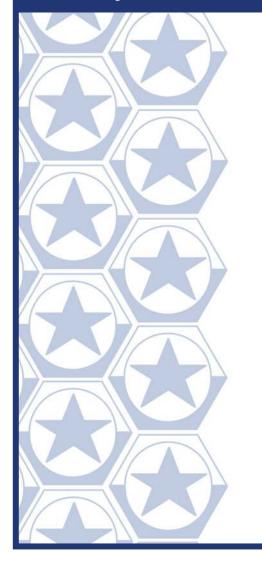
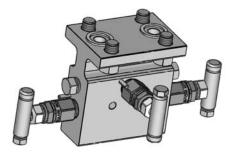
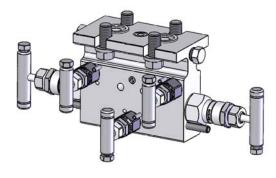


Quality Products at a Value Price













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Cross reference of model/page numbers

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Instrument Needle Valves-90° Angle Style

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Additional Parker PGI Product Offerings

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Pressure Valves

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Parker PGI

Parker PGI, founded as General Screw Products Company in 1941, began as a contract manufacturer for the oil and gas industry. Parker PGI has since evolved into a leading designer, manufacturer and distributor of innovative and diverse products for the energy and process industries. Based in Houston, Texas, Parker PGI currently has over 180,000 square feet of manufacturing capability and over 400 employees worldwide. As the markets we service expand, Parker PGI's quality products are demanded and specified worldwide. For companies that demand the best, Parker PGI delivers "Excellence Through Innovation."

Product Warranty

Parker PGI warrants its products to be free from defects in material and/or workmanship for a period of one (1) year from date of shipment. This guarantee is valid only if such products have been used in normal applications consistent with our recommendations. Our liability is limited to repair or replacement and no responsibility is assumed for consequential damage or expense. Any controversy arising out of the sale of Parker PGI products shall be determined in accordance with the laws of the State of Texas, United States of America (USA).

Parker PGI reserves the right to change materials, specifications or designs without notice. Parker PGI will not be obligated to install or furnish such changes on products previously sold.

Sales Policy

Our products are sold through authorized manufacturer representatives or direct from our factory sales office. All orders are subject to acceptance by Parker PGI, headquarters located in Houston, Texas (USA). Prices are subject to change without notice and any errors in published prices are subject to correction. No materials may be returned for credit without written authorization from our Houston office. In issuing credit for returned material, we reserve the right to deduct a reconditioning and handling charge. Special items, not conforming to our standard line, will not be accepted for credit.

Special Orders

Parker PGI has been a custom manufacturer of valve components since 1941. Parker PGI invites inquiries for special variations and will work with you to solve your specific application problems.

Oxygen & Chlorine Service

To insure the quality, safety and cleanliness levels of our products, Parker PGI has a verifiable, environmentally controlled system of precision cleaning for Oxygen and Chlorine Service.

- Parts are cleaned with an approved liquid cleaner in an ultrasonic vibrator.
- Inspection of parts is done with an Ultraviolet light to detect contaminants such as hydrocarbons and minute particles that are not visible to the naked eye.
- Each part is tagged and heat-sealed in a double bag to prevent contamination in transit.
- Upon completion of cleaning process, Carbon Steel Valves discolor to a silver-greenish sheen. This does not affect manifold performance in any way.

Manufacturing Standards & Compliances

Lone Star Products are Manufactured, Conform and are Certified to the Following Agencies and Associations:

- ISO 9001: 2008 Certified Quality System
- Canadian Registration Number (CRN)
- CE Pressure Equipment Directive Conformity
- National Association of Corrosion Engineers (NACE MR0175/ISO 15156-3)
- ASME/ANSI B1.20.1 General Pipe Threads
- ASME/ANSI B16.34 Valves Flanged, Threaded

- ASME/ANSI B16.11 Fittings/Socket Weld, etc.
- ASME/ANSI B31.3 Process Piping
- MSS SP-25 Standard Valve Markings
- MSS SP-82 Valve Pressure Testing Methods
- MSS SP-99 Instrument Valves
- MSS SP-105 Instrument Valves for Code Applications

Visit Parker.com/Safety

SOFT "WASHER" SEATS: .136" Orifice

Features

 PGI "Washer" Seat

Benefits

- Throttling and shut-off design
- Interchangeable between soft or metal seats
- Easily replaced
- Available in a variety of materials

INTEGRAL METAL TO METAL SEAT: .136" Orifice



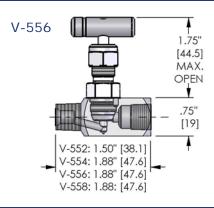
FeaturesPGI Inter

 PGI Integral Metal Seat

Benefits

- Throttling and shut-off design
- Interchangeable between soft or metal seats

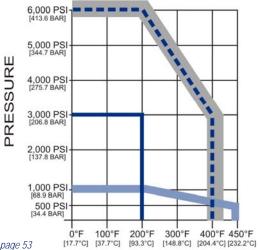
Dimensions, inches [mm]



Note Regarding Handle Types:							
Soft Seated Valves	CS or SS Round Handles as Standard						
Hard Seat Valves	CS or SS Bar Handles as Standard						

Pressure vs. Temperature





See page 53 for more press/ temp details.

PROCESS TEMPERATURE

Materials of Construction								
Part	Carbon Steel	316 Stainless Steel						
Body / Bonnet	ASTM A108	ASTM A479-316						
Packing "T" / "V"	PTFE / Viton® O-Ring	PTFE / Viton® O-Ring						
Stem	ASTM A479-316	ASTM A479-316						
Packing Nut (TFE Packed Only)	ASTM A108	ASTM A582-303						
Handles: Soft Seated Valves	CS or SS Round Handles are Standard							
Handles: Hard Seat Valves	CS or SS Bar Handles ar	re Standard						

Part Number Selection

Base Model

Inlet x Outlet									
V-	552	/4" MNPT x 1/4" FNPT Angle							
V-	554	1/4" MNPT x 1/4" MNPT							
V-	556	1/4" MNPT x 1/4" FNPT							
V-	558	1/4" FNPT x 1/4" FNPT							
	E	Body Material Code							
		C ASTM A108							
		S ASTM A479-316 SS							
		Seat Material Code							
		M Metal (Standard)							
		D Delrin® (Standard)							
		K Kel-F®							
		P Peek®							
		Stem Packing/Seal Code							
		T Mini PTFE Packed							
		V Viton® O-Ring							

Max Cv Ratings Body Style Straight Angle

.136" Orifice	Straight	Angle
Soft Seat	.22	.27
Metal Seat	.25	.32

Approx. Valve Weight: .25 lbs. [.11 kg] ea.

Notes

 PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention

Options [pages 49-50]

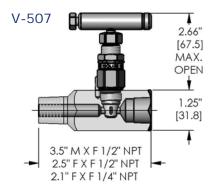
- PGI 316 SS products meet the requirements of NACE MR0175/ ISO 15156-3
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

SOFT SEAT: .187" Orifice **Features**

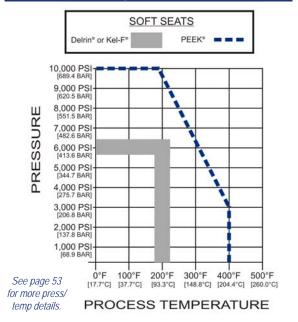
PGI Soft Cone Seat

- Roddable straight-through design
- Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- Bi-directional flow

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction									
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel						
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316						
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring						
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316						
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303						
Handle Assembly	ASTM A108	ASTM A108	300 Series SS						

Part Number Selection

-				⊶.	•	,	~		
В	ase	Mc	odel						
	Bi-Directional Flow								
	V-	5	01	1/	4" N	ЛNF	Tx1	1/4" FNI	PT
	V-	5	03	1/	4" F	NP	T x 1	/4" FNF	PT
	V-	5	07	1/	2" N	ЛNF	Τxĺ	1/2" FNI	PT
	V-	5	09	1/	2" F	NP	T x 1	/2" FNF	PT
	V-	5	29	3/	4" N	ЛNF	Τxĺ	1/2" FNI	PT
	V-	5	31	1/	2" N	ЛNF	Τx´	1/4" FNI	PT
			В	od	у М	ate	rial C	Code	
				С	AS	STN	A10	18	
				S	A٩	STN	A47	9-316	SS
				Р	A٩	STN	A69	6*	
					S	eat	Mate	rial Co	de
						D	Delr	in® <i>(St</i>	tandard)
						K	Kel-	F®	
						Р	Peel	K [®]	
							Sten	n Packi	ng/Seal Code
							Р	PTFE	(Below threads)
V Viton® O-Ring									
							Т		-
	V-							-	Options [pages 49-50]

Max Cv Ratings Straight Body Style .187" Orifice

Approx. Valve Weight: 1.30 lbs. [.58 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

HARD BALL SEAT: .187" Orifice Features

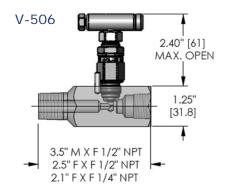


PGI Standard
 316 SS Ball
 Seat

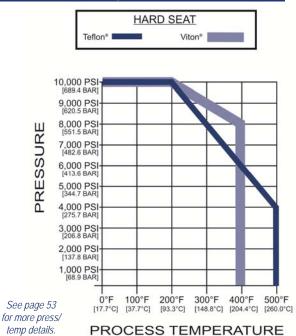
Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction									
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel						
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316						
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring						
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316						
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303						
Handle Assembly	ASTM A108	ASTM A108	300 Series SS						

Part Number Selection

В	ase	Mc	del						
				In	let x	(Οι	ıtlet		
	V-	5	00	1/	4" N	1NF	PT x 1/4	" FNF	PT
	V-	5	02	1/	'4" F	NP	T x 1/4'	' FNP	'T
	V-	5	06	1/	'2" N	1NF	PT x 1/2	" FNF	PΤ
	V-	5	80	1/	'2" F	NΡ	T x 1/2'	' FNP	T T
	V-	5	28	3/	4" N	1NF	PT x 1/2	" FNF	PT
	V-	5	30	1/	'2" N	1NF	PT x 1/4	" FNF	PT
	V-	5	40	3/	'4" F	NΡ	T x 3/4'	' FNP	T T
			В	od	у М	ate	rial Co	de	
				С	AS	STM	1 A108		
				S	AS	STM	1 A479-	316 S	S
				Р	AS	STN	1 A696*		
					S	eat	Materia	al Co	de
						6	316 SS	S Ball	(Standard)
						С	Carbid	e Ball	
						N	Monel®	ð	
							Stem P	Packii	ng/Seal Code
	P PTFE (Below threads)							(Below threads)	
	V Viton® O-Ring						O-Ring		
	1				_				
	V-							-	Options [pages 49-50]

Max Cv Ratings							
.187" Orifice	Straight Body Style						
.107 Office	.53						

Approx. Valve Weight: 1.30 lbs. [.58 kg] ea.

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

^{*} Barstock equivalent of ASTM A105



Instrument Needle Valve-90° Angle Style

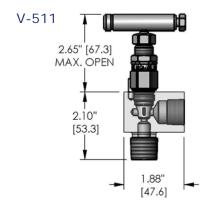
SOFT SEAT: .187" Orifice **Features**

PGI Soft Cone Seat

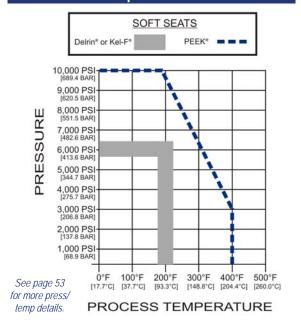
Benefits

- Roddable design
- Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- Bi-directional flow

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction									
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel						
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316						
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring						
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316						
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303						
Handle Assembly	ASTM A108	ASTM A108	300 Series SS						

Part Number Selection Base Model Bi-Directional Flow 1/2" MNPT x 1/2" FNPT **Body Material Code** C ASTM A108 S ASTM A479-316 SS P ASTM A696* Seat Material Code D Delrin® (Standard) K Kel-F® P Peek® Stem Packing/Seal Code P PTFE (Below threads) V Viton® O-Ring V-511 Options (pages 49-50)

wax ov itatiligs						
.187" Orifice	Straight Body Style					
.107 Office	.79					
Approx. Valve Weight: 1.00 lbs. [.45 kg] ea.						

Max Cy Ratings

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
 - Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

Instrument Needle Valves-90° Angle Style

HARD BALL SEAT: .187" Orifice



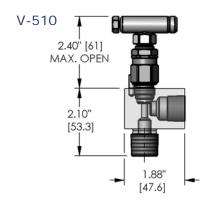
Features

PGI Standard 316 SS *Ball* Seat

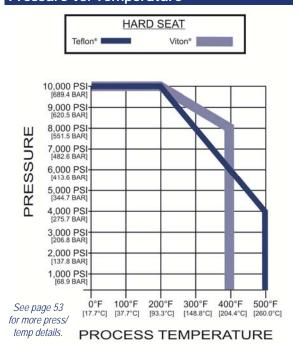
Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- · Available in a variety of materials

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction								
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel					
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316					
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring					
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316					
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303					
Handle Assembly	ASTM A108	ASTM A108	300 Series SS					

Part Number Selection

Base	Mc	del							
	Inlet x Outlet								
V-	5	10	1/2	" M	NF	РТ х	1/:	2" FNF	PΤ
V-	5	14	1/4	" FI	NΡ	Тх	1/4	" FNP	Т
		E	Body	Ма	ite	rial	Сс	de	
			С	AS	TΝ	1 A1	108		
			S	AS	T٨	1 A	179	-316 S	iS
			Р	AS	T٨	1 A6	596	*	
			Т	Se	at	Ма	teri	al Co	de
				(6	31	6 S	S Ball	(Standard)
				(2	Ca	rbio	de Ball	
				I	V	Мс	ne	(8)	
						Ste	m	Packir	ng/Seal Code
						P	F	PTFE	(Below threads)
						٧	۱ ۱	/iton®	O-Ring
V-						П		-	Options [pages 49-50]

Max Cv Ratings .187" Orifice Straight Body Style .53

Approx. Valve Weight: 2.00 lbs. [.91 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

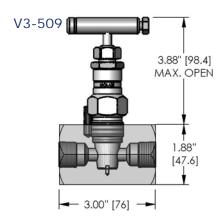
SOFT SEAT: .375" Orifice **Features**

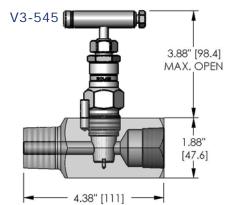
PGI Soft Cone Seat

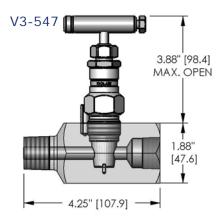
Benefits

- Roddable straight-through design
- Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- Bi-directional flow

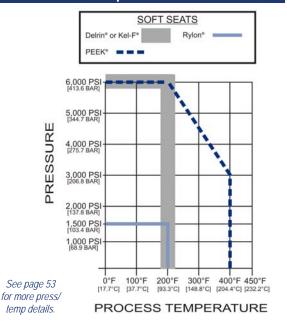
Dimensions, inches [mm]







Pressure vs. Temperature



Materials of Construction								
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel					
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316					
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring					
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316					
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303					
Handle Assembly	ASTM A108	ASTM A108	300 Series SS					

Part Number Selection

В	ase N	lode	el						
	V3-	50	7	1/2" MNPT x 1/2" FNPT					
	V3-	50	9	1/2" FNPT x 1/2" FNPT					
	V3-	52	9	3/4" MNPT x 1/2" FNPT					
	V3-	53	7	1" MNPT x 1/2" FNPT					
	V3-	54	1	3/4" FNPT x 3/4" FNPT					
	V3-	54	3	1" FNPT x 1" FNPT					
	V3-	54	5	1" MNPT x 1" FNPT					
	V3-	54	7	3/4" MNPT x 3/4" FNPT					
			В	Body Material Code					
				C ASTM A108					
				S ASTM A479-316 SS					
				Seat Material Code					
				D Delrin® (Standard)					
				K Kel-F®					
				P Peek®					
				Stem Packing/Seal Code					
				P PTFE (Below threads)					
				V Viton [®] O-Ring					
	V3-			- Options [pages 49-50]					

