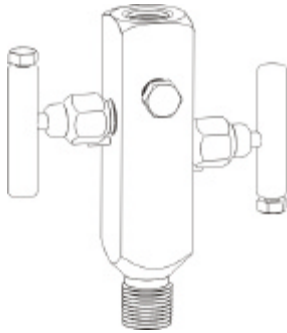


# Two-Valve Block & Bleed Manifolds

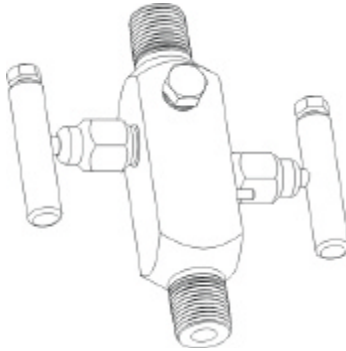
**.187" ORIFICE**

## Description

**1/2" MNPT x 1/2" FNPT**

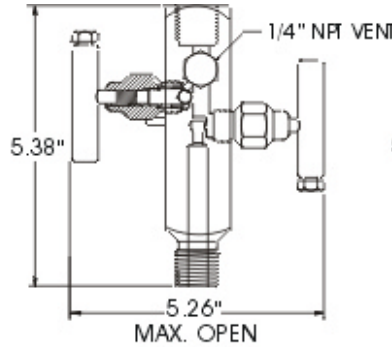


**1/2" MNPT x 1/2" MNPT**

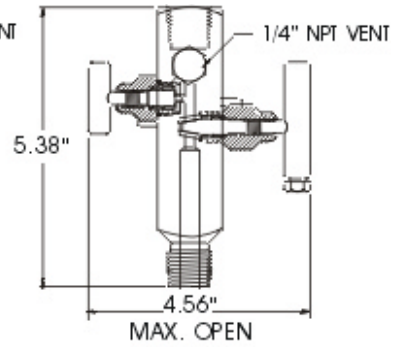


## Body Style

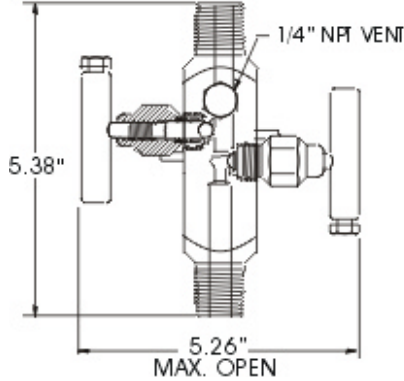
**V-570 Hard Seat**



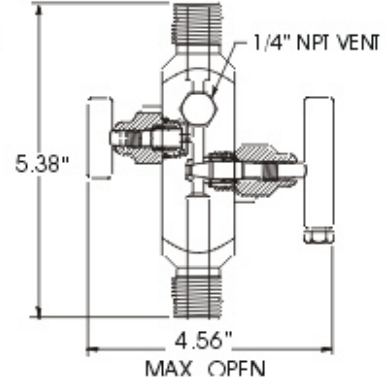
**V-575 Soft Seat**



**V-612 Hard Seat**



**V-613 Soft Seat**



*Above drawings shown with P9 Pipe Plug Option.*

## MATERIALS OF CONSTRUCTION

SEAT	MAX Cv RATINGS
Hard Ball	.53
Soft Cone	.83
Approx. Manifold Weight:	3.0 lbs each [V-570 / 575 / 612 / 613]



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	ASTM B574-N10276
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 A108-1215	ASTM F593 (18.8)	ASTM A182-F (18-8)	ASTM B164-N04405	ASTM B574-N10276

- 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

# Two-Valve Block & Bleed Manifolds

.187" ORIFICE

TWO-VALVE BLOCK & BLEED MANIFOLDS

## ORDERING INFORMATION

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE	OPTION CODES
<b>Hard Seat</b>				
V - 570				-
V - 612				-
<b>Soft Seat</b>				
V - 575				-
V - 613				-

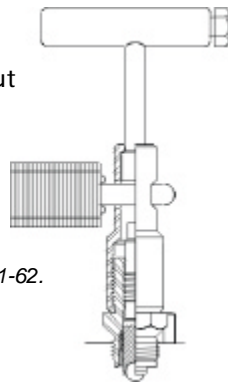
BODY CODE	
[Std.] Carbon Steel	C
A105 Carbon Steel	P
[Std.] 316 SS	S
Monel®	M
Hastelloy-C®	H

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
Hastelloy-C® Ball	H	T	Teflon® Cone / Washer
K-Monel® Ball	N	Z	Tefzel Cone / Washer

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

## OPTIONS

- Bonnet Handle Lock-Out
- Bonnet Lock Plates



See Options/Accessories Pages 61-62.

