



# Instrument Manifolds

## ***Index***

### General Purpose Manifolds

Overview	1
2-Valve	2
3-Valve	4
5-Valve	6
Mounting kits	8

### Special Application Manifolds

Trifold 3-Valve	9
Rotofold 3-Valve	12
Pentafold 5-Valve	15
Mounting kits	17



*instrument manifolds*

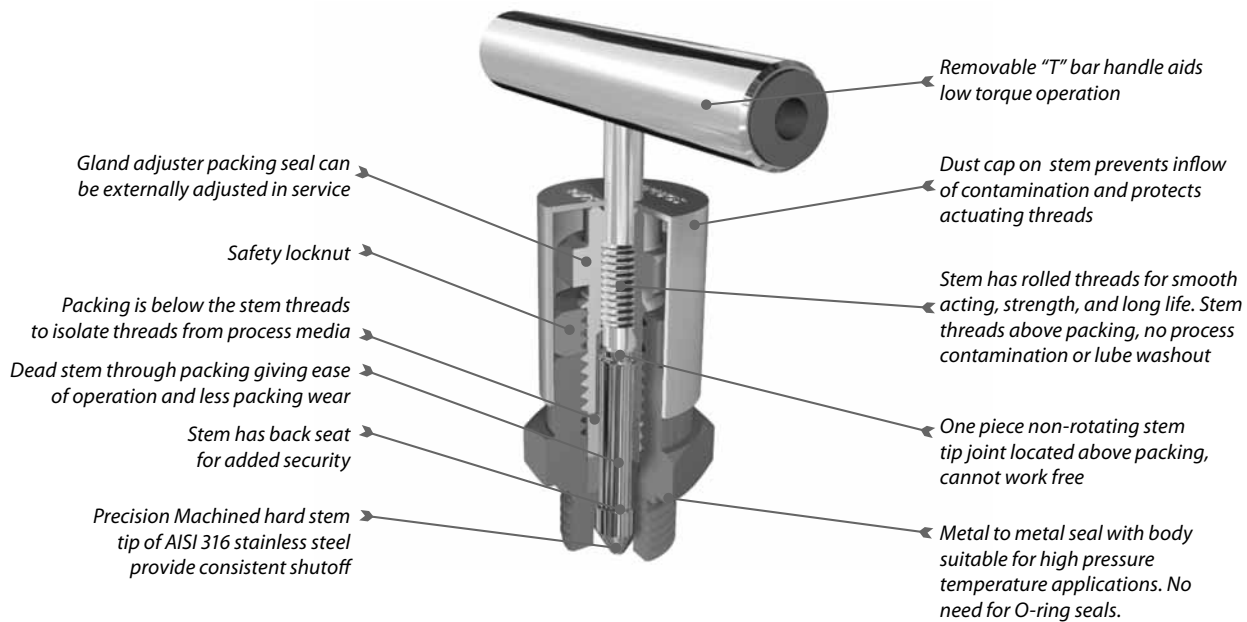


## General Purpose Instrument Manifolds at a Glance

Hoke offers a variety of 2-, 3-, and 5-valve instrument manifolds in direct and remote mount styles with vent configurations to meet most flow, pressure, and level measurement application requirements. Hoke 2-valve manifolds are designed for static pressure and liquid level applications; the 3- and 5-valve manifolds are well suited for use with most differential pressure transmitters and can accept both female and flange process impulse line connections.

## Valve Features

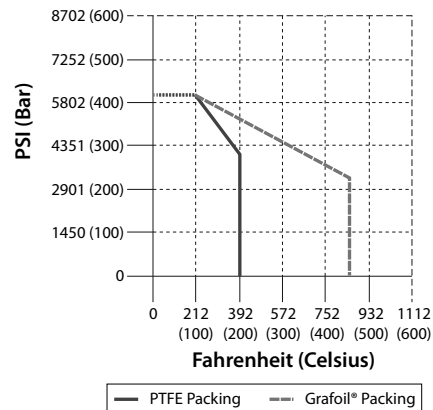
All valves are hydrostatically tested at 1.5X maximum working pressure to assure leak tight performance. Stem packing is available in PTFE or Grafoil® materials with the metal non-rotating stem tip offered as standard.



## Pressure vs. Temperature Curves

<b>PTFE PACKING*</b>	Maximum pressure 6000 psi (413 bar) at 212° F (100° C)
	Maximum pressure 4000 psi (275 bar) at 392° F (200° C)
<b>GRAFOIL® PACKING</b>	Maximum pressure 6000 psi (413 bar) at 212° F (100° C)
	Maximum pressure 3300 psi (230 bar) at 842° F (450° C)

\* PTFE packing rated to maximum temperature of 392° F (200° C)



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instrument manifolds

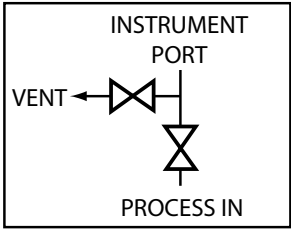
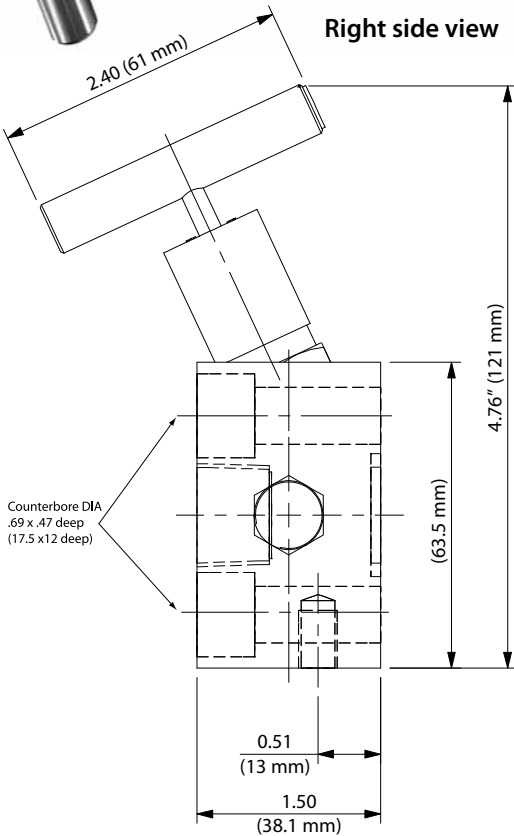
# 2-Valve General Purpose Manifold-Direct Mount

## Dimensions

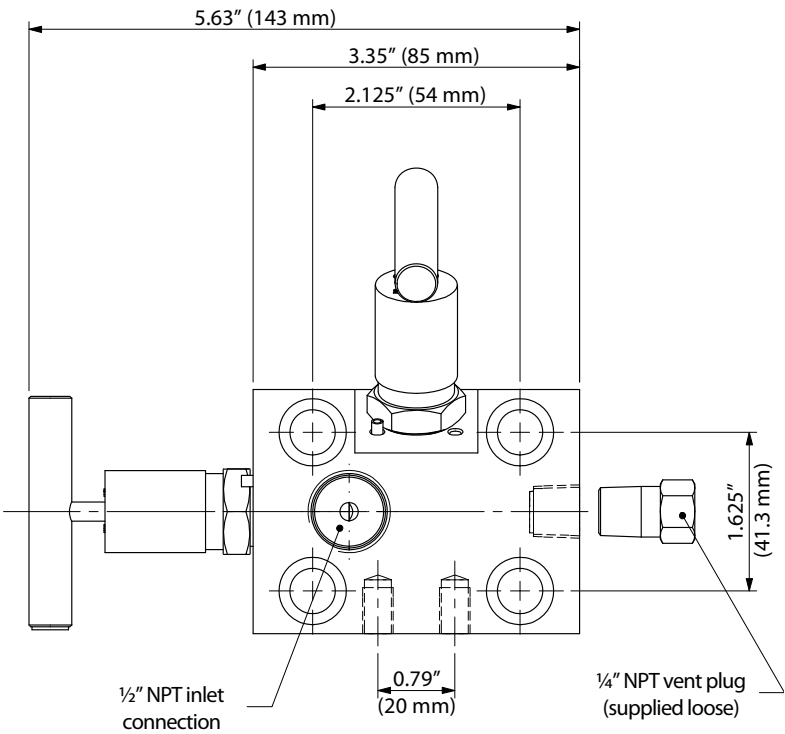
Dimensions in inches (millimeters) are for reference only and are subject to change.



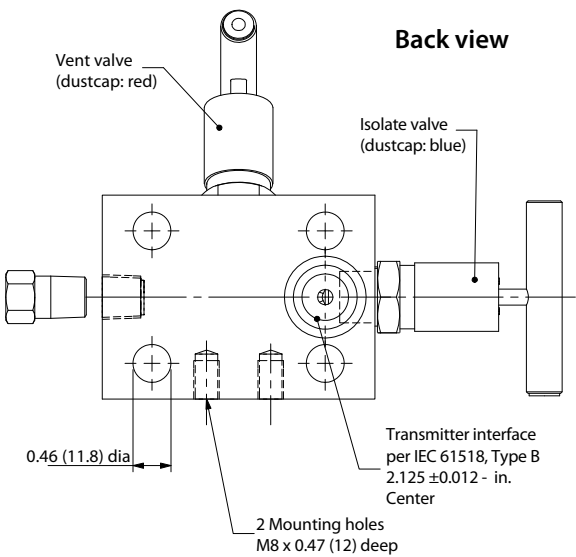
Right side view



Front view



Back view



### FOR YOUR SAFETY

IT IS SOLELY THE RESPONSIBILITY OF THE SYSTEM DESIGNER AND USER TO SELECT PRODUCTS SUITABLE FOR THEIR SPECIFIC APPLICATION REQUIREMENTS AND TO ENSURE PROPER INSTALLATION, OPERATION AND MAINTENANCE OF THESE PRODUCTS. MATERIAL COMPATIBILITY, PRODUCT RATINGS AND APPLICATION DETAILS SHOULD BE CONSIDERED IN THE SELECTION. IMPROPER SELECTION OR USE OF PRODUCTS DESCRIBED HEREIN CAN CAUSE PERSONAL INJURY OR PROPERTY DAMAGE.