Max Cv Ratings Straight Body Style .375" Orifice Approx. Valve Weight:

3.00 lbs. [1.36 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

HARD BALL SEAT: .375" Orifice



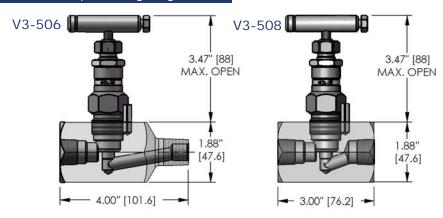
Features

PGI Standard 316 SS *Ball* Seat

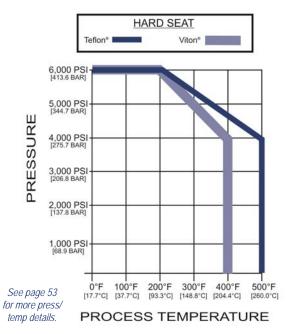
Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction								
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel					
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316					
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring					
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316					
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303					
Handle Assembly	ASTM A108	ASTM A108	300 Series SS					

Part Number Selection

Base Model

Inlet x Outlet								
V3- 506	1/2" MNPT x 1/2" FNPT							
V3- 508	1/2" FNPT x 1/2" FNPT							
V3- 540	3/4" FNPT x 3/4" FNPT							
V3- 542	1" FNPT x 1" FNPT							
V3- 544	1" MNPT x 1" FNPT							
E	Body Material Code							
	C ASTM A108							
	S ASTM A479-316 SS							
	P ASTM A696*							
	Seat Material Code							
	6 316 SS Ball (Standard)							
	C Carbide Ball							
	N Monel®							
	Stem Packing/Seal Code							
	P PTFE (Below threads)							
	V Viton® O-Ring							
V3-	- Options [pages 49-50]							

Max Cv Ratings

.375" Orifice Straight Body Style

Approx. Valve Weight: 3.00 lbs. [1.36 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

SOFT SEAT: .187" Orifice

Features PGI Soft

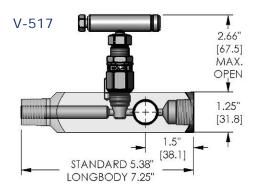
Cone Seat

- Roddable straight-through design
- Leak free, bubble tight seating
- Easily replaced

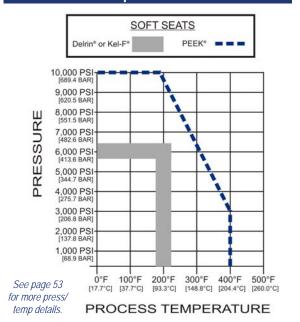
Benefits

- Available in a variety of materials
- Bi-directional flow

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction								
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel					
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316					
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring					
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316					
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303					
Handle Assembly	ASTM A108	ASTM A108	300 Series SS					

Part Number Selection

В	ase	Mc	odel									
	Inlet x Outlets											
	V-	5	17	1/	2" N	1NP	PT x (3) 1	1/2" I	NPT (Standard)		
	V-	5	19	3/	4" N	1NP	РТ х (3) 1	1/2" I	-NPT (Standard)		
	V-	5	73	1/	2" N	1NP	РТ х (3) 1	1/2" I	-NPT (Long)		
	V-	5	74	3/	4" N	1NP	PT x (3) 1	1/2" I	NPT (Long)		
			В	od	y M	ate	rial C	od	е			
				С	AS	TIV	1 A108	}				
				S	AS	TV	1 A479	-3	16 S	S		
				Р	AS	TM	1 A696	*				
					Se	eat	Mater	ia	Co	de		
						D	Delrir	ı®	(St	andard)		
						K	Kel-F®					
						Р	Peek	Ð				
							Stem	Pa	ackii	ng/Seal Code		
							Р	PΤ	ΈE	(Below threads)		
	V Viton® O-Ring							O-Ring				
	V-					1			-	Options [pages 49-50]		

Max Cv Ratings					
.187" Orifice	Straight Body Style				
	.83				
Approx. Valve Weight:					

2.30 lbs. [1.04 kg] ea. (Standard) 3.00 lbs. [1.36 kg] ea. (Long)

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

HARD BALL SEAT: .187" Orifice



FeaturesPGI Standard

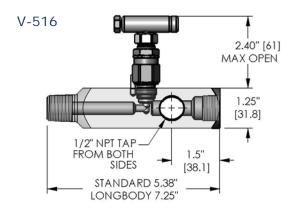
Seat

316 SS *Ball*

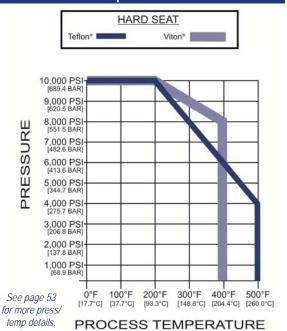
Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- · Leak free, bubble tight seating
- Available in a variety of materials

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction								
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel					
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316					
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring					
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316					
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303					
Handle Assembly	ASTM A108	ASTM A108	300 Series SS					

Part Number Selection

В	ase	IVIC	odel							
	Process x Instrument									
	V-	5	16	1/	1/2" MNPT x (3) 1/2" FNPT (Standard)					
	V-	5	18	3/	4" N	ΛNF	PT)	(3)) 1/2" I	FNPT (Standard)
	V-	5	20	1/	2" N	ΛNF	PT >	(3)) 1/2" I	FNPT (Long)
	V-	5	32	3/	4" N	ΛNF	PT >	(3) 1/2" I	FNPT (Long)
			E	3od	уΜ	ate	rial	Cc	de	
				С	AS	STN	ΛA	108		
				S	AS	STN	ΛA	479	-316 S	SS
				Р	AS	STN	ΛA	696	*	
				T	S	eat	Ma	ter	al Co	de
						6	31	6 S	S Ball	(Standard)
						С	Ca	arbio	de Bal	
						N	М	one	(8)	
							Ste	em	Packii	ng/Seal Code
							F	P	PTFE	(Below threads)
	V Viton® O-Ring							O-Ring		
	V-				Т		Ι		-	Options [pages 49-50]

Max Cv Ratings				
.187" Orifice	Straight Body Style			
.167 Office	.53			
Approx. Valve Weight: 2.30 lbs. [1.04 kg] ea. (Standard)				
3.00 lbs. [1.36 kg] ea. (Long)				

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

Benefits

SOFT SEAT: .375" Orifice



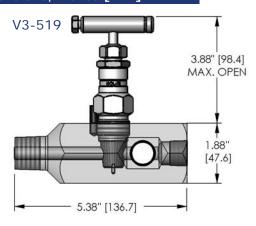
Features

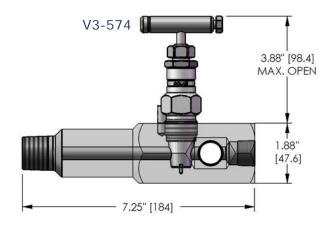
• PGI Soft Cone Seat

• Roddable straight-through design

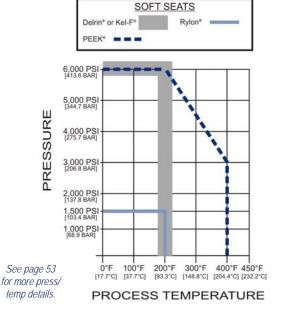
- · Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- Bi-directional flow

Dimensions, inches [mm]





Pressure vs. Temperature



Materials of Construction							
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel				
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316				
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring				
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316				
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303				
Handle Assembly	ASTM A108	ASTM A108	300 Series SS				

Part Number Selection

Daca Madal

Base	ase Model								
V3-	5	17 1/2" MNPT x (3) 1/2" FNPT (Standard)							FNPT (Standard)
V3-	5	19	3/-	4" N	1NF	PT :	(3)	1/2"	FNPT (Standard)
V3-	5	73	1/:	2" N	1NF	PT :	(3)	1/2"	FNPT (Long)
V3-	5	74	3/-	4" N	1NF	PT :	(3)	1/2"	FNPT (Long)
V3-	5	77	1"	ΜN	PΤ	ТХ (3) 1	/2" FI	NPT (Standard)
		В	od	у Ма	ate	rial	Со	de	
			С	AS	T۱	ΛA	108		
			S	AS	T۱	ΛA	479	-316 \$	SS
				Se	eat	Ма	teri	al Co	ode
					D	D€	elrin	® (Sta	andard)
					K	Κe	ŀF®	D	
					Р	Pε	ek®)	
						Ste	em	Packi	ing/Seal Code
						F	P	PTFE	(Below threads)
			V Viton® O-Ring						
V3-								-	Options [pages 49-50]

Max Cv Ratings 375" Orifice Straight Body Style

Approx. Valve Weight: 2.30 lbs. [1.04 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

HARD BALL SEAT: .375" Orifice



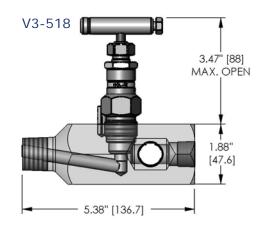
FeaturesPGI Standard 316 SS Ball

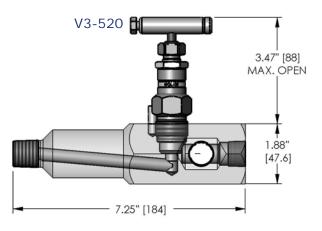
Seat

Benefits

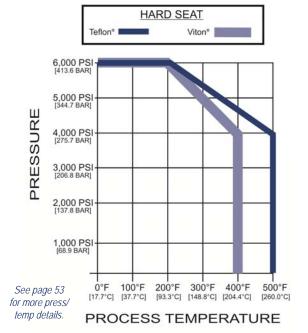
- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

Dimensions, inches [mm]





Pressure vs. Temperature



Materials of Construction							
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel				
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316				
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring				
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316				
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303				
Handle Assembly	ASTM A108	ASTM A108	300 Series SS				

Part Number Selection

В	Base Model										
	V3-	5	16	1/2" MNPT x (3) 1/2" FNPT (Standard)							
	V3-	5	18	3/	3/4" MNPT x (3) 1/2" FNPT (Standard)						
	V3-	5	20	1/	/2" I	ΛN	PT)	(3)	1/2" F	NPT (Long)	
	V3-	5	32	3/	4" ľ	ΛN	PT)	(3)	1/2" F	NPT (Long)	
	T		В	od	ly IV	late	erial	Cod	de	-	
				С	A:	STI	ΛA	108			
				S	A:	STI	ЛΑ	179-	316 S	S	
				Р	A:	STI	ЛΑ	596*			
					S	eat	Ma	teria	al Cod	le	
						6	31	6 SS	S Ball	(Standard)	
						С	Ca	ırbid	e Ball		
						N	Mo	onel®	Þ		
							Ste	m P	ackin	g/Seal Code	
							F	P	TFE (Below threads)	
				V Viton® O-Ring							
	V3-					_			-	Options [pages 49-50]	

Max Cv Ratings .375" Orifice Straight Body Style

Approx. Valve Weight: 2.30 lbs. [1.04 kg] ea. (Standard) 3.00 lbs. [1.36 kg] ea. (Longbody)

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

^{*} Barstock equivalent of ASTM A105

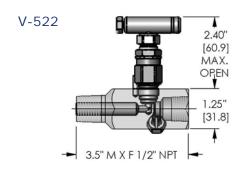
Benefits

HARD BALL SEAT: .187" Orifice **Features** 316 SS *Ball*

PGI Standard

- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

Dimensions, inches [mm]



Pressure vs. Temperature HARD SEAT Teflon® Viton® 10,000 PSI-[689.4 BAR] 9,000 PSI [620.5 BAR] RESSUR 7,000 PSI [482.6 BAR] 6,000 PSI [413.6 BAR] 5,000 PSI [344.7 BAR] 4,000 PSI [275.7 BAR] 2,000 PSI 1,000 PSI [68.9 BAR] 200°F 300°F See page 53 [148.8°C] [204.4°C] [260.0°C] [93.3°C] for more press/ temp details. PROCESS TEMPERATURE

Materials of Construction							
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel				
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316				
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring				
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316				
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303				
Handle Assembly	ASTM A108	ASTM A108	300 Series SS				

Part Number Selection Base Model Process x Instrument 1/2" MNPT x 1/2" FNPT 3/4" MNPT x 1/2" FNPT **Body Material Code** C ASTM A108 ASTM A479-316 SS P ASTM A696* Seat Material Code 6 316 SS Ball (Standard) C Carbide Ball N Monel® Stem Packing/Seal Code P PTFE (Below threads) V Viton® O-Ring V-Options [pages 49-50]

Max Cv Ratings Straight Body Style .187" Orifice

Approx. Valve Weight: 1.30 lbs. [.58 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
 - PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

SOFT SEAT: .187" Orifice



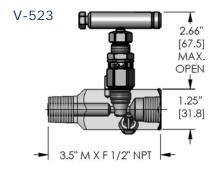
Features

PGI Soft Cone Seat

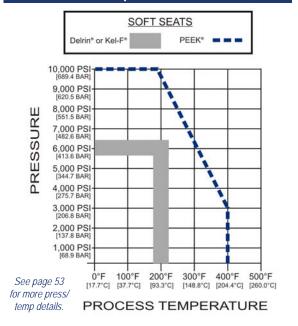
Benefits

- Roddable straight-through design
- · Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- Bi-directional flow

Dimensions, inches [mm]



Pressure vs. Temperature



Part Number Selection

ase	Mode						
	Process x Instrument						
V-	523	1/2" [MNPT	x 1/	2" FNF	PT	
V-	527	3/4" [MNPT	x 1/	2" FNF	PT	
		Body M	lateri	al Co	ode		
		C A	STM	4108			
		SA	STM	4479	-316 S	SS	
		P A	STM	4696	*		
		S	eat N	later	ial Co	de	
			D C	elrin)	® (Sta	andard)	
			ΚK	(el-F	B	·	
			P F	eek®	0		
			S	tem	Packii	ng/Seal Code	
				PΙ	PTFE	(Below threads)	
				۷	√iton®	O-Ring	
V-						Options (pages 49-50)	
V-					-	Options [pages 49-5	

Materials of Construction							
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel				
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316				
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring				
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316				
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303				
Handle Assembly	ASTM A108	ASTM A108	300 Series SS				

Max Cv Ratings

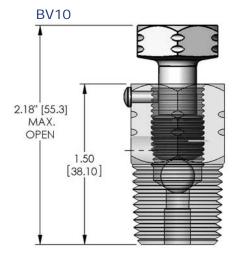
.187" Orifice Straight Body Style .83
Approx. Valve Weight:

Approx. Valve Weight 1.30 lbs. [.58 kg] ea.

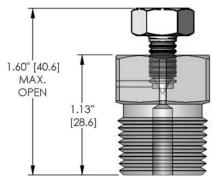
* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

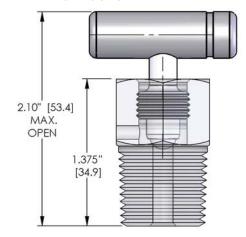
Dimensions, inches [mm]



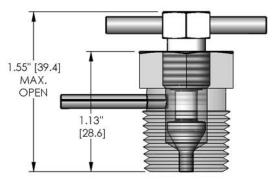
A7-525 /526



A7-521 /520



A7-528/529



Part Number Selection

Base Model

	Connection	Seat Material	Other Material
BV10N2	1/4" MNPT		Drive Screw 300 SS
BV10N4	1/2" MNPT	Carbide Ball	Dilive Sciew 300 33
A7-520	1/2" MNPT	Carbide Ball	
A7-521	1/4" MNPT		
A7-525	1/4" MNPT		Bleed Screw 316 SS
A7-526	1/2" MNPT	Integral Metal	pieed Sciew 310 33
A7-528	1/4" MNPT	integral Metal	Bleed Tube 316 SS
A7-529	1/2" MNPT		bleed Tube 310 33

Body Material Code

10	ASTM A108
C0	ASTM A479-316 SS

Pressure vs. Temperature

Carbon Steel	10,000 PSI @ 200° F Max
Carbon Steel	1,500 PSI @ 500° F Max
316 SS	10,000 PSI @ 200° F Max
310 33	1 500 PSI @ 1 000° F May

Materials of Construction

See Body Material Code.

