200 Series 2-Valve Manifolds

M-220 & M-222

The model M-220 2-Valve Manifold is designed for remote mounting of a static or gauge transmitter. This design permits the user to mount each unit separately in convenient and accessible locations.

The model M-222 2-Valve Manifold is designed for direct mounting the manifold and transmitter together in a convenient and accessible location.

Both manifolds have bonnet labels that designate the isolation and vent valves. Standard materials are Carbon Steel and 316 SS, with exotic materials available for severe applications. All flanged manifolds are supplied with two Teflon® seal rings and four mounting bolts as standard.

Features

Patented Teflon® Pressure-Core™ Stem Seal

- *Leak-free performance*
- *No maintenance requirements*
- *5 year warranty against stem seal leaks*

Standard Carbide Ball Seat

- *Non-rotating ball eliminates seat galling or creasing to create bubble-tight seating*

All 316 SS Manifolds Conform to NACE (MR-01-75) as Standard

- *Reduces lead times and inventory cost*
- *Improves inventory safety*

Seal Below Stem Thread

- *Prevents media contamination of stem threads and lubricant wash-out*

Positive Back Seat Design

- *Prevents accidental blow-out or stem removal while operating*
- *Provides secondary seal in full open position*

Bracket Mounting Holes (Standard)

- *When used with the optional bracket, manifold can mount to a 2" pipe stand or flat surface to facilitate installation and removal of transmitter*

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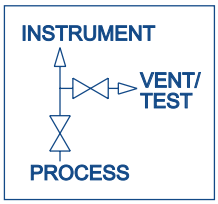
200 Series 2-Valve Manifolds

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE		OPTION CODES					
Hard Seat										
M - 2 2 0				-						
M - 2 2 2				-						



BODY CODE	
[Std.] Carbon Steel	C
[Std.] 316 SS	S
Monel®	M
Hastelloy-C®	H

HARD SEAT CODE	
C	Carbon Ball [Std.]
R	Ceramic Ball
6	316 SS Ball
H	Hastelloy-C® Ball
N	K-Monel® Ball

STEM SEAL CODE	
[Std.] Teflon® Pressure-Core™	T
Grafoil Packed	G
Viton® O-Ring	V
Teflon® Packed	P
Low-Temp Pressure-Core™	J

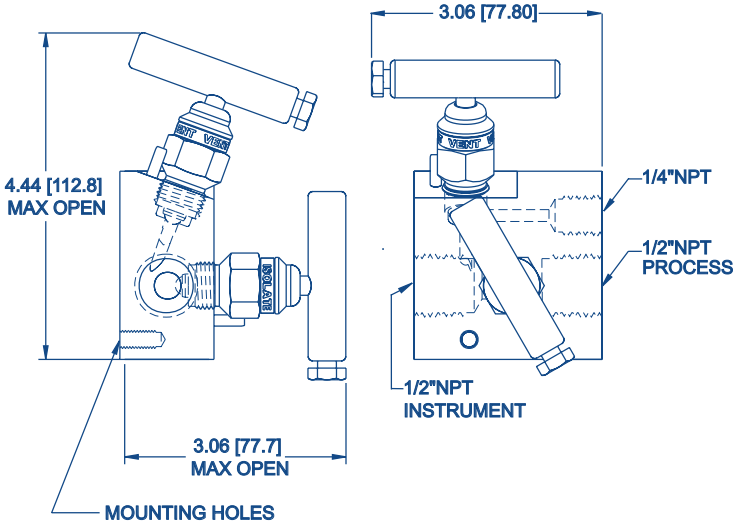
OPTION DESCRIPTION	
GA	Anti-Tamper Bonnets
TH	Hydrostatic Testing
VCH	Carbon Steel Manifold Bracket
VSH	Stainless Steel Manifold Bracket
W	Safety Bonnet Lock Plate
XL	Clean for Oxygen Service
XC	Clean for Chlorine Service

NOTE: Optional materials, accessories and documentation available upon request.

