

Three-Valve Fugitive Emissions Manifold

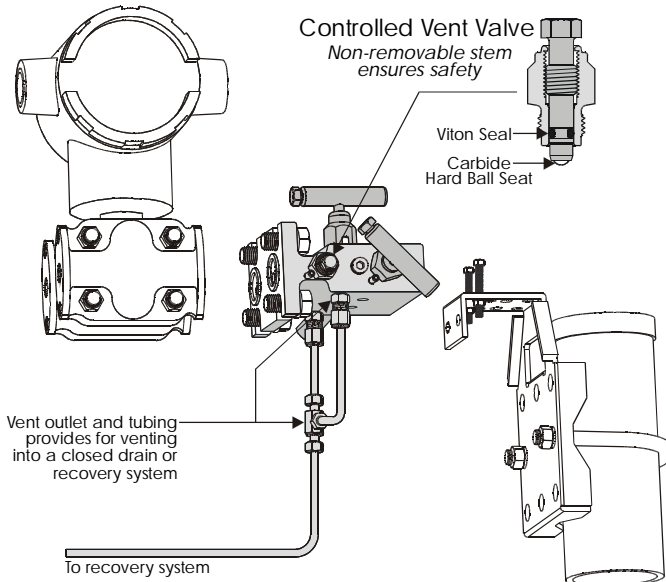
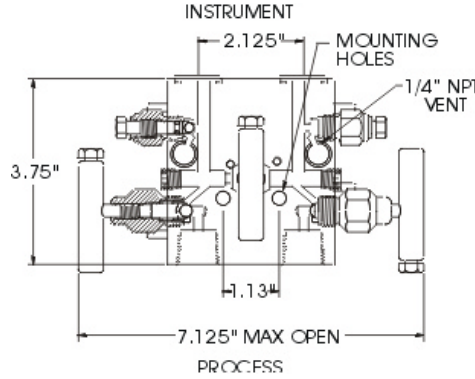
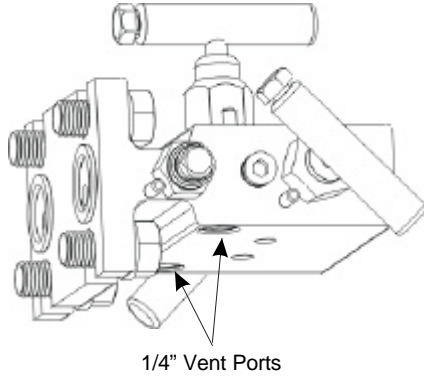
.187" ORIFICE

Description

1/2" FNPT x Flange

Body Style

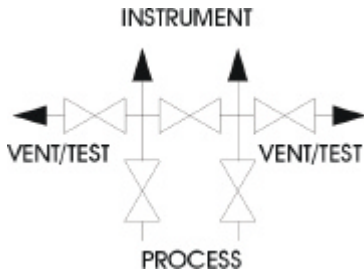
M-694 Hard Seat



MATERIALS OF CONSTRUCTION

SEAT	MAX Cv RATINGS
Hard Ball / Cone	.53
Approx. Manifold Weight:	5.2 lbs each [M-694]

PART DESCRIPTION	CARBON STEEL	A105 CARBON STEEL	316 SS	MONEL®	HASTELLOY-C®
Body	ASTM A108-1215	ASTM A105-CF	ASTM A479-316	ASTM B164-N04400	ASTM B575-N10276 or ASTM A494 CW-12MW
Bonnet	ASTM A108-1215	ASTM A479-316	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Stem	ASTM A582-303	ASTM A479-316	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Seal Retainer	ASTM A479-316	ASTM A479-316	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Handle Assembly	ASTM A108	ASTM A108	ASTM A582 (18-8)	ASTM A582 (18-8)	ASTM A582 (18-8)
Plug(s)	ASTM A108	ASTM F593 (18-8)	ASTM A182-F (18-8)	ASTM B164-N04405	ASTM B574-N10276
Mounting Bolts	ASTM A449-TYPE 1	ASTM A449-TYPE 1	ASTM A449-TYPE 1	ASTM F593 (18-8)	ASTM F593 (18-8)



- Carbon Steel Manifolds are Zinc Cobalt Plated with Dichromate Dip
- 316 SS Manifolds Meet NACE MR0175 Requirements (Latest Revision)
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are AISI 1018

Three-Valve Fugitive Emissions Manifolds

.187" ORIFICE

THREE-VALVE FUGITIVE EMISSIONS

ORDERING INFORMATION

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE	OPTION CODES
Hard Seat				
M - 6 9 4			-	

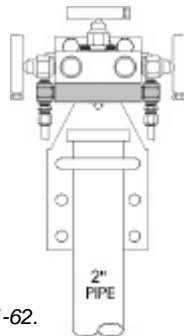
BODY CODE	
[Std.] Carbon Steel	C
A105 Carbon Steel	P
[Std.] 316 SS	S
Monel®	M
Hastelloy-C®	H

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

STEM SEAL CODE		
Block Valve(s)	Vent Valve(s)	
[Std.] Teflon® Pressure-Core™	Viton® O-Ring [Std.]	T
Grafoil® Packed	Grafoil® Packed	G
Viton® O-Ring	Viton® O-Ring	V
Teflon® Packed	Teflon® Packed	P
Low-Temp Pressure-Core™	Fluorosilicone O-Ring	J

OPTIONS

- Steam Trace Block
- Versa-Mount Brackets
- Bonnet Handle Lock-Out
- Bonnet Lock Plates
- Integral Tube Fitting Connections



See Options/Accessories Pages 61-62.

PRESSURE & TEMPERATURE

BODY MATERIAL	HARD SEAT	
	Teflon Pressure-Core	Grafoil
Carbon Steel Code C	10,000 PSI @ 200° F 8,000 PSI @ 450° F	Not Available.
A105 Carbon Steel Code P	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 800° F
316 SS Code S	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 1,000° F

See Page 5: Chart D Chart F

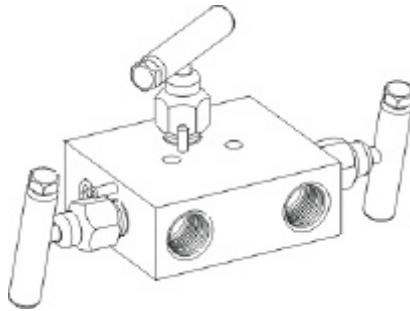
OPTION CODE	OPTION DESCRIPTION
AU7	½" Integral Tube Fitting - Parker® A-LOK Dual Ferrules (Process Ports)
AV7	½" Integral Tube Fitting - Swagelok® Dual Ferrules (Process Ports)
CVSCF	Vent Valve Seal Material: Fluorosilicone O-Ring
GC	Anti-Tamper Bonnet (Isolate Valves Only)
GD	Anti-Tamper Bonnet (Equalizer Valve Only)
GK	Bonnet Lock-Out (Isolate Valves Only - Lock Not Provided)
GL	Bonnet Lock-Out (Equalizer Valve Only - Lock Not Provided)
MH	Viton® O-Ring Flange Seals
MU	Dielectric Isolation (Flange Manifolds Only)
TC	Steam Trace Block - Carbon Steel
TH	Hydrostatic Testing
TS	Steam Trace Block - 316 SS
VC	CS Versa-Mount Bracket
VS	316 SS Versa-Mount Bracket
VCH	CS Heavy-Duty Versa-Mount Bracket
VSH	316 SS Heavy-Duty Versa-Mount Bracket
W	Safety Bonnet Lock Plate
WA	CS
WAW3	300 SS
WAW9	316 SS
WK	Paper Tag
W1	316 SS Tag (20 Characters - See page 61)
W3	300 SS Standard Length Flange Bolts (CS Standard)
W9	316 SS Standard Length Flange Bolts (CS Standard)
XL	Clean for Critical Service (Oxygen or Chlorine)

