Manifold





Process connection: 1/2" NPT Female **Transmitter Connection:**

Flanged

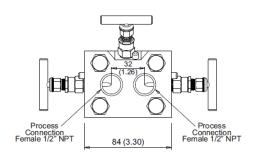
Vent/ Bleed / Drain Location:

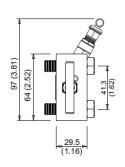
Approximate Weight:

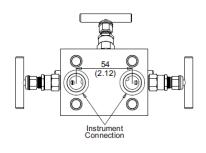
1.52 kg (3.34 lbs.)

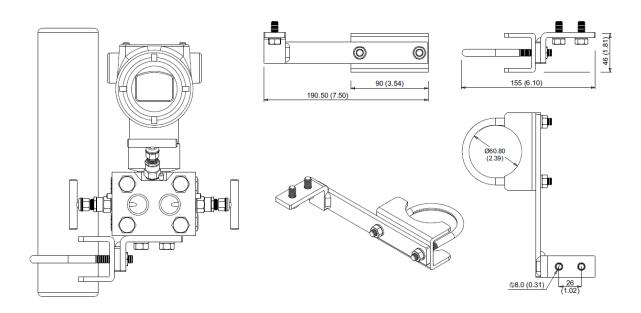
MSG Option:

STMD3 - M _ _





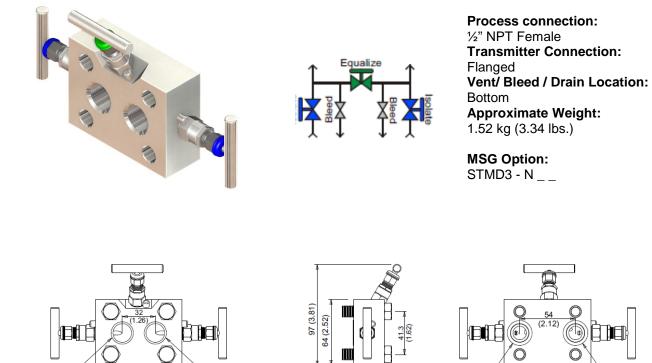


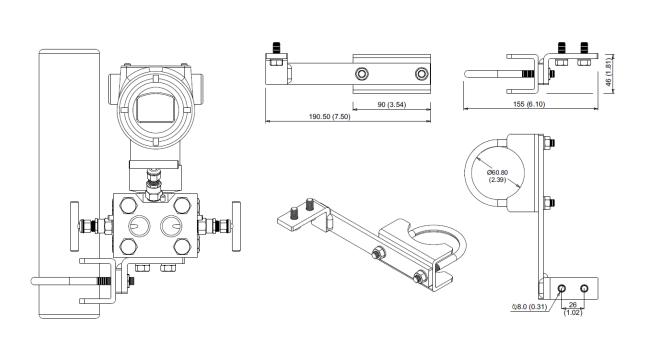


Process Connection Female 1/2" NPT 84 (3.30)

Process Connection Female 1/2" NPT Instrument Connection

3 Valve Wafer Style Manifold with Bleed Ports



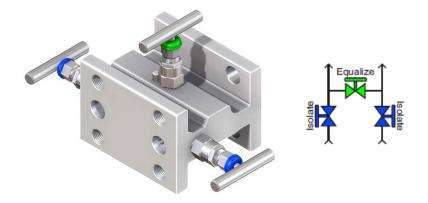


Instrument Connection

Vent

Connections Female 1/4" NPT

3 Valve Wide Body Manifold (Flange X Flange)



Process connection:

Flanged

Transmitter Connection:

Flanged

Vent/ Bleed / Drain Location:

NI/A

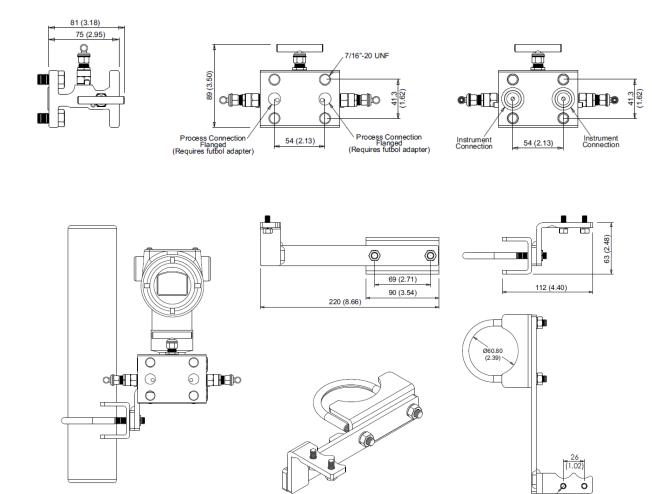
Approximate Weight:

Ø6.0 (0.23)

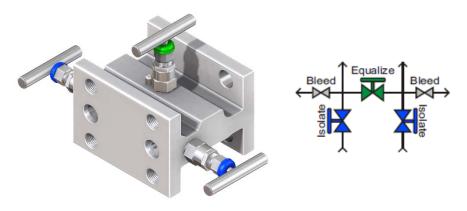
1.75 kg (3.85 lbs.)

MSG Option:

STMD3 - O _ _



3 Valve Wide Body Manifold (Flange X Flange) with Bleed Ports



Process connection:

Flanged

Transmitter Connection:

Flanged

Vent/ Bleed / Drain Location:

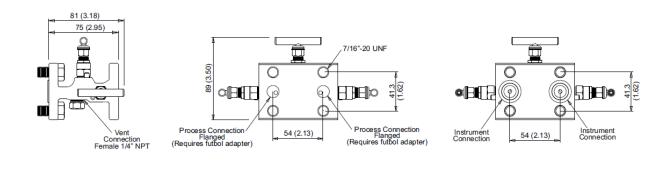
Bottom

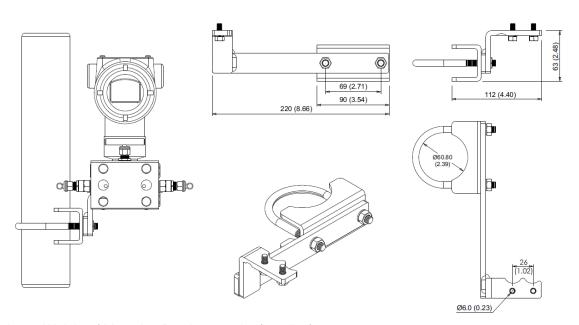
Approximate Weight:

1.75 kg (3.85 lbs.)

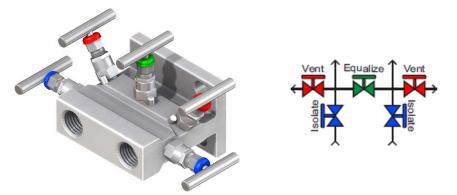
MSG Option:

STMD3 - P _ _





5 Valve Wide Body Manifold with Bleed Port at Bottom



Process connection:

1/2" NPT Female

Transmitter Connection:

Flanged

Vent/ Bleed / Drain Location:

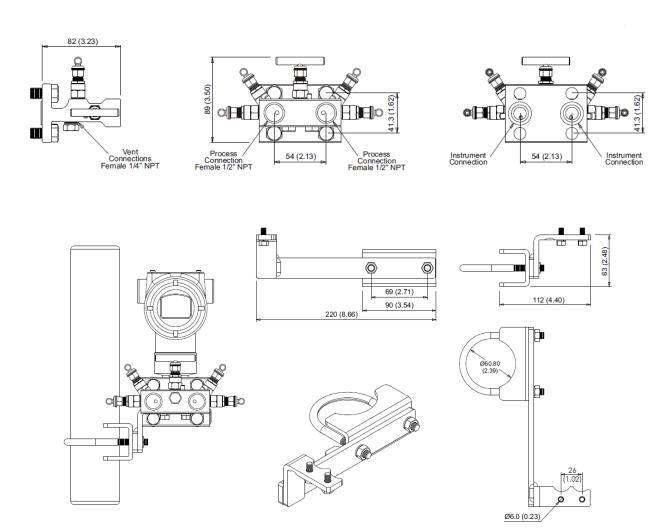
Bottom

Approximate Weight:

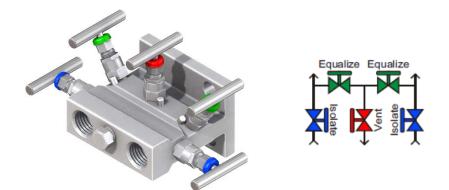
1.70 kg (3.74 lbs.)

MSG Option:

STMD5 - Q _ _

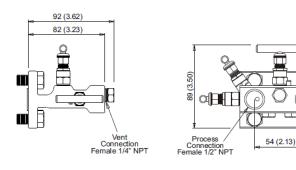


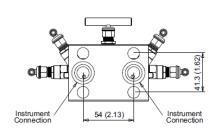
5 Valve Wide Body Manifold with Bleed Port at Front

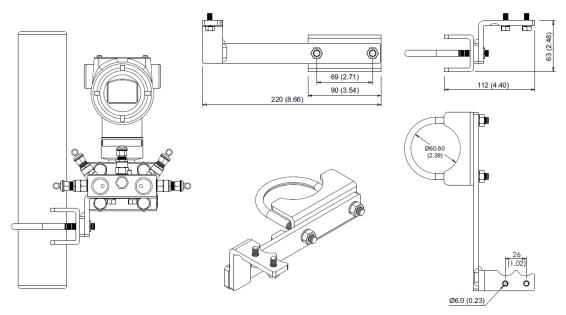


Process connection:
1/2" NPT Female
Transmitter Connection:
Flanged
Vent/ Bleed / Drain Location:
Front
Approximate Weight:
1.70 kg (3.74 lbs.)

