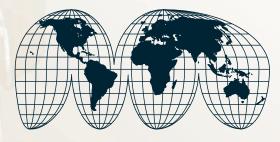
Smart Solutions. Powerful Products.





PBV® Series 5700/6700 Three-Piece Trunnion Supported Ball Valves

Manufacturer of Quality Valve Products Around the Globe



At Forum® Energy Technologies we are committed to improving our clients' operational and financial performance by supplying the most comprehensive range of valve products in the industry through our family of trusted valve brands.



Engineering Expertise

Forum® utilizes the latest state of the art engineering software to provide custom design services for any application. Finite element analysis is just one of many Design Verification Tools FET uses for designing valves to specific customer requirements.



CAD & NC Capabilities

With FET's fast and efficient workflow, CAD drawings can be released to the network for manufacturing and purchasing. All computer generated machine programs can be quickly changed for weld overlays or other processes. The result is faster deliveries.



Accurate Inventories

Daily cycle counting & order picking using wireless barcode guns and automated part delivery systems results in more accurate inventories and faster product delivery.



Quality Control

All FET Companies manufacture quality products designed and tested to meet the standards of Qualifying Authorities around the world. Advanced engineering and our Quality Management System assure that our valve products continue to exceed your expectations for performance.



Customer Service

Forum®'s Customer Service Department is fully staffed with trained customer service representatives ready to help you with your ordering information, technical specifications and logistics.

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Due to upgrades in industry standards, material innovations, and PBV®'s constant commitment to product advancement, data presented in this brochure is subject to change. Please contact your PBV® sales person for updated and/or current drawings and material compliance.

This information is available on our website at www.f-e-t.com.



Product Range • Series 5700/6700 Three-Piece Trunnion • Forged

	Product Range, Series 5700/6700, Full & Reduced Port, Flanged Ends															
Body	Cl	ass	Port	Size (in.)												
Material	API 6D	API 6A	Port	2*	3	4	6	8	10	12	14	16	18	20	24	26-56
Carbon Steel &	150	_		Х	Х	Х	Х	Х	Х	X	Х	Х	Х	Х	X	X
	300	_		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
	600	_		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Stainless	900	2000	Full & Reduced	Х	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Steel & Special	1500	3000	neddeed	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	_
	2500	5000		Х	Х	Х	Х	Х	Х	Х	_	Х	Х	_	_	_
	_	10,000		Х	Х	Х	Х	Х	Х	_	_	_	_	_	_	

^{*} Full Port only.

Sizes and classes not listed are available upon special request.

How To Order

Specifying PBV® Series 5700/6700 Valve Figure Numbers

Example: 6" C-6710-71-2200-GH-NG-DIB-1 This number represents a 6" ANSI Class 150, Full Port, Three-Piece Trunnion Ball Valve, Fire Tested with Emergency Grease Seals, with Raised Face, Carbon Steel Body Material, Carbon Steel Trim, Glass Filled TFE Seats, HNBR Seals, for NACE MR0175/ISO 15156 Service, Gear Operated, and DIB-1 Seats, with Cavity Relief Valve.