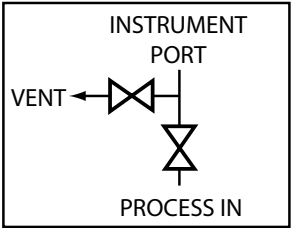
## How to Order

PART NUMBER	PACKING	ACCESSORIES (NOT INCLUDED)
GP821211F8YL	PTFE	Mounting kit-Order No. 800000K1 (page 8)
GP821212F8YL	Grafoil	1.5" mounting bolts for Honeywell transmitter (4 required) - Order No. 095-0411-100

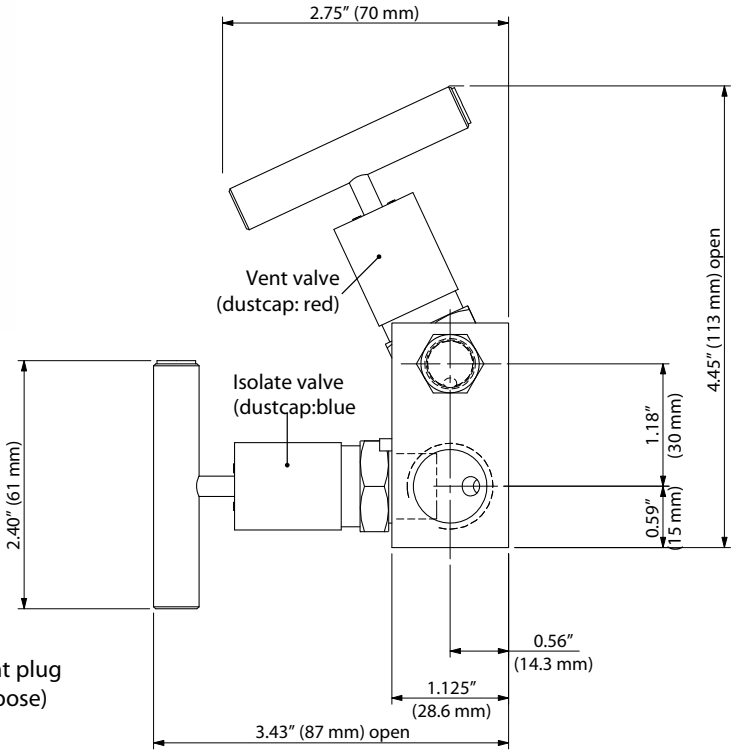
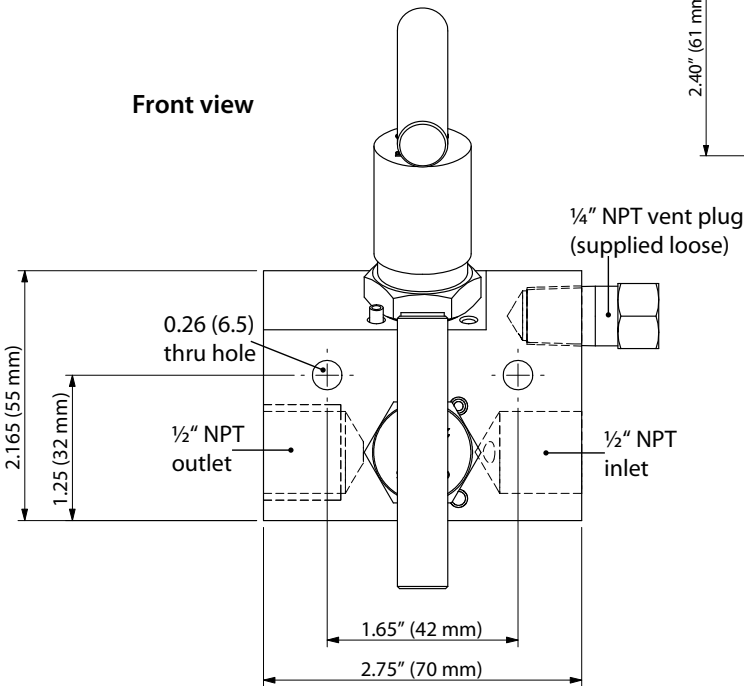
# 2-Valve General Purpose Manifold-Remote Mount

## Dimensions

Dimensions in inches (millimeters) are for reference only and are subject to change.



Front view



Right side view

## How to Order

PART NUMBER	PACKING
GP823211F8YL	PTFE
GP823212F8YL	Grafoil

Mounting kit-Order No. 800000K2 (page 8)

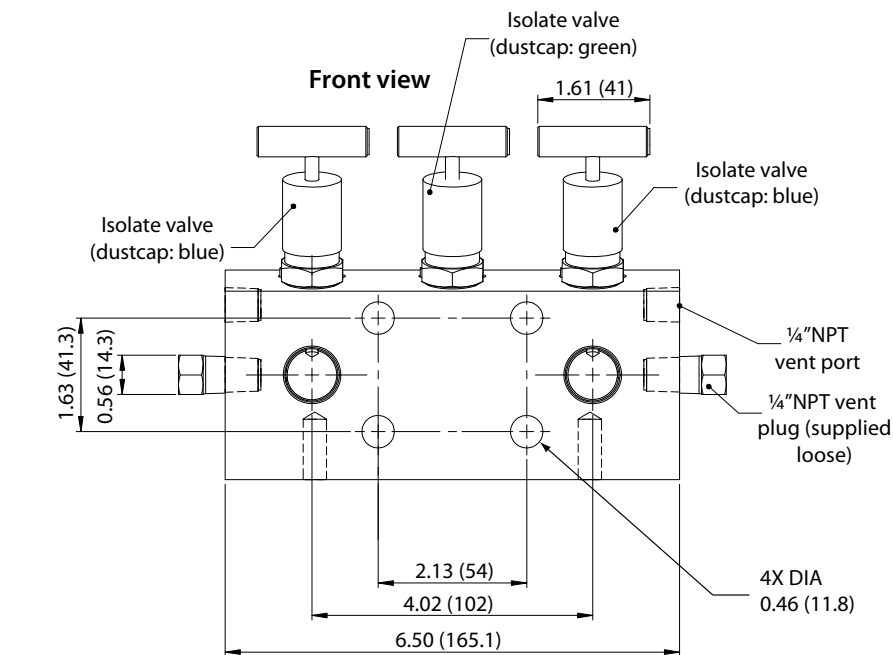
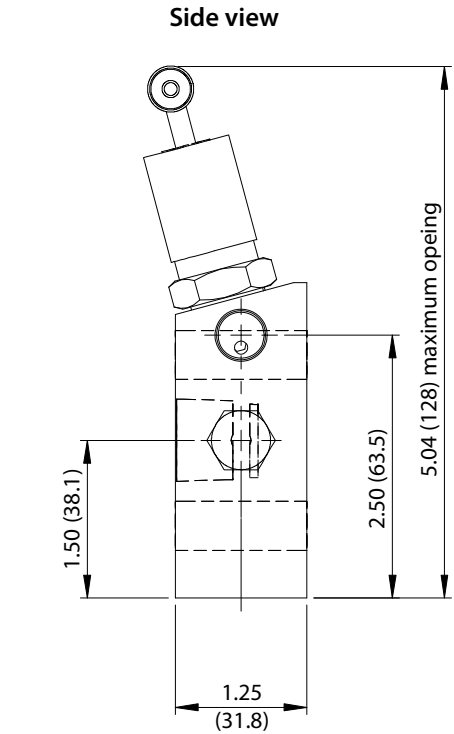
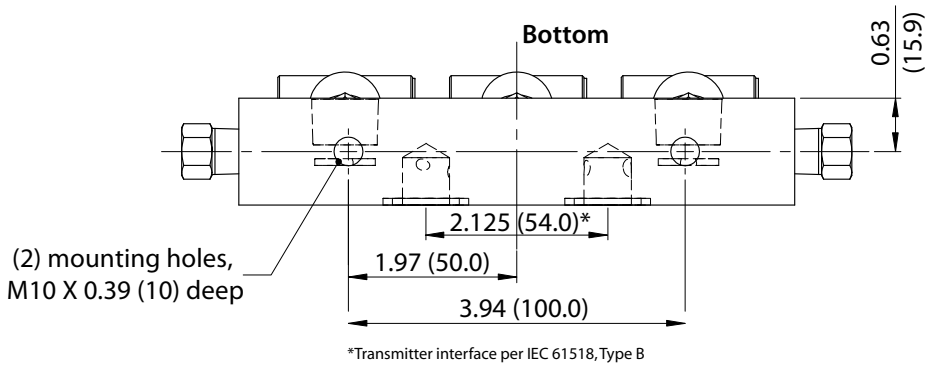
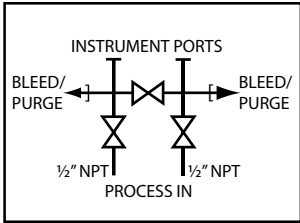
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# 3-Valve General Purpose Manifold-Direct Mount

## Dimensions

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## How to Order

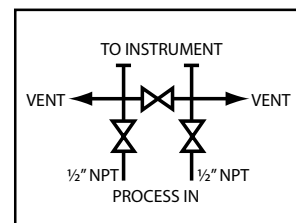
PART NUMBER	PACKING
GP831211F8YL	PTFE
GP831212F8YL	Grafoil

Mounting kit-Order No. 800000K1 (page 8)  
1.5" mounting bolts for Honeywell transmitter  
(4 required) - Order No. 095-0411-100

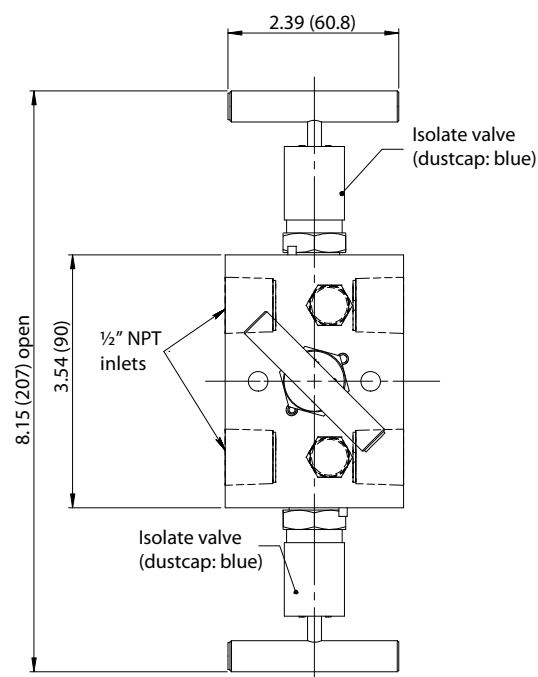
# 3-Valve General Purpose Manifold-Remote Mount