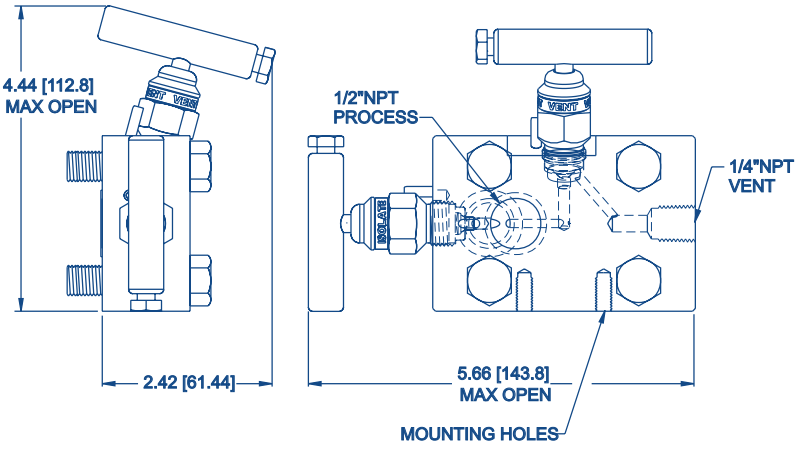
PART DESCRIPTION	CARBON STEEL	316 SS	MONEL®	HASTELLOY-C®
Body	ASTM A108-1215	ASTM A479-316	ASTM B164-N04405 or ASTM B164-N04400	ASTM B575-N10276 or ASTM A494 CW-12MW
Bonnet	ASTM A108-1215	ASTM A479-316	ASTM B165-N04405	ASTM B574-N10276
Stem	ASTM A582-303	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Seal Retainer	ASTM A479-316	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Handle Assembly	ASTM A108	ASTM A582 (18-8)	ASTM A582 (18-8)	ASTM A582 (18-8)
Plug(s)	ASTM A108	ASTM A182-F (18-8)	ASTM B164-N04405	ASTM B574-N10276
Mounting Bolts	ASTM A449-TYPE1	ASTM A449-TYPE1	ASTM F593 (18-8)	ASTM F593 (18-8)

BODY MATERIAL	HARD SEAT Pressure-Core™	HARD SEAT Grafoil®
Carbon Steel	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 800° F
316 SS	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 1,000° F
Monel®	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 1,000° F
Hastelloy-C®	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 1,000° F

M-220CCT & M-220SCT



M-222CCT & M-222SCT



Dimensions in [ ] are in Millimeters.

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200 Series 3-Valve Manifolds

M-230 & M-232

The model M-230 3-Valve Manifold is designed for remote mounting of the transmitter. This design allows the user to mount each unit in convenient and accessible locations.

The model M-232 3-Valve Manifold is designed for direct mounting the manifold and transmitter together in a convenient and accessible location.

Both manifolds have bonnet labels that designate the isolation and equalizer valves. Standard materials are Carbon Steel and 316 SS, with exotic materials available for severe applications. All flanged manifolds are supplied with two Teflon® seal rings and four mounting bolts as standard.

Features

Patented Teflon® Pressure-Core™ Stem Seal

- *Leak-free performance*
- *No maintenance requirements*
- *5 year warranty against stem seal leaks*

Standard Carbide Ball Seat

- *Non-rotating ball eliminates seat galling or creasing to create bubble-tight seating*

All 316 SS Manifolds Conform to NACE (MR-01-75) as Standard

- *Reduces lead times and inventory cost*
- *Improves inventory safety*

Seal Below Stem Thread

- *Prevents media contamination of stem threads and lubricant wash-out*

Positive Back Seat Design

- *Prevents accidental blow-out or stem removal while operating*
- *Provides secondary seal in full open position*

Bracket Mounting Holes (Standard)

- *When used with the optional bracket, manifold can mount to a 2" pipe stand or flat surface to facilitate installation and removal of transmitter*

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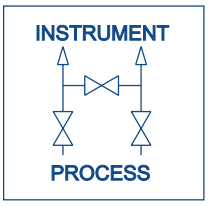
200 Series 3-Valve Manifolds

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE		OPTION CODES					
Hard Seat										
M - 2 3 0				-						
M - 2 3 2				-						



BODY CODE	
[Std.] Carbon Steel	C
[Std.] 316 SS	S
Monel®	M
Hastelloy-C®	H

HARD SEAT CODE	
C	Carbon Ball [Std.]
R	Ceramic Ball
6	316 SS Ball
H	Hastelloy-C® Ball
N	K-Monel® Ball

STEM SEAL CODE	
[Std.] Teflon® Pressure-Core™	T
Grafoil Packed	G
Viton® O-Ring	V
Teflon® Packed	P
Low-Temp Pressure-Core™	J

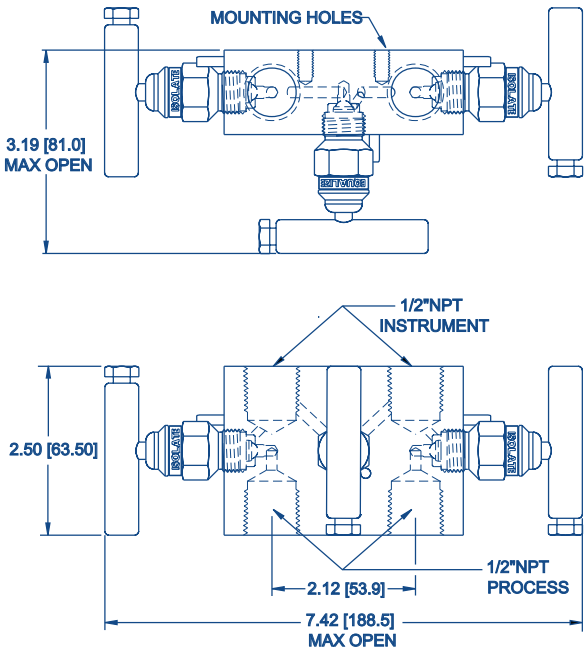
OPTION DESCRIPTION	
GA	Anti-Tamper Bonnets
TH	Hydrostatic Testing
VCH	Carbon Steel Manifold Bracket
VSH	Stainless Steel Manifold Bracket
W	Safety Bonnet Lock Plate
XL	Clean for Oxygen Service
XC	Clean for Chlorine Service