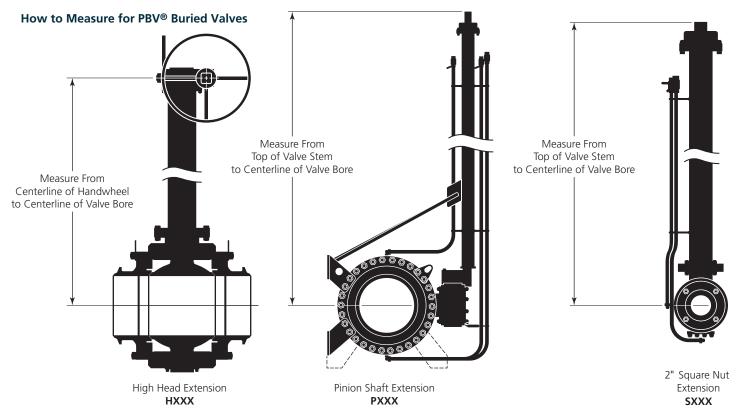
C - 6	7 10	- 7	1 -	22	00 -	G	Н -	· N	G - DIB-1 -
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Internal/ MFG Designator	Port Config.	Valve Type	Pressure Class	Fire Tested	End Conn.	Body Material	Trim Material (4)	Seat Material	Seal Material	NACE Option	Operator	Seat Config.	Modifier Code
C Carbon Steel S Stainless Steel P Import	5 Std. 6 Full	7 3 Pc. Trunnion Type Bolted Body 9 3 Pc. Trunnion Type Welded Body Z Tandem	10 150 CL 30 300 CL 60 600 CL 90 900 CL 15 1500 CL 25 2500 CL	Fire Tested w/No Emerg. Grease Seals TEsted w/ Emerg. Grease Seals	1 RF 2 Non-Std. 3 RTJ 4 RF x WE 5 WE x WE 6 RTJ x WE	22* A105/ A350 LF2 25*(1) A105/ A350 LF2 34 304SS 36 316SS 55 F55 Duplex 81 ENP 82 CRA Weld Overlay	00 Same as Body 36(3) Stainless Steel 40 410 Stainless Steel 55 F55 Duplex	G Glass Filled PTFE D Devlon® N Nylon P PEEK™ V Viton® A Z Tungsten Carbide Coating or Special	B Buna-N E EPDM H(1)(2) HNBR R(1) Low Temp Buna-N T(1)(2) Lip Seal PTFE U(1)(2) Viton® GLT V Viton® A W(2) Viton® B	N NACE S Non NACE	A Actuator B Bare Stem G Gear Operator L Lever \$ 2 inch Square Nut	No denotation for DBB Valves DIB-1 DPE x DPE DIB-1N DPE x DPE NO Cavity Relief DIB-2N SPE x DPE NO Cavity Relief	EXX Stem Exten. inches XXX Modifier Code HXXX Buried Valve Extens. inches PXXX Pinion Shaft Extens. inches SXXX 2 " Nut Extens. inches

Notes: 1) For Low Temperature Service & Severe Service.

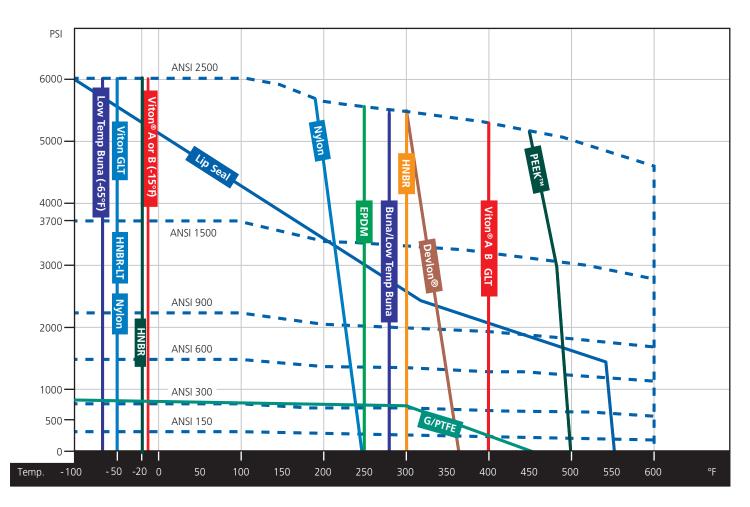
- 2) For Explosive Decompression Service. Other body, trim, seat and seal materials are available upon request.
- 3) For "36" trim, large diameter and Class 900 and higher, 17-4PH material is standard for ball and stem. All valves 6" and larger have 17-4PH stems when "36" trim is specified. Stronger material may be used to satisfy design requirements. Stems can be 316SS, S20910, (XM-19),17-4PH, etc.
- 4) Trim Components Include Ball, Seats, and Stem.

^{*} Dual rated A105/A350 LF2."25" used F/ Low Temp Services.