## Dimensions

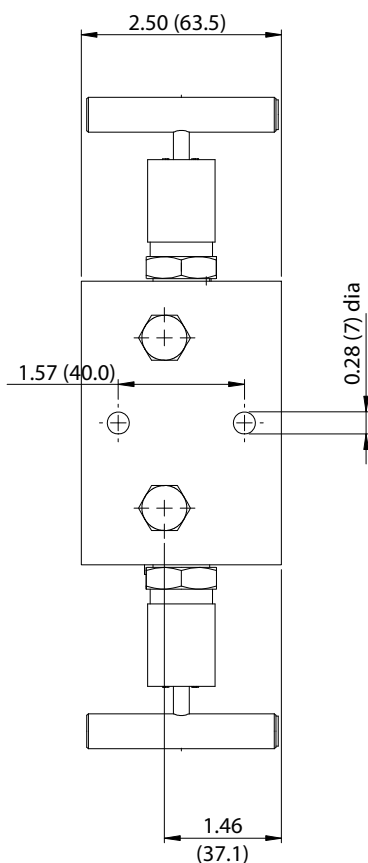
Dimensions in inches (millimeters) are for reference only and are subject to change.



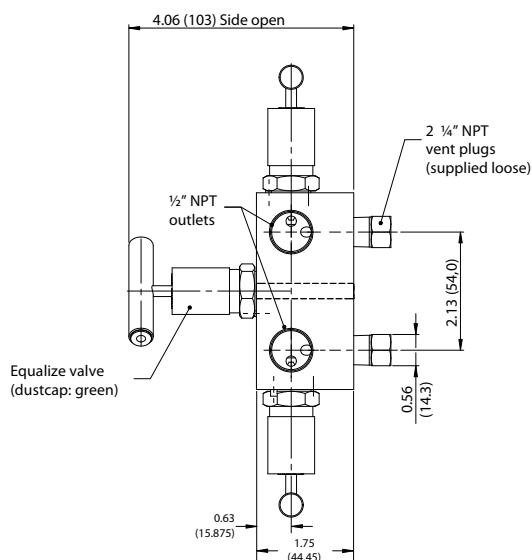
Top view



Bottom



Side view



## How to Order

PART NUMBER	PACKING
GP833211F8YL	PTFE
GP833212F8YL	Grafoil

Mounting kit-Order No. 800000K2 (page 8)

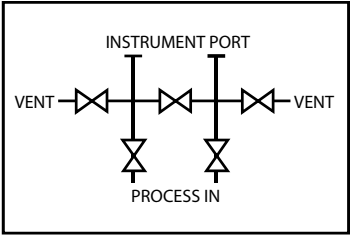
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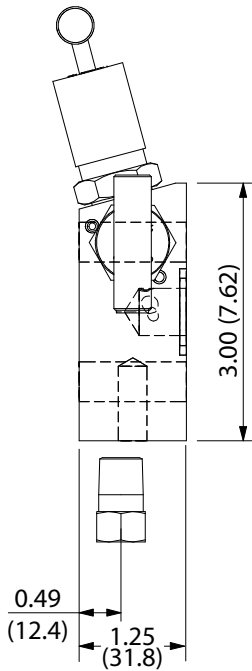
# 5-Valve General Purpose Manifold-Direct Mount

## Dimensions

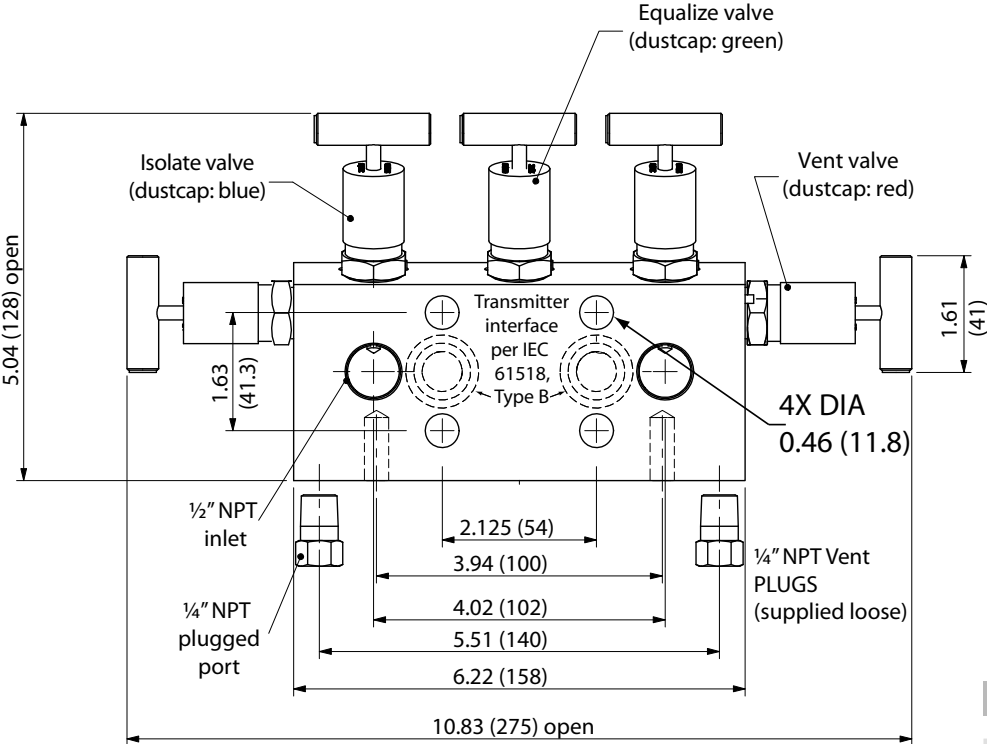
Dimensions in inches (millimeters) are for reference only and are subject to change.



Side view



Front view



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### How to Order

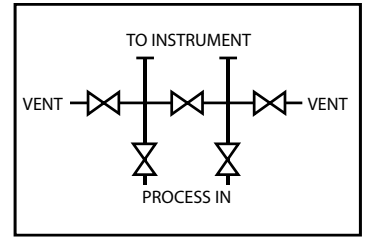
PART NUMBER	PACKING
GP851211F8YL	PTFE
GP851212F8YL	Grafoil

Mounting kit-Order No. 800000K1 (page 8)  
1.5" mounting bolts for Honeywell transmitter  
(4 required) - Order No. 095-0411-100

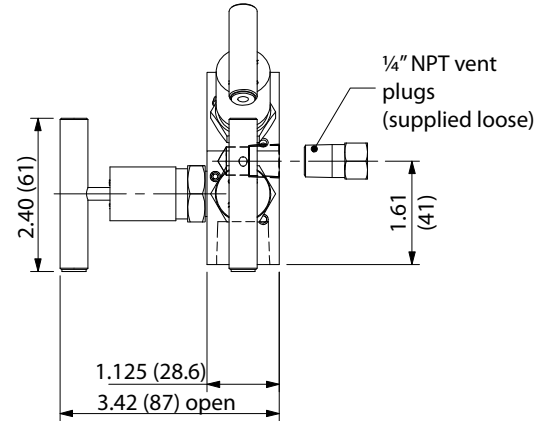
# 5-Valve General Purpose Manifold-Remote Mount

## Dimensions

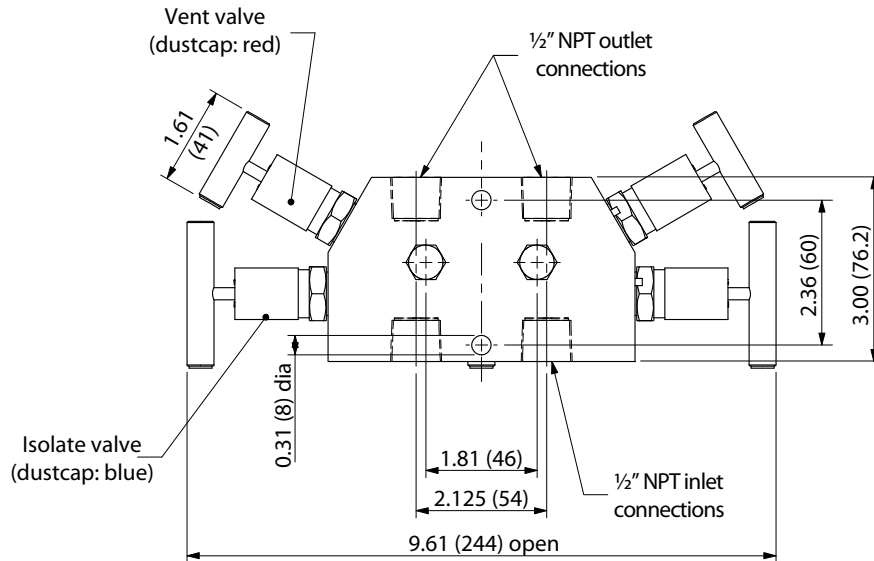
Dimensions in inches (millimeters) are for reference only and are subject to change.