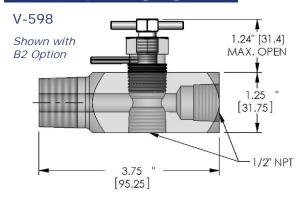
Weights

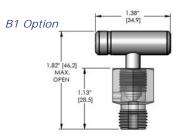
Approx. Valve Weight:

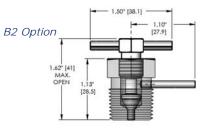
.50 lbs. [.22 kg] ea. (BV10N2/N4) .50 lbs. [.22 kg] ea. (A7-520/521) .30 lbs. [.13 kg] ea. (A7-525/526) .50 lbs. [.22 kg] ea. (A7-528/529)

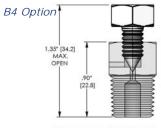
- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

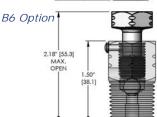
Dimensions, inches [mm]











Materials of Construction

See Body Material Code.

Weights
Approx. Valve Weight:
1.00 lbs. [0.45 kg] ea. (V-597/598)
0.50 lbs. [0.22 kg] ea. (BX Options)

Part Number Selection

Base Model

		Process x Instrument	
V-	597-	1/2" MNPT x (3) 1/2" FNPT	
V-	598-	3/4" MNPT x (3) 1/2" FNPT	
B8-	597-	1/2" MNPT x (3) 1/2" FNPT	Body Only
B8-	598-	3/4" MNPT x (3) 1/2" FNPT	Body Only

Body Material Code

10 ASTM A108 C0 ASTM A479-316 SS

Bleeder Installed

- B1 Carbide Ball Bleed Plug (A7-520)
- B2 Bleed "T" Plug (A7-529)
- B4 Mini-Hex Bleed Plug (A7-526)
- B6 SS Ball Bleed Plug (BV10N4)

Pressure vs. Temperature

Carbon Steel	10,000 PSI @ 200° F Max 1,500 PSI @ 500° F Max
316 SS	10,000 PSI @ 200° F Max 1,500 PSI @ 1,000° F Max

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



Gauge Siphons & Swivels

The PGI Gauge Siphon replaces thermal barrier, protecting your used as either a freeze or steam.

When very high heat is present Grafoil packed Hand Valve, reduct the condensate leg.

A7-524

HEX

TUBE

TUBE

5.80"
[147.32]

The PGI Gauge Siphon replaces the old style "Pigtail" siphon. The siphon provides a thermal barrier, protecting your instruments from harmful vapors. The siphon can be used as either a freeze or steam protector when used with the proper fill fluids.

When very high heat is present, the siphon, used in conjunction with the PGI V-506 Grafoil packed Hand Valve, reduces temperatures seen at the instrument by lengthening the condensate leg.

A7-507

1/2" FNPT INSTRUMENT SIDE

Part Number Selection

3.10" [78.74]

Model Numbers

1/2" MNPT

PROCESS SIDE

	Gauge Siphons: Process x Instrument
A7-524-C0	1/2" MNPT x 1/2" FNPT; CS Coupling; 316 SS Material
A7-524-C0S	1/2" MNPT x 1/2" FNPT; 316 SS Material
A7-522-C0	3/4" MNPT x 1/2" FNPT; CS Coupling; 316 SS Material
A7-522-C0S	3/4" MNPT x 1/2" FNPT; 316 SS Material
A7-507-C0	With Excess Flow Check & Swivel; 1/2" MNPT x 1/2" FNPT; 316 SS Material
A7-508-C0	3/4" MNPT x 3/4" FNPT; CS Coupling; 316 SS Material
A7-509-C0	With Excess Flow Check; 1/2" MNPT x 1/2" FNPT; 316 SS Material
A7-530-C0	Gauge Swivel Only; 1/2" MNPT x 1/2" FNPT; 316 SS Material

A7-509

1/2" FNPT

INSTRUMENT SIDE

1/2" MNPT

PROCESS SIDE

2.94" [74.67] A7-530

1/2" FNPT INSTRUMENT SIDE

> 1/2" MNPT PROCESS SIDE

[69.08]

ESTIMATED GAUGE TEMPERATURES

°F [°C] 190 [88]

By knowing the material of construction, saturated steam conditions, and ambient temperature, the chart below can estimate the gauge temperature for the A7-522/524-C0 & COS. For example, if using an A7-524-C0 in an application of 500 psig, 470° F saturated steam, and 90° F ambient temperature, Chart 1 (Carbon Steel) can be utilized by following the 90° F ambient temperature curve to 500 psig. An estimated gauge temperature of 180° F is shown.

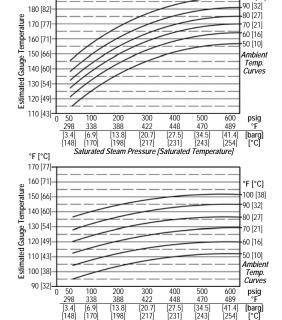
The same method will be applied for an A7-524-C0S on Chart 2 (Stainless Steel.) The estimated gauge temperature will be 144° F.

Chart 1: Carbon Steel

Chart 2:

Stainless

Steel



Pressure vs. Temperature

Part	Pressure @ Temperature
A7-524-C0	6,000 PSI @ 200° F Max 1,500 PSI @ 500° F Max
A7-524-C0S	6,000 PSI @ 200° F Max 1,500 PSI @ 1,000° F Max
A7-530-C0	10,000 PSI @ 200° F Max 1,500 PSI @ 1,000° F Max
A7-507-C0	1,500 PSI @ 1,000° F Max
A7-508-C0	10,000 PSI @ 200° F Max 1,500 PSI @ 500° F Max
A7-509-C0	1,500 PSI @ 1,000° F Max

Weights

Approx. Weights:

1.51 lbs. [0.68 kg] ea. (A7-508 and A7-522/524-C0/C0S)

0.58 lbs. [0.26 kg] ea. (A7-530-C0) 0.60 lbs. [0.27 kg] ea. (A7-507-C0)

1.00 lbs. [0.45 kg] ea. (A7-509-C0)

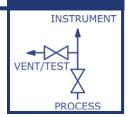
°F [°C] 100 [38] Benefits

HARD SEAT .187" ORIFICE

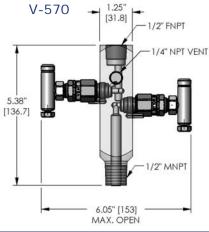
HARD BALL SEAT: .187" Orifice **Features** PGI Standard 316 SS Ball

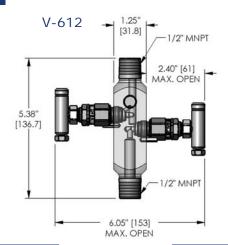
Seat

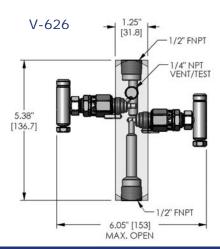
- · Non-rotating ball eliminates seat galling and ball creasing
- · Leak free, bubble tight seating
- Available in a variety of materials



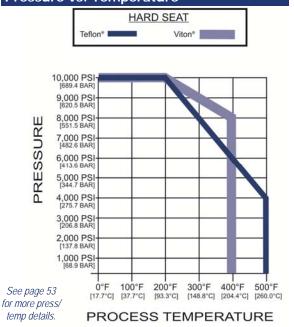
Dimensions, inches [mm]







Pressure vs. **Temperature**



Materials of Construction							
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel				
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316				
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring				
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316				
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303				
Handle Assembly	ASTM A108	ASTM A108	300 Series SS				

Part Number Selection

В	ase	Mod€	el					
	Process x Instrument x Vent							
	V-	570	1	1/2" MNPT x 1/2" FNPT x 1/4" NPT				
	V-	572	3	/4"	MNF	PT x 1/2" FNPT x 1/4" NPT	٦	
	V-	612	1	/2"	MNF	PT x 1/2" MNPT x 1/4" NPT	П	
	V-	614	1	/2"	FNP	PT x 1/2" MNPT x 1/4" NPT	П	
	V-	616	3	/4"	MNF	PT x 1/2" MNPT x 1/4" NPT	П	
	V-	626	1	/2"	FNP	PT x 1/2" FNPT x 1/4" NPT	П	
			Boo	dy N	/late	erial Code		
			С	A	STN	M A108		
			S	Α	STN	M A479-316 SS		
			Р	Α	STN	M A696*		
			П	5	Seat	t Material Code		
					6	316 SS Ball (Standard)	П	
					С	Carbide Ball		
	N Monel®							
						Stem Packing/Seal Code		
	P PTFE (Below threads)							
						V Viton® O-Ring		
	1/			_		Outland		
	V-					- Options [pages 49-50)]	

Max Cv Ratings				
.187" Orifice	Straight Body Style			
.107 Office	.53			
Annrox Valve Weight:				

2.50 lbs. [1.13 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



Bracket Mount Block & Bleed Static Pressure Valves

HARD SEAT .187" ORIFICE

HARD BALL SEAT: .187" Orifice



VCH/VSH Bracket Shown for Reference Only

See Options Page 50

Features • PGI Standa

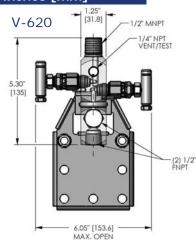
 PGI Standard 316 SS Ball Seat

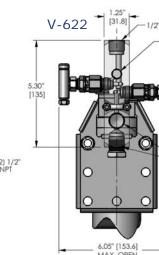
Benefits

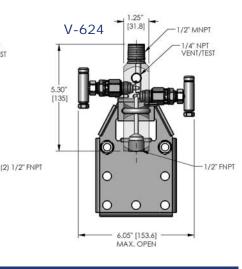
- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

INSTRUMENT VENT/TEST PROCESS

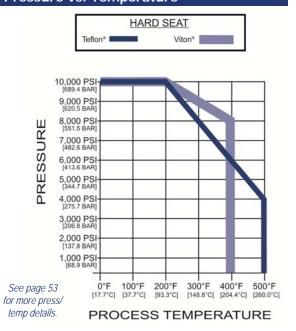
Dimensions, inches [mm]







Pressure vs. Temperature



Materials of Construction						
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel			
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316			
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring			
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316			
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316			
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316			
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303			
Handle Assembly	ASTM A108	ASTM A108	300 Series SS			

Part Number Selection

Base Model

Sas	se	IVIC	aei							
				Pi	ОСС	ess	Χ	Ins	trume	nt x Vent
١	/-	6	20	(2	(2) 1/2" FNPT x 1/2" MNPT x 1/4" NPT Bracket Mount					
١	/-	6	22	(2) 1/	2" I	NP	T :	x 1/2"	FNPT x 1/4" NPT Bracket Mount
١	/-	6	24	1/:	2" F	NF	Тχ	1/	2" MN	PT x 1/4" NPT Bracket Mount
			В	od	y N	late	rial	С	ode	
				С	A:	STN	ΛA	108	3	
				S	A:	STN	ΛA	479	9-316	SS
				Р	A:	STN	ΛA	69 <i>6</i>	ó*	
					S	eat	Ma	tei	rial Co	ode
						6	31	6 9	SS Bal	l (Standard)
						С	Ca	ırbi	ide Ba	II
						N	Mo	one	®اڊ	
							Ste	em	Pack	ing/Seal Code
							F)	PTFE	(Below threads)
	V Viton® O-Ring									
١	/-								-	Options [pages 49-50]

Max Cv Ratings

.187" Orifice Straight Body Style

Approx. Valve Weight: 2.50 lbs. [1.13 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



Stabilized Block & Bleed Static Pressure Valves

HARD SEAT .187" ORIFICE

INSTRUMENT VENT/TEST PROCESS

HARD BALL SEAT: .187" Orifice



Features

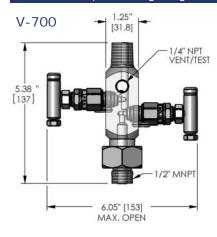
Seat

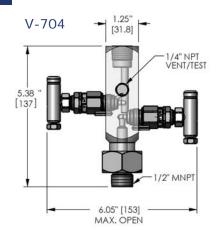
PGI Standard 316 SS *Ball*

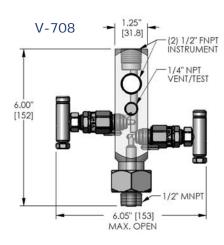
Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

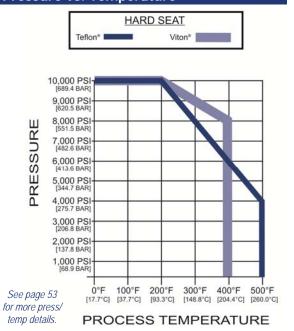
Dimensions, inches [mm]







Pressure vs. Temperature



Materials of Construction								
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel					
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316					
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring					
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316					
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303					
Handle Assembly	ASTM A108	ASTM A108	300 Series SS					

Part Number Selection

Base Model

Max Cv Ratings				
.187" Orifice	Straight Body Style			
.107 Office	.53			
Approx. Valve Weight:				

2.50 lbs. [1.13 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



SOFT SEAT 1/2" FNPT x FLANGE .187" ORIFICE

INSTRUMENT TEST **PROCESS**

SOFT SEAT: .187" Orifice



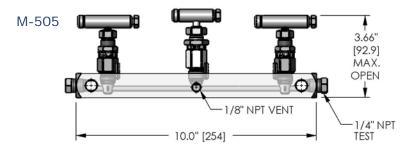
Features

PGI Soft Cone Seat

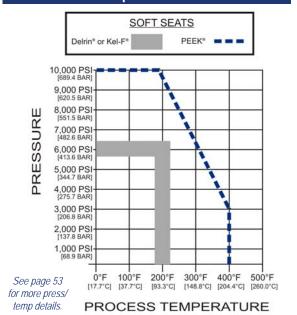
Benefits

- Roddable straight-through design
- Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- Bi-directional flow

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction					
Part	Carbon Steel	316 Stainless Steel			
Body / Bonnet	ASTM A108	ASTM A479-316			
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring			
Stem	ASTM A479-316	ASTM A479-316			
Packing Adjuster	ASTM A696 Gr.C*	ASTM A479-316			
Packing Follower	ASTM A479-316	ASTM A479-316			
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C*	ASTM A582-303			
Handle Assembly	ASTM A108	300 Series SS			

Part Num	Part Number Selection							
Base Model	Base Model							
M-505 3	M-505 3-Valve Chart Recorder/Meter Manifold							
В	Body Material Code							
	C ASTM A108							
	S ASTM A479-316 SS							
	Seat Material Code							
	D Delrin® (Standard)							
	K Kel-F®							
	P Peek®							
	Stem Packing/Seal Code							
	P PTFE (Below threads)							
	V Viton® O-Ring							
	5-Valve Meter Manifold Option							
	C4 (2) V-501 Block Valves							
	Included							
M-505	Options [pages 49-50]							

Max Cv Ratings Straight Body Style .187" Orifice

Approx. Manifold Weight: 3.70 lbs. [1.67 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



Meter & Equalizer Manifolds

SOFT SEAT .187" ORIFICE

PROCESS VENT PROCESS

SOFT SEAT: .187" Orifice



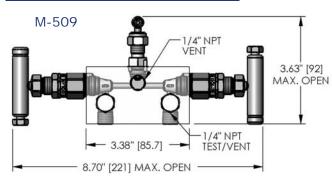
Features

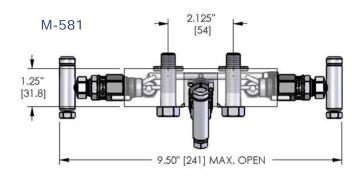
Cone Seat

Benefits PGI Soft

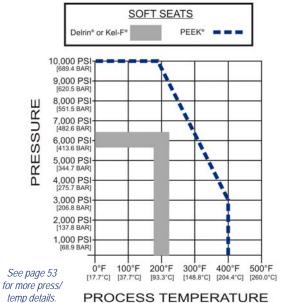
- Roddable straight-through design
- Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- Bi-directional flow

Dimensions, inches [mm]





Pressure vs. Temperature



Materials of Construction								
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel					
Body	ASTM A108	ASTM A696 Gr.C	ASTM A479-316					
Bonnet	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316					
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring					
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316					
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303					
Handle Assembly	ASTM A108	ASTM A108	300 Series SS					

Part Number Selection

Base	Mod	el						
	Process x Instrument x Vent/Test							
M-	509	1	/4"	FNF	Y To	1/4"	FNP	T x 1/4" FNPT
M-	581	1	/4"	FNF	ТχТ	Flan	ge x	1/4" FNPT
		Во	dy	Mat	erial	Co	de	
		(C	AST	M A1	108		
		5	S /	\ST	M A	179-	316 S	SS
			(Seaf	t Mat	eria	ıl Cod	de
				D	De	lrin®		
				Κ	Kel-F®			
				Р	Pe	∋k®		
					St	em	Pack	ing/Seal Code
						P F	PTFE	(Below threads)
					1	V۱	/iton®	O-Ring
M-		_			_	Щ		Ontions (10 50)
IVI-								Options [pages 49-50]

Max Cv Ratings					
	Straight Body Style				
.187" Orifice (M-509)	.83				

.187" Orifice (M-509)	.83
.125" Orifice (M-581)	.25

Approx. Manifold Weight: 5 lbs. [2.26 kg] ea.