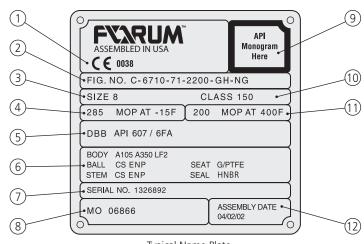


Pressure Temperature

The chart below depicts pressure and temperature ratings for common plastics and elastomers used in PBV® ball valves. Other materials are available upon request.



How to Read a Name Plate



Typical Name Plate Note: CSA Certification will require an additional Nameplate

PBV® Repair Kits

Spare parts are available for quick delivery. Orders with valve serial numbers will ensure the correct parts are shipped. Contact your PBV® salesperson for more information.

Item	Description
1	CE mark and notified body for PED (As required)
2	Figure number describes valve construction.
3	Nominal pipe size in inches
4	Max. operating pressure (psi) at min. valve design temperature
5	Valve features double block and bleed (DBB), DIB-1, DIB-1N, DIB-2N , NACE and firesafe standards.
6	Body and trim materials
7	PBV® serial number
8	PBV® manufacturing order number
9	API 6D or 6A monogram stamp
10	ANSI Pressure Class
11	Max. operating pressure (psi) at max. valve design temperature
12	Date of assembly MM/DD/YY

Our Quality Commitment...

Forum™ Energy Technologies is dedicated to continually improving their state-of-the-art engineering and manufacturing capabilities to improve the overall quality of their products and customer service. FET's entire global network of flow control experts consist of highly trained technicians, engineers, and superior testing laboratories to ensure that all products supplied to our customers are 100% in accordance with industry standards as well as our own Quality Management System.

Ball Valve Stem Torques

Series 5700/6700 • 2"FP-36"FP, Class 150 thru 2500

To calculate torque at any pressure use the formula located under Class for each valve size. Example: An 8" Class 600 at 1100 psi = $4060 + (5.64 \times 1100) = 10,264$ in.-lbs.

G/PTFE Seats, Class 150-300, 2"-14"

Port Size (in.)	Class 150 - 300 Stem Torque Formula, (in lbs.) MOP (psi)	Class 150 Stem Torque (in lbs.) 285	Class 300 Stem Torque (inlbs.) 740		
2	617 + 0.55*ΔP	770	1020		
3	1034 + 0.87*∆P	1280	1680		
4	1450 + 1.56*∆P	1890	2600		
6	3352 + 2.80*∆P	4150	5420		
8	4060 + 5.64*ΔP	5670	8230		
10	5837 + 8.29*∆P	8200	11,970		
12	12019 +10.75*∆P	15,080	19,970		
14	16327 +12.36*∆P	19,850	25,470		

G/PTFE Seats, Class 150-300, 16"-36"

Port Size (in.)	Class 150 - 300 Stem Torque Formula, (inlbs.)	Class 150 Stem Torque (inlbs.)	Class 300 Stem Torque (inlbs.)		
	MOP (psi)	285	740		
16	20415 +18.21*∆P	25,600	33,890		
18	18152+32.57*∆P	27,430	42,250		
20	31395 + 40.50*∆P	43,790	63,580		
24	31060+56.26*∆P	55,185	93,700		
30	74000+83*∆P	97,770	170,940 ⁽¹⁾		
34	102760+127*∆P	138,960	222,640(1)		
36	119040+109*∆P	150,100	199,700		

⁽¹⁾ For torque calculation for pressures between 285 psi and 740 psi contact PBV® sales/engineering.