Three-Valve Manifolds

.187" ORIFICE

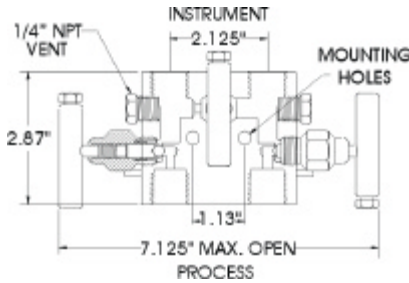
Description

1/2" FNPT x 1/2" FNPT

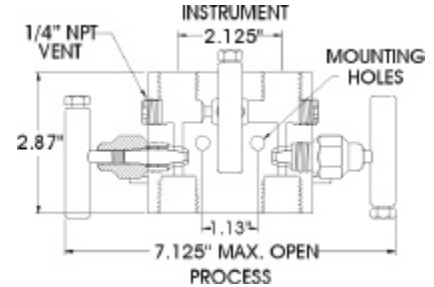


Body Style

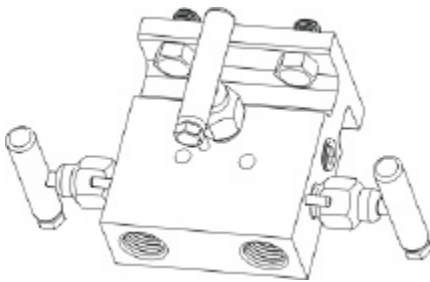
M-500 Hard Seat



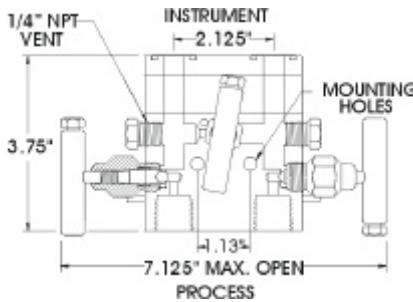
M-501 Soft Seat



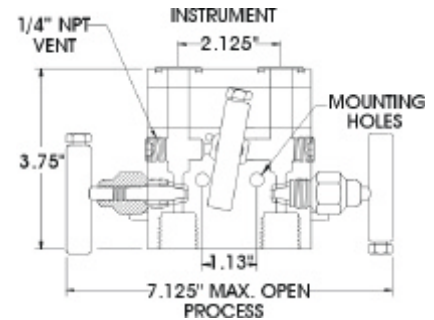
1/2" FNPT x Flange



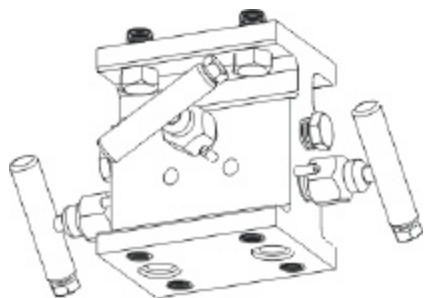
M-650 Hard Seat



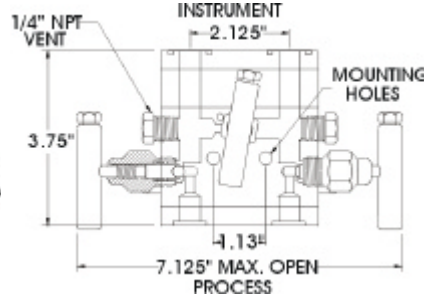
M-651 Soft Seat



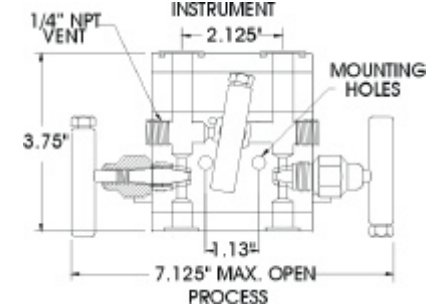
Flange x Flange



M-750 Hard Seat



M-751 Soft Seat

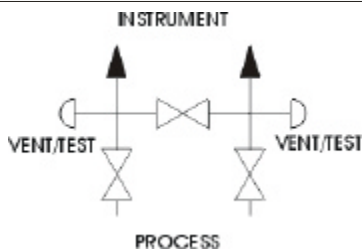


MATERIALS OF CONSTRUCTION

SEAT	MAX Cv RATINGS
Hard Ball	.53
Soft Cone	.83
Approx. Manifold Weight:	4.2 lbs each [M-500 / 501] 5.2 lbs each [M-650 / 651] 5.7 lbs each [M-750 / 751]

PART DESCRIPTION	CARBON STEEL	A105 CARBON STEEL	316 SS	MONEL®	HASTELLOY-C®
Body	ASTM A108-1215	ASTM A105 CF	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 A479-316	ASTM B165-N04405	ASTM B574-N10276
Stem	ASTM A582-303	ASTM A479-316	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Seal Retainer	ASTM A479-316	ASTM A479-316	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Handle Assembly	ASTM A108	ASTM A108	ASTM A582 (18-8)	ASTM A582 (18-8)	ASTM A582 (18-8)
Plug(s)	ASTM A108	ASTM F593 (18-8)	ASTM A182-F (18-8)	ASTM B164-N04405	ASTM B574-N10276
Mounting Bolts	ASTM A449-TYPE 1	ASTM A449-TYPE 1	ASTM A449-TYPE 1	ASTM F593 (18-8)	ASTM F593 (18-8)

- Carbon Steel Manifolds are Zinc Cobalt Plated with Dichromate Dip
- 316 SS Manifolds Meet NACE MR0175 Requirements (Latest Revision)
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are AISI 1018



Three-Valve Manifolds

.187" ORIFICE

THREE-VALVE MANIFOLDS

ORDERING INFORMATION

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE	OPTION CODES
Hard Seat				
M - 500			-	
M - 650			-	
M - 750			-	
Soft Seat				
M - 501			-	
M - 651			-	
M - 751			-	

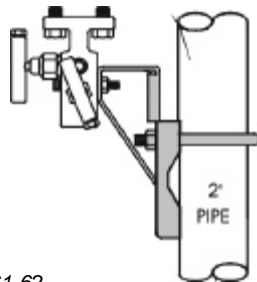
BODY CODE	
[Std.] Carbon Steel	C
A105 Carbon Steel	P
[Std.] 316 SS	S
Monel®	M
Hastelloy-C®	H

HARD SEAT CODE		SOFT SEAT CODE	
[Std.] Carbide Ball	C	D	Delrin® Cone [Std.]
Ceramic Ball	R	K	Kel-F® Cone
316 SS Ball	6	P	PEEK® Cone
K-Monel® Ball	N	T	Teflon® Cone
Hastelloy-C® Ball	H	Z	Tefzel Cone

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

OPTIONS

- Versa-Mount Brackets
- Bonnet Handle Lock-Out
- Bonnet Lock Plates
- Steam Trace Block
- Integral Tube Fitting Connections



See Options/Accessories Pages 61-62.