OPTION CODE	OPTION DESCRIPTION
AM7	½" Male Pipe Socket Weld (Process Port)
GA	Anti-Tamper Bonnet (All Positions - Hard Seats Only)
GC	Anti-Tamper Bonnet (Isolate Valve Only)
GE	Anti-Tamper Bonnet (Vent Valve Only - Hard Seats Only)
GJ	Bonnet Lock-Out (All Positions - Lock Not Provided - Hard Seats Only)
GK	Bonnet Lock-Out (Isolate Valve Only - Lock Not Provided)
GM	Bonnet Lock-Out (Vent Valve Only - Lock Not Provided - Hard Seats Only)
P9	¼" Hex Head Pipe Plug in Vent/Test Port
TH	Hydrostatic Testing
W	Safety Bonnet Lock Plate
WK	Paper Tag
W1	316 SS Tag (20 Characters - See page 61)
XL	Clean for Critical Service (Oxygen or Chlorine)

## PRESSURE & TEMPERATURE

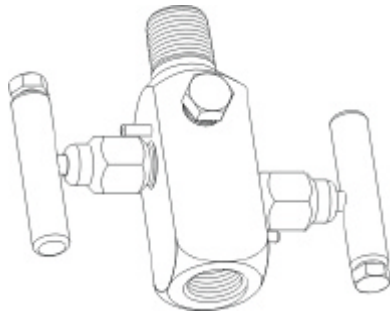
BODY MATERIAL	HARD SEAT	
	Teflon Pressure-Core	Grafoil
<i>Carbon Steel</i> Code C	10,000 PSI @ 200° F 8,000 PSI @ 450° F	Not Available.
<i>A105 Carbon Steel</i> Code P	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 800° F
<i>316 SS</i> Code S	10,000 PSI @ 200° F 8,000 PSI @ 450° 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	Teflon Pressure-Core
<i>Carbon Steel</i> Code C	6,000 PSI @ 200° F Max.	10,000 PSI @ 200° F 3,000 PSI @ 400° F
<i>316 SS</i> Code S	6,000 PSI @ 200° F Max.	10,000 PSI @ 200° F 3,000 PSI @ 400° F
See Page 5:	Chart B	Chart B