Nylon/Devlon® Seats, Class 600-2500, 2"-36"

Port Size (in.)	Class 600 Stem Torque Formula, (inlbs.)	Cl. 600 Stem Torque (inlbs.)	Class 900 Stem Torque Formula	CI. 900 Stem Torque (inlbs.)	Class 1500 Stem Torque Formula, (inlbs.)	Cl. 1500 Stem Torque (inlbs.)	Class 2500 Stem Torque Formula, (inlbs.)	CI. 2500 Stem Torque (inlbs.)
	MOP (psi)	1480	MOP (psi)	2220	MOP (psi)	3705	MOP (psi)	6170
2	617 + 0.55*ΔP	1430	617 + 0.55*∆P	1840	617 + 0.55*∆P	2660	966 + 0.31*ΔP	2890
3	1034 + 0.87*∆P	2320	1034 + 0.87*∆P	2970	1034 + 0.87*∆P	4260	1204 + 0.55*∆P	4570
4	1450 + 1.56*ΔP	3750	1450 + 1.56*∆P	4900	1628 + 1.41*∆P	6850	1800 + 0.88*∆P	7240
6	3352 + 2.80*ΔP	7490	3352 + 2.80*∆P	9560	3042 + 3.05*∆P	14,320	4077 + 2.73*ΔP	20,910
8	4060 + 5.64*ΔP	12,400	4060 + 5.64*∆P	16,570	7733 + 5.70*∆P	28,830	6425 + 5.48*ΔP	40,250
10	5837 + 8.29*ΔP	18,100	4809 + 9.45*∆P	25,790	7621 + 10.75*∆P	47,450	10007+10.21*∆P	72,980
12	12019+10.75*∆P	27,930	12079 +12.54*∆P	39,910	10491+14.32*∆P	63,550	17049 +14.36*∆P	105,630
14	16327 +12.36*∆P	34,620	15028 + 22.39*∆P	64,730	18462+19.41*∆P	90,380	_	_
16	20415 +18.21*∆P	47,360	18820 + 30.88*∆P	116,500	18385+30.74*∆P	177,000	_	_
18	18152+32.57*∆P	66,350	18024 + 60.89 *∆P	152,000	14790 + 60.25*∆P	238,000	_	_
20	31395 + 40.50*∆P	95,770	28546 + 83.99*∆P	215,000	64400 + 74.39*∆P	340,000	_	_
24	31060+56.26*ΔP	157,500	49264 + 87.65*∆P	243,850	71144 + 202.62*∆P	520,900	_	_
30	159000 + (201*(P-700))	315,780	_	_	_	_	_	_
34	206700 + (258*(P-700))	407,940	_	_	_	_	_	_
36	216215 + (270*(P-700))	426,820	_	_	_	_	_	_

Torque values are for new valves with clean water.

No additional safety factors have been added.

For powered actuators, it is recommended to add an additional 25% minimum.

For dirty service, add an additional 25% minimum.

For dry gas service, add 50% minimum.

For Double Block w/body cavity bleed to zero, add 25% minimum.

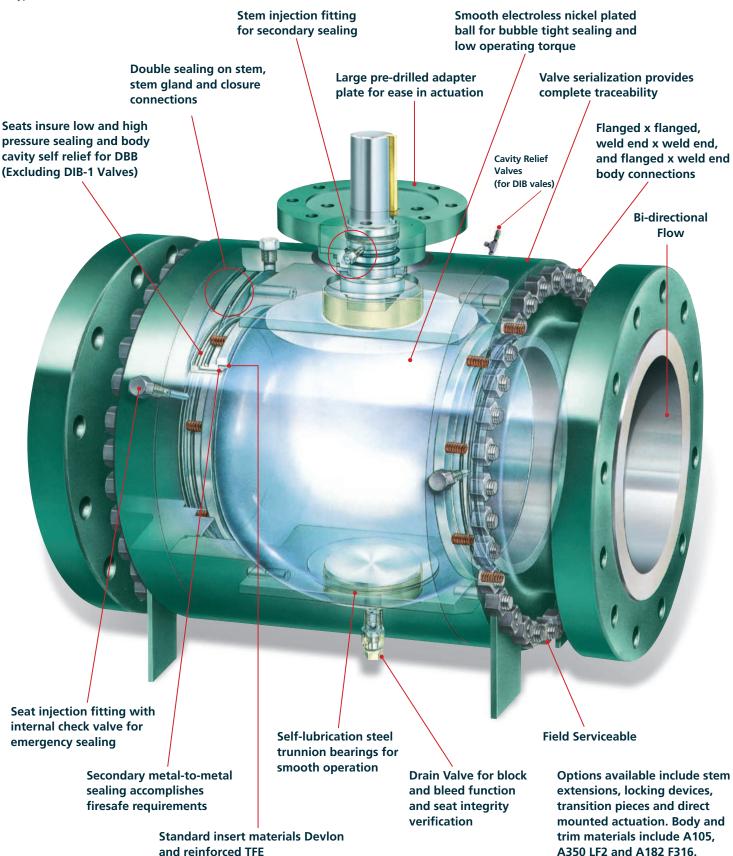
To prevent stem side loading and eliminate potential stem galling, the following tolerances for mounting actuators are recommended.