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

^{*} Barstock equivalent of ASTM A105



HARD BALL SEAT: .187" Orifice

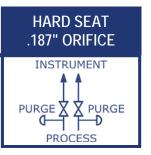


Features

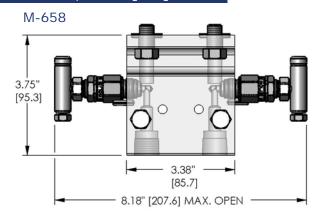
PGI Standard 316 SS Ball Seat

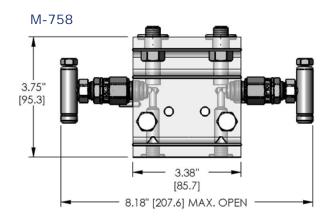
Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

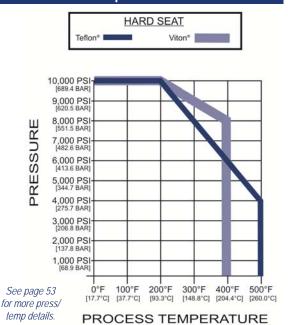


Dimensions, inches [mm]





Pressure vs. Temperature



Materials of Construction									
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel						
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A276-316						
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring						
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316						
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303						
Handle Assembly	ASTM A108	ASTM A108	300 Series SS						

Part Number Selection

Base Model

	Process x Instrument x Purge								
M-	6	58	1/2" FNPT x Flange x (2) 1/4" NPT						
M-	7	58	Fla	anç	је х	: Flange x (2) 1/4" NPT			
	Body Material Code								
			С	Α	ASTM A108				
			S	A:	STM A276-316 SS				
			Р	A	STI	Л А696*			
	Seat Material Code								
				6 316 SS Ball (Standard)					
					С	Carbide Ball			

| C | Carbide Ball |
| N | Monel® |
| Stem Packing/Seal Code |
| P | PTFE (Below threads) |
| V | Viton® O-Ring |

Max Cv Ratings Straight Body Style

M-

Approx. Manifold Weight: 6.1 lbs. [2.76 kg] ea. (M-658) 6.8 lbs. [3.08 kg] ea. (M-758)

* Barstock equivalent of ASTM A105

Notes

 PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention

Options [pages 49-50]

- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

Liquid Level Manifolds

SOFT SEAT: .187" Orifice Features



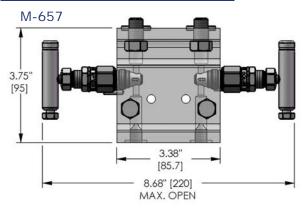
PGI Soft
 Cone Seat

Benefits

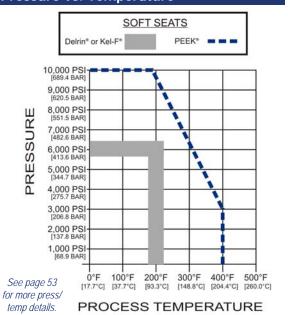
- Roddable straight-through design
- · Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- Bi-directional flow

SOFT SEAT .187" ORIFICE INSTRUMENT PURGE X X PURGE PROCESS

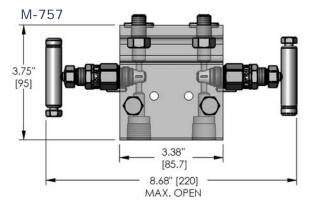
Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction										
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel							
Body	ASTM A108	ASTM A696 Gr.C	ASTM A276-316							
Bonnet	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316							
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring							
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316							
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316							
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316							
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303							
Handle Assembly	ASTM A108	ASTM A108	300 Series SS							



Part Number Selection

3ase	Mode	el						
	Process x Instrument x Purge							
M-	657	1/2'	'FNP	x Flang	e x (2) 1/4" FNPT			
M-	757	Flai	nge x l	lange x	(2) 1/4" FNPT			
	Body Material Code							
		С	AST	M A108				
		S	AST	M A276-3	316 SS			
		Р	AST	M A696*				
			Sea	Materia	Il Code			
			D	Delrin®				
			K	Kel-F®				
			Р	Peek®				
				Stem P	acking/Seal Code			
				P P	TFE (Below threads)			
				V Vi	ton® O-Ring			
M-					- Options [pages 49-50]			

Max Cv Ratings .187" Orifice Straight Body Style .83

Approx. Manifold Weight: 6.1 lbs. [2.76 kg] ea. (M-657) 6.8 lbs. [3.08 kg] ea. (M-757)

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



Single & Dual Static Pressure Instrument Manifolds

HARD SEAT .187" ORIFICE

HARD BALL SEAT: .187" Orifice



Features

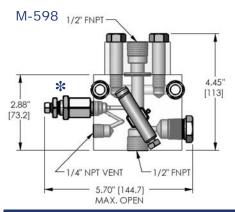
 PGI Standard 316 SS Ball Seat

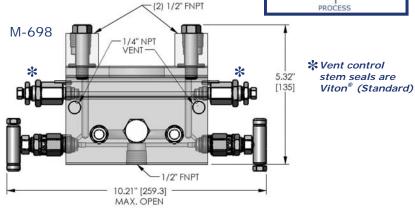
Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

M-598 VENT/TEST PURGE PROCESS M-698 INSTRUMENT VENT/TEST PURGE VENT/TEST PROCESS

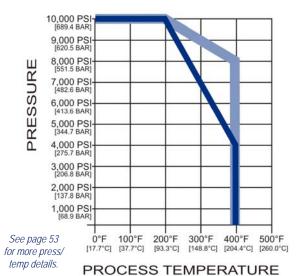
Dimensions, inches [mm]





Pressure vs. Temperature





Materials of Construction										
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel							
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM 316							
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring							
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316							
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316							
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316							
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303							
Handle Assembly	ASTM A108	ASTM A108	300 Series SS							

Part Number Selection

В	ase Model											
	M-	598	Si	Single Instru						NPT x 1/2" FNPT with 1/4" nd 1/2" Purge Connections		
	M-	698	Dι	ıal	Instr	um	er			Instrument Adapter Available)		
	Т	Т	Во	dy	Mat	eria	al	Code	9			
			C)	AST	M A	11	08				
			S	6	AST	М3	316	s SS				
			F) ,	AST	M A	۹6	96*				
				S	eat	Ma	te	rial C	Code			
				6 31			6 3	SS B	all <i>(St</i>	andard)		
					С	Ca	rb	ide B	Ball			
					N	Mc	ne	el®				
						Ste	m	Pac	king/S	Seal Code		
						Р		PTF	E (Bel	ow threads)		
						۷		Viton	ı® O-F	Ring		
							۷	ent V	/alve(s) Seal Material Options		
								-CV	SCF	Fluorosilicone O-Ring		
								-CV	SCG	Grafoil® Packed		
								-CV	SCP	PTFE Packed		
	M-		Т	Т		Г		-	Opt	ions (pages 49-50)		

Max Cv Ratings .187" Orifice Straight Body Style .53 Approx. Manifold Weight:

5 lbs. [2.26 kg] ea. (M-598) 10 lbs. [4.53 kg] ea. (M-698)

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
 - PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



2-Valve Static Pressure M-800 Series Manifold *2-1/8" Centers*

HARD SEAT 1/2" FNPT x FLANGE .125" ORIFICE



HARD BALL SEAT: .125" Orifice



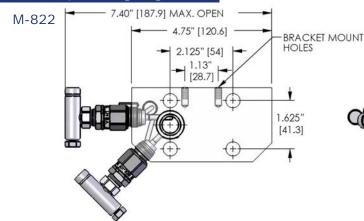
Features

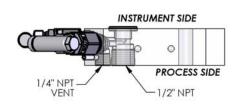
PGI Standard 316 SS *Ball* Seat

Benefits

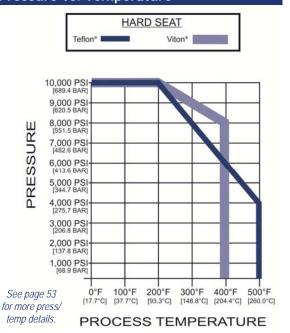
- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

Dimensions, inches [mm]





Pressure vs. Temperature



Materials of Construction								
Part	A696 Carbon Steel*	316 Stainless Steel						
Body / Bonnet	ASTM A696 Gr.C	ASTM A479-316						
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring						
Stem	ASTM A479-316	ASTM A479-316						
Packing Adjuster	ASTM A696 Gr.C	ASTM A479-316						
Packing Follower	ASTM A479-316	ASTM A479-316						
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A582-303						
Handle Assembly	ASTM A108	300 Series SS						

Part Number Selection

Base Model							
Process x Instrument x Vent/Test							
<i>I</i> I-822							
Body Material Code							
S ASTM A479-316 SS							
P ASTM A696*							
Seat Material Code							
6 316 SS Ball (Standard)							
C Carbide Ball							
N Monel®							
Stem Packing/Seal Code							
P PTFE (Below threads)							
V Viton® O-Ring							
M-822 - Options [pages 49-50]							

Max Cv Ratings

.125" Orifice Straight Body Style

Approx. Manifold Weight: 5.20 lbs. [2.35 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

SOFT & METAL SEAT NPT x NPT .136" ORIFICE





Features

PGI "Washer" Seat

- Throttling and shut-off design
- Interchangeable between soft or metal seats
- Easily replaced
- Available in a variety of materials

INTEGRAL METAL TO METAL SEAT: .136" Orifice **Features**

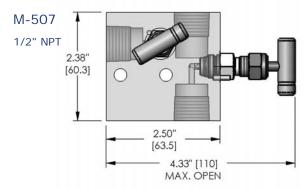


PGI Integral Metal Seat

Benefits

- Throttling and shut-off design
- Interchangeable between soft or metal seats

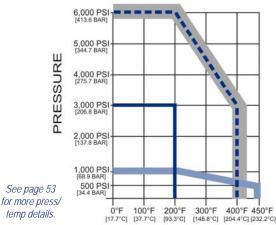
Dimensions, inches [mm]



M-508 1/4" NPT 2.81" [71.4] BRACKET MOUNTING HOLES 1.00" [25.4] 2.25" [57.1]

Pressure vs. Temperature





Part Number Selection

Base Model

base Model									
	Process x Instrument x Vent								
M-	50	07	1/2'	' FNF	PT x 1	/2'	' FNP	T x 1/2" FNPT	
M-	50	08	1/4'	1/4" FNPT x 1/4" FNPT x 1/4" NPT					
Body Material Code									
			С	ASTI	Л A1()8			
			S	ASTI	Л А47	79-	316 S	SS	
	Seat Material Code								
				M	Inte	gra	I Met	al (Standard)	
				D Delrin® (Standard)				ındard)	
				K	Kel-	F®			
				Р	Pee	k®			
					Sten	n F	ackii	ng/Seal Code	
					Τ	Р	TFE	(Below threads)	
					V	٧	iton®	O-Ring	
M-							-	Options [pages 49-50]	

PROCESS TEMPERATURE

Materials of Construction							
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel				
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316				
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring				
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316				
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303				
Handle Assembly	ASTM A108	ASTM A108	300 Series SS				

Max Cv Ratings

Straight Body Style .136" Orifice .25 = Integral Metal Seat .22 = Soft Washer

Approx. Manifold Weight: 2.7 lbs. [1.22 kg] ea. (M-507) 2.4 lbs. [1.08 kg] ea. (M-508)

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



HARD BALL SEAT: .187" Orifice



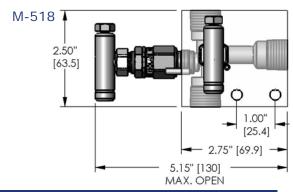
Features

PGI Standard 316 SS *Ball* Seat

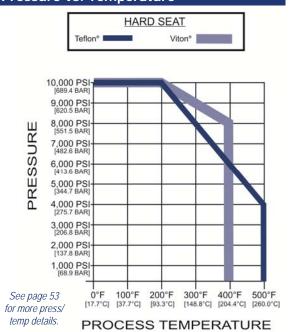
Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction							
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel				
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316				
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring				
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316				
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303				
Handle Assembly	ASTM A108	ASTM A108	300 Series SS				

Part Number Selection Base Model

M-518	/2" FNPT x 1/2" FNPT x 1/2" NPT						
	Body Material Code						
	C ASTM A108						
	S ASTM A479-316 SS						
	P ASTM A696*						
	Seat Material Code						
	6 316 SS Ball (Standard)						
	C Carbide Ball						
	N Monel®						
	Stem Packing/Seal Code						
	P PTFE (Below threads)						
	V Viton® O-Ring						
M-518	- Options [pages 4	19-50]					

Max Cv Ratings

.187" Orifice Straight Body Style
.53

Approx. Manifold Weight: 3.1 lbs. [1.40 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C CS



SOFT SEAT 1/2" FNPT x 1/2" FNPT .187" ORIFICE



SOFT SEAT: .187" Orifice



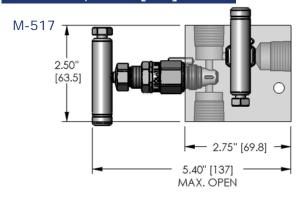
Features

PGI Soft Cone Seat

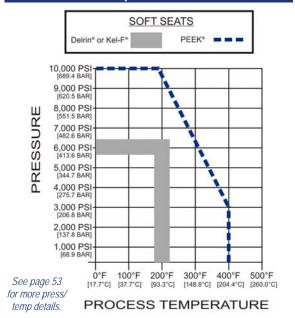
Benefits

- Roddable straight-through design
- · Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- Bi-directional flow

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction							
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel				
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316				
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring				
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316				
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303				
Handle Assembly	ASTM A108	ASTM A108	300 Series SS				

Part Number Selection

Base Model							
M-517	1/2" FNPT x 1/2" FNPT x 1/2" NPT						
	Body Material Code C ASTM A108 S ASTM A479-316 SS P ASTM A696*						
	Seat Material Code						
	D Delrin® (Standard) K Kel-F® P Peek®						
	Stem Packing/Seal Code						
	P PTFE (Below threads)						
	V Viton® O-Ring						
M-517	- Options [pages 49-50]						

Max Cv Ratings							
.187" Orifice	Straight Body Style						
.107 Office	.83						

Approx. Manifold Weight: 3.1 lbs. [1.40 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



2-Valve Block & Bleed **Pressure Manifolds**

HARD SEAT 1/2" FNPT x FLANGE .187" ORIFICE

INSTRUMENT VENT/TEST

PROCESS

HARD BALL SEAT: .187" Orifice



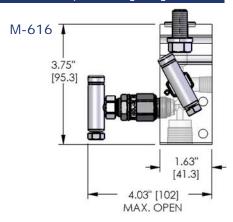
Features

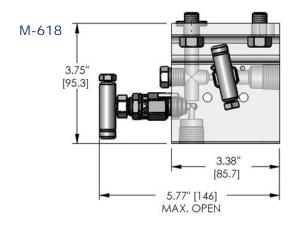
PGI Standard 316 SS Ball Seat

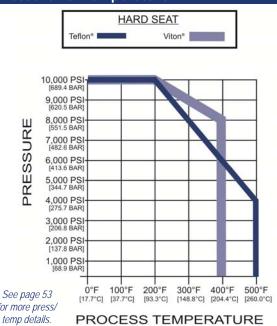
Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