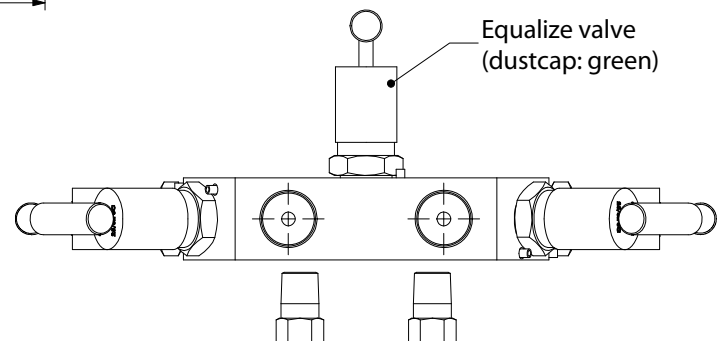
Right side view



Back view



Top view



### FOR YOUR SAFETY

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## How to Order

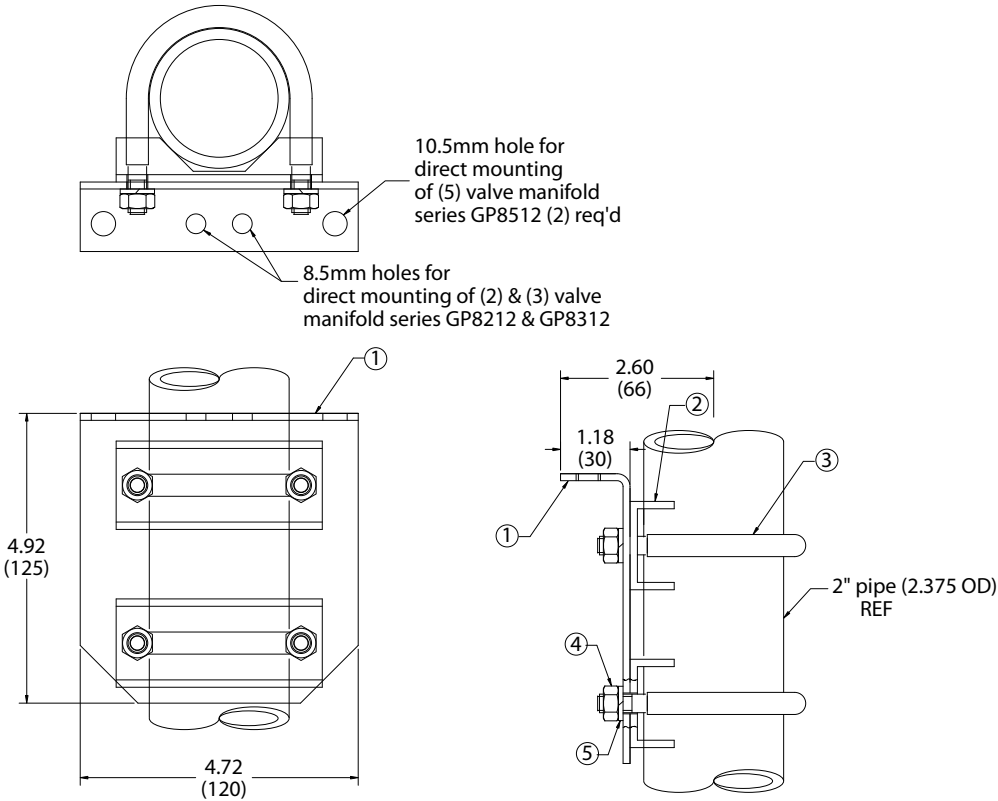
PART NUMBER	PACKING
GP853211F8YL	PTFE
GP853212F8YL	Grafoil

Mounting kit-Order No. 800000K2 (page 8)

# General Purpose Manifold Mounting Kits

## 800000K1 – For Direct Mount Models

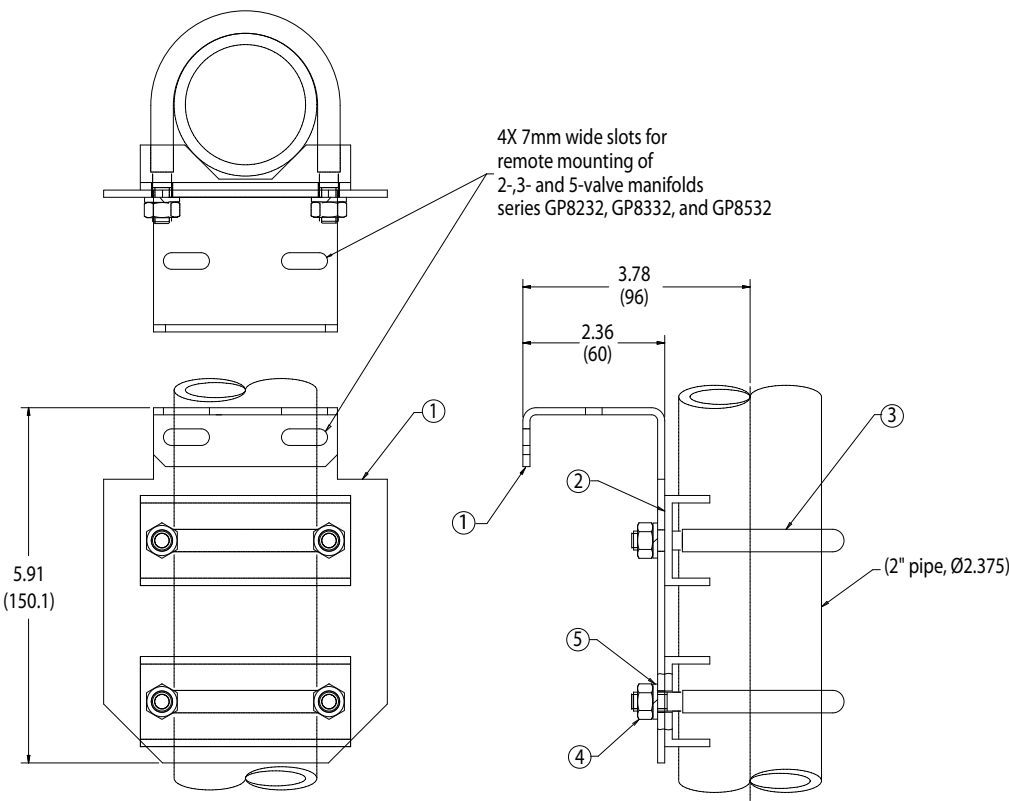
Dimensions are in inches (millimeters) are for reference only and are subject to change.



ITEM	TITLE	MATERIAL
1	Bracket	SST 304
2	Clamp Plate	SST 304
3	U-Bolt	SST 316
4	Nut, Hex	SST
5	Washer, Lock	SST

## 800000K2 – For Remote Mount Models

Dimensions are in inches (millimeters) are for reference only and are subject to change.



ITEM	TITLE	MATERIAL
1	Bracket	SST 304
2	Clamp Plate	SST 304
3	U-Bolt	SST 316
4	Nut, Hex	SST
5	Washer, Lock	SST



# Trifold Needle Valve Manifold

The Hoke 3-Valve Trifold manifold is designed for direct mounting to differential pressure transmitters having 2.125 inches (34 mm) center-to-center process connections.

## Pipe by Flange

When direct coupling to orifice plate flanges is not desired, the pipe by flange Trifold Manifold allows for two ½" NPT process connections in addition to direct mounting of the transmitter.

## Flange by Flange

When direct coupling to orifice plate flanges is required, the flange by flange Trifold Manifold mounts directly between the flange and the transmitter. If direct coupling to orifice plate flanges is not required, process futbol connectors may also be used.



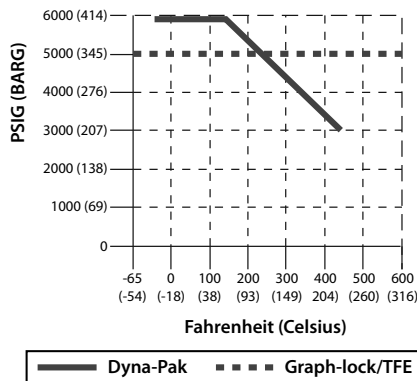
## Technical Data

<b>MAXIMUM OPERATING PRESSURE</b>	<i>Dyna-Pak/Metal Stem Tip</i> <ul style="list-style-type: none"><li>• 6000 psig (414 barg) -65° F to +150° F (-54°C to +66° C)</li><li>• 3000 psig (307 barg) at +450° F (+232° C)</li></ul>
	<i>Graph-Lock/TFE Wafer Packing</i> <ul style="list-style-type: none"><li>• 5000 psig (345 barg) -60° F to +600° F (-51°C to +316° C)</li><li>• 3000 psig (307 barg) at +450° F (+232° C)</li></ul>
<b>OPERATING TEMPERATURE RANGE</b>	<i>Dyna-Pak/Metal Stem Tip</i> <ul style="list-style-type: none"><li>• -65° F to +450° F (-54°C to +232° C)</li></ul>
	<i>Graph-Lock/TFE Wafer Packing</i> <ul style="list-style-type: none"><li>• -60° F to +600° F (-51°C to +316° C)</li></ul>

## Features & Benefits

- Purge ports are provided on the process side of block valves for applications requiring continuous purging.
- Bleed or vent ports on the instrument side of the block valves.
- Dyna-Pak TFE or high-temperature 600° F (316° C) Graph-lock/TFE wafer packing is standard.
- Bonnet locks prevent accidental disengagement of the bonnet.
- Non-rotating hardened metal stem tip.
- Integral backseats on all valve stems prevent accidental removal.
- Mounting bolts and TFE gaskets are standard.
- Packing below stem threads prevents process liquids from contaminating or washing away the thread lubricants.
- Special High Tolerance NPT Thread