# Two-Valve Block & Bleed Manifolds

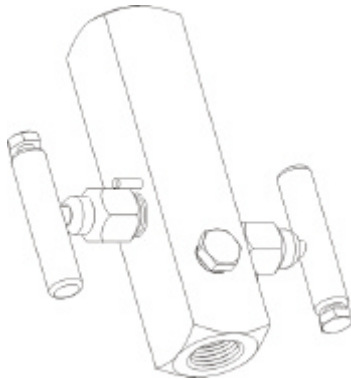
**.187" ORIFICE**

## Description

**1/2" FNPT x 1/2" MNPT**

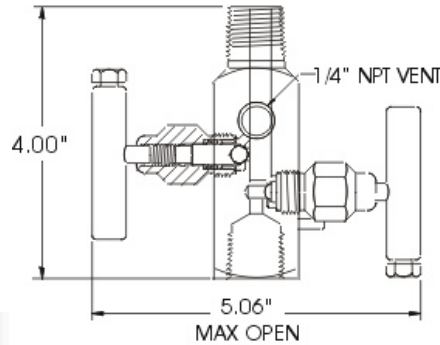


**1/2" FNPT x 1/2" FNPT**

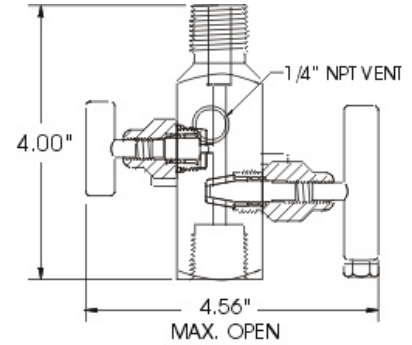


### Body Style

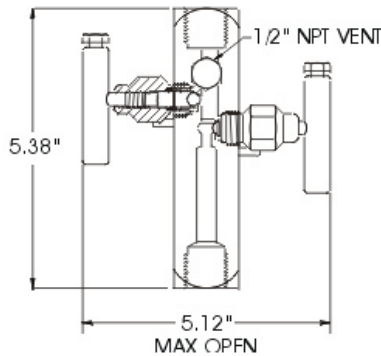
**V-614 Hard Seat**



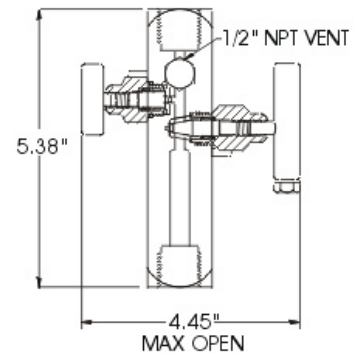
**V-615 Soft Seat**



**V-626 Hard Seat**



**V-627 Soft Seat**



*Above drawings shown with P9 Pipe Plug Option.*

## MATERIALS OF CONSTRUCTION

SEAT	MAX Cv RATINGS
Hard Ball	.53
Soft Cone	.83
Approx. Manifold Weight:	3.0 lbs each [V-626 / 627] 2.4 lbs each [V-614 / 615]

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	ASTM B574-N10276
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 A108-1215	ASTM F593 (18.8)	ASTM A182-F (18-8)	ASTM B164-N04405	ASTM B574-N10276



- 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

# Two-Valve Block & Bleed Manifolds

.187" ORIFICE

TWO-VALVE BLOCK & BLEED MANIFOLDS

## ORDERING INFORMATION

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE	OPTION CODES
<b>Hard Seat</b>				
V - 614			-	
V - 626			-	
<b>Soft Seat</b>				
V - 615			-	
V - 627			-	

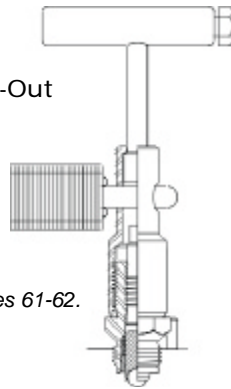
BODY CODE	
[Std.] Carbon Steel	C
A105 Carbon Steel	P
[Std.] 316 SS	S
Monel®	M
Hastelloy-C®	H

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
Hastelloy-C® Ball	H	T	Teflon® Cone / Washer
K-Monel® Ball	N	Z	Tefzel Cone / Washer

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

## OPTIONS

- Bonnet Handle Lock-Out
- Bonnet Lock Plates



See Options/Accessories Pages 61-62.

OPTION CODE	OPTION DESCRIPTION
AM7	½" Male Pipe Socket Weld (Process Port)
GA	Anti-Tamper Bonnet (All Positions - Hard Seats Only)
GC	Anti-Tamper Bonnet (Isolate Valve Only)
GE	Anti-Tamper Bonnet (Vent Valve Only - Hard Seats Only)
GJ	Bonnet Lock-Out (All Positions - Lock Not Provided - Hard Seats Only)
GK	Bonnet Lock-Out (Isolate Valve Only - Lock Not Provided)
GM	Bonnet Lock-Out (Vent Valve Only - Lock Not Provided - Hard Seats Only)
P9	¼" Hex Head Pipe Plug in Vent/Test Port
TH	Hydrostatic Testing
W	Safety Bonnet Lock Plate
WK	Paper Tag
W1	316 SS Tag (20 Characters - See page 61)
XL	Clean for Critical Service (Oxygen or Chlorine)