- Actuator mounting bracket flanges must be parallel within .015".
- The max allowed runout on the stem coupling bores are .008".

PBV® Engineering Excellence at Work

PBV® Series 5700/6700 Three-Piece, Side-Entry, Trunnion Ball Valve 2"-56" ANSI Class 150/300, 600, 900, 1500 & 2500 • Full and Standard Port

PBV®'s trunnion ball valves are available in a variety of materials and configurations to meet your specific project requirements. Typical construction is shown here.



Features

Materials of Construction

PBV® manufactures trunnion ball valves using a full range of carbon, alloy and stainless materials. Our commodity valves are manufactured using dual rated A105/A350 LF2 steel, B7M/ 2HM fasteners, and 3 mil ENP carbon steel trim on 6" and larger. Material test reports in accordance with EN10204 3.1 are available on each serialized valve.

NACE Compliance

The demand for valves to be resistant to sulfide stress cracking, and to perform in corrosive hydrocarbon environments, has become commonplace. Facilities handling H₂S bearing hydrocarbons have increased dramatically over recent years. Hydrogen sulfide concentration, total system pressure, application temperature, existence of elemental sulfur, and chloride content all have a bearing on appropriate material selection in this severe and ph environment. All materials used by PBV® are in accordance with the pre-qualified materials identified in NACE MR0175 /ISO 15156. In order to ensure compliance customers must provide application specific operating conditions.

Inclusive to the above, valves with bore diameters 4" and smaller are supplied standard with Stainless Steel balls, seats and stems. Material type selected may vary depending on design requirements.

Emergency Sealant Injection

A secondary sealant injection system for stem seals is a standard feature on all PBV® Trunnion ball valves. On valves 6" bore and larger, the seat emergency sealant system shown here is a standard feature. A similar system where by sealant grease can be injected into the body bore is standard for sizes 2" thru 4". These systems are made standard for the sole purpose of providing a temporary seal to an otherwise damaged area. PBV® ball valves require no lubrication under ordinary circumstances.

Anti-Blowout

Blowout proof stems are a standard feature of all PBV® ball valves.

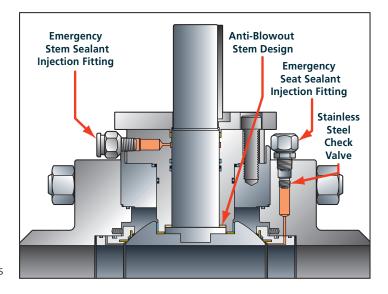
Certification of Quality and Design

Quality systems are a way of life at PBV®. In addition, PBV® functions under the requirements of an API Q1 quality program. Our facilities and quality programs are always open to customer audits. The complete PBV® trunnion ball valve line has been designed and tested to ensure that the external and through-bore maximum allowable leakage rates are maintained in the event of a fire. PBV® equipment is certified to API 607 and API 6FA firesafe

standards.

All API 6D, API 6A, CE PED and other licenses are maintained on a current basis. Each and every PBV® trunnion ball valve is monogrammed and serialized under our API 6D-0129 or our API 6A-0383 license numbers.