## Pressure Temperature Curves



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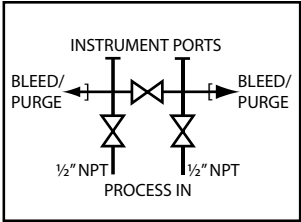
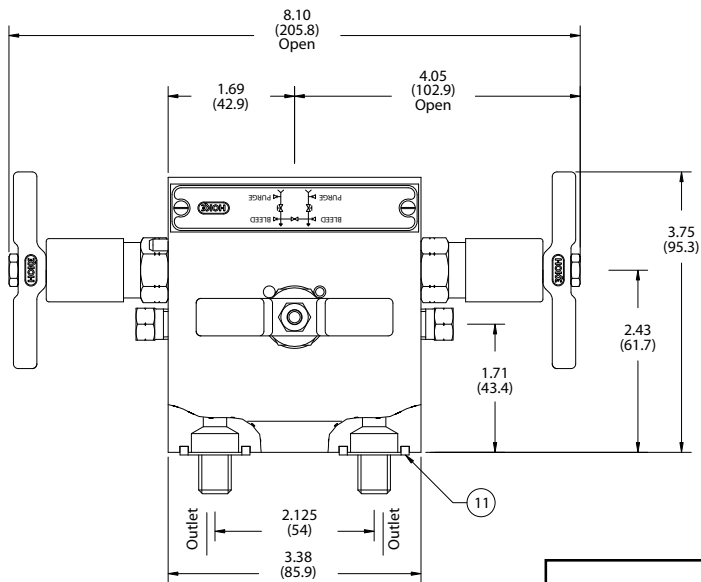
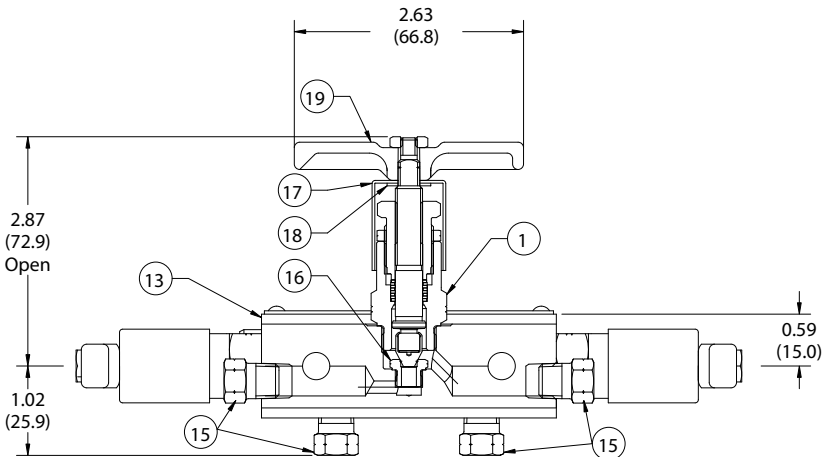
instrument manifolds

# Trifold Needle Valve Manifold– Pipe by Flange

Special Application Manifolds

## Dimensions and Materials

Dimensions are in inches (millimeters) are for reference only and are subject to change



### FOR YOUR SAFETY

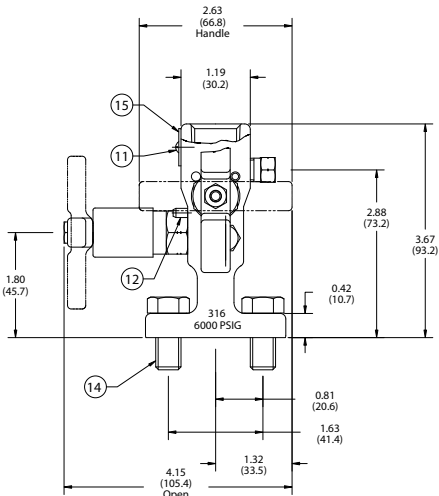
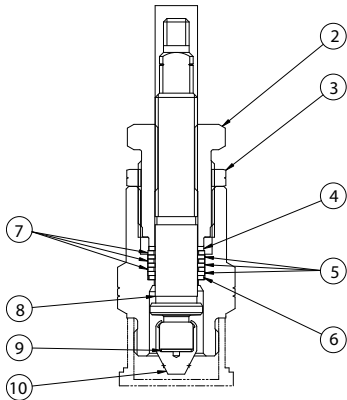
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## How to Order Trifold Pipe by Flange

CONNECTIONS		MODEL NUMBER	STEM POINT	PACKING
PROCESS	INSTRUMENT			
1/2" Female NPT	Flange	8122F8Y	Non-rotating 17-4PH	Dyna-Pak
1/2" Female NPT	Flange	8128F8Y	Non-rotating 17-4PH	Graph-lock/ TFE wafers

Mani-Mount mounting module see page 17 for details (available for 8122F8Y only)

	DESCRIPTION	MATERIAL
1	HOUSING	316 stainless steel
2	PACKING NUT	316 stainless steel
3	LOCK NUT	316 stainless steel
4	WASHER	316 stainless steel
5	WAFER	Teflon® tape
6	WASHER	316 stainless steel
7	SPACER	316 stainless steel
8	STEM	316 stainless steel
9	DISC	17-7PH stainless steel
10	STEM POINT	17-4PH stainless steel
11	WASHER	Teflon®
12	SPRING PIN	302 stainless steel
13	MANIFOLD BLOCK	316 stainless steel
14	CAP SCREW	18-8 stainless steel
15	PIPE PLUG	316 stainless steel
16	SEAT INSERT	316 stainless steel
17	CAP LUG	Polyethylene
18	WASHER	304 stainless steel
19	HANDLE	316 stainless steel

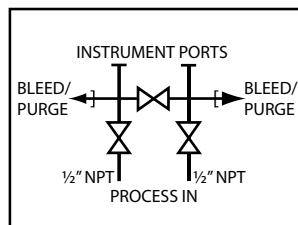
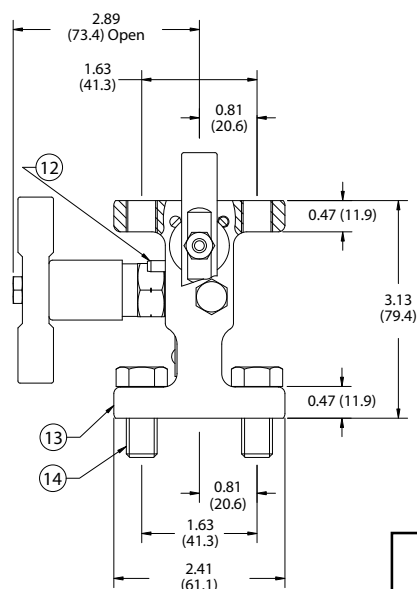
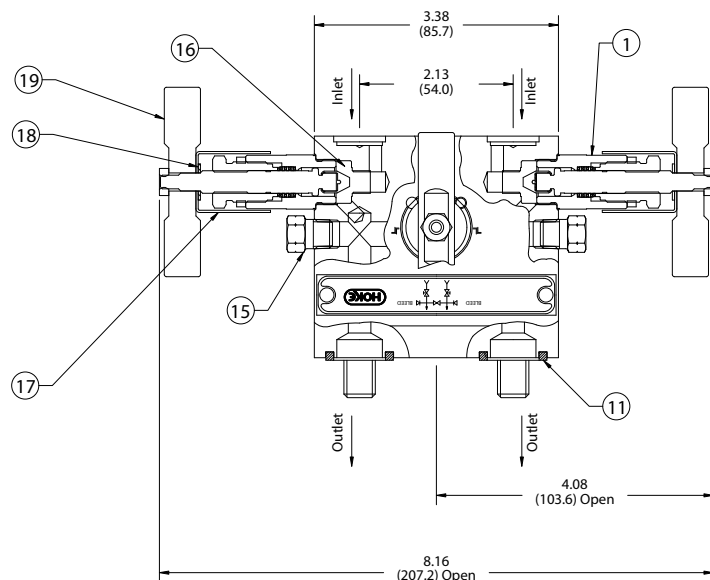


# Trifold Needle Valve Manifold– Flange by Flange

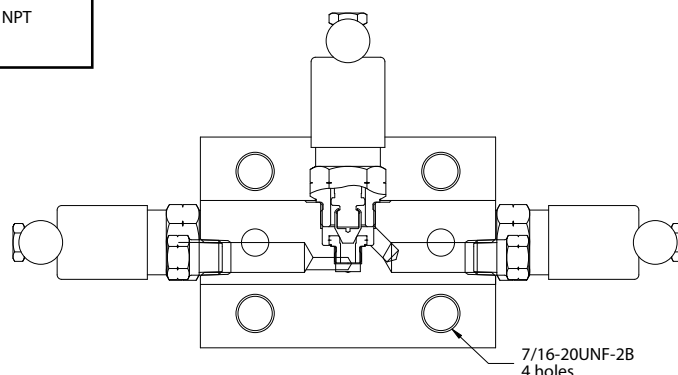
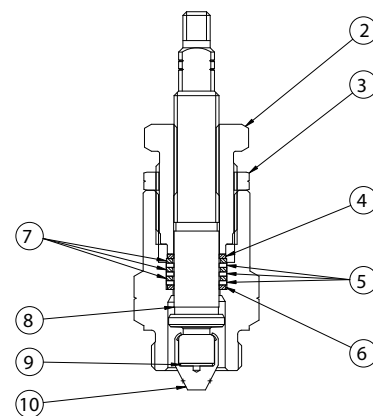
Special Application Manifolds

## Dimensions and Materials

Dimensions are in inches (millimeters) are for reference only and are subject to change



	DESCRIPTION	MATERIAL
1	HOUSING	316 stainless steel
2	PACKING NUT	316 stainless steel
3	LOCK NUT	316 stainless steel
4	WASHER	316 stainless steel
5	WAFER	Teflon® tape
6	WASHER	316 stainless steel
7	SPACER	316 stainless steel
8	STEM	316 stainless steel
9	DISC	17-7PH stainless steel
10	STEM POINT	17-4PH stainless steel
11	WASHER	Teflon®
12	SPRING PIN	302 stainless steel
13	MANIFOLD BLOCK	316 stainless steel
14	CAP SCREW	18-8 stainless steel
15	PIPE PLUG	316 stainless steel
16	SEAT INSERT	316 stainless steel
17	CAP LUG	Polyethylene
18	WASHER	304 stainless steel
19	HANDLE	316 stainless steel



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## How to Order Trifold Flange by Flange

CONNECTIONS		MODEL NUMBER	STEM POINT	PACKING
PROCESS	INSTRUMENT			
Flange	Flange	8132YY	Non-rotating 17-4PH	Dyna-Pak
Flange	Flange	8138YY	Non-rotating 17-4PH	Graph-lock/ TFE wafers



# Rotofold Ball Valve Manifold

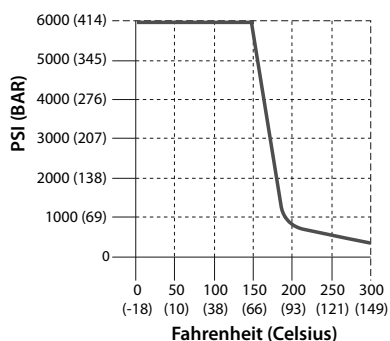
The Hoke Rotofold ball valve manifold has a unique design that utilizes quarter turn ball valves for blocking process impulse lines and performing equalizing functions. They also provide easy rod through of all passages when clean-out is necessary. PCTFE seats and Teflon® stem packing are easily replaced if maintenance is required. The pipe by flange Rotofold design allows the manifold to be directly mounted to integral orifice transmitters by simply reversing the flanges and flange fittings. The pipe by pipe Rotofold design allows the manifold to be remotely mounted separately from the process.