MSG Option: STMD5 - R _ _

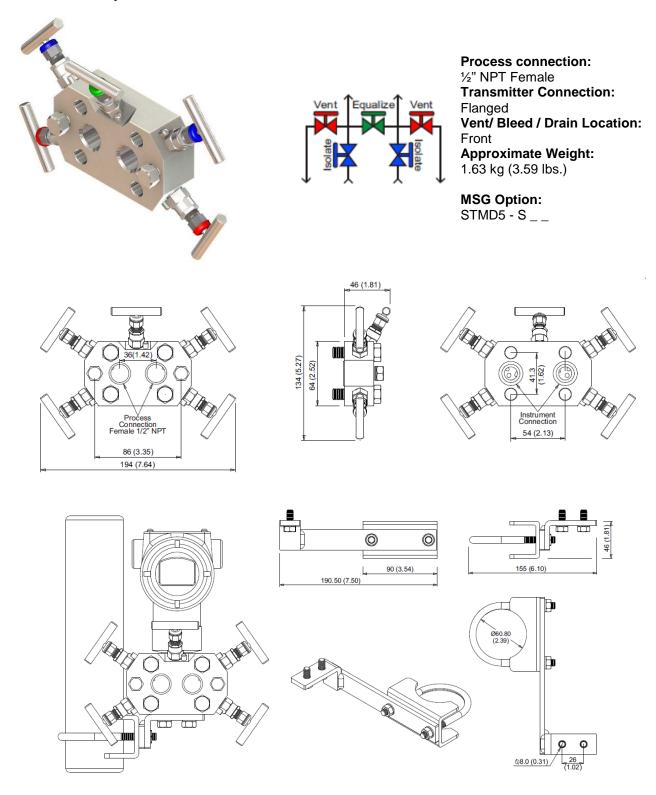




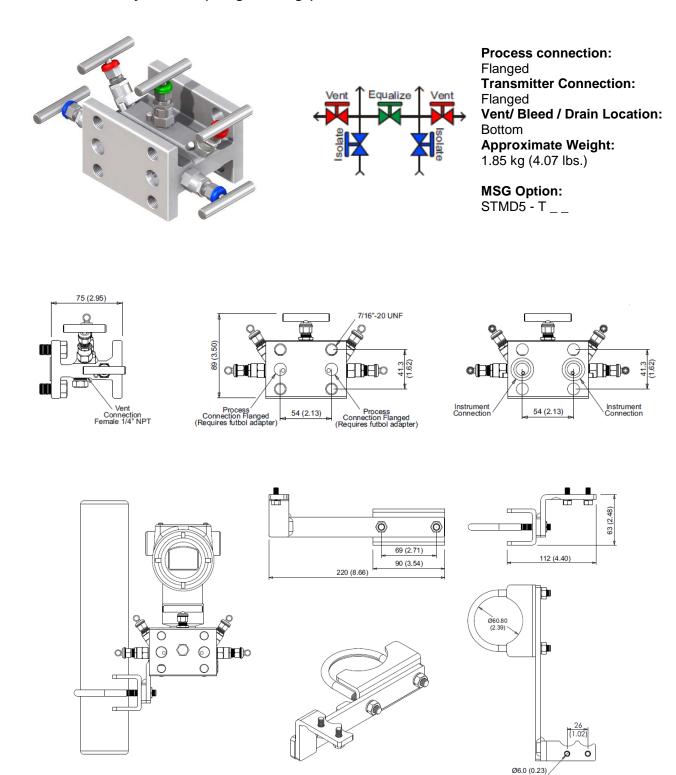


Process Connection Female 1/2" NPT

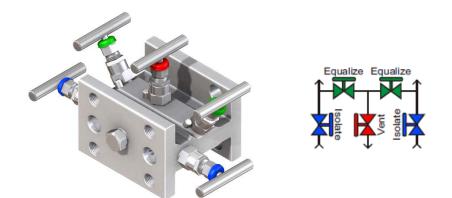
5 Valve Wafer Style Manifold



5 Valve Wide Body Manifold (Flange X Flange) with Bleed Port at Bottom



5 Valve Wide Body Manifold (Flange X Flange) with Bleed Port at Front



Process connection:

Flanged

Transmitter Connection:

Flanged

Vent/ Bleed / Drain Location:

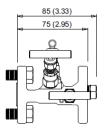
Front

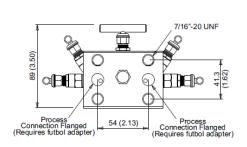
Approximate Weight:

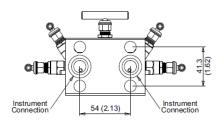
1.85 kg (4.07 lbs.)

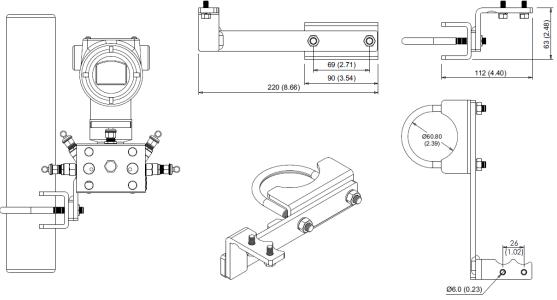
MSG Option:

STMD5 - U _ _









Model Selection Guide

The Model Selection Guide is subject to change and is inserted into the specification as guidance only.