## PRESSURE & TEMPERATURE

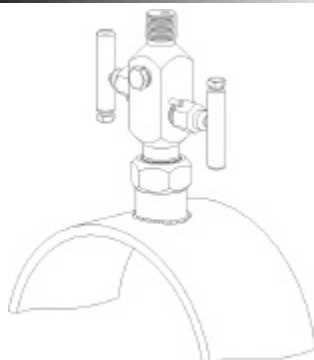
BODY MATERIAL	HARD SEAT	
	Teflon Pressure-Core	Grafoil
<i>Carbon Steel</i> Code C	10,000 PSI @ 200° F 8,000 PSI @ 450° F	Not Available.
<i>A105 Carbon Steel</i> Code P	10,000 PSI @ 200° F 8,000 PSI @ 450° F	6,000 PSI @ 200° F 1,500 PSI @ 800° F
<i>316 SS</i> Code S	10,000 PSI @ 200° F 8,000 PSI @ 450° 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	Teflon Pressure-Core
<i>Carbon Steel</i> Code C	6,000 PSI @ 200° F Max.	10,000 PSI @ 200° F 3,000 PSI @ 400° F
<i>316 SS</i> Code S	6,000 PSI @ 200° F Max.	10,000 PSI @ 200° F 3,000 PSI @ 400° F
See Page 5:	Chart B	Chart B

# Two-Valve Stabilized Block & Bleed Manifolds

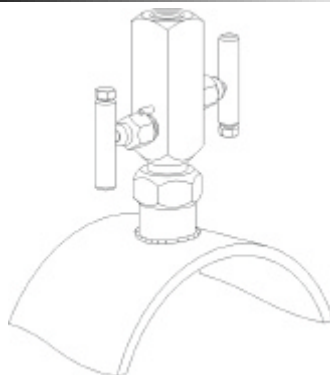
**.187" ORIFICE**

## Description

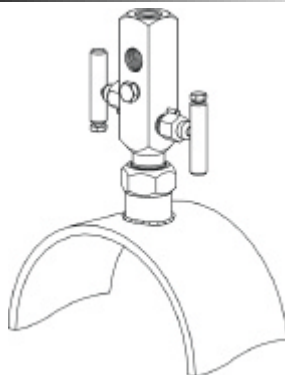
MNPT x 1/2" MNPT



MNPT x 1/2" FNPT

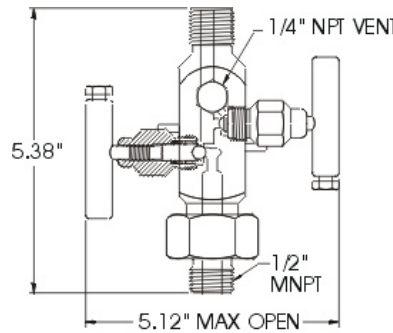


1/2" FNPT x (3) 1/2" FNPT

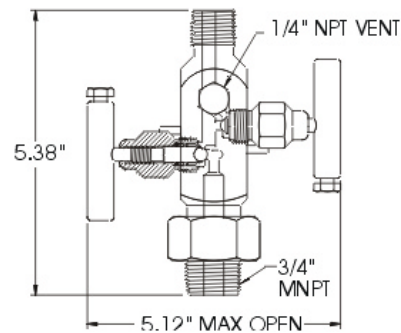


## Body Style

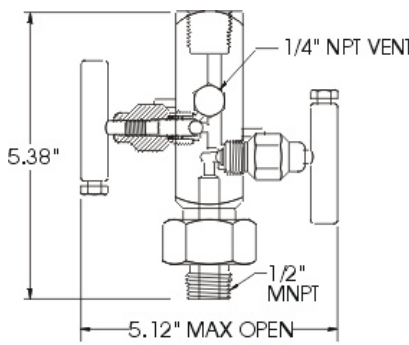
**V-700 Hard Seat**



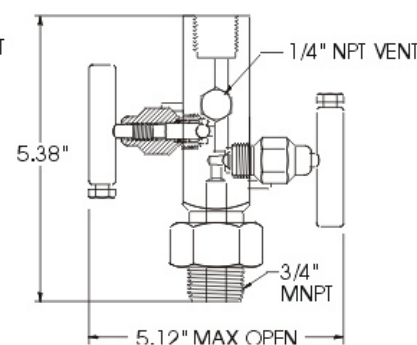
**V-702 Hard Seat**



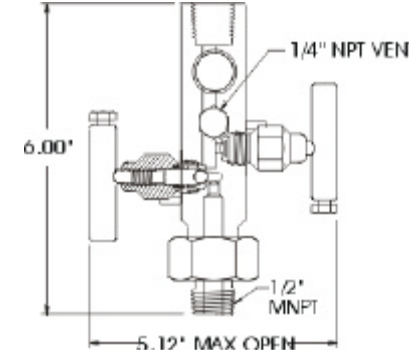
**V-704 Hard Seat**



**V-706 Hard Seat**



**V-708 Hard Seat**



*All drawings shown with P9 Pipe Plug Option.*

SEAT	MAX Cv RATINGS
Hard Ball	.53
Approx. Manifold Weight:	3.0 lbs each [V-700 / 702 / 704 / 706] 3.5 lbs each [V-708]