PRESSURE & TEMPERATURE

BODY MATERIAL	HARD SEAT Teflon Pressure-Core CODE T	HARD SEAT Teflon Pressure-Core CODE K	HARD SEAT Grafoil
	Carbon Steel Code C	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 400° F
A105 Carbon Steel Code P	10,000 PSI @ 200° F 8,000 PSI @ 450° F	Not Available	6,000 PSI @ 200° F 1,500 PSI @ 800° F
316 SS Code S	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 400° F	6,000 PSI @ 200° F 1,500 PSI @ 1,000° F
See Page 5: Chart D Chart D Chart F			
BODY MATERIAL	SOFT SEAT (Delrin) Teflon Pressure-Core CODE T	SOFT SEAT (Peek) Teflon Pressure-Core CODE T	
	Carbon Steel Code C	6,000 PSI @ 200° F	10,000 PSI @ 200° F 3,000 PSI @ 400° F
316 SS Code S	6,000 PSI @ 200° F	10,000 PSI @ 200° F 3,000 PSI @ 400° F	
See Page 5: Chart A Chart B			

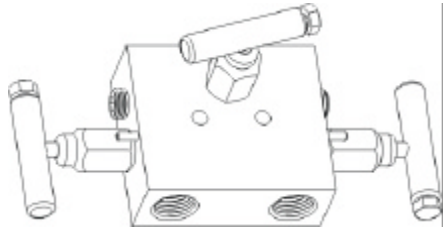
OPTION CODE	OPTION DESCRIPTION
AU7	½" Integral Tube Fitting - Parker® A-LOK Dual Ferrules (Process Ports)
AV7	½" Integral Tube Fitting - Swagelok® Dual Ferrules (Process Ports)
GA	Anti-Tamper Bonnet (All Positions)
GC	Anti-Tamper Bonnet (Isolate Valve(s) Only)
GD	Anti-Tamper Bonnet (Equalizer Valve(s) Only)
GJ	Bonnet Lock-Out (All Positions - Lock Not Provided)
GK	Bonnet Lock-Out (Isolate Valve(s) Only - Lock Not Provided)
GL	Bonnet Lock-Out (Equalizer Valve(s) Only - Lock Not Provided)
ME	Slotted Instrument Flange Using Bolts over 3"
MH	Viton® O-Ring Flange Seals
MU	Dielectric Isolation (Flange Manifolds Only)
M7	Required Slotting for Rosemount® 1151 Transmitters Series 6 & Above (Flange Manifolds Only)
PB	(2) ¼" Constant Purge Ports (Bottom) See pg. 61 for port locations.
PT	(2) ¼" Constant Purge Ports (Top) See pg. 61 for port locations.
P1	Purge or Test Connections
TC	Steam Trace Block - Carbon Steel
TH	Hydrostatic Testing
TS	Steam Trace Block - 316 SS
VA	Bracket Spacer for Flange to Flange Manifolds
VC	CS Versa-Mount Bracket
VS	316 SS Versa-Mount Bracket
VCH	CS Heavy-Duty Versa-Mount Bracket
VSH	316 SS Heavy-Duty Versa-Mount Bracket
W	Safety Bonnet Lock Plate
WA	CS
WAW3	300 SS 2-¼" Bolts for Rosemount® 3051C, 3095, or 2024 with Coplanar™ (Flange Manifolds Only)
WAW9	316 SS
WK	Paper Tag
W1	316 SS Tag (20 Characters - See page 61)
W3	300 SS Standard Length Flange Bolts (CS Standard)
W9	316 SS Standard Length Flange Bolts (CS Standard)
XL	Clean for Critical Service (Oxygen or Chlorine)
X3	(2) ¼" Test Ports on Instrument Flange (Flange Manifolds Only) See pg. 61 for port locations.

Three-Valve Manifolds

.250" ORIFICE

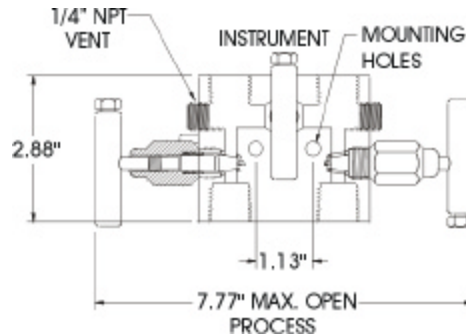
Description

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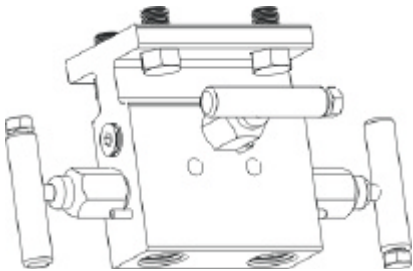


Body Style

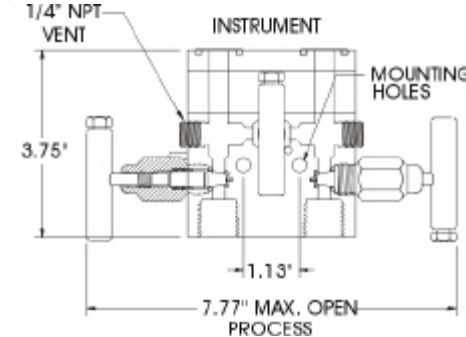
M2-501 Soft Seat



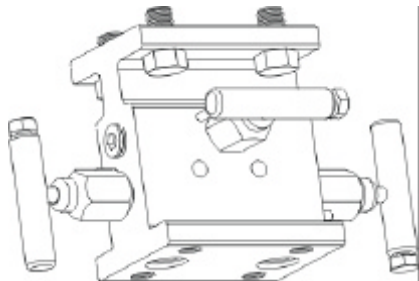
1/2" FNPT x Flange



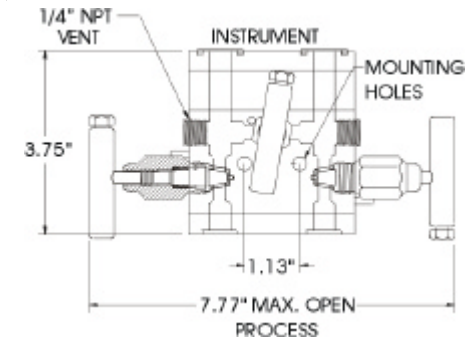
M2-651 Soft Seat



Flange x Flange



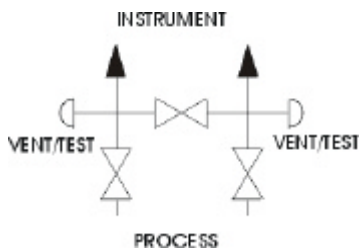
M2-751 Soft Seat



MATERIALS OF CONSTRUCTION

SEAT	MAX Cv RATINGS
Soft Cone	1.4
Approx. Manifold Weight:	4.2 lbs each [M2-501]
	5.2 lbs each [M2-651]
	5.7 lbs each [M2-751]

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-TYPE 1	ASTM A449-TYPE 1	ASTM F593 (18-8)	ASTM F593 (18-8)



- Carbon Steel Manifolds are Zinc Cobalt Plated with Dichromate Dip
- 316 SS Manifolds Meet NACE MR0175 Requirements (Latest Revision)
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are AISI 1018

Three-Valve Manifolds

.250" ORIFICE

THREE-VALVE MANIFOLDS

ORDERING INFORMATION

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE	OPTION CODES
Soft Seat				
M 2 - 5 0 1			-	
M 2 - 6 5 1			-	
M 2 - 7 5 1			-	

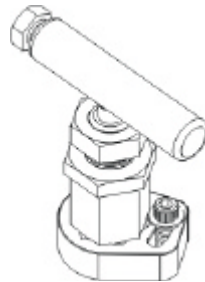
BODY CODE	
[Std.] Carbon Steel	C
[Std.] 316 SS	S
Monel®	M
Hastelloy-C®	H

SOFT SEAT CODE	
D	Delrin® Cone [Std.]
K	Kel-F® Cone
P	PEEK® Cone
T	Teflon® Cone
Z	Tefzel Cone

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

OPTIONS

- Bonnet Lock Plates
- Versa-Mount Brackets
- Bonnet Handle Lock-Out
- Steam Trace Block
- Integral Tube Fitting



See Options/Accessories Pages 61-62.