API 6D

API 6A

ISO 9001:2008

Features

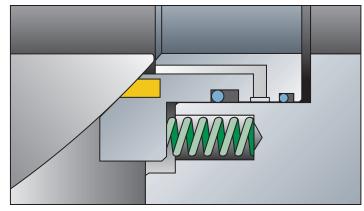
PBV®'s Patented Seat Technologies

PBV® provides the latest in valve seat technology. Other seat designs are also available to meet your application requirements. This makes PBV® one of the most flexible manufacturers in terms of available

seat configurations and designs. PBV®'s metal-to-metal seating technologies and manufacturing capabilities continue to lead the way in industry innovations where severe service applications are required.

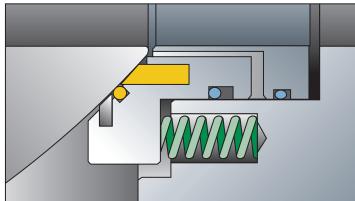
Compseal-0

The PBV® Compseal-0 design is ideal for applications where non-standardseat materials are required for the service conditions. The different materials give added flexibility for faster delivery in demanding applications. The seat inserts allow for a variety of materials to be used while still complying to API seat test requirements for "bubble-tight shut-off". Teflon Compseal-0 designs are standard on For 150 and 300 classes. Class 600 and above used Devlon as a standard. PEEK seats are available on request.



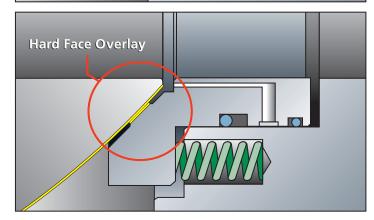
Compseal-1

PBV® Compseal-1 seat designs are for applications that require redundant sealing when access to a valve is limited or start up conditions are known to have debris in the line. Lower torque and low pressure shut-off are often achieved utilizing this design while providing customers with zero leakage reliability at an affordable price.



Metal-To-Metal Seats

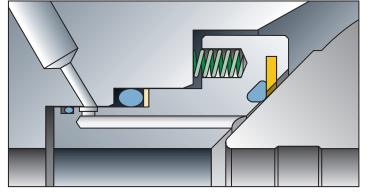
There are a number of services that require metal-to-metal seat technology. PBV® has extensive experience in the supply of valves for applications such as high temperature cokers, control valve applications and in corrosive and /or erosive environments. PBV® achieves the metal-to-metal seating technology through the use of various hard face material on the ball and seat face.



Large Diameter Seat Design

The necessary thrust required for proper sealing of the seat to the ball at low pressure is provided by spiral springs (See Illustration 1). At high pressure the thrust of the seat to the ball is increased by the pressure of service medium in the pipeline.

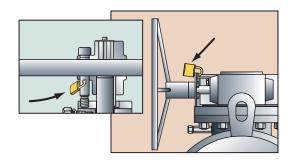
Primary seat sealing is provided by a soft sealing ring of different rubber types. Alternatively, a PTFE hard sealing ring (or PTFE modifications) can be used for primary sealing. Secondary sealing is provided by metal-to-metal contact of the seat to the ball. Emergency sealant, which can be injected between the seat and ball, can be used as tertiary sealing.



Features

Locking Devices

Locking devices are standard on all PBV® trunnion ball valves. The designs shown depict the locking feature for both lever-operated and gear-operated valves. In addition, a multiple lock template can accommodate safety requirements when more than one person needs reassurance of security. Special safety interlock devices are also available.



Actuation

PBV® ball valves are built to easily accept pneumatic, electric, hydraulic or gas-overoil actuators. Break-away and run torque, which normally affect actuator sizing, are minimized to allow for economical actuator packages. Actuated ball valves may be supplied directly from PBV® under a single warranty.

Valve/Actuator assemblies can be tested to customer requirements at PBV® before shipment to the job site. The valves shown (right are just a few of many severe service ball valves PBV® produced for the United States Department of Energy, Strategic Petroleum Reserves, complete with gear operators built and tested to DOE specifications.



Weld Overlay Technology

This technology is cost effective for ball valves in highly corrosive or erosive services. The life of a valve can be considerably extended at a fraction of the cost of a solid corrosion resistant alloy valve by the application of a weld overlay to valve internal surfaces.