## MATERIALS OF CONSTRUCTION

PART DESCRIPTION	CARBON STEEL	316 SS	MONEL®	HASTELLOY-C®
Body		ASTM A479-316		
Bonnet		ASTM A479-316		
Stem	Manifold not available in Carbon Steel.	ASTM A479-316	Consult Factory.	Consult Factory.
Seal Retainer		ASTM A479-316		
Handle Assembly		ASTM A582 (18-8)		
Plug(s)		ASTM A182-F (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

# Two-Valve Stabilized Block & Bleed Manifolds

.187" ORIFICE

**TWO-VALVE BLOCK & BLEED MANIFOLDS**

## ORDERING INFORMATION

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE	OPTION CODES
<b>Hard Seat</b>				
V-700			-	
V-702			-	
V-704			-	
V-706			-	
V-708			-	

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

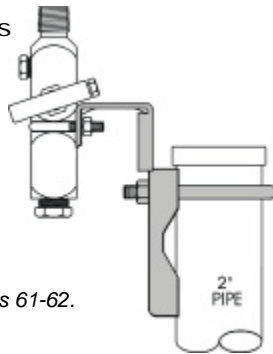
HARD SEAT CODE	
C	Carbide Ball [Std.]
R	Ceramic Ball
6	316 SS Ball

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

OPTION CODE	OPTION DESCRIPTION
GA	Anti-Tamper Bonnet (All Positions - Hard Seats Only)
GC	Anti-Tamper Bonnet (Isolate Valve Only)
GE	Anti-Tamper Bonnet (Vent Valve Only - Hard Seats Only)
GJ	Bonnet Lock-Out (All Positions - Lock Not Provided - Hard Seats Only)
GK	Bonnet Lock-Out (Isolate Valve Only - Lock Not Provided)
GM	Bonnet Lock-Out (Vent Valve Only - Lock Not Provided - Hard Seats Only)
P9	¼" Hex Head Pipe Plug in Vent/Test Port
TH	Hydrostatic Testing
W	Safety Bonnet Lock Plate
WK	Paper Tag
W1	316 SS Tag (20 Characters - See page 61)
XL	Clean for Critical Service (Oxygen or Chlorine)

## OPTIONS

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



See Options/Accessories Pages 61-62.

## PRESSURE & TEMPERATURE

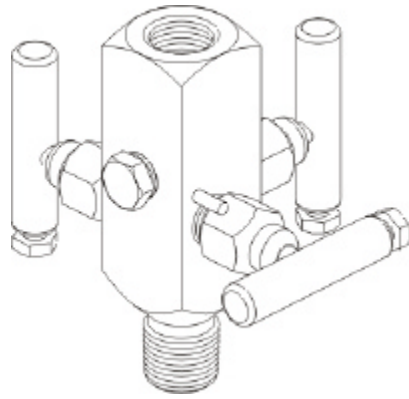
BODY MATERIAL	HARD SEAT	HARD SEAT
	Teflon Pressure-Core	Grafoil
316 SS	10,000 PSI @ 200° F	6,000 PSI @ 200° F
	8,000 PSI @ 450° F	1,500 PSI @ 1,000° F
See Page 5:	Chart D	Chart F