Dimensions, inches [mm]







	HAI	RD SEAT
	Teflon*	Viton®
	10,000 PSI-	
	[689.4 BAR] 9,000 PSI [620.5 BAR]	
Ä	8,000 PSI [551.5 BAR]	
PRESSURE	7,000 PSI- [482.6 BAR]	
SS	6,000 PSI- [413.6 BAR]	
R	5,000 PSI- [344.7 BAR]	
₫	4,000 PSI [275.7 BAR]	
	3,000 PSI- [206.8 BAR]	
	2,000 PSI [137.8 BAR]	
	1,000 PSI [68.9 BAR]	
naa	9 53 0°F 100°F	200°F 300°F 400°F 500°

Materials of Construction							
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel				
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A276-316				
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring				
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316				
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316				
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303				
Handle Assembly	ASTM A108	ASTM A108	300 Series SS				

Part Number Selection

В	ase	Мo	del								
	Process x Instrument x Vent										
	M-	6	16	1/2" FNPT x Flange x 1/4" NPT Slim Body							
	M-	6	18	1/2'	1/2" FNPT x Flange x 1/2" NPT Standard Body						
	Body Material Code										
	C ASTM A108										
				S	AS	TM	A27	6-31	6 S	S	
				Р	AS	TM	A69	6*			
					Se	at N	/late	rial	Co	de	
						6	316 SS Ball (Standard)				
						C (Carbide Ball				
					L	ΝI	Monel®				
						5	Stem	ı Pa	ckiı	ng/Seal Code	
							Р	PTI	E	(Below threads)	
				V Viton® O-Ring					O-Ring		
	M-		Т		Т			Т	-	Options [pages 49-50]	

Max Cv Ratings

.187" Orifice	Straight Body Style		
.107 Office	.53		

Approx. Manifold Weight: 2.60 lbs. [1.17 kg] ea. (M-616) 5.00 lbs. [2.26 kg] ea. (M-618)

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



SOFT SEAT 1/2" FNPT x FLANGE .187" **ORIFICE**



SOFT SEAT: .187" Orifice



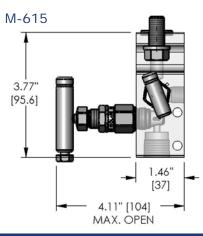
Features

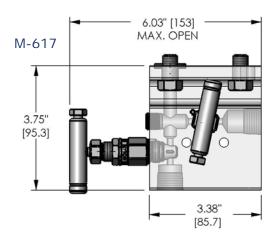
PGI Soft Cone Seat

Benefits

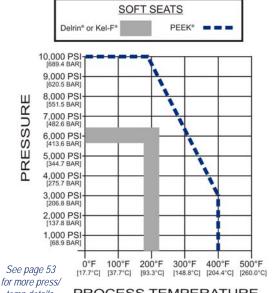
- Roddable straight-through design
- Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- Bi-directional flow

Dimensions, inches [mm]





Pressure vs. Temperature



Materials of Construction						
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel			
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A276-316			
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring			
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316			
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316			
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316			
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303			
Handle Assembly	ASTM A108	ASTM A108	300 Series SS			

Part Number Selection

Rasa Model

Base	ivioae							
	Process x Instrument x Vent							
M-	615	1/2" FNPT x Flange x 1/4" NPT Slim Body						
M-	617	1/2" FNPT x Flange x 1/2" NPT Standard Body						
\top	Body Material Code							
		C ASTM A108						
		S ASTM A276-316 SS						
		P ASTM A696*						
	Seat Material Code							
		D Delrin® (Standard)						
		K Kel-F®						
		P Peek®						
		Stem Packing/Seal Code						
		P PTFE (Below threads)						
		V Viton® O-Ring						
M-		- Options [pages 49-50]						

Max Cv Ratings

Straight Body Style .187" Orifice

Approx. Manifold Weight: 2.60 lbs. [1.17 kg] ea. (M-615) 5.00 lbs. [2.26 kg] ea. (M-617)

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



2-Valve Block & Bleed Static Pressure Manifolds

HARD SEAT FLANGE x FLANGE .187" ORIFICE



HARD BALL SEAT: .187" Orifice



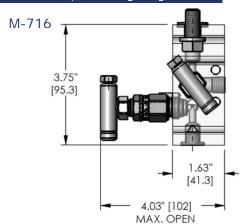
Features

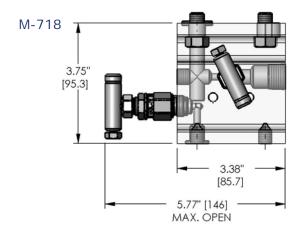
PGI Standard 316 SS *Ball* Seat

Benefits

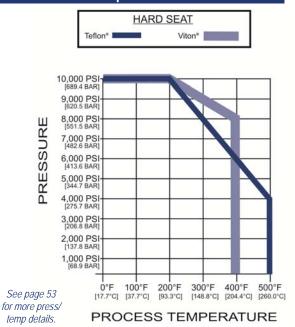
- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

Dimensions, inches [mm]





Pressure vs. Temperature



Materials of Construction						
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel			
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A276-316			
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring			
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316			
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316			
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316			
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303			
Handle Assembly	ASTM A108	ASTM A108	300 Series SS			

Part Number Selection

Base	e Mo	odel							
	Process x Instrument x Vent								
M	- 7	16	Flange x Flange x 1/4" NPT Slim Body						
M	- 7	18	Fla	nge	хF	lar	ıge	x 1/2"	NPT Standard Body
Т	Body Material Code								
			C ASTM A108						
			S ASTM A276-316 SS						SS
			P ASTM A696*						
			Seat Material Code						
			6 316 SS Ball (Standard)					l <i>(Standard)</i>	
				C Carbide Ball					II
					N Monel®				
						St	em	Packi	ing/Seal Code
						F)	PTFE	(Below threads)
						١	/	Viton®	O-Ring
M-	-							-	Options [pages 49-50]

Max Cv Ratings				
.187" Orifice	Straight Body Style			
.107 Office	53			

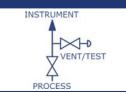
Approx. Manifold Weight: 3.00 lbs. [1.36 kg] ea. (M-716) 5.50 lbs. [2.49 kg] ea. (M-718)

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



SOFT SEAT FLANGE x FLANGE .187" ORIFICE



SOFT SEAT: .187" Orifice



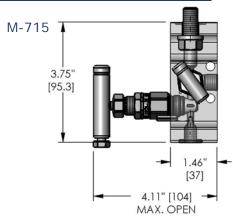
Features

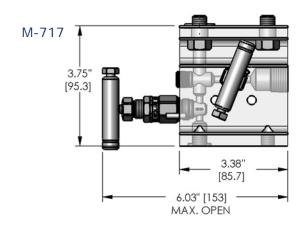
PGI Soft Cone Seat

Benefits

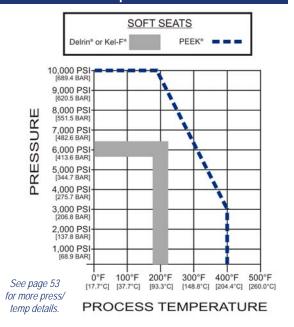
- Roddable straight-through design
- · Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- Bi-directional flow

Dimensions, inches [mm]





Pressure vs. Temperature



Don't l	Ale con l	L C - I	
Part	Numi	ber Sel	lection

Ba	ise	MC	odel								
	Process x Instrument x Vent										
Γ	M-	7	15	Fla	inge	e x	Fla	nge	x 1/4"	NPT Slim Body	
ľ	M-	7	17	Fla	nge) x	Fla	nge	x 1/2"	NPT Standard Body	
Ī	Body Material Code										
	C ASTM A108										
				S	Α	ST	M A	276	-316 S	SS	
				P	Α	ST	M A	696	*		
					5	ea	t M	ater	ial Co	de	
						D	D	elrin	® (Sta	andard)	
						K	K	el-F	B		
						P	P	eek⁰	0		
							Si	em	Packii	ng/Seal Code	
								PΙ	PTFE	(Below threads)	
								۷۱	√iton®	O-Ring	
Ī	M-				T		T		-	Options [pages 49-50]	

Materials of Construction									
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel						
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A276-316						
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring						
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316						
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303						
Handle Assembly	ASTM A108	ASTM A108	300 Series SS						

Max Cv Ratings

.187" Orifice Straight Body Style
.83
Approx. Manifold Weight:

Approx. Manifold Weight: 3.00 lbs. [1.36 kg] ea. (M-715) 5.50 lbs. [2.49 kg] ea. (M-717)

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



SOFT "WASHER" SEATS: .136" Orifice



Features

PGI "Washer" Seat

Benefits

- Throttling and shut-off design
- Interchangeable between soft or metal seats
- Easily replaced
- Available in a variety of materials

INTEGRAL METAL TO METAL SEAT: .136" Orifice



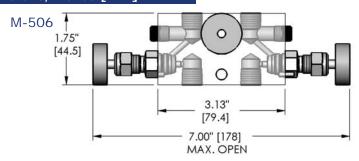
FeaturesPGI Integral

 PGI Integral Metal Seat

Benefits

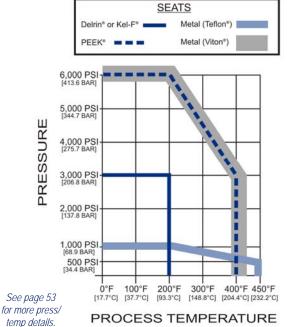
- Throttling and shut-off design
- Interchangeable between soft or metal seats

Dimensions, inches [mm]



Note Regarding Handle Types:								
Soft Seated Valves	CS or SS Round Handles as Standard							
Hard Seat Valves	CS or SS Bar Handles as Standard							

Pressure vs. Temperature



Materials of Construction									
Part	Carbon Steel	316 Stainless Steel							
Body	ASTM 1016-1018/A108	ASTM A479-316/A479-316							
Packing "T" / "V"	PTFE / Viton® O-Ring	PTFE / Viton® O-Ring							
Stem	ASTM A479-316	ASTM A479-316							
Packing Nut (TFE Packed Only)	ASTM A108 ASTM A582-303								
Handles: Soft Seated Valves	CS or SS Round Handles as Standard								
Handles: Hard Seat Valves	CS or SS Bar Handles as Standard								

Part Number Selection

В	ase N	/lode	l							
		Inlet x Outlet								
	M-	506	1	/4" F	NP	T x 1/4	" FNP	T		
		C ASTM A108								
			S	AS	STN	1 A479	-316 S	SS		
				S	eat	Materi	al Co	de		
					M	Metal	(Stan	ndard)		
					D	Delrin	® (Sta	ndard)		
					K	Kel-F®	0			
					Р	Peek®)			
						Stem	Packir	ng/Seal Code		
						TF	PTFE			
						۷۱	/iton®	O-Ring		
	M-5	06					-	Options [pages 49-50]		

Max Cv Ratings

.136" Orifice 25 = Integral Metal Seat .22 = Soft Washer

Approx. Manifold Weight: 1.8 lbs. [.81 kg] ea.

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ ISO 15156-3
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



3-Valve Differential Pressure M-800 Series Manifold *2-1/8" Centers*

HARD SEAT .125" ORIFICE

HARD BALL SEAT: .125" Orifice



Features

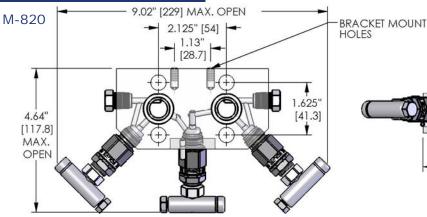
 PGI Standard 316 SS Ball Seat

Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials



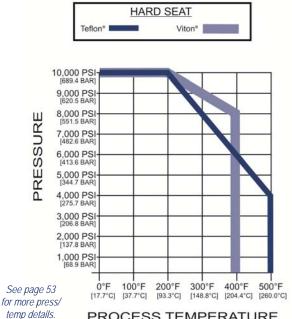
Dimensions, inches [mm]



INSTRUMENT SIDE

PROCESS SIDE

Pressure vs. Temperature



temp details. PROCESS TEMPERATURE									
Materials of Construction									
Part	A696 Carbon Steel*	316 Stainless Steel							
Body / Bonnet	ASTM A696 Gr.C	ASTM A479-316							
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring							
Stem	ASTM A479-316	ASTM A479-316							
Packing Adjuster	ASTM A696 Gr.C	ASTM A479-316							
Packing Follower	ASTM A479-316	ASTM A479-316							
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A582-303							
Handle Assembly	ASTM A108	300 Series SS							

Part Number Selection

 \angle 1/2" NPT TYP.

4.75" [120.6]

Base Mod	el										
Process x Instrument x Vent/Test											
M-820 1/2" FNPT x Flange x 1/4" NPT											
Body Material Code											
S ASTM A479-316 SS											
	P ASTM A696*										
	Seat Material Code										
	6	316 S	S Ball	(Standard)							
	С	Carbio	de Ball								
	N	Monel	®								
		Stem	Packi	ng/Seal Code							
		Р	PTFE	(Below threads)							
		V	Viton®	O-Ring							
M-820				Ontions (10 50							
IVI-62U				Options [pages 49-50]							

Max Cv Ratings Straight Body Style

25

Approx. Manifold Weight: 5.50 lbs. [2.49 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



HARD SEAT .187" ORIFICE

VENT/TEST VENT/TEST

HARD BALL SEAT: .187" Orifice



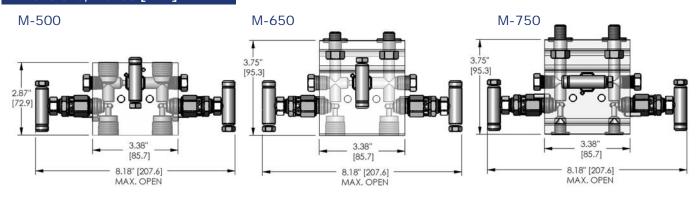
Features

PGI Standard 316 SS *Ball* Seat

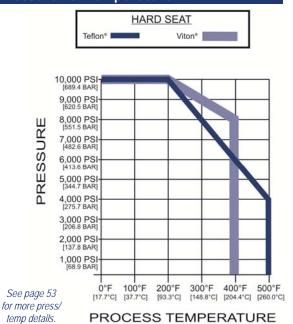
Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- · Leak free, bubble tight seating
- Available in a variety of materials

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction									
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel						
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316 ASTM A276-316 ¤						
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring						
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316						
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303						
Handle Assembly	ASTM A108	ASTM A108	300 Series SS						

Part Number Selection

В	ase	Mc	odel										
				Pr	Process x Instrument x Vent								
	M-	50	0	1/:	1/2" FNPT x 1/2" FNPT x 1/4" FNPT								
	M-	65	0 ¤	1/:	2" F	NΡ	T x Fla	ange x	1/4" FNPT				
	M-	75	0 ¤	Fla	Flange x Flange x 1/4" FNPT								
	Body Material Code												
	C ASTM A108												
				S	AS	STM	A479	-316 S	SS				
				3	AS	STM	A276	-316 S	SS ¤				
				Р	ASTM A696*								
					Se	eat	Mater	ial Co	de				
						6	316 S	S Ball	(Standard)				
						С	Carbi	de Bal	I				
						N	Mone	189					
							Stem	Packi	ng/Seal Code				
							Р	PTFE	(Below threads)				
				V Viton® O-Ring									
							\top						
			Щ		_								
	M-							-	Options [pages 49-50]				

Max Cv Ratings

.187" Orifice	Straight Body Style
.107 Office	.53

Approx. Manifold Weight: 4.20 lbs. [1.90 kg] ea. (M-500) 5.20 lbs. [2.35 kg] ea. (M-650) 5.70 lbs. [2.58 kg] ea. (M-750)