Model STM SmartLine Manifolds

Model Selection Guide:

34-ST-16-126 Issue 2

Key Number	Description	For transmitters	Selection	Availability	
	2 valve single block and bleed	Inline	STMSB	Ψ	
	2 valve double block and bleed	Inline	STMDB] ↓	
Manifold type	2 valve Manifold	Dual Head	STMD2] ↓	
	3 valve Manifold	Dual Head	STMD3] ↓	
	5 valve Manifold	Dual Head	STMD5		₩

Table 4		Manifold Style and Configuration									
Table	e 1	Body Type	Process connection	Transmitter connection	Vent/Bleed/Drain Location(Note 3)						
	INLINE AP	Block & Bleed (single or double blocks)	1/2" NPT (Female)	1/2" NPT (Male)	Side	A	*	*			
	AND GP	Block & Bleed (single or double blocks)	1/2" NPT (Male)	1/2" NPT (Female)	Side	B	*	*			
	ONLY	Block & Bleed (single or double blocks)	1/2" NPT (Female)	1/2" NPT (Female)	Side	C	*	*			
	DP ONLY	Wide(Liquid level)	1/2" NPT (Female)	Flanged (Note 7)	NA	D			*		
	DHAP AND	Compact	1/2" NPT (Female)	Flanged (Note 7)	Bottom	E			*		
	DHGP	Wide	1/2" NPTF	Flanged (Note 7)	Side	F			*		
	ONLY	Wafer	1/2" NPT (Female)	Flanged	Bottom	G			*		
		Compact	Flanged (See Note 8)	Flanged (Note 7)	Side	H			*		
		Wide	Flanged (See Note 8)	Flanged (Note 7)	Side	J			*		
a. Manifold		Wide	1/2" NPT (Female)	Flanged (Note 7)	NA	K				*	
configuration		Wide	1/2" NPT (Female)	Flanged (Note 7)	Bottom	L				*	
		Wafer	1/2" NPT (Female)	Flanged	NA	M				*	
		Wafer	1/2" NPT (Female)	Flanged	Bottom	N				*	
		Wide	Flanged (See Note 8)	Flanged (Note 7)	NA	0				*	
	DP ONLY	Wide	Flanged (See Note 8)	Flanged (Note 7)	Bottom	P				*	
		Wide	1/2" NPT (Female)	Flanged (Note 7)	Bottom	Q					*
		Wide	1/2" NPT (Female)	Flanged (Note 7)	Front	R					*
		Wafer	1/2" NPT (Female)	Flanged	Front	S					*
		Wide	Flanged (See Note 8)	Flanged (Note 7)	Bottom	T					*
		Wide	Flanged (See Note 8)	Flanged (Note 7)	Front	U					*
h Dooking/Coo	drat Material	Teflon ® (Virgin PTFE) packing and gask	tet (See Note 4, 5, 6)			_1_	*	*	*	*	*
b. Packing/ Gas	sket wateriai	Grafoil (Graphite) packing and gasket (S	ee Note 4, 5, 6)			_ 2_	*	*	*	*	*
		Body	Bonnet	Shaft/Stem	Trim						
			SS 316/316 L Dual certified	SS 316/316 L Dual certified	SS 316/316 L Dual certified	A	*	*	*	*	*
		SS 316/316 L Dual certified	Hastelloy® C-276*	Hastelloy® C-276*	Hastelloy® C-276*	B	*	*	*	*	*
		55 316/316 L Duai certified	SS 316/316 L Dual certified	Hastelloy® C-276*	Hastelloy® C-276*	C	*	*	*	*	*
			SS 316/316 L Dual certified	Monel® 400**	Monel® 400**	D	*	*	*	*	*
c Material of c	onetruction	Carbon Steel (ASTM A105)	CS (ASTM A105)	SS 304	SS 304	E	*	*	*	*	*
c. material of constituction		Carbon Steel (ASTM ATOS)	CS (ASTM A105)	SS 304	Tungsten Carbide Ball	F	*	*	*	*	*
		Hastelloy® C-276*	Hastelloy® C-276*	Hastelloy® C-276*	Hastelloy® C-276*	G	*	*	*	*	*
		Duplex stainless steel W Nr: 1.4462	Duplex stainless steel W Nr: 1.4462	Duplex stainless steel W Nr: 1.4462	Duplex stainless steel W Nr: 1.4462	H	*	*	*	*	*
		Duplex stalliless steel W N. 1.4402	Hastelloy® C-276*	Hastelloy® C-276*	Hastelloy® C-276*	J	*	*	*	*	*
		Inconel 625	Inconel 625	Inconel 625	Inconel 625	L	*	*	*	*	*
		Monel® 400**	Monel® 400**	Monel® 400**	Monel® 400**	M	*	*	*	*	*