OPTION CODE	OPTION DESCRIPTION
AU7	½" Integral Tube Fitting - Parker® A-LOK Dual Ferrules (Process Ports)
AV7	½" Integral Tube Fitting - Swagelok® Dual Ferrules (Process Ports)
GA	Anti-Tamper Bonnet (All Positions)
GC	Anti-Tamper Bonnet (Isolate Valve(S) Only)
GD	Anti-Tamper Bonnet (Equalizer Valve(s) Only)
GJ	Bonnet Lock-Out (All Positions - Lock Not Provided)
GK	Bonnet Lock-Out (Isolate Valve(s) Only - Lock Not Provided)
GL	Bonnet Lock-Out (Equalizer Valve(s) Only - Lock Not Provided)
ME	Slotted Instrument Flange Using Bolts over 3"
MH	Viton® O-Ring Flange Seals
MU	Dielectric Isolation (Flange Manifolds Only)
M7	Required Slotting for Rosemount® 1151 Transmitters Series 6 & Above (Flange Manifolds Only)
PB	(2) ¼" Constant Purge Ports (Bottom) See pg. 61 for port locations.
PT	(2) ¼" Constant Purge Ports (Top) See pg. 61 for port locations.
P1	Purge or Test Connections
TC	Steam Trace Block - Carbon Steel
TH	Hydrostatic Testing
TS	Steam Trace Block - 316 SS
VA	Bracket Spacer for Flange to Flange Manifolds
VC	CS Versa-Mount Bracket
VS	316 SS Versa-Mount Bracket
VCH	CS Heavy-Duty Versa-Mount Bracket
VSH	316 SS Heavy-Duty Versa-Mount Bracket
W	Safety Bonnet Lock Plate
WA	CS
WAW3	300 SS
WAW9	316 SS
	2-¼" Bolts for Rosemount® 3051C, 3095, or 2024 with Coplanar™ (Flange Manifolds Only)
WK	Paper Tag
W1	316 SS Tag (20 Characters - See page 61)
W3	300 SS Standard Length Flange Bolts (CS Standard)
W9	316 SS Standard Length Flange Bolts (CS Standard)
XL	Clean for Critical Service (Oxygen or Chlorine)
X3	(2) ¼" Test Ports on Instrument Flange (Flange Manifolds Only) See pg. 61 for port locations.

PRESSURE & TEMPERATURE

BODY MATERIAL	SOFT SEAT (Delrin)	SOFT SEAT (Peek)
	Teflon Pressure-Core	Teflon Pressure-Core
Carbon Steel	6,000 PSI @ 200° F Max.	10,000 PSI @ 200° F 3,000 PSI @ 400° F
316 SS	6,000 PSI @ 200° F Max.	10,000 PSI @ 200° F 3,000 PSI @ 400° F

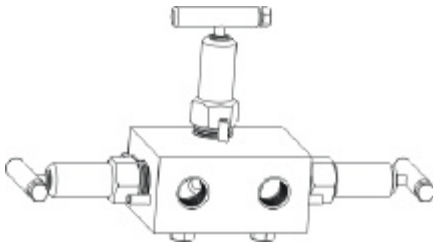
See Page 5: Chart B Chart B

Three-Valve Manifolds

.375" ORIFICE

Description

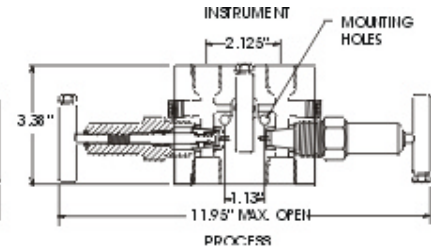
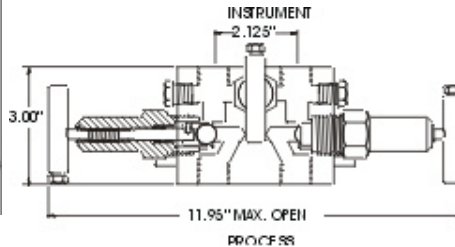
1/2" FNPT x 1/2" FNPT



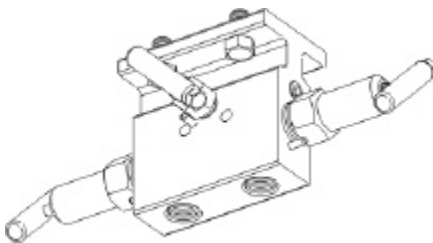
Body Style

M3-500 Hard Seat

M3-551 Soft Seat

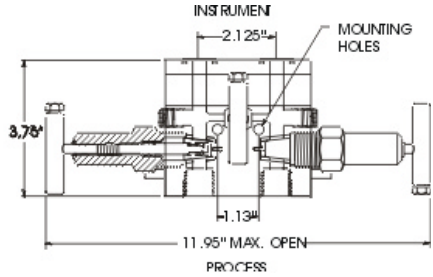
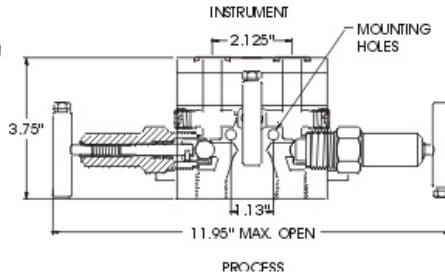


1/2" FNPT x Flange

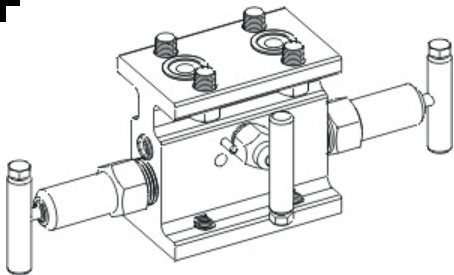


M3-650 Hard Seat

M3-651 Soft Seat

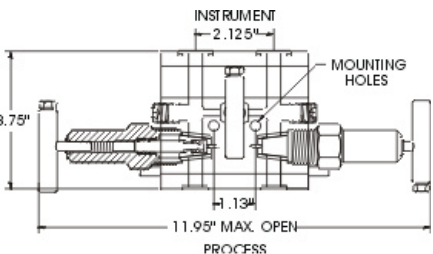
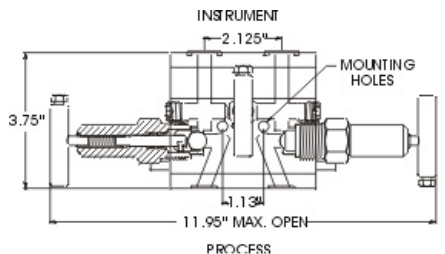


Flange x Flange



M3-750 Hard Seat

M3-751 Soft Seat



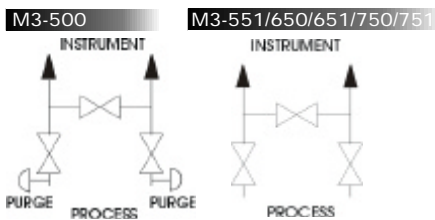
MATERIALS OF CONSTRUCTION

SEAT	MAX Cv RATINGS
Hard Ball	2.4
Hard Cone	3.0
Soft Cone	3.0

Approx. Manifold Weight:

- 9.0 lbs each [M3-500]
- 6.5 lbs each [M3-551]
- 7.0 lbs each [M3-650 / 651]
- 7.6 lbs each [M3-750 / 751]