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



HARD SEAT .375" ORIFICE

HARD BALL SEAT: .375" Orifice



FeaturesPGI Standard 316 SS Ball

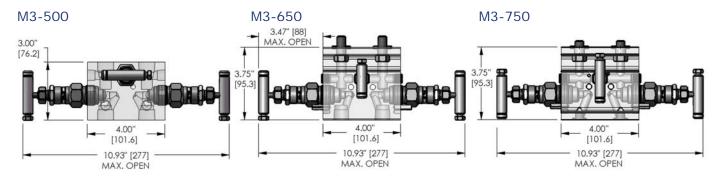
Seat

Benefits

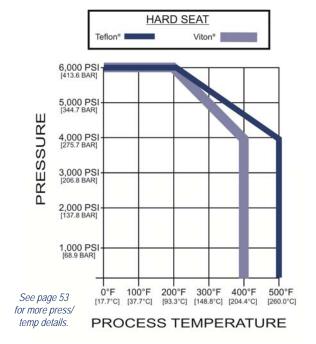
- Non-rotating ball eliminates seat galling and ball creasing
- · Leak free, bubble tight seating
- Available in a variety of materials

INSTRUMENT M3-500 PURGE PROCESS INSTRUMENT M3-650 M3-750 PROCESS

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction									
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel						
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316 ASTM A276-316 ¤						
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring						
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316						
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303						
Handle Assembly	ASTM A108	ASTM A108	300 Series SS						

Part Number Selection

	Process x Instrument x Vent							
M3-	500 1/2" FN			/2" F	N	IPT x 1/2" FNPT x 1/4" NPT		
M3-	650) ¤	1/	/2" F	NF	IPT x Flange x 1/4" FNPT		
M3-	75) ¤				x Flange x 1/4" NPT		
		В	od	y M	ate	erial Code		
			С	AS	STN	M A108		
			S	AS	STN	M A479-316 SS		
			3	AS	ASTM A276-316 SS ¤			
			Р	AS	STN	M A696*		
			S	eat	t Material Code			
					6	316 SS Ball		
					С	Carbide Ball		
					N	Monel®		
						Stem Packing/Seal Code		
						P PTFE (Below threads)		
						V Viton® O-Ring		
M2		Щ				Ontions (40 50		
IVI3-						- Options [pages 49-50]		

Max Cv Ratings

.375" Orifice Straight Body Style 2.40

Approx. Manifold Weight:

9.00 lbs. [4.08 kg] ea. (M3-500) 7.00 lbs. [3.17 kg] ea. (M3-650) 7.60 lbs. [3.44 kg] ea. (M3 -750)

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



SOFT SEAT .187" ORIFICE

VENT/TEST VENT/TEST PROCESS

SOFT SEAT: .187" Orifice



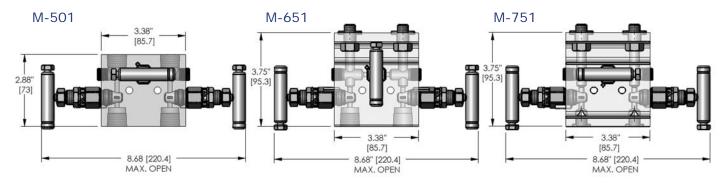
Features

PGI Soft Cone Seat

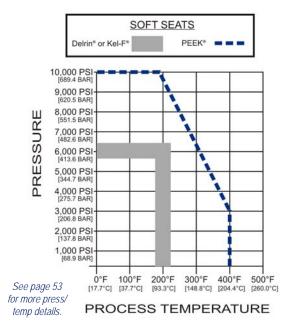
Benefits

- Roddable straight-through design
- Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- · Bi-directional flow

Dimensions, inches [mm]



Pressure vs. Temperature



Part Number Selection

В	ase	Model

	Process x Instrument x Vent								
M-	501		1/	1/2" FNPT x 1/2" FNPT x 1/4" NPT					
M-	651	51 ¤		1/2" FNPT x Flange x 1/4" FNPT					
M-	751	¤	Flange x Flange x 1/4" NPT						
		В	od	ody Material Code					
			С	ASTM A108					
			S	AS	ASTM A479-316 SS				
			3	AS	ASTM A276-316 SS ¤				
			Р	AS	TM	A69	6*		
				Se	at I	Mate	rial Co	ode	
				I)	Delrii	n® (St	andard)	
				I	(Kel-F	(8)		
				I)	Peek	®		
					•	Stem	Pack	ing/Seal Code	
						Р	PTFE	(Below threads)	
						٧	Viton®	O-Ring	
M-							-	Options [pages 49-50]	

Materials of Construction					
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel		
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316 ASTM A276-316 ¤		
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring		
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316		
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316		
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316		
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303		
Handle Assembly	ASTM A108	ASTM A108	300 Series SS		

Max Cv Ratings

.187" Orifice Straight Body Style .83

Approx. Manifold Weight:

4.20 lbs. [1.90 kg] ea. (M-501) 5.20 lbs. [2.35 kg] ea. (M-651) 5.70 lbs. [2.58 kg] ea. (M-751)

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



SOFT SEAT .375" ORIFICE

SOFT SEAT: .375" Orifice Features

SOT SEAT. SIS

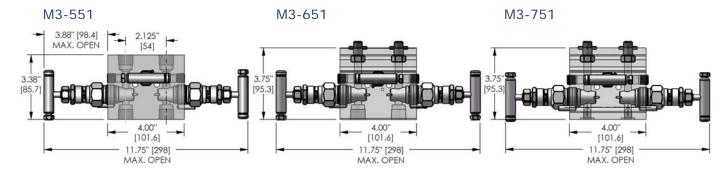
PGI Soft Cone Seat

Benefits

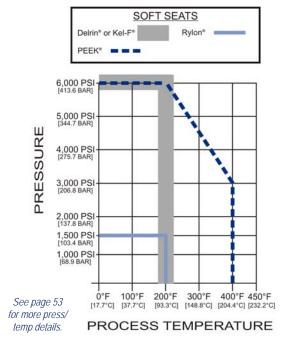
- Roddable straight-through design
- · Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- Bi-directional flow

INSTRUMENT M3-551 PURGE OF PROCESS INSTRUMENT M3-651 M3-751 PROCESS

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction					
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel		
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316 ASTM A276-316 ¤		
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring		
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316		
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316		
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316		
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303		
Handle Assembly	ASTM A108	ASTM A108	300 Series SS		

Part Number Selection

В	Base Model								
					P	roc	ess	x Instrument x Vent	
	M3- 551 1/2			2"	FNPT x 1/2" FNPT x 1/4" NPT				
	M3- 651 x 1/2" FNPT x Flange x 1/4" FNPT						PT x Flange x 1/4" FNPT		
	M3- 751 ¤			F	lan	ge x	x Flange x 1/4" NPT		
Body Material Code					erial Code				
			С	Α	M A108				
					S	Α	STI	M A479-316 SS	
				3	Α	STM A276-316 SS ¤			
			Р	Α	STI	M A696*			
			'		S	eat	Material Code		
							L	Rylon™ (Standard)	
							D	Delrin®	
							Κ	Kel-F®	
							Р	Peek®	

٧

Max Cv Ratings .375" Orifice Straight Body Style 2.4 Approx. Manifold Weight:

9.00 lbs. [4.08 kg] ea. (M-500) 7.00 lbs. [3.17 kg] ea. (M-650) 7.60 lbs. [3.44 kg] ea. (M-750)

M3-

* Barstock equivalent of ASTM A105

Notes

Stem Packing/Seal Code
P PTFE (Below threads)

Viton® O-Ring

 PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention

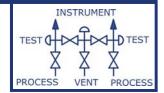
Options [pages 49-50]

- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



5-Valve Differential Pressure Wafer Style Series Manifold (Natural Gas Pattern) 2-1/8" Centers

HARD SEAT 1/2" FNPT x FLANGE .125" ORIFICE



HARD BALL SEAT: .125" Orifice



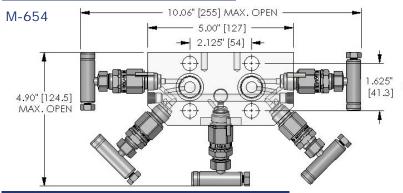
Features

PGI Standard 316 SS *Ball* Seat

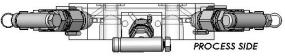
Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

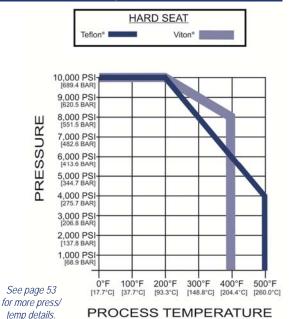
Dimensions, inches [mm]



INSTRUMENT SIDE



Pressure vs. Temperature



Materials of Construction				
Part	A696 Carbon Steel*	316 Stainless Steel		
Body / Bonnet	ASTM A696 Gr.C	ASTM A479-316		
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring		
Stem	ASTM A479-316	ASTM A479-316		
Packing Adjuster	ASTM A696 Gr.C	ASTM A479-316		
Packing Follower	ASTM A479-316	ASTM A479-316		
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A582-303		
Handle Assembly	ASTM A108	300 Series SS		

Part Number Selection

Base Mod	Base Model						
	Process x Instrument x Vent/Test						
M-654	1/2" FNPT x Flange x 1/4" NPT						
	Body Material Code						
	S ASTM A479-316 SS						
	P ASTM A696*						
	Seat Material Code						
	6 316 SS Ball (Standard)						
	C Carbide Ball						
	N Monel®						
	Stem Packing/Seal Code						
	P PTFE (Below threads)						
	V Viton® O-Ring						
M-654	- Options [pages 49-50]						

Max Cv Ratings

.125" Orifice Straight Body Style

Approx. Manifold Weight: 4.1 lbs. [1.85 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



5-Valve Differential Pressure M-800 Series Manifold (Power Pattern) 2-1/8" Centers

HARD SEAT 1/2" FNPT x FLANGE .125" ORIFICE

INSTRUMENT VENT/TEST VENT/TEST PROCESS

HARD BALL SEAT: .125" Orifice



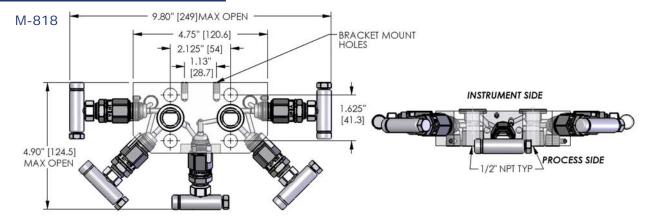
Features

 PGI Standard 316 SS Ball Seat

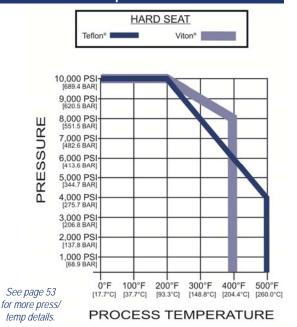
Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- · Available in a variety of materials

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction				
Part	A696 Carbon Steel*	316 Stainless Steel		
Body / Bonnet	ASTM A696 Gr.C	ASTM A479-316		
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring		
Stem	ASTM A479-316	ASTM A479-316		
Packing Adjuster	ASTM A696 Gr.C	ASTM A479-316		
Packing Follower	ASTM A479-316	ASTM A479-316		
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A582-303		
Handle Assembly	ASTM A108	300 Series SS		

Part Number Selection

ase Model						
Process x Instrument x Vent/Test						
M-818 1/2" FNPT x Flange x 1/4" NPT						
Body Material Code						
S ASTM A479-316 SS						
P ASTM A696*						
Seat Material Code						
6 316 SS Ball (Standard)						
C Carbide Ball						
N Monel®						
Stem Packing/Seal Code						
P PTFE (Below threads)						
V Viton® O-Ring						
M-818 - Options [pages 49-50]						

Max Cv Ratings

.125" Orifice	Stratgrit body Style				
.125 Office	.25				
Approx. Manifold Weight:					

6.10 lbs. [2.76 kg] ea.

* Barstock equivalent of ASTM A105

Motes

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

5-Valve Wide-Pattern™ Differential Pressure Manifolds

HARD SEAT .187" ORIFICE

HARD BALL SEAT: .187" Orifice



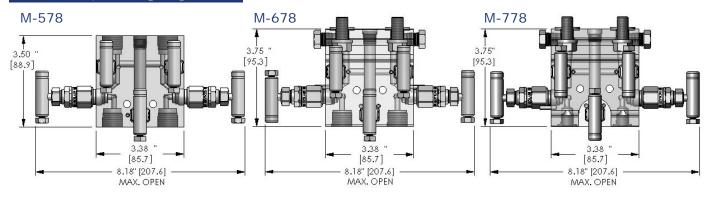
Features

 PGI Standard 316 SS Ball Seat

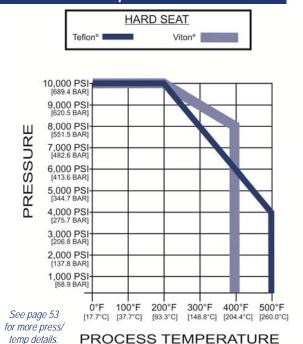
Benefits

- Non-rotating ball eliminates seat galling and ball creasing
- Leak free, bubble tight seating
- Available in a variety of materials

Dimensions, inches [mm]



Pressure vs. Temperature



Part Number Sele	ection
------------------	--------

Base Mode

	Process x instrument x vent										
M-	578	3	1,	1/2" FNPT x 1/2" FNPT x 1/4" NPT							
M-	678	} ¤	1,	1/2" FNPT x Flange x 1/4" FNPT							
M-	778	} ¤	F	lang	Э х	Flan	ge x 1/	/4" NPT			
	Body Material Code										
			С	AS	TM	A10	8				
			S	AS	TM	A47	9-316	SS			
			3	AS	TM	A27	6-316	SS ¤			
			Р	AS	TM	A69	6*				
				Se	at I	Mate	rial Co	ode			
					5	316	SS Bal	l <i>(Standard)</i>			
				(2	Carb	ide Ba	II			
				1	V	Mone	el®				
					!	Stem	Pack	ing/Seal Code			
						Р	PTFE	(Below threads)			
				V Viton® O-Ring							
M-							-	Options [pages 49-50]			

Materials of Construction									
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel						
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316 ASTM A276-316 ¤						
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring						
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316						
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303						
Handle Assembly	ASTM A108	ASTM A108	300 Series SS						

Max Cv Ratings

.187" Orifice Straight Body Style

Approx. Manifold Weight: 5.70 lbs. [2.58 kg] ea.