Model Selection Guide continued ...

Table 2	Manifold bolts, tap and plug selection	Selection	Avail	ability	1
	No Bolts	0	* *		
	Carbon steel bolts	C		С	С
a. Bolt material	SS 316/316 L	\$		k k	k
	Grade 660 (NACE A286) Bolts	N		k k	k
	Monel ® bolts	M		n m	m
h Diug tuno	1/4" standard plug (OR NO PLUG IF MANIFOLD DOES NOT HAVE PLUG PORTS) (See note 2)	_\$_	* *	* *	*
b. Plug type	1/4" bleed plug (See note 3)	_B_	* *	d n	*
c. Tap options	All taps standard "T" bar	1	* *	* *	*
	All taps anti-tamper (Anti-tamper key 50154757-502 shall be ordered separately.)	2	* *	* *	*

Table 3	Brackets					
Mounting Bracket for the	None Mounting bracket Carbon Steel	0	*	* *	t t	*
, ,	Mounting bracket SS	2	*	* 6	f	*

Table 4	Other Certifications & Options					
	None - No Additional Options	00	*	* *	*	*
	Over-Pressure Leak Test Certificate (1.5X MAWP)	TP	*	* *	*	*
	NACE MR0175; MR0103; ISO15156 Process wetted parts only	FG	g	g	g	g
Ocatifications Ocations	NACE MR0175; MR0103; ISO15156 Process wetted and non-wetted parts	F7	h	h h	h	h
Certifications & options	EN10204 Type 3.1 Material Traceability (default per heat code) Only one supplied per heat code	FX	*	* *	*	*
(Note1)	Certificate of Conformance (default per heat code) Only one supplied per heat code	F3	*	* *	*	*
	PMI Certification (PMI Test for Manifold Body only)	P1	*	* *	*	*
	PMI Certification (PMI Test for Process wetted components) (Testing of individual components: Manifold Body, Bonnet, Stem, Trim)	P2	*	* *	*	* D
	Cert Clean for O2 (Oxygen Cleaning and Certification)	OX	j	j j	j	j

Table 5	Accessory Preference (may represent different choices of lead times, approvals and dimensions)*	
Preference	Option X	1 * * * * *
Table 6	Manufacturing Specials	
Factory	Factory Identification	0000 * * * * *

^{*} For additional information, contact your Honeywell Account Manager or Honeywell Authorized distributor

Model Selection Guide continued ...