## Technical Data

<b>MAXIMUM OPERATING PRESSURE</b>	6000 psig (414 barg) -65° F to +150° F (-54°C to +66° C)
	400 psig @ +300° F (28 barg @ +149° C)
<b>OPERATING TEMPERATURE RANGE</b>	0° F to +300° F (-18°C to +149° C)

## Pressure Temperature Curves



## Features & Benefits

- Flange can be reversed for direct mounting to an integral orifice type transmitter
- Connections on instrument side of block valves for bleeding and venting.
- Replaceable PCTFE seats on all valves provide longer service life.
- All media passages can be rodded for easy cleaning.
- ¼ turn handle provides visual indication of valve mode.
- Mounting bolts and TFE gaskets are standard with flange models.
- Cam handles provide error-proof sequencing of valves.
- Mani-Mount mounting kit available for NPT pipe style (see Mani-mount mounting system, page 17)
- Special High Tolerance NPT Thread

### Cam-Valve Interlocking Sequencing Handles

The correct sequencing of opening and closing manifold valves is critical to eliminating pressure transmitter damage due to over ranging. By attaching cams to the equalizing and block valve handles, the inter-locking design assures proper initial service and transmitter zeroing during calibration.

Cam kit 8200K5 can be field installed or factory assembled to the manifold at time of order. For factory assembled, add part number 8200K5 to the end of the manifold part number.

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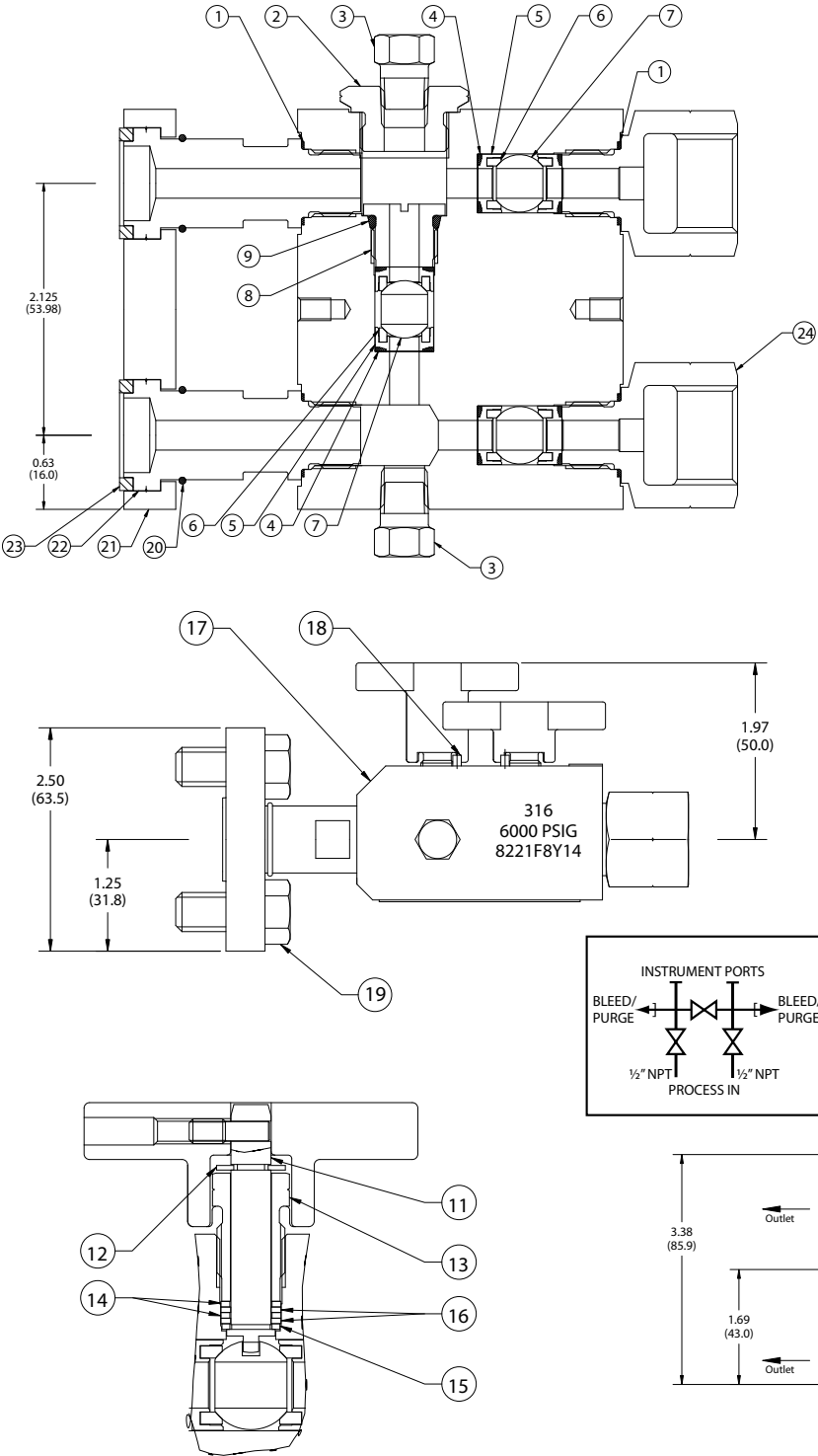
instrument manifolds

# Rotofold Ball Valve Manifold - Pipe by Flange

Special Application Manifolds

## Dimensions and Materials

Dimensions are in inches (millimeters) are for reference only and are subject to change



	DESCRIPTION	MATERIAL
1	PLUG WASHER	Teflon®
2	VENT FITTING	316 stainless steel
3	PIPE PLUG	316 stainless steel
4	WASHER	Viton®
5	SEAT RETAINER	316 stainless steel
6	SEAT	PCTFE
7	BALL	316 stainless steel
8	INSERT	316 stainless steel
9	O-RING	Fluorelastomer
10	HANDLE	Aluminum alloy 360
11	STEM	316 stainless steel
12	RETAINING RING	PH15-7MO
13	STEM RETAINER	316 stainless steel
14	SHIM WASHER	316 stainless steel
15	SHIM WASHER	316 stainless steel
16	SHIM WASHER	Teflon®
17	MANIFOLD BODY	316 stainless steel
18	SPIRAL PIN	302 stainless steel
19	CAP SCREW	Carbon Steel
20	RETAINING RING	302 stainless steel
21	FLANGE	Carbon Steel
22	FLANGE CONNECTOR	316 stainless steel
23	WASHER	Teflon®
24	END FITTING	316 stainless steel

## How to Order Rotofold-Pipe by Flange

CONNECTIONS			ORDERING NUMBER
BODY OUTLET STYLE	INLET PROCESS	OUTLET INSTRUMENTATION	

Flange 1/2" Female NPT Flange 8221F8Y

Cam-valve sequencing handles order No. 8200K5

Mani-Mount mounting module - see page 17 for details (available for 8221F8Y only)

### FOR YOUR SAFETY

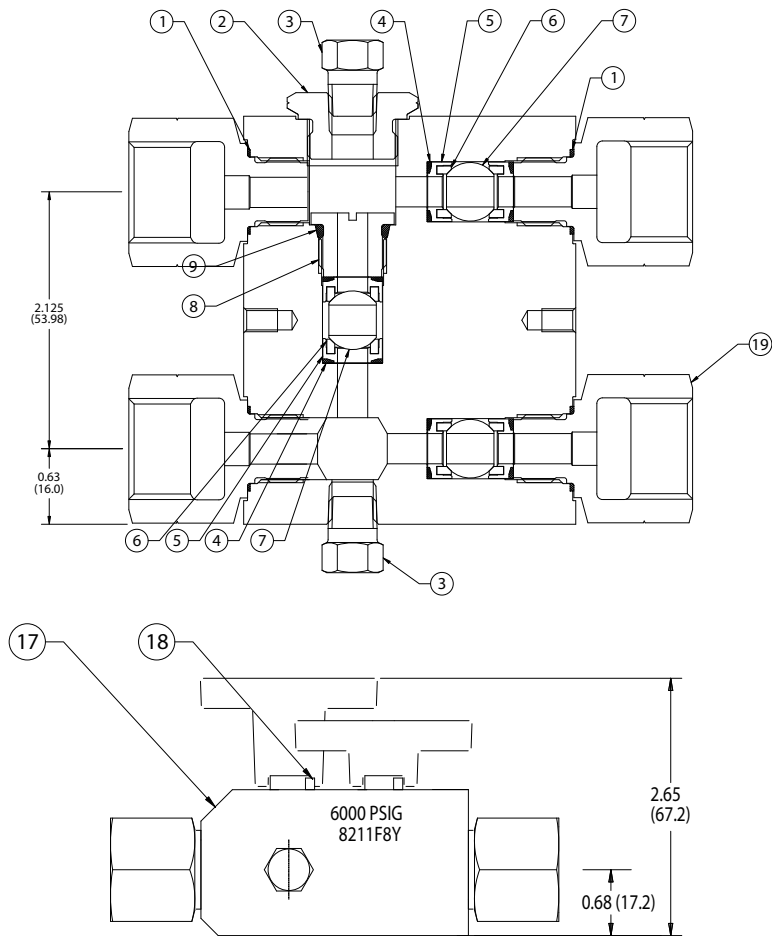
IT IS SOLELY THE RESPONSIBILITY OF THE SYSTEM DESIGNER AND USER TO SELECT PRODUCTS SUITABLE FOR THEIR SPECIFIC APPLICATION REQUIREMENTS AND TO ENSURE PROPER INSTALLATION, OPERATION AND MAINTENANCE OF THESE PRODUCTS. MATERIAL COMPATIBILITY, PRODUCT RATINGS AND APPLICATION DETAILS SHOULD BE CONSIDERED IN THE SELECTION. IMPROPER SELECTION OR USE OF PRODUCTS DESCRIBED HEREIN CAN CAUSE PERSONAL INJURY OR PROPERTY DAMAGE.