PART DESCRIPTION	CARBON STEEL	A105 CARBON STEEL	316 SS	MONEL®	HASTELLOY-C®
Body	ASTM A108-1215	ASTM A105 CF	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 A479-316	ASTM B165-N04405	ASTM B574-N10276
Stem	ASTM A582-303	ASTM A479-316	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Seal Retainer	ASTM A479-316	ASTM A479-316	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Handle Assembly	ASTM A108	ASTM A108	ASTM A582 (18-8)	ASTM A582 (18-8)	ASTM A582 (18-8)
Plug(s)	ASTM A108	ASTM F593 (18-8)	ASTM A182-F (18-8)	ASTM B164-N04405	ASTM B574-N10276
Mounting Bolts	ASTM A449-TYPE 1	ASTM A449-TYPE 1	ASTM A449-TYPE 1	ASTM F593 (18-8)	ASTM F593 (18-8)



- Carbon Steel Manifolds are Zinc Cobalt Plated with Dichromate Dip
- 316 SS Manifolds Meet NACE MR0175 Requirements (Latest Revision)
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are AISI 1018

Three-Valve Manifolds

.375" ORIFICE

THREE-VALVE MANIFOLDS

ORDERING INFORMATION

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE	OPTION CODES			
Hard Seat							
M 3 - 5 0 0				-			
M 3 - 6 5 0				-			
M 3 - 7 5 0				-			
Soft Seat							
M 3 - 5 5 1				-			
M 3 - 6 5 1				-			
M 3 - 7 5 1				-			

BODY CODE	
[Std.] Carbon Steel	C
A105 Carbon Steel	P
[Std.] 316 SS	S
Monel®	M
Hastelloy-C®	H

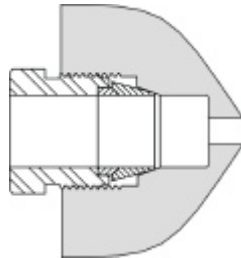
HARD SEAT CODE	
[Std.] Carbide Ball	C
Ceramic Ball	R
316 SS Ball	6
K-Monel® Ball	N
Hastelloy-C® Ball	H

SOFT SEAT CODE	
Rylon® Cone [Std.]	L
Delrin® Cone	D
Kel-F® Cone	K
PEEK® Cone	P
Teflon® Cone	T
316 SS Cone	6

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

OPTIONS

- Integral Tube Fitting Connections
- Versa-Mount Brackets
- Bonnet Handle Lock-Out
- Bonnet Lock Plates
- Steam Trace Block



See Options/Accessories Pages 61-62.

OPTION CODE	OPTION DESCRIPTION
AU7	½" Integral Tube Fitting - Parker® A-LOK Dual Ferrules (Process Ports)
AV7	½" Integral Tube Fitting - Swagelok® Dual Ferrules (Process Ports)
GA	Anti-Tamper Bonnet (All Positions)
GC	Anti-Tamper Bonnet (Isolate Valves Only)
GD	Anti-Tamper Bonnet (Equalizer Valve(s) Only)
GJ	Bonnet Lock-Out (All Positions - Lock Not Provided)
GK	Bonnet Lock-Out (Isolate Valve(s) Only - Lock Not Provided)
GL	Bonnet Lock-Out (Equalizer Valve(s) Only - Lock Not Provided)
MA	Versa-Mount Bracket Holes (M3-500 Only)
ME	Slotted Instrument Flange Using Bolts over 3"
MH	Viton® O-Ring Flange Seals
MU	Dielectric Isolation (Flange Manifolds Only)
M7	Required Slotting for Rosemount® 1151 Transmitters Series 6 & Above (Flange Manifolds Only)
PB	(2) ¼" Constant Purge Ports (Bottom) See pg. 61 for port locations.
PT	(2) ¼" Constant Purge Ports (Top) See pg. 61 for port locations.
P1	Purge or Test Connections
TC	Steam Trace Block - Carbon Steel
TH	Hydrostatic Testing
TS	Steam Trace Block - 316 SS
VA	Bracket Spacer for Flange to Flange Manifolds
VC	CS Versa-Mount Bracket
VS	316 SS Versa-Mount Bracket
VCH	CS Heavy-Duty Versa-Mount Bracket
VSH	316 SS Heavy-Duty Versa-Mount Bracket
W	Safety Bonnet Lock Plate
WA	CS
WAW3	300 SS 2-¼" Bolts for Rosemount® 3051C, 3095, or 2024 with Coplanar™ (Flange Manifolds Only)
WAW9	316 SS
WK	Paper Tag
W1	316 SS Tag (20 Characters - See page 61)
W3	300 SS Standard Length Flange Bolts (CS Standard)
W9	316 SS Standard Length Flange Bolts (CS Standard)
XL	Clean for Critical Service (Oxygen or Chlorine)
X3	(2) ¼" Test Ports on Instrument Flange (Flange Manifolds Only) See pg. 61 for port locations.

PRESSURE & TEMPERATURE

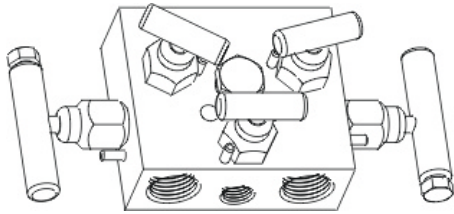
BODY MATERIAL	HARD SEAT	
	Teflon Pressure-Core	Grafoil
Carbon Steel Code C	10,000 PSI @ 200° F 8,000 PSI @ 450° F	Not Available.
A105 Carbon Steel Code P	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 800° F
316 SS Code S	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 1,000° F
See Page 5: Chart D Chart F		
BODY MATERIAL	SOFT SEAT (Delrin)	SOFT SEAT (Rylon)
Carbon Steel Code C	6,000 PSI @ 200° F Max.	1,500 PSI @ 200° F Max.
316 SS Code S	6,000 PSI @ 200° F Max.	1,500 PSI @ 200° F Max.
See Page 5: Chart E Chart E		