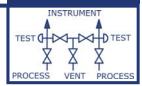
* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



5-Valve Wide-Pattern™ Differential Pressure Manifolds

SOFT SEAT .187" ORIFICE



SOFT SEAT: .187" Orifice



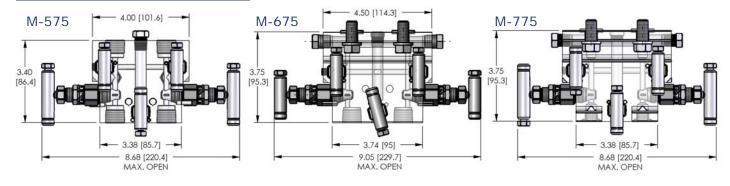
Features

 PGI Soft Cone Seat

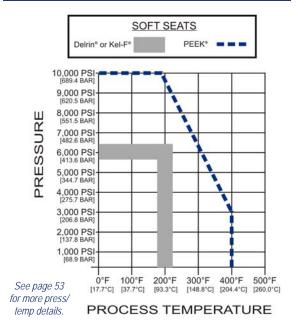
Benefits

- Roddable straight-through design
- Leak free, bubble tight seating
- Easily replaced
- · Available in a variety of materials
- · Bi-directional flow

Dimensions, inches [mm]



Pressure vs. Temperature



Part Number Selection

Base Model

Process x Instrument x Vent										
M-	57	5	1	/2" F	IPT x 1/2" FNPT x 1/4" NPT					
M-	67	'5 ¤	1	/2" F	NPT x Flange x 1/4" FNPT					
M-	77	'5 ¤	F	lang	e x Flange x 1/4" NPT					
Body Material Code										
			С	AS	TM A108					
			S	AS	TM A479-316 SS					
			<u>ی</u>	AS	TM A276-316 SS ¤					
			Р	AS	TM A696*					
				Sea	at Material Code					
					Delrin® (Standard)					
				k	Kel-F®					
				F	P Peek®					
					Stem Packing/Seal Code					
				P PTFE (Below threads)						
				V Viton® O-Ring						
M-					- Options [pages 49-50]					

Materials of Construction									
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel						
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316 ASTM A276-316 ¤						
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring						
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316						
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303						
Handle Assembly	ASTM A108	ASTM A108	300 Series SS						

Max Cv Ratings

.187" Orifice Straight Body Style
.83

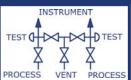
Approx. Manifold Weight:

4.30 lbs. [1.95 kg] ea. (M-575) 6.30 lbs. [2.85 kg] ea. (M-675) 7.00 lbs. [3.18 kg] ea. (M-775)

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

SOFT SEAT .375" ORIFICE



SOFT SEAT: .375" Orifice



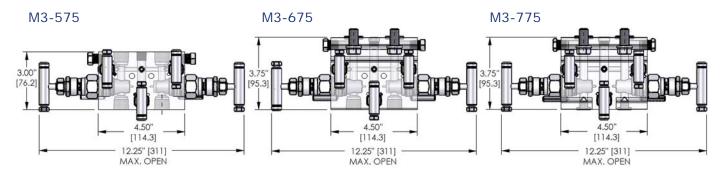
Features

PGI Soft Cone Seat

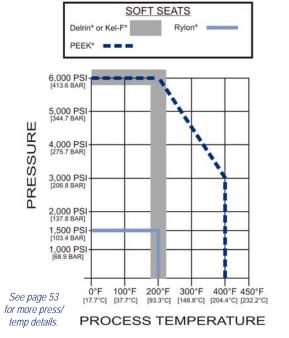
Benefits

- · Roddable straight-through design
- · Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- Bi-directional flow

Dimensions, inches [mm]



Pressure vs. Temperature



Materials of Construction									
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel						
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A479-316 ASTM A276-316 ¤						
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring						
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316						
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316						
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303						
Handle Assembly	ASTM A108	ASTM A108	300 Series SS						

Part Number Selection

Base Model

ט	ase	VIOC	ICI								
	Process x Instrument x Vent										
	M3-	57	5	1/	/2" F	NF	PT x 1/2" FNPT x 1/4" NPT				
	M3-	67	5 ¤	1/	/2" F	NF	PT x Flange x 1/4" FNPT				
	M3-	77	5 ¤	FI	lanç	је х	Flange x 1/4" NPT				
	Body Material Code										
				С	AS	STN	1 A108				
				_	AS	STN	1 A479-316 SS				
				S	AS	STN	1 A276-316 SS ¤				
				Р	AS	STN	1 A696*				
			'	T	Se	eat	Material Code				
						L	Rylon™ (Standard on Block Valves)				
						D	Delrin® (Standard on Equalizer & Vent Valves)				
					Ī	K	Kel-F®				
						Р	Peek®				
							Stem Packing/Seal Code				
							P PTFE (Below threads)				
							V Viton® O-Ring				
					_						
	M3-						- Options [pages 49-50]				

Max Cv Ratings

.375" Orifice	Straight Body Styl
.373 Utilice	3.0

Approx. Manifold Weight:

7.10 lbs. [3.22 kg] ea. (M3-575) 7.70 lbs. [3.49 kg] ea. (M3-675) 8.30 lbs. [3.76 kg] ea. (M3-775)

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C

SOFT SEAT .375" ORIFICE INSTRUMENT TEST OF TOTAL DIEST

VENT

PROCESS

PROCESS

SOFT SEAT: .375" Orifice



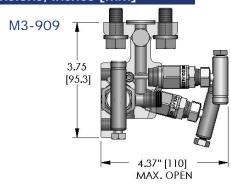
Features

 PGI Soft Cone Seat

Benefits

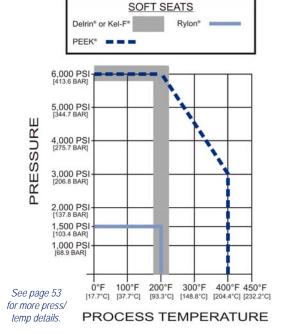
- · Roddable design
- · Leak free, bubble tight seating
- Easily replaced
- Available in a variety of materials
- · Bi-directional flow

Dimensions, inches [mm]



4.50" [114.3] 12.25" [311] MAX. OPEN

Pressure vs. Temperature



Part Number Selection

Base Model										
Process x Instrument x Vent										
M3-909	Flange	e x Flar	nge x 1	/4" NPT <i>(90° Angle)</i>						
Е	Body Material Code									
	C AS	ΓM A10	8							
	S AS	ΓM A27	6-316	SS						
	P AS	ΓM A69	6*							
	Sea	nt Mate	rial Co	ode						
	L	Rylo	n™ (St	andard)						
	D	Delri	n®							
	K	Kel-F	®							
	P	Peek	®							
		Stem	Pack	ing/Seal Code						
		Р	PTFE	(Below threads)						
		٧	Viton®	O-Ring						
M3-909		T	-	Options [pages 49-50]						

Materials of Construction								
Part	Carbon Steel	A696 Carbon Steel*	316 Stainless Steel					
Body / Bonnet	ASTM A108	ASTM A696 Gr.C	ASTM A276-316					
Packing "P" / "V"	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring	PTFE/Viton® O-Ring					
Stem	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Packing Adjuster	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A479-316					
Packing Follower	ASTM A479-316	ASTM A479-316	ASTM A479-316					
Jam Nut (TFE Packed Only)	ASTM A696 Gr.C	ASTM A696 Gr.C	ASTM A582-303					
Handle Assembly	ASTM A108	ASTM A108	300 Series SS					

Max Cv Ratings Straight Body Style

Approx. Manifold Weight: 7.7 lbs. [3.5 kg] ea.

* Barstock equivalent of ASTM A105

- PGI Carbon Steel products are Alkaline Zinc plated for corrosion prevention
- PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
- 100% Pressure Tested
- Carbon Steel Weld End Connection Bodies are ASTM A696 Gr.C



M-505	С	D	Р	-							
Add Options in Alpha-Numeric Order										rder	

Consult Factory to Verify that Options are Available with the Specific Model Number(s) Chosen

	OPTIONS
OPTION CODE	DESCRIPTION
AB	INTEGRAL TUBE FITTING - PARKER A-LOK WELDED IN COMPRESSION FITTING
AM7	MALE PIPE SOCKET WELD - INLET ONLY (Process Ports)
AP	FEMALE PIPE SOCKET WELD INLET & OUTLET
AP7	FEMALE PIPE SOCKET WELD INLET ONLY (Process Ports)
AP8	FEMALE PIPE SOCKET WELD OUTLET ONLY
AS	6" TUBE STUB INLET & OUTLET
AS7	6" TUBE STUB INLET ONLY
AU	INTEGRAL PARKER A-LOK INLET & OUTLET
AU7	1/2" INTEGRAL TUBE FITTING - PARKER A-LOK DUAL FERRULES INLET ONLY (Process Ports)
AY	INTEGRAL PARKER CPI INLET & OUTLET
AY7	INTEGRAL PARKER CPI INLET ONLY
B1	BLEED VALVE INSTALLED BALL SEAT A7-521 (1/4") OR A7-520 (1/2")
B2	BLEED VALVE INSTALLED BLEED TEE STYLE A7-528 (1/4") or A7-529(1/2")
B3XX	MINI BLEED VALVE INSTALLED V-585 STYLE XX = SEAT AND SEAL CODE ON V-585
B4	BLEED VALVE INSTALLED MINI HEX STYLE A7-525 (1/4") or A7-526 (1/2")
B5	BLEEDER VALVE 1/4" NPT INSTALLED IN VENT PORT (BV10N2)
В6	BLEEDER VALVE 1/2" NPT INSTALLED IN VENT PORT (BV10N4)
GA	ANTI-TAMPER BONNET (ALL POSITIONS)
GC	ANTI-TAMPER BONNET (ISOLATION VALVE ONLY)
GD	ANTI-TAMPER BONNET (EQUALIZER VALVE ONLY)
GE	ANTI-TAMPER BONNET (VENT VALVE ONLY)
GJ	BONNET LOCK OUT (ALL POSITIONS - LOCK NOT PROVIDED)
GK	BONNET LOCK OUT (ISOLATION VALVE ONLY- LOCK NOT PROVIDED)
GL	BONNET LOCK OUT (EQUALIZER or SECONDARY POSITION - LOCK NOT PROVIDED)
GM	BONNET LOCK OUT (VENT VALVE ONLY - LOCK NOT PROVIDED)
HCB	2" BLOCK VALVE HANDLES CS FOR USE WITH DP TO DP ADAPTER PLATE (HANDLE CLEARS ADAPTER BAR)
HSB	2" BLOCK VALVE HANDLES 316 SS FOR USE WITH DP TO DP ADAPTER PLATE (HANDLE CLEARS ADAPTER BAR)
H3EV	1.5" CS HANDLES ON EQUALIZER & VENT VALVES WIDE PATTERN 5 VALVE MANIFOLDS (2" STANDARD)
H4EV	1.5" SS HANDLES ON EQUALIZER & VENT VALVES WIDE PATTERN 5 VALVE MANIFOLDS (2" STANDARD)
H5	CS MINI ROUND HANDLES
H6	SS MINI ROUND HANDLES
H7	CS MINI "T" / BAR HANDLE
H8	SS MINI "T" / BAR HANDLE
IEC	IEC INSTRUMENT FLANGE SEAL(S) & BOLT HOLES (DERATES MANIFOLD TO 6,000 PSI MAX PRESSURE)
M1	PANEL MOUNT NUT
M7	REQUIRED SLOTTING FOR ROSEMOUNT 1151 TRANSMITTERS SERIES 6 & 7 (FLANGE MANIFOLDS ONLY)
MA	VERSA-MOUNT BRACKET HOLES

Options Continued on Next Page —



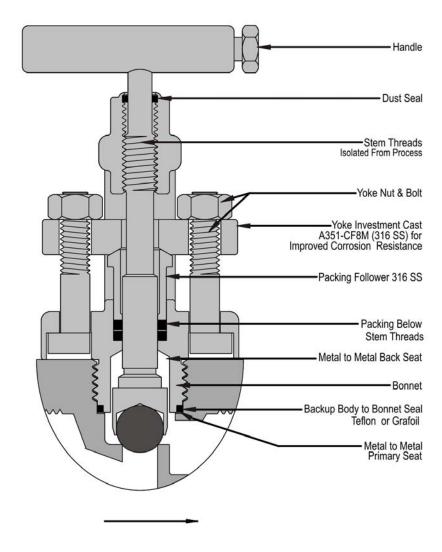
M-505 C D P - Add Options in Alpha Numeric Order

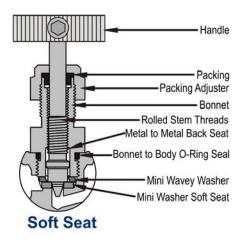
Add Options in Alpha-Numeric Order

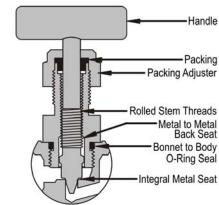
Consult Factory to Verify that Options are Available with the Specific Model Number(s) Chosen

	OPTIONS				
OPTION CODE	DESCRIPTION				
ME	SLOTTED INSTRUMENT FLANGE BOLT HOLES WHEN USING BOLT LENGTHS OVER 3"				
MF	IEC FLANGE SEALS ONLY				
MH	VITON O-RING FLANGE SEALS (FLANGE MANIFOLDS ONLY)				
MJ	VITON O-RING FLANGE SEALS (AK-003/079-CO ONLY)				
MN	DIELECTRIC ISOLATION (AK SERIES ADAPTERS AND CONNECTORS)				
MT	TAYLOR INSTUMENT FLANGE SEALS				
MY	DIELECTRIC ISOLATION (FLANGE MANIFOLDS ONLY)				
MZ	DIELECTRIC ISOLATION (WAFER MANIFOLDS ONLY)				
P1	PURGE / TEST LINE FITTING(S) - MUST INCLUDE LOCATION OPTION PB, PS OR PT (I.E. PBP1, PSP1, PTP1)				
P4	(2) 1/4" VENT / TEST PORTS (BOTTOM)				
P9	NPT HEX HEAD PIPE PLUG IN VENT / TEST PORT				
PB	(2) 1/4" CONSTANT PURGE PORTS WITH PLUGS (BOTTOM)				
PS	(2) 1/4" CONSTANT PURGE PORTS WITH PLUGS (SIDE)				
PT	(2) 1/4" CONSTANT PURGE PORTS WITH PLUGS (TOP)				
S1	MONEL STEM MATERIAL				
ST	THROTTLING STEM TIP (CARBIDE STANDARD)				
TC	STEAM TRACE BLOCK - CARBON STEEL				
TH	HYDROSTATIC TESTING				
TS	STEAM TRACE BLOCK - STAINLESS STEEL				
VA	BRACKET SPACER FOR FLANGE TO FLANGE MANIFOLDS - 316 SS ONLY; REQUIRES A BRACKET OPTION ADD "A" TO END OF BRACKET PART NUMBERS BELOW = VCA, VCHA, VSA or VSHA				
VC	CS VERSA MOUNT BRACKET				
VCH	CS HEAVY DUTY VERSA MOUNT BRACKET				
VS	316 SS VERSA MOUNT BRACKET				
VSH	316 SS HEAVY DUTY VERSA MOUNT BRACKET				
VMC	MANIFOLD BRACKET KIT (L STYLE) CARBON STEEL				
VMS	MANIFOLD BRACKET KIT (L STYLE) 316 STAINLESS STEEL				
W	SAFETY BONNET LOCK PLATE				
W1	316 SS TAG (20 CHARACTERS)				
W9	316 SS STANDARD LENGTH BOLTS				
WA	CS 2-1/4" BOLTS FOR ROSEMOUNT 3051C OR 2024 WITH COPLANAR FLANGE MANIFOLD ONLY				
WAW9	316 SS 2-1/4" BOLTS FOR ROSEMOUNT 3051C OR 2024 WITH COPLANAR FLANGE MANIFOLD ONLY				
Х3	(2) 1/4" TEST PORTS ON INSTRUMENT FLANGE ON INSTRUMENT FLANGE (FLANGE MANIFOLDS ONLY)				
X8	GRAFOIL FLANGE SEALS (NOT AVAILABLE WITH MN OPTION)				
XL	CLEAN FOR CRITICAL SERVICE (OXYGEN OR CHLORINE)				
XS	SPECIAL STAMPING				
XV	MANIFOLD MOUNTED TO CUSTOMERS TRANSMITTER AND PRESSURE TESTED				
Y	OS & Y BONNET				

OS & Y PTFE Packed Bonnet Design

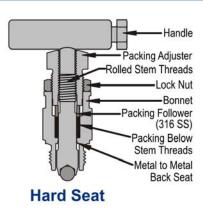


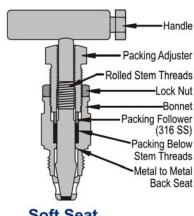


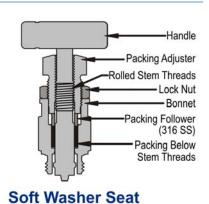


Integral Metal to Metal Seat



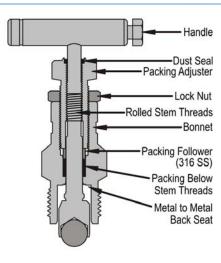




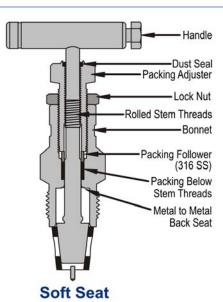


Soft Seat



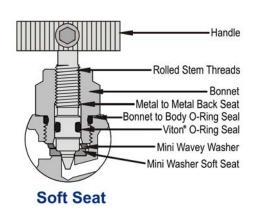


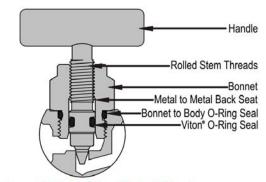
Hard Seat



Viton® O-Ring Bonnet Design

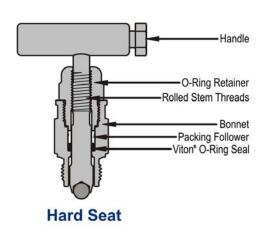


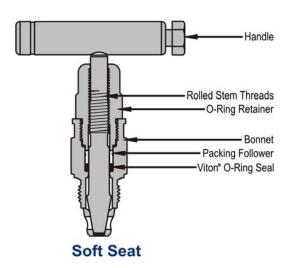




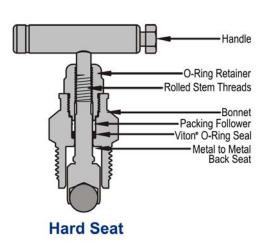
Integral Metal to Metal Seat

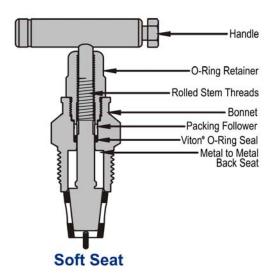














Pressure & Process Temperature Ratings

	STANDARD BODY MATERIAL CODES					
CODE	DESCRIPTION	PRESSURE & PROCESS TEMPERATURE LIMITS				
S	ASTM A479-316 Stainless Steel	10,000 PSI Max. @ 200° to -100°F Min. 1,500 PSI Max. @ 1,000° F Max.	689 bar Max. @ 93° to -73° C Min. 103 bar Max. @ 538° C Max.			
С	ASTM A108 Carbon Steel	10,000 PSI Max. @ 200° to -20°F Min. 1,500 PSI Max. @ 500° F Max.	689 bar Max. @ 93° to -29° C Min. 103 bar Max. @ 260° C Max.			
Р	ASTM A696 Gr. C Carbon Steel* (* Barstock equivalent of ASTM A105)	10,000 PSI Max. @ 200° to -20°F Min. 1,500 PSI Max. @ 800° F Max.	689 bar Max. @ 93° to -29° C Min. 103 bar Max. @ 427° C Max.			
Т	ASTM A395 GR 60-40-18 Ductile Iron	3,000 PSI Max. @ 200° to -20°F Min. 1,500 PSI Max. @ 650° F Max.	207 bar Max. @ 93° to -29° C Min. 103 bar Max. @ 343° C Max.			