# Rotofold Ball Valve Manifold - Pipe by Pipe

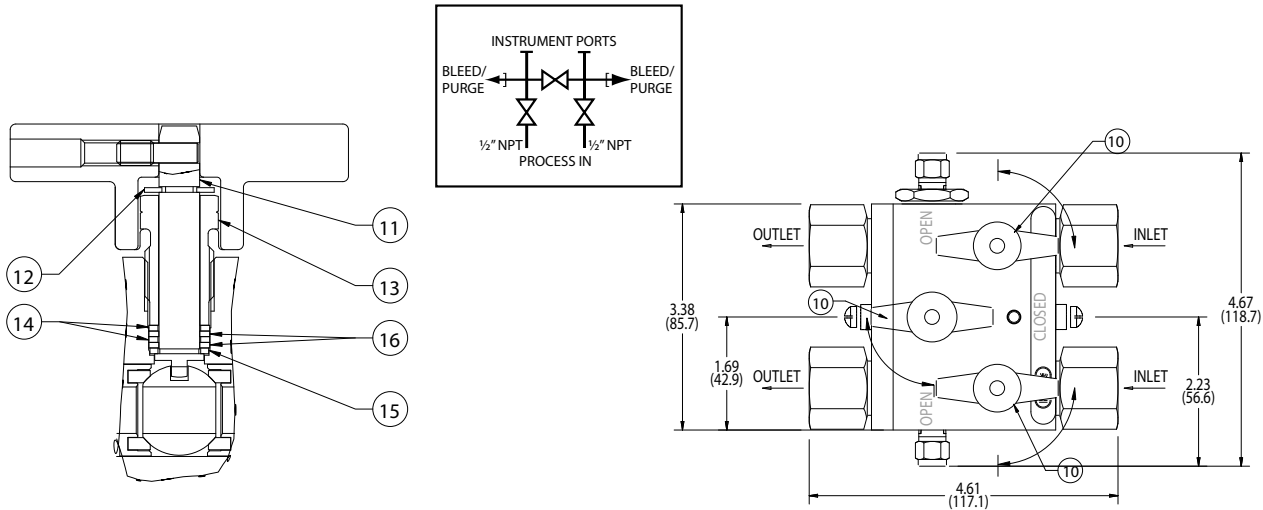
Special Application Manifolds

## Dimensions and Materials

Dimensions are in inches (millimeters) are for reference only and are subject to change



	DESCRIPTION	MATERIAL
1	PLUG WASHER	Teflon®
2	VENT FITTING	316 stainless steel
3	PIPE PLUG	316 stainless steel
4	WASHER	Viton®
5	SEAT RETAINER	316 stainless steel
6	SEAT	PCTFE
7	BALL	316 stainless steel
8	INSERT	316 stainless steel
9	O-RING	Fluorelastomer
10	HANDLE	Aluminum alloy 360
11	STEM	316 stainless steel
12	RETAINING RING	PH15-7MO
13	STEM RETAINER	316 stainless steel
14	SHIM WASHER	316 stainless steel
15	SHIM WASHER	316 stainless steel
16	SHIM WASHER	Teflon®
17	MANIFOLD BODY	316 stainless steel
18	SPIRAL PIN	302 stainless steel
19	END FITTING	316 stainless steel



## How to Order Rotofold-Pipe by Pipe

CONNECTIONS			ORDERING NUMBER
BODY OUTLET STYLE	INLET PROCESS	OUTLET INSTRUMENTATION	
NPT Pipe	1/2" Female NPT	1/2" Female NPT	8211F8Y

Cam-valve sequencing handles order No. 8200K5

### FOR YOUR SAFETY

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## Pentafold 5-Valve Manifold

The Hoke Pentafold 5-valve manifold is specifically designed for use with differential pressure transmitters when applied to gas flow measurement. This manifold design uses two PCTFE seated ball valves and three needle valves with non-rotating PCTFE stem tips as bypass or equalizing valves and vent valves. The two by-pass valves assure no leakage across the high and low side of the orifice meter for critical gas flow measurement. The pipe by pipe Pentafold design allows the manifold to be mounted away from the process but close to a differential pressure transmitter through the use of impulse piping.



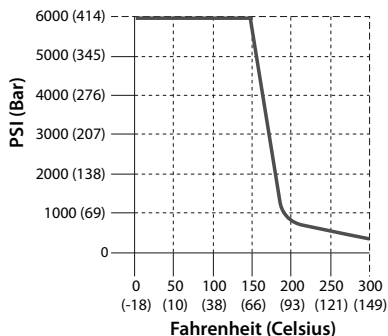
### Technical Data

<b>MAXIMUM OPERATING PRESSURE</b>	6000 psig (414 barg) -20° F to +150° F (-29°C to +66° C)
	400 psig @ +300° F (28 barg @ +149° C)
<b>OPERATING TEMPERATURE RANGE</b>	0° F to +300° F (-18°C to +149° C)

### Features & Benefits

- Static or vent ports provided on instrument side.
- Replaceable ball seats and stem tips extend service life, reducing cost.
- Threaded mounting hole provided on all models.
- Single manifold block has fewer potential leak paths than individually assembled valves.
- TFE standard packing in all valves.
- Special High Tolerance NPT Thread

### Pressure Temperature Curves



### HOKE, Inc.

405 Centura Court • PO Box 4866 (29305) • Spartanburg, SC 29303  
Phone (864) 574-7966 Fax (864) 587-5608  
www.hoke.com • sales@hoke.com

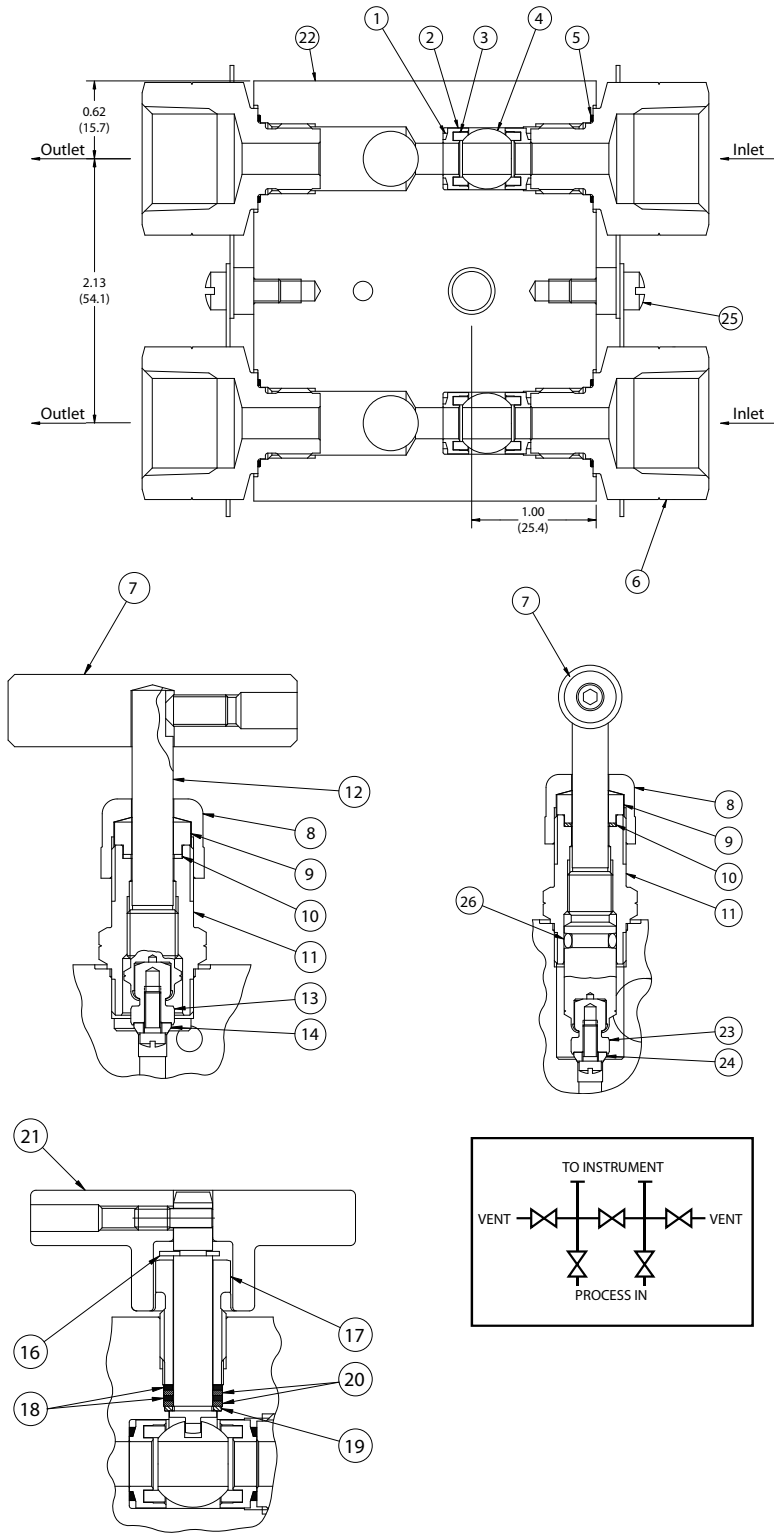
instrument manifolds

# Pentafold 5-Valve Manifold

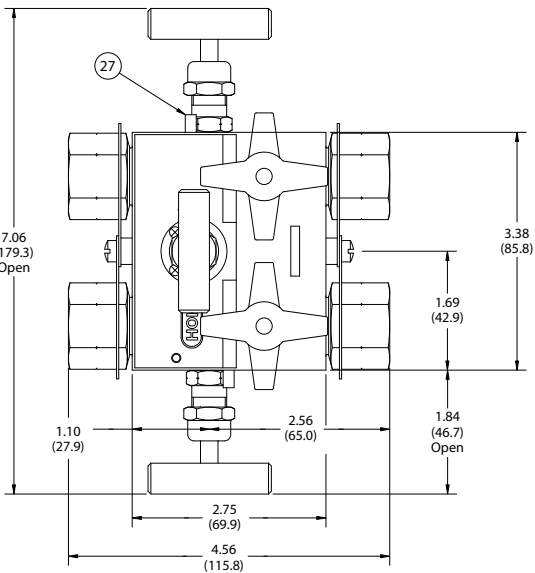
Special Application Manifolds

## Dimensions and Materials

Dimensions are in inches (millimeters) are for reference only and are subject to change