Five-Valve Manifolds

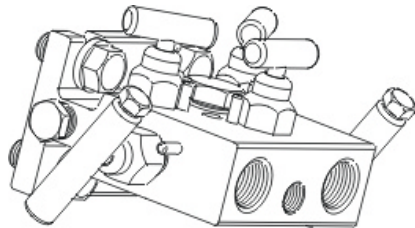
.187" ORIFICE

Description

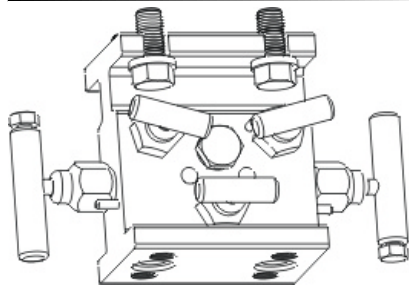
1/2" FNPT x 1/2" FNPT



1/2" FNPT x Flange

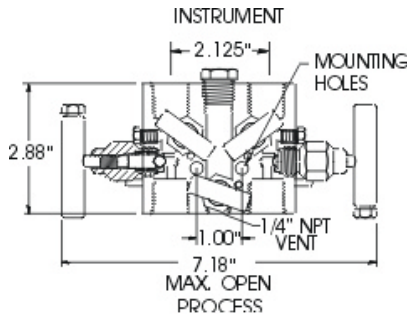


Flange x Flange

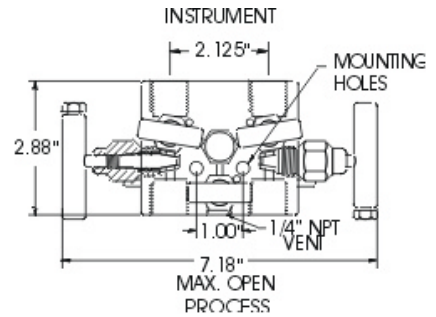


Body Style

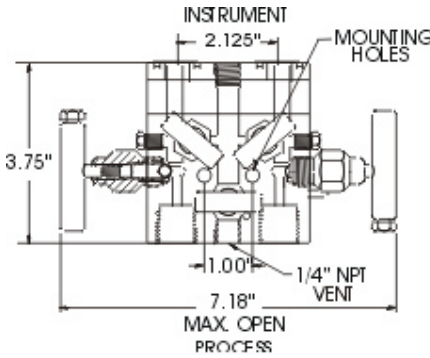
M-502 Hard Seat



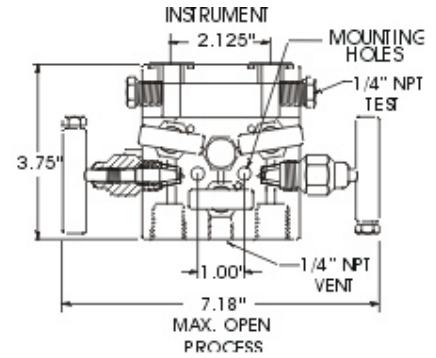
M-573 Soft Seat



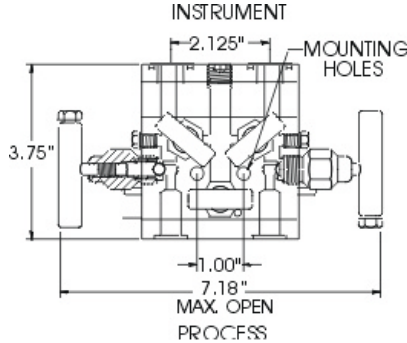
M-652 Hard Seat



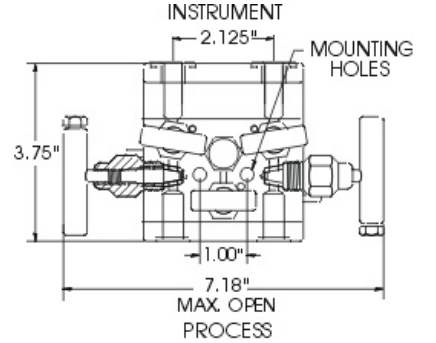
M-673 Soft Seat



M-752 Hard Seat



M-773 Soft Seat

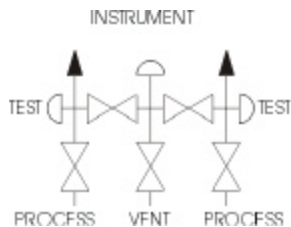


MATERIALS OF CONSTRUCTION

SEAT	MAX Cv RATINGS
Hard Ball / Cone	.53
Soft Cone	.83
Approx. Manifold Weight:	4.7 lbs each [M-502 / 573]
	5.7 lbs each [M-652 / 673]
	6.2 lbs each [M-752 / 773]

NOTE: M-502 / 573 / 652 / 752 / 773: TEST PORTS LOCATED ON BOTTOM SIDE OF MANIFOLD.

PART DESCRIPTION	CARBON STEEL	A105 CARBON STEEL	316 SS	MONEL®	HASTELLOY-C®
Body	ASTM A108-1215	ASTM A105 CF	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 A479-316	ASTM B164-N04405	ASTM B574-N10276
Stem	ASTM A582-303	ASTM A479-316	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Seal Retainer	ASTM A479-316	ASTM A479-316	ASTM A479-316	ASTM B164-N04405	ASTM B574-N10276
Handle Assembly	ASTM A108	ASTM A108	ASTM A582 (18-8)	ASTM A582 (18-8)	ASTM A582 (18-8)
Plug(s)	ASTM A108	ASTM F593 (18-8)	ASTM A182-F (18-8)	ASTM B164-N04405	ASTM B574-N10276
Mounting Bolts	ASTM A449-TYPE 1	ASTM A449-TYPE 1	ASTM A449-TYPE 1	ASTM F593 (18-8)	ASTM F593 (18-8)



- Carbon Steel Manifolds are Zinc Cobalt Plated with Dichromate Dip
- 316 SS Manifolds Meet NACE MR0175 Requirements (Latest Revision)
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are AISI 1018

Five-Valve Manifolds

.187" ORIFICE

FIVE-VALVE MANIFOLDS

ORDERING INFORMATION

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE	OPTION CODES
Hard Seat				
M - 502			-	
M - 652			-	
M - 752			-	
Soft Seat				
M - 573			-	
M - 673			-	
M - 773			-	

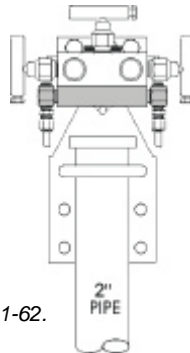
BODY CODE	
[Std.] Carbon Steel	C
A105 Carbon Steel	P
[Std.] 316 SS	S
Monel®	M
Hastelloy-C®	H

HARD SEAT CODE		SOFT SEAT CODE	
[Std.] Carbide Ball	C	D	Delrin® Cone / Washer [Std.]
Ceramic Ball	R	K	Kel-F® Cone / Washer
316 SS Ball	6	P	PEEK® Cone / Washer
K-Monel®	N	T	Teflon® Cone / Washer
Hastelloy-C®	H	Z	Tefzel Cone / Washer

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

OPTIONS

- Steam Trace Block
- Versa-Mount Brackets
- Bonnet Handle Lock-Out
- Bonnet Lock Plates
- Integral Tube Fitting Connections



See Options/Accessories Pages 61-62.

OPTION CODE	OPTION DESCRIPTION
AU7	½" Integral Tube Fitting - Parker® A-LOK Dual Ferrules (Process Ports)
AV7	½" Integral Tube Fitting - Swagelok® Dual Ferrules (Process Ports)
GC	Anti-Tamper Bonnet (Isolate Valve(s) Only)
GK	Bonnet Lock-Out (Isolate Valve(s) Only - Lock Not Provided)
MH	Viton® O-Ring Flange Seals
MU	Dielectric Isolation (Flange Manifolds Only)
M7	Required Slotting for Rosemount® 1151 Transmitters Series 6 & Above (Flange Manifolds Only)
PB	(2) ¼" Constant Purge Ports (Bottom) See pg. 61 for port locations.
PS	(2) ¼" Side Purge with Plugs (M-773 and M-752 Only) See pg. 61 for port locations.
TC	Steam Trace Block - Carbon Steel
TH	Hydrostatic Testing
TS	Steam Trace Block - 316 SS (Not available with M-773)
VC	CS Versa-Mount Bracket
VS	316 SS Versa-Mount Bracket
VCH	CS Heavy-Duty Versa-Mount Bracket
VSH	316 SS Heavy-Duty Versa-Mount Bracket
W	Safety Bonnet Lock Plate
WA	CS
WAW3	300 SS 2-¼" Bolts for Rosemount® 3051C, 3095, or 2024 with Coplanar™ (Flange Manifolds Only)
WAW9	316 SS
WK	Paper Tag
W1	316 SS Tag (20 Characters - See page 61)
W3	300 SS Standard Length Flange Bolts (CS Standard)
W9	316 SS Standard Length Flange Bolts (CS Standard)
XL	Clean for Critical Service (Oxygen or Chlorine)
X3	(2) ¼" Test Ports on Instrument Flange (Available on M-652, M-752 and M-773) See pg. 61 for port locations.