# Three-Valve Double Block & Bleed Manifolds

**.187" ORIFICE**

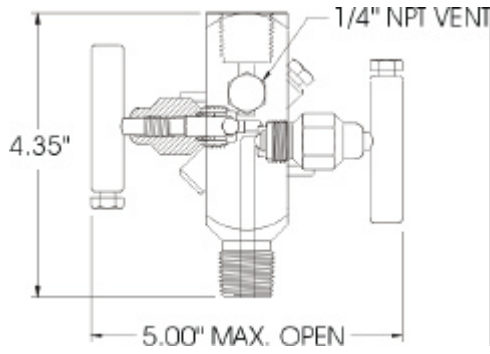
## Description

**1/2" MNPT x 1/2" FNPT**

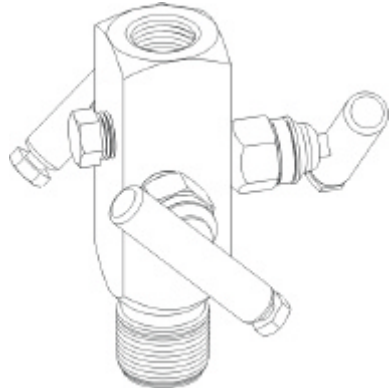


## Body Style

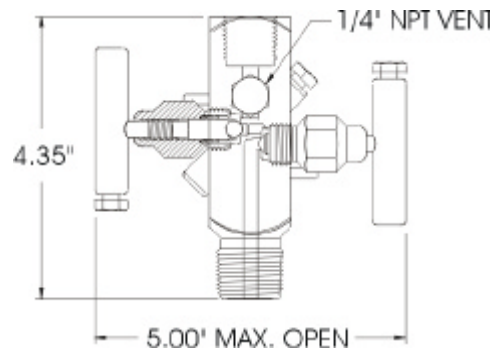
**V-690 Hard Seat**



**3/4" MNPT x 1/2" FNPT**



**V-692 Hard Seat**



*Above drawings shown with P9 Pipe Plug Option.*

SEAT	MAX Cv RATINGS
Hard Ball	.53
Soft Cone	.83
Approx. Manifold Weight:	3.0 lbs each [V-690 / 692]



## MATERIALS OF CONSTRUCTION

PART DESCRIPTION	CARBON STEEL	316 SS	MONEL®	HASTELLOY-C®
Body		ASTM A479-316		
Bonnet		ASTM A479-316		
Stem	Consult Factory.	ASTM A479-316	Consult Factory.	Consult Factory.
Seal Retainer		ASTM A479-316		
Handle Assembly		ASTM A582 (18-8)		
Plug(s)		ASTM A182-F (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 Double Block & Bleed Manifolds

.187" ORIFICE

**THREE-VALVE BLOCK & BLEED MANIFOLDS**

## ORDERING INFORMATION

BODY STYLE	BODY CODE	SEAT CODE	STEM SEAL CODE	OPTION CODES				
<b>Hard Seat</b>								
V-690				-				
V-692				-				

BODY CODE
[Std.] 316 SS   S

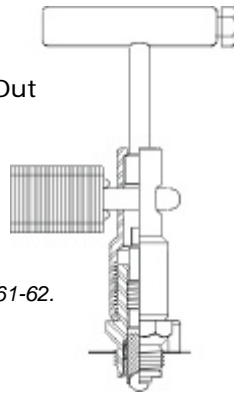
HARD SEAT CODE	
C	Carbide Ball [Std.]
R	Ceramic Ball
6	316 SS Ball

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

## OPTIONS

- Bonnet Handle Lock-Out
- Bonnet Lock Plates

See Options/Accessories Pages 61-62.



OPTION CODE	OPTION DESCRIPTION
AM7	½" Male Pipe Socket Weld (Process Port)
GA	Anti-Tamper Bonnet (All Positions)
GC	Anti-Tamper Bonnet (Isolate Only)
GE	Anti-Tamper Bonnet (Vent Valve Only)
GJ	Bonnet Lock-Out (All Positions - Lock Not Provided)
GK	Bonnet Lock-Out (Isolate Only - Lock Not Provided)
GM	Bonnet Lock-Out (Vent Valve Only - Lock Not Provided)
P9	¼" Hex Head Pipe Plug in Vent/Test Port
TH	Hydrostatic Testing
W	Safety Bonnet Lock Plate
WK	Paper Tag
W1	316 SS Tag (20 Characters - See page 61)
XL	Clean for Critical Service (Oxygen or Chlorine)

## PRESSURE & TEMPERATURE

BODY MATERIAL	HARD SEAT	HARD SEAT
	Teflon Pressure-Core	Grafoil
316 SS	10,000 PSI @ 200° F	6,000 PSI @ 200° F
	8,000 PSI @ 450° F	1,500 PSI @ 1,000° F
See Page 5:	Chart D	Chart F