	DESCRIPTION	MATERIAL
1	WASHER	Fluorelastomer
2	SEAT RETAINER	316 stainless steel
3	SEAT	PCTFE
4	BALL	316 stainless steel
5	PLUG WASHER	Teflon®
6	END FITTING	316 stainless steel
7	HANDLE	316 stainless steel
8	PACKING NUT	316 stainless steel
9	PACKING	Teflon®
10	SPACER	316 stainless steel
11	HOUSING	316 stainless steel
12	SPINDLE	316 stainless steel
13	SEAT RETAINER	316 stainless steel
14	SEAT	PCTFE
15	STEM	316 stainless steel
16	RETAINING RING	Stainless steel
17	STEM RETAINER	316 stainless steel
18	SHIM WASHER	316 stainless steel
19	SHIM WASHER	316 stainless steel
20	SHIM WASHER	Teflon®
21	HANDLE	Aluminum alloy 360
22	BODY	316 stainless steel
23	SEAT RETAINER	316 stainless steel
24	SEAT	PCTFE
25	SCREW	18-8 stainless steel
26	O-RING	Fluorelastomer
27	SPRING PIN	302 stainless steel



## How to Order Pentafold

CONNECTIONS		ORDERING NUMBER
INLET PROCESS	OUTLET INSTRUMENTATION	
1/2" Female NPT	Flange	8613F8Y

### FOR YOUR SAFETY

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# Manifold Accessories

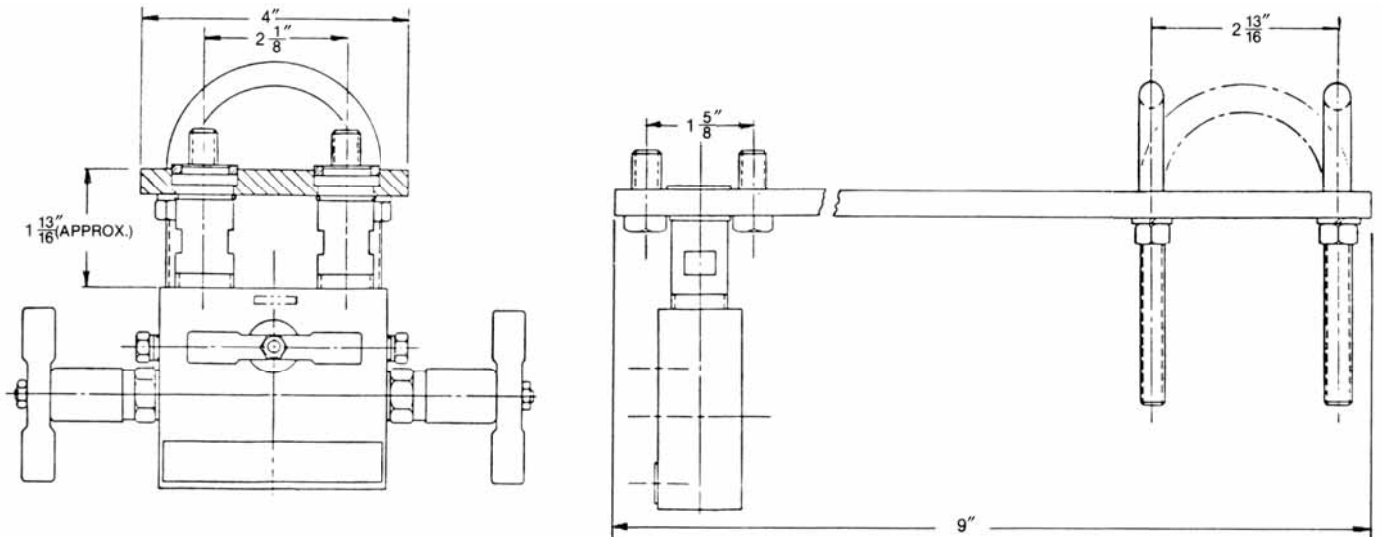
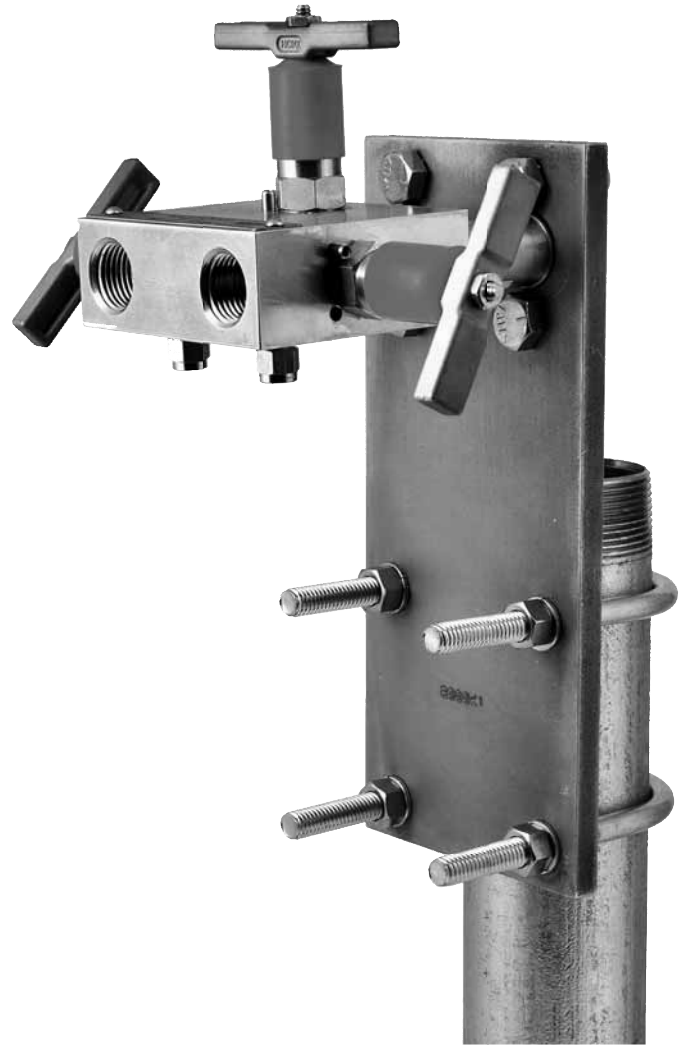
## Mani-Mount Manifold Mounting System\*

This installation method provides for rigid mounting of a Trifold or Rotofold manifold to a 2 inch pipe stand instead of a differential pressure transmitter. Only the manifold is mounted during construction, which permits storage of the transmitter until needed. The Mani-Mount not only provides a simple universal mounting solution, but also converts the manifold to a single flange design for direct mounting to the transmitter. The Mani-Mount can be used with any standard transmitter having 2 1/8" center to center process connections. Typical installation hardware costs are reduced because transmitter mounting brackets are not necessary.

*\*Available for Special Application Trifold 8122F8Y and Rotofold 8221F8Y models only*

### Features & Benefits

- Allows for rigid mounting of the manifold, instead of the transmitter.
- Simple universal mounting system for vertical, horizontal or either side of 2 inch pipe stand.
- Only the manifold needs to be mounted during construction; the transmitter can be securely stored until final installation.
- Transmitter mounting bracket is not necessary, reducing costs.
- Provides easy access to the transmitter by loosening 4 flange bolts.
- Fast installation process, saving time and money on costly conventional installations.
- Converts the manifold to a single flange style for direct mounting to the transmitter cell.
- Special High Tolerance NPT Thread



### How to Order Kit\*

PART NUMBER

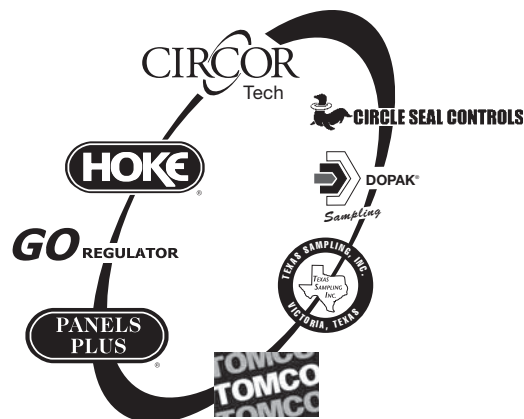
8200K9

*\* manifold not included*

Notes

Notes

Notes



## **Hoke • GO Regulator • Tomco • CIRCOR Tech**

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Spartanburg, SC 29303

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Fax (909) 923-2550

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### **Dopak Inc.**

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Houston, Texas 77080

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Fax (713) 460-8578

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### **Texas Sampling, Inc**

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Fax (361) 575-8157

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### **Circle Seal Controls**

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Fax (951) 270-6201

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## **CIRCOR Instrumentation Technologies**

CIRCOR Instrumentation Technologies (CIT) is a product group of CIRCOR International (NYSE: CIR), specializing in fluid process control solutions with orifice sizes typically up to 1". Our main product lines include ball, needle, packless, diaphragm, solenoid, and metering valves, pressure regulators, quick couplers, Gyrolok® compression tube fittings, and fully integrated sampling systems.

CIT markets primarily to the petrochemical, refining, power generation, food and beverage, semiconductor, and pharmaceutical industries, and to OEM's. CIT separates itself from the competition by offering highly engineered components manufactured to exacting standards and a variety of custom options.