PRESSURE & TEMPERATURE

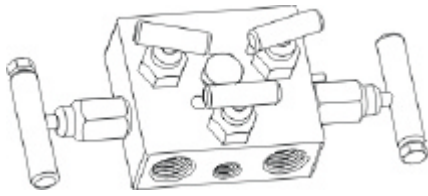
BODY MATERIAL	HARD SEAT	
	Teflon Pressure-Core	Grafoil
Carbon Steel Code C	10,000 PSI @ 200° F 8,000 PSI @ 450° F	Not Available.
A105 Carbon Steel Code P	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 800° F
316 SS Code S	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 1,000° F
See Page 5: Chart D Chart F		
BODY MATERIAL	SOFT SEAT (Delrin)	
	Teflon Pressure-Core	PEEK
Carbon Steel Code C	6,000 PSI @ 200° F Max.	6,000 PSI @ 200° F 3,000 PSI @ 400° F
316 SS Code S	6,000 PSI @ 200° F Max.	6,000 PSI @ 200° F 3,000 PSI @ 400° F
See Page 5: Chart A Chart A		

Five-Valve Manifolds

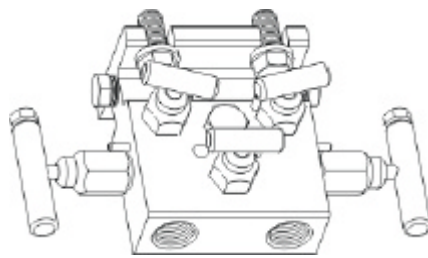
.250" ORIFICE

Description

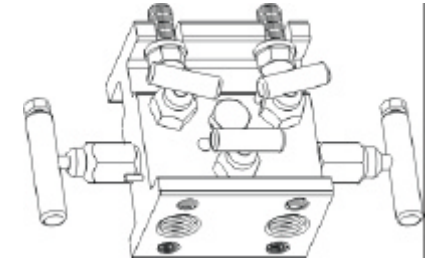
1/2" FNPT x 1/2" FNPT



1/2" FNPT x Flange

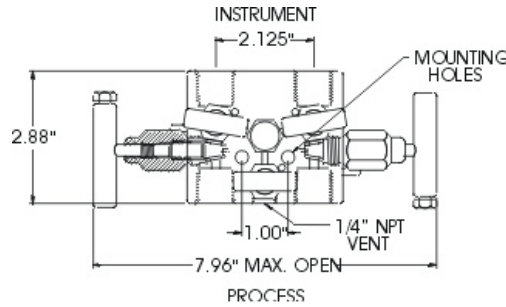


Flange x Flange

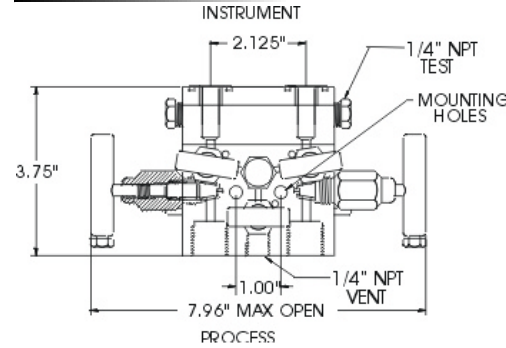


Body Style

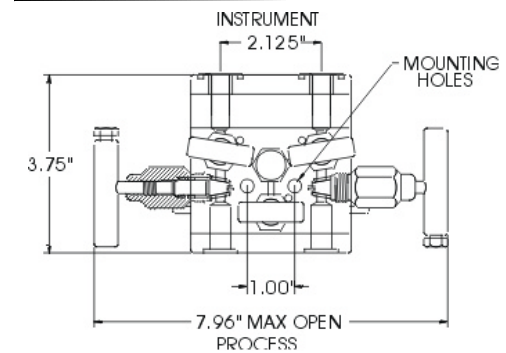
M2-573 Soft Seat



M2-673 Soft Seat



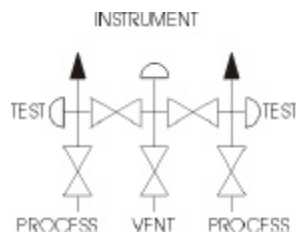
M2-773 Soft Seat



MATERIALS OF CONSTRUCTION

SEAT	MAX Cv RATINGS
Soft Cone	1.4
Approx. Manifold Weight:	4.7 lbs each [M2-573] 5.7 lbs each [M2-673] 6.2 lbs each [M2-773]

NOTE: M2-573 / 773: TEST PORTS LOCATED ON BOTTOM SIDE OF MANIFOLD.



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 B164-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-TYPE 1	ASTM A449-TYPE 1	ASTM F593 (18-8)	ASTM F593 (18-8)

- Carbon Steel Manifolds are Zinc Cobalt Plated with Dichromate Dip
- 316 SS Manifolds Meet NACE MR0175 Requirements (Latest Revision)
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are AISI 1018

Five-Valve Manifolds

.250" ORIFICE

FIVE-VALVE MANIFOLDS

ORDERING INFORMATION

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE	OPTION CODES
Soft Seat				
M 2 - 5 7 3			-	
M 2 - 6 7 3			-	
M 2 - 7 7 3			-	

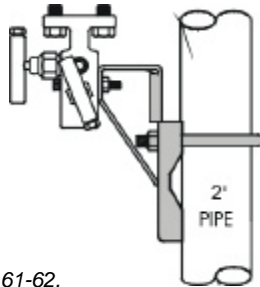
BODY CODE	
[Std.] Carbon Steel	C
[Std.] 316 SS	S
Monel®	M
Hastelloy-C®	H

SOFT SEAT CODE	
D	Delrin® Cone [Std.]
K	Kel-F® Cone
P	PEEK® Cone
T	Teflon® Cone
Z	Tefzel Cone

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

OPTIONS

- Versa-Mount Brackets
- Bonnet Handle Lock-Out
- Bonnet Lock Plates
- Steam Trace Block
- Integral Tube Fitting Connections



See Options/Accessories Pages 61-62.

OPTION CODE	OPTION DESCRIPTION
AU7	½" Integral Tube Fitting - Parker® A-LOK Dual Ferrules (Process Ports)
AV7	½" Integral Tube Fitting - Swagelok® Dual Ferrules (Process Ports)
GC	Anti-Tamper Bonnet (Isolate Valves Only)
GK	Bonnet Lock-Out (Isolate Valve(s) Only - Lock Not Provided)
MH	Viton® O-Ring Flange Seals
MU	Dielectric Isolation (Flange Manifolds Only)
M7	Required Slotting for Rosemount® 1151 Transmitters Series 6 & Above (Flange Manifolds Only)
PB	(2) ¼" Constant Purge Ports (Bottom) See pg. 61 for port locations.
PT	(2) ¼" Constant Purge Ports (Top - M2-673/773 Only) See pg. 61 for port locations.
P1	Purge or Test Connections
TC	Steam Trace Block - Carbon Steel
TH	Hydrostatic Testing
TS	Steam Trace Block - 316 SS
VC	CS Versa-Mount Bracket
VS	316 SS Versa-Mount Bracket
VCH	CS Heavy-Duty Versa-Mount Bracket
VSH	316 SS Heavy-Duty Versa-Mount Bracket
W	Safety Bonnet Lock Plate
WA	CS
WAW3	300 SS
WAW9	316 SS
	2-¼" Bolts for Rosemount® 3051C, 3095, or 2024 with Coplanar™ (Flange Manifolds Only)
WK	Paper Tag
W1	316 SS Tag (20 Characters - See page 61)
W3	300 SS Standard Length Flange Bolts (CS Standard)
W9	316 SS Standard Length Flange Bolts (CS Standard)
XL	Clean for Critical Service (Oxygen or Chlorine)
X3	(2) ¼" Test Ports on Instrument Flange (Available on M2-773 Only) See pg. 61 for port locations.