	STANDARD STEM SEAL MATERIAL CODES						
CODE	DESCRIPTION	ORIFICE SIZES	PRESSURE & PROCESS TEMPERATURE LIMITS				
D	PTFE Packed Style	.187" .250"	10,000 PSI Max. @ 200° to -80°F Min. 4,000 PSI Max. @ 500° F Max.	689 bar Max. @ 93° to -62° C Min. 276 bar Max. @ 260° C Max.			
r	FILE Facked Style	.375"	6,000 PSI Max. @ 200° to -40°F Min. 4,000 PSI Max. @ 500° F Max.	414 bar Max. @ 93° to -40° C Min. 276 bar Max. @ 260° C Max.			
Т	T Mini PTFE Packed .136"		6,000 PSI Max. @ 200° F Max. to -80°F Min. 4,000 PSI Max. @ 450° Max.	414 bar Max. @ 93° C Max. to -62° C Min. 276 bar Max. @ 232° C Max.			
V	Viton® O-Ring	.187" .250"	10,000 PSI Max. @ 200° to -15°F Min. 8,000 PSI Max. @ 400° F Max.	689 bar Max. @ 93° to -26° C Min. 552 bar Max. @ 204° C Max.			
		.375"	6,000 PSI Max. @ 200° F Max. to -15°F Min. 4,000 PSI Max. @ 400° Max.	414 bar Max. @ 93° C Max. to -40° C Min. 276 bar Max. @ 204° C Max.			

	STANDARD SOFT SEAT MATERIAL CODES						
CODE	DESCRIPTION	ORIFICE SIZES	PRESSURE & PROCESS TEMPERATURE				
L	Rylon™ Cone	.375"	1,500 PSI Max. @ 200° F Max. to -40°F Min.	103 bar Max. @ 93° C Max. to -40° C Min.			
D&K	Delrin® and Kel-F® Cone	.187" .250" .375"	6,000 PSI Max. @ 200° F Max. to -40°F Min.	414 bar Max. @ 93° C Max. to -40° C Min.			
Dak	Delrin® and Kel-F® Washer	.136"	3,000 PSI Max. @ 200° F Max. to -40°F Min.	207 bar Max. @ 93° C Max. to -40° C Min.			
Р	PEEK® Cone	.187" .250"	10,000 PSI Max. @ 200° to -40°F Min. 3,000 PSI Max. @ 400° F Max.	689 bar Max. @ 93° to -40° C Min. 207 bar Max. @ 204° C Max.			
	PEEN COILE	.375"	6,000 PSI Max. @ 200° to -40°F Min. 3,000 PSI Max. @ 400° F Max.	414 bar Max. @ 93° C Max. to -40° C Min. 207 bar Max. @ 204° C Max.			
	PEEK® Washer	.136"	6,000 PSI Max. @ 200° to -40°F Min. 3,000 PSI Max. @ 400° F Max.	414 bar Max. @ 93° to -40° C Min. 207 bar Max. @ 204° C Max.			
Т	PTFE Washer	.136"	1,000 PSI Max. @ 200° to -80°F Min. 500 psi Max. @ 450° F Max.	69 bar Max. @ 93° to -62° C Min. 34 bar Max. @ 232° C Max.			
	PTFE Cone	.187" .250" .375"	1,000 PSI Max. @ 200° to -80°F Min. 500 psi Max. @ 450° F Max.	69 bar Max. @ 93° to -62° C Min. 34 bar Max. @ 232° C Max.			

	STANDARD HARD SEAT MATERIAL CODES						
CODE	DESCRIPTION	ORIFICE SIZES	PRESSURE & PROCESS TEMPERATURE				
С	Carbide Ball						
6	316 SS Ball	.187"	10,000 PSI Max. @ 1,000° F Max. to -100°F Min.	689 bar Max. @ 538° C Max. to -73° C Min.			
N	Monel® Ball						
М	Integral Metal to Metal Seat	.136" .187"	See Pressure & Temperature of Body and Stem Seal Materials.				
С	Carbide Ball						
6	316 SS Ball	.375"	6,000 PSI Max. @ 1,000° F Max. to -100°F Min.	414 bar Max. @ 538° C Max. to -73° C Min.			
N	Monel® Ball						

Lone Star Spare Parts

.136" ORIFICE SEATS				
PART NO.	DESCRIPTION			
P5-020-R0	Mini PTFE Seat			
P5-020-R1	Mini Kel-F® Seat			
P5-020-R2	Mini Delrin® Seat			
P5-020-R3	Mini PEEK® Seat			
P7-024-C0	Wavey Washer			

.136" ORIFICE HANDLES				
PART NO.	DESCRIPTION			
SAV-001-10	Round Handle - Carbon Steel			
SAV-002-10	Bar Handle - Carbon Steel			
SAV-002-A0	Bar Handle - Stainless Steel			
SAV-100-A0	Round Handle - Stainless Steel			

.136" ORIFICE BONNET PACKING					
PART NO.	DESCRIPTION	PACKING CODE			
SP5-019-R0	Mini Packed PTFE Seal	T			
SP7-025-C0	Stainless Steel Backup Washer				

.136" ORIFICE MINIATURE BONNET ASSEMBLIES						
PART NO.	BONNET PACKING/SEAL	SEAT	BONNET MATERIAL	HANDLE MATERIAL	PACKING/ SEAL CODE	
SAV106C-V-H5			Carbon	Round CS		
SAV106C-V-H7	Vit∩n‴		Steel	Bar CS	V	
SAV106S-V-H6		Integral	NACE	Round SS	V	
SAV106S-V-H8		Metal or	316 SS	Bar SS		
SAV107C-T-H5		Soft Wash-	Carbon	Round CS		
SAV107C-T-H7	PTFE Above	er	Steel	Bar CS	т	
SAV107S-T-H6	Threads		NACE	Round SS	!	
SAV107S-T-H8			316 SS	Bar SS		

Note: Soft Seats are ordered separately.

.187" ORIFICE SEATS				
PART NO.	DESCRIPTION			
SP3-003-R1	Kel-F® Cone Seat			
SP3-003-R2	PEEK® Cone Seat			
SP3-003-R4	Delrin® Cone Seat			

.187" ORIFICE BONNET ASSEMBLIES							
PART NO.	BONNET PACKING/ SEAL	SEAT	BONNET MATERIAL	PACKING/SEAL CODE			
SAV182P6V-HC	Viton®		A696 Gr.C	V			
SAV166P6P-HC	6P-HC PTFE Below Threads 316 SS Ball		Carbon Steel*	Р			
SAV182S6V-HS	Viton®	310 33 Ball	NACE 316 SS	V			
SAV166S6P-HS	PTFE Below Threads		NACE 310 33	Р			
Note: Seats are Integral to the Bonnet Assembly.							

.187" ORIFICE BONNET ASSEMBLIES				
PART NO.	BONNET PACKING/ SEAL	SEAT	BONNET MATERIAL	PACKING/SEAL CODE
SAV193P-V-HH	Viton®	Soft Cone	A696 Gr.C	V
SAV185P-P-HH	PTFE Above Threads		Carbon Steel*	Р
SAV193S-V-HH	Viton®		NACE 316 SS	V
SAV185S-P-HH	PTFE Above Threads			Р

Note: Soft Seats are ordered separately.

.187" ORIFICE BONNET ASSEMBLIES					
PART NO.	BONNET PACKING/SEAL	SEAT	BONNET MATERIAL	PACKING/ SEAL CODE	
SAV127L-P-H3	DTEE About		PTFE Packed 1016/1018	Р	
SAV127P-P-H3	PTFE Above Threads			A696 Gr.C Carbon Steel*	Р
SAV127S-P-H4	Hilleaus		NACE 316 SS	Р	
Note: Soft Seats are ordered separately.					

.375" ORIFICE SEATS			
PART NO.	DESCRIPTION		
SP3-007-R1	Kel-F® Cone Seat		
SP3-007-R2	PEEK® Cone Seat		
SP3-007-R4	Delrin® Cone Seat		
SP3-007-R8	Rylon™ Cone Seat		

Note:

Handle included in all Bonnet Assemblies.

* Barstock equivalent of ASTM A105.

.375" ORIFICE SOFT SEAT BONNET ASSEMBLIES				
PART NO.	BONNET PACKING/ SEAL	SEAT	BONNET MATERIAL	PACKING/SEAL CODE
SAV300P-V-HH	Viton®	Soft Cone	A696 Gr.C	V
SAV301P-P-HH	PTFE Below Threads		Carbon Steel*	Р
SAV300S-V-HH	Viton®		NACE 316 SS	V
SAV301S-P-HH	PTFE Below Threads			Р
Note: Seats are ordered separately.				

.375" ORIFICE HARD BALL SEATS BONNET ASSEMBLIES				
PART NO.	BONNET PACKING/ SEAL	SEAT	BONNET MATERIAL	PACKING/SEAL CODE
SAV300P6V-HH	Viton®	316 SS Ball	A696 Gr.C	V
SAV301P6P-HH	PTFE Below Threads		Carbon Steel*	Р
SAV300S6V-HH	Viton®		NACE 316 SS	V
SAV301S6P-HH	PTFE Below Threads			Р
Note: Seats are Integral to the Bonnet Assembly.				



Additional Parker PGI Product Offerings

PGI Instrument Valves

Hand, Gauge, Bleed, Root and Multi-port designs. Carbon Steel, 316 SS to NACE MR0175/ISO 15156-3 and exotic materials available. Offered with our patented PTFE Pressure-Core® Stem Seal with an unmatched 5 year warranty.

Fugitive Emission Valves & Manifolds

Parker PGI's patented PTFE Pressure-Core® Stem Seal allows us to offer a line of fugitive emission products. Controlled venting and no bonnet maintenance help create a virtually leak free line of products. Offered with our patented PTFE Pressure-Core® Stem Seal with an unmatched 5 year warranty.

PGI Instrument Manifolds

A complete line of Block & Bleed, Meter, Two, Three and Five Valve styles available in Carbon Steel and 316 SS to NACE MR0175/ISO 15156-3. Specialty alloys available. Offered with the patented PTFE Pressure-Core® Stem Seal with an unmatched 5 year warranty.

Pulsation Testing

In conjunction with the Gas Machinery Research Council (GMRC), Parker PGI developed its patented Square Root Error (SRE) and Gauge Line Error (GLE) Testers. These products quantify the effect of pulsation on natural gas orifice measurement. In addition, PGI offers on-site testing using the latest equipment to provide a full technical report.

Engineered Products

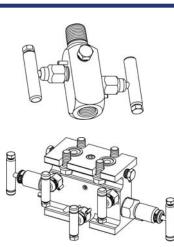
Parker PGI offers a complete line of Gas and Liquid Composite Samplers. The Interceptor and Nova samplers are FM and CSA Approved, Intrinsically safe for Class I, Division 1, Group C and D hazardous locations, when used with an approved PGI furnished power supply. Our NOVA system samples refined liquids, dense phase CO2 and wet, dry or dirty gas. Engineered Products division also offers sample cylinders, sample probes and cylinder valves. Our Hot-Shot™ Heated Enclosure System is designed to be used with natural gas samplers and will heat the sampling system to temperatures above the hydrocarbon dew point of the gas, assisting in the compliance of the new API Standard 14.1.

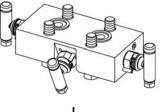
ZEUS[®] Power Systems

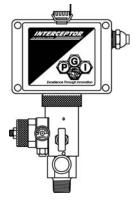
We offer efficient and reliable alternatives to solar panel systems used to power electronic instruments on gas pipelines. PGI's ThermoElectric Chargers (TEC) and Differential Pressure Chargers (DB1) both produce 12- or 24- volts of power to keep batteries fully charged. TEC is fueled by natural gas or propane, while the DB1 is powered using the differential pressure developed across a pressure regulator. Both TEC and DB1 continually monitor the battery's temperature and charge level, and charge the battery accordingly. TEC and DB1 can be used on transmitters, flow computers, AFR (Air Fuel Ratio) and communication systems on gas pipelines. The compact units excel in cold, snowy or rainy conditions, and are low-emission environmentally friendly.

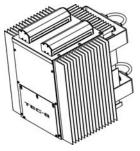
ThermoSync® Temperature Measurement System

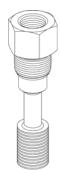
Parker PGI's ThermoSync thermowell and optional RTD probe provide the most accurate pipeline gas temperature measurement system available. The unique patented design optimizes thermo-coupling at the RTD tip while minimizing pipe wall induced errors. Reducing pipe temperature effects on flow calculations provides greater accuracy and minimizes unaccountable errors. The ThermoSync Temperature system measures the true flowing gas temperature by including a finned thermowell with a RTD that has PVC insulation, thus reducing the transfer of outside temperature effects to the RTD.













INSTRUMENTATION PRODUCTS

Instrument Valves & Manifolds
Power and Steam Plant Valves & Manifolds
Purge Adapters for the Process Industry

ENGINEERED PRODUCTS

Gas & Liquid Sampling Systems Natural Gas Sampling System Heated Enclosures Sample Cylinders and Accessories

MEASUREMENT ACCURACY PRODUCTS

ThermoSync® Thermowells & Temperature Probes Direct-Mount® Systems

Square Root Error (SRE) & Gauge Line Error (GLE) indicators

ZEUS* POWER SYSTEMS

TEC™ ThermoElectric Battery Chargers
DB1™ Differential Pressure Battery Chargers

ADDITIONAL PGI INTERNATIONAL

PRODUCTS & SERVICES

Valve Fittings & Wellhead Components Propane and Anhydrous Ammonia Valves Contract Machining



Parker PGI provides this information in good faith, and it is intended only as an informative guide to Parker PGI products and services. Individuals using this literature must exercise their independent judgment in evaluating product selection and determining product appropriateness for their particular purpose, system requirements and certifications. Parker PGI reserves the right to change product designs and specifications without notice.









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