NOTE: Optional materials, accessories and documentation available upon request.

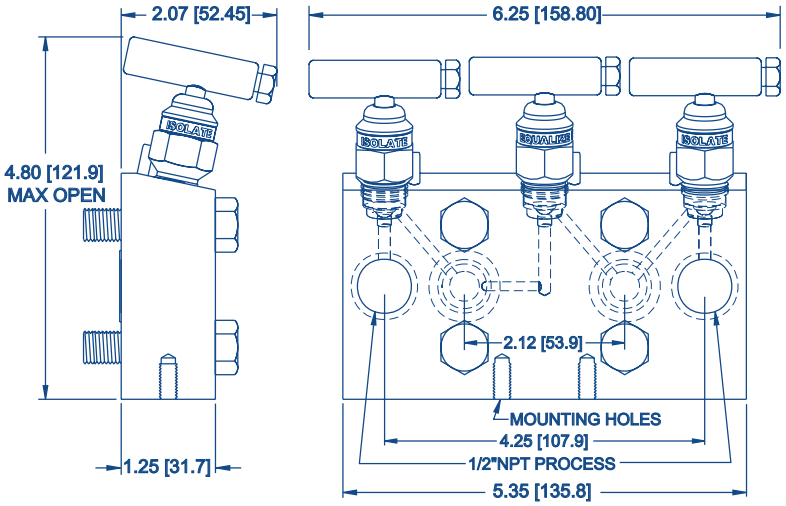
PART DESCRIPTION	CARBON STEEL	316 SS	MONEL®	HASTELLOY-C®
Body	ASTM A108-1215	ASTM A479-316	ASTM B164-N04405 or ASTM B164-N04400	ASTM B575-N10276 or ASTM A494 CW-12MW
Bonnet	ASTM A108-1215	ASTM A479-316	ASTM B165-N04405	ASTM B574-N10276
Stem	ASTM A582-303	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Seal Retainer	ASTM A479-316	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Handle Assembly	ASTM A108	ASTM A582 (18-8)	ASTM A582 (18-8)	ASTM A582 (18-8)
Plug(s)	ASTM A108	ASTM A182-F (18-8)	ASTM B164-N04405	ASTM B574-N10276
Mounting Bolts	ASTM A449-TYPE1	ASTM A449-TYPE1	ASTM F593 (18-8)	ASTM F593 (18-8)

BODY MATERIAL	HARD SEAT Pressure-Core™	HARD SEAT Grafoil®
Carbon Steel	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 800° F
316 SS	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 1,000° F
Monel®	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 1,000° F
Hastelloy-C®	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 1,000° F

M-230CCT & M-230SCT



M-232CCT & M-232SCT



Dimensions in [ ] are in Millimeters.

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200 Series 5-Valve Manifolds

M-250 & M-252

The model M-250 5-Valve Manifold is designed for remote mounting of the transmitter. This design allows the user to mount each unit in convenient and accessible locations. It also has the benefit of two controlled vents.

The model M-252 5-Valve Manifold is designed for direct mounting the manifold and transmitter together in a convenient and accessible location. It also has the added benefit of two controlled vents.

Both manifolds have bonnet labels that designate the isolation, vent and equalizer valves. Standard materials are Carbon Steel and 316 SS, with exotic materials available for severe applications. All flanged manifolds are supplied with two Teflon® seal rings and four mounting bolts as standard.