PRESSURE & TEMPERATURE

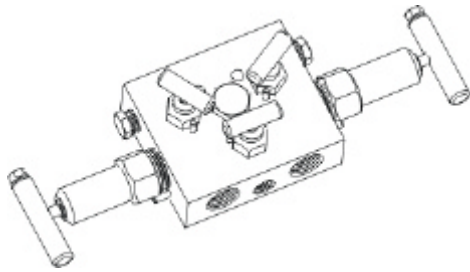
BODY MATERIAL	SOFT SEAT (Delrin)	SOFT SEAT (Peek)
	Teflon Pressure-Core	Teflon Pressure-Core
Carbon Steel	6,000 PSI @ 200° F Max.	6,000 PSI @ 200° F 3,000 PSI @ 400° F
316 SS	6,000 PSI @ 200° F Max.	6,000 PSI @ 200° F 3,000 PSI @ 400° F
See Page 5:	Chart A	Chart A

Five-Valve Manifolds

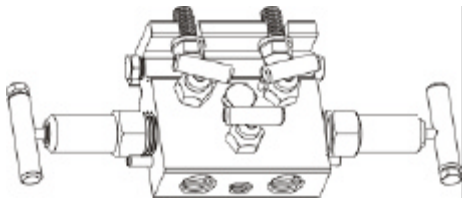
.375" ORIFICE

Description

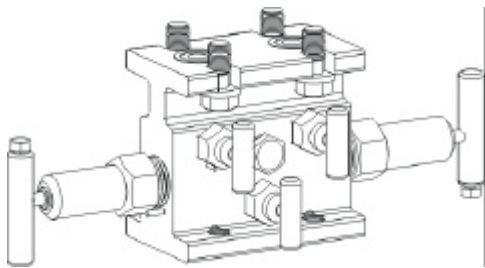
1/2" FNPT x 1/2" FNPT



1/2" FNPT x Flange

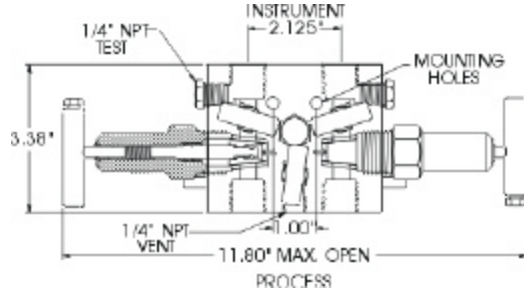


Flange x Flange

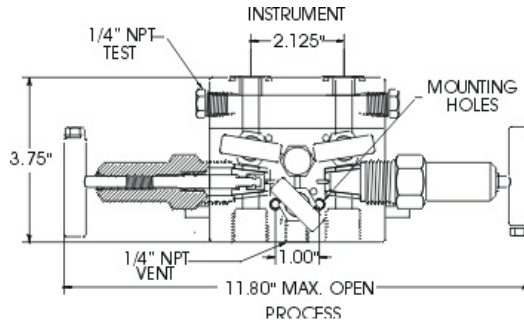


Body Style

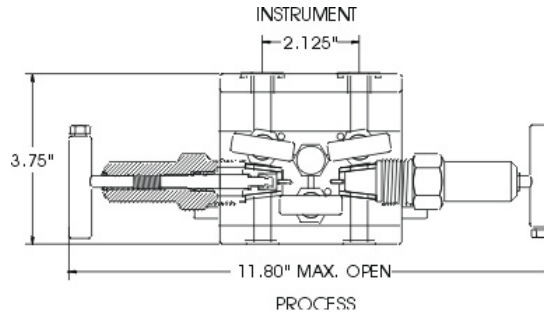
M3-573 Soft Seat



M3-673 Soft Seat



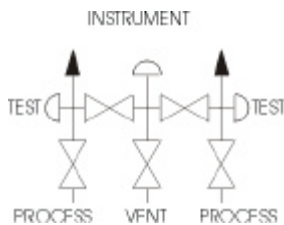
M3-773 Soft Seat



MATERIALS OF CONSTRUCTION

SEAT	MAX Cv RATINGS
Soft Cone	3.0
Approx. Manifold Weight:	7.1 lbs each [M3-573] 7.7 lbs each [M3-673] 8.3 lbs each [M3-773]

NOTE: M3-773: TEST PORTS LOCATED ON BOTTOM SIDE OF MANIFOLD.



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 ASTM A494 CW-12MW
Bonnet	ASTM A108-1215	ASTM A479-316	ASTM B164-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-TYPE 1	ASTM A449-TYPE 1	ASTM F593 (18-8)	ASTM F593 (18-8)

- Carbon Steel Manifolds are Zinc Cobalt Plated with Dichromate Dip
- 316 SS Manifolds Meet NACE MR0175 Requirements (Latest Revision)
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are AISI 1018

Five-Valve Manifolds

.375" ORIFICE

FIVE-VALVE MANIFOLDS

ORDERING INFORMATION

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE	OPTION CODES			
Soft Seat							
M 3 - 5 7 3				-			
M 3 - 6 7 3				-			
M 3 - 7 7 3				-			

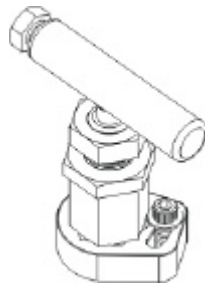
BODY CODE	
[Std.] Carbon Steel	C
[Std.] 316 SS	S
Monel®	M
Hastelloy-C®	H

SOFT SEAT CODE	
L	Rylon® Cone [Std.]
K	Kel-F® Cone
P	PEEK® Cone
T	Teflon® Cone
D	Delrin® Cone
6	316 SS Cone

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

OPTIONS

- Bonnet Lock Plates
- Versa-Mount Brackets
- Bonnet Handle Lock-Out
- Steam Trace Block
- Integral Tube Fitting Connections



See Options/Accessories Pages 61-62.

PRESSURE & TEMPERATURE

BODY MATERIAL	SOFT SEAT (Delrin)	SOFT SEAT (Rylon)
Carbon Steel	6,000 PSI @ 200° F Max.	1,500 PSI @ 200° F Max.
316 SS	6,000 PSI @ 200° F Max.	1,500 PSI @ 200° F Max.

See Page 5: Chart A Chart A

OPTION CODE	OPTION DESCRIPTION
AU7	½" Integral Tube Fitting - Parker® A-LOK Dual Ferrules (Process Ports)
AV7	½" Integral Tube Fitting - Swagelok® Dual Ferrules (Process Ports)
GC	Anti-Tamper Bonnet (Isolate Valve(s) Only)
GK	Bonnet Lock-Out (Isolate Valve(s) Only - Lock Not Provided)
MD	Versa-Mount Bracket Holes (M3-673 Only)
MH	Viton® O-Ring Flange Seals
MU	Dielectric Isolation (Flange Manifolds Only)
M7	Required Slotting for Rosemount® 1151 Transmitters Series 6 & Above (Flange Manifolds Only)
PB	(2) 1/8" Constant Purge Ports (Bottom - M3-573 / 773 Only) See pg. 61 for port locations.
PS	(2) ¼" Side Purge with Plugs (M3-773 Only) See pg. 61 for port locations.
P1	Purge or Test Connections
TC	Steam Trace Block - Carbon Steel
TH	Hydrostatic Testing
TS	Steam Trace Block - 316 SS
VC	CS Versa-Mount Bracket
VS	316 SS Versa-Mount Bracket
VCH	CS Heavy-Duty Versa-Mount Bracket
VSH	316 SS Heavy-Duty Versa-Mount Bracket
W	Safety Bonnet Lock Plate
WA	CS
WAW3	300 SS
WAW9	316 SS
WK	Paper Tag
W1	316 SS Tag (20 Characters - See page 61)
W3	300 SS Standard Length Flange Bolts (CS Standard)
W9	316 SS Standard Length Flange Bolts (CS Standard)
XL	Clean for Critical Service (Oxygen or Chlorine)
x3	(2) ¼" Test Ports on Instrument Flange (Available on M3-773) See pg. 61 for port locations.