Accessories
Certificate of Origin (One per order)
Futbol Adapter 1/2" NPT-F IEC61518 316 SS PTFE - Qty. 2
Key for anti tamper taps - 304 SS - QTY 1
Bolt Kit - Traditional - Carbon Steel - QTY 4
Bolt Kit - Traditional - 316 SS - QTY 4
Bolt Kit - Traditional - Grade B8M - QTY 4
Bolt Kit - Traditional - Monel ® - QTY 4
Bolt Kit - Wafer - Carbon Steel - QTY 4
Bolt Kit - Wafer - 316 SS - QTY 4
Bolt Kit - Wafer - Grade B8M - QTY 4
Bolt Kit - Wafer - Monel ® - QTY 4
Gasket Kit - PTFE - QTY 2
Gasket Kit - Grafoil (Graphite) - QTY 2
Bracket Kit - Traditional - Compact Body - 316 SS
Bracket Kit - Traditional - Wide Body - 316 SS
Bracket Kit - InLine (common) - 316 SS
Bracket Kit - InLine (common, extra strength) - 316 SS
Bracket Kit - Traditional - Compact Body - Carbon Steel
Bracket Kit - Traditional - Wide Body - Carbon Steel
Bracket Kit - InLine (common) - Carbon Steel
Bracket Kit - InLine (common, extra strength) - Carbon Steel
Bracket Kit - Wafer - 3 and 5 Valve - 316 SS
Bracket Kit - Wafer - 3 and 5 Valve - Carbon Steel
Bracket Kit - Wafer - 2 Valve - 316 SS
Bracket Kit - Wafer - 2 Valve - Carbon Steel

	Restrictions							
Restriction	Availa	able only with		Not available with				
Letter	Table	Selection	Table	Selection				
С			1c	G, H, J, L, M				
d			1a	D				
е			1a	G				
е			1c	G, H, J, L, M				
f			1a	N				
g			1c	E, F, H, J, L, M				
h			1c	E, F, H, J, L, M				
"			2a	C, S,M				
j	1b	_1_						
k			1c	E, F				
m	1c	M						
n			1a	K, M, O				
b		Select or	nly one option from	this group				

Notes:					
1	Customer needs to order same set of certification for integrated version while selecting the transmitter.				
2	Plug material is the same as the manifold body material if the manifold has plug ports.				
3	Vent/Bleed/Drain connection size is 1/4 Inch NPT F				
4	Block and Bleed (Inline GP and AP) valves do not require gaskets, therefore they are not supplied.				
5	6000 psi Standard Pressure Version PTFE Packing Maximum Pressure 413 bar (6,000 psi) at -30 to 100 deg C (212 deg F) Maximum Pressure 206 bar (3,000 psi) at 215 deg C (420 deg F) GRAPHITE Packing Maximum Pressure 413 bar (6,000 psi) at -30 to 100 deg C (212 deg F) Maximum Pressure 155 bar (2,250 psi) at 450 deg C (842 deg F)				
6	For process temperature greater than 340 F (170 C), grafoil packing needs to be used.				
7	Flange thickness as per IEC 61518 Type B				
8	Requires IEC 61518 Type B Futbol adapter 51156563-5XX. Please refer to the Accessories list to identify the matching material of the adapter to the manifold.				

Kit Number	
50127432-506	
51156563-501	
50154757-502	
50154755-501	
50154755-502	
50154755-503	
50154755-504	
50154755-505	
50154755-506	
50154755-507	
50154755-508	
50154756-501	
50154756-502	
50136042-507	
50136042-508	
50136042-504	
50136042-505	
50136042-522	
50136042-523	
50136042-519	
50136042-520	
50136042-502	
50136042-517	
50136042-510	
50136042-525	

Sales and Service

For application assistance, current specifications, ordering, pricing, and name of the nearest Authorized Distributor, contact one of the offices below.

ASIA PACIFIC

Honeywell Process Solutions, Phone: +800 12026455 or +44 (0) 1202645583 (TAC) hfs-tac-

support@honeywell.com

Australia

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Honeywell Korea Co Ltd Phone: +(822) 799 6114 Fax: +(822) 792 9015

EMEA

(TAC)

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Email: (Sales)

FP-Sales-Apps@Honeywell.com or

hfs-tac-support@honeywell.com

AMERICAS

Honeywell Process Solutions, Phone: (TAC) (800) 423-9883 or (215) 641-3610 (Sales) 1-800-343-0228

Email: (Sales)

FP-Sales-Apps@Honeywell.com

or (TAC)

hfs-tac-support@honeywell.com

For more information

To learn more about SmartLine Transmitters, visit www.honeywellprocess.com
Or contact your Honeywell Account Manager

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