Features

Patented Teflon® Pressure-Core™ Stem Seal

- *Leak-free performance*
- *No maintenance requirements*
- *5 year warranty against stem seal leaks*

Standard Carbide Ball Seat

- *Non-rotating ball eliminates seat galling or creasing to create bubble-tight seating*

All 316 SS Manifolds Conform to NACE (MR-01-75) as Standard

- *Reduces lead times and inventory cost*
- *Improves inventory safety*

Seal Below Stem Thread

- *Prevents media contamination of stem threads and lubricant wash-out*

Positive Back Seat Design

- *Prevents accidental blow-out or stem removal while operating*
- *Provides secondary seal in full open position*

Bracket Mounting Holes (Standard)

- *When used with the optional bracket, manifold can mount to a 2" pipe stand or flat surface to facilitate installation and removal of transmitter*

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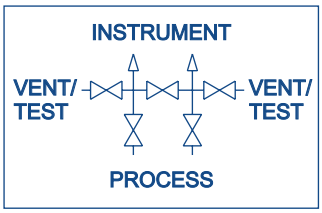
200 Series 5-Valve Manifolds

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE		OPTION CODES					
Hard Seat										
M - 2 5 0				-						
M - 2 5 2				-						



BODY CODE	
[Std.] Carbon Steel	C
[Std.] 316 SS	S
Monel®	M
Hastelloy-C®	H

HARD SEAT CODE	
C	Carbon Ball [Std.]
R	Ceramic Ball
6	316 SS Ball
H	Hastelloy-C® Ball
N	K-Monel® Ball

STEM SEAL CODE	
[Std.] Teflon® Pressure-Core™	T
Grafoil Packed	G
Viton® O-Ring	V
Teflon® Packed	P
Low-Temp Pressure-Core™	J

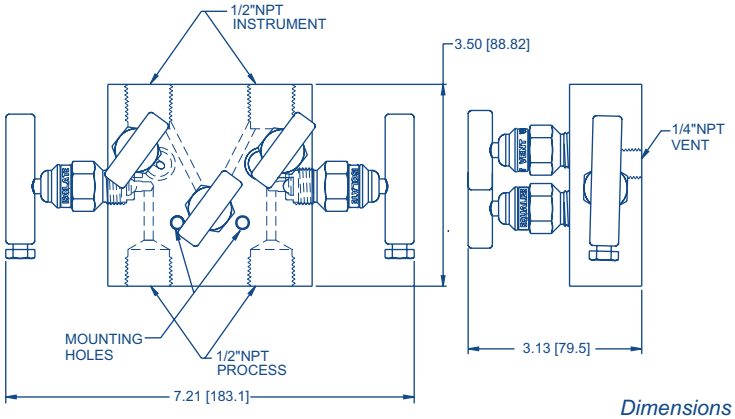
OPTION DESCRIPTION	
GA	Anti-Tamper Bonnets
TH	Hydrostatic Testing
VCH	Carbon Steel Manifold Bracket
VSH	Stainless Steel Manifold Bracket
W	Safety Bonnet Lock Plate
XL	Clean for Oxygen Service
XC	Clean for Chlorine Service

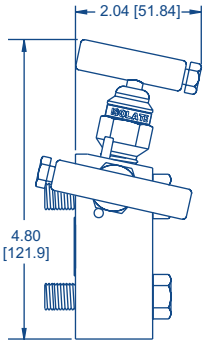
NOTE: Optional materials, accessories and documentation available upon request.

PART DESCRIPTION	CARBON STEEL	316 SS	MONEL®	HASTELLOY-C®
Body	ASTM A108-1215	ASTM A479-316	ASTM B164-N04405 or ASTM B164-N04400	ASTM B575-N10276 or ASTM A494 CW-12MW
Bonnet	ASTM A108-1215	ASTM A479-316	ASTM B165-N04405	ASTM B574-N10276
Stem	ASTM A582-303	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Seal Retainer	ASTM A479-316	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Handle Assembly	ASTM A108	ASTM A582 (18-8)	ASTM A582 (18-8)	ASTM A582 (18-8)
Plug(s)	ASTM A108	ASTM A182-F (18-8)	ASTM B164-N04405	ASTM B574-N10276
Mounting Bolts	ASTM A449-TYPE1	ASTM A449-TYPE1	ASTM F593 (18-8)	ASTM F593 (18-8)

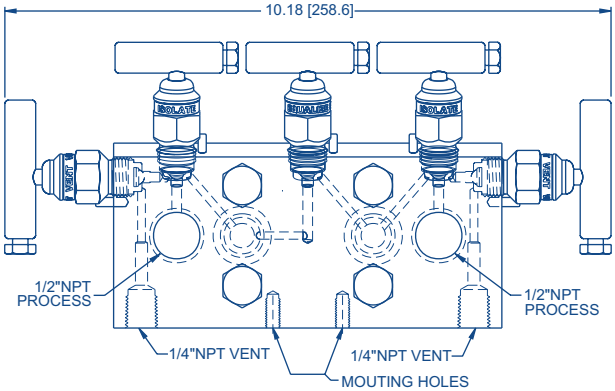
BODY MATERIAL	HARD SEAT Pressure-Core™	HARD SEAT Grafoil®
Carbon Steel	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 800° F
316 SS	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 1,000° F
Monel®	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 1,000° F
Hastelloy-C®	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 1,000° F

M-250CCT & M-250SCT





M-252CCT & M-252SCT



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