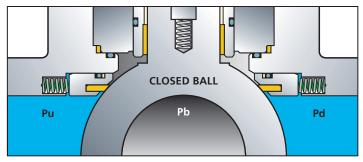
If you are currently using solid stainless steel or other high alloy valves the use of this technology could result in considerable savings with no sacrifice to service life or performance. Offered on valves 6" and larger.

Welding is performed in accordance with ASME BPVC Section IX.



Double Block and Bleed Valves

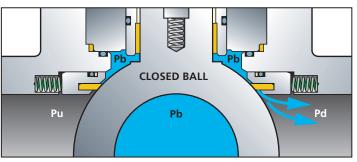
The standard PBV® trunnion mounted ball valves are designed and manufactured to facilitate block and bleed applications in the closed position only. In addition, valves 6" and larger can be completely flushed with the valve under pressure and in the closed position. This is achieved by utilizing the drain valve and vent hole in combination. The illustration shows both the upstream pressure (Pu) and the downstream pressure (Pd) being held independently from the body pressure (Pb). The piston effect principle illustrated assures bubble tight sealing simultaneously on both sides of the ball.



Shown In Closed Position.

Valve Cavity Pressure Relief

When a standard trunnion ball valve is in the closed position, media will be trapped in the body cavity. Unless this media is drained, it will be subjected to thermal expansion and contraction. As the temperature rises, the trapped media expands and the pressure increases in the area shown as (Pb). In order to avoid excessive pressure build-up, the PBV® seats are designed to self-relieve, allowing the media in the body to escape to the lower pressure side. In this case, we have shown it to relieve to the downstream side (Pd). This self-relieving seat design feature is the default on all PBV® standard trunnion ball valves.



Shown In Closed Position.

Options

Buried Service

The photos and illustrations shown here typify the designs used for adapting a PBV® ball valve for buried service. PBV® manufactures



hi-head extensions exactly in accordance with customer specifications or according to our own engineering and manufacturing designs.

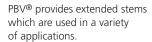
PBV® has the capabilities to produce giants like the one pictured at right. PBV® produced two 48" Class 600 ball valves with 96" extended stems for the Williams Energy, "Sundance Pipeline Project."

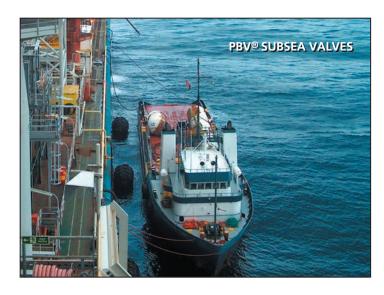




PBV® Ball Valves For Cryogenic Service

For service temperatures below -50°F, PBV®'s standard design includes lip seals and stem extensions using selected materials for your application. The 12" gas column shown at right is a standard feature to isolate the gear operator and stem seals from the cold media.











Gas Column

Splash Zone Valve

PBV® supplies subsea valves to individual customer requirements or to our own internal standards. Coatings, fastener protection, gear boxes with pressure equalizing devices, protected drive stems and customized ROV couplings are all components of design considered for PBV® ball valves being used in subsea service.

Double Isolation and Bleed Valves

PBV provides a single valve with two seating surfaces, each of which in the closed position, provides a seal against pressure from a single source, with a means of venting / bleeding the cavity between the seating surfaces.

Note: this feature can be provided in one direction or in both directions.

DIB Valve variants:

DIB- 1: Double Isolation and Bleed valves with two bidirectional seats (two-way double acting seats), with independent cavity relief valve. API requires that valves with two bidirectional seats shall be provided with automatic cavity pressure relief unless otherwise agreed. Note: Typically liquid service valves with two bidirectional seats require cavity relief valve.

DIB-1N: Double Isolation and Bleed valves with two bidirectional seats (two-way double acting seat), without cavity relief valve. Note: Typically gas service valves with two bidirectional seats DO NOT require cavity relief valve.

DIB-2N: Double Isolation and Bleed valves with one unidirectional seat and one bidirectional seat (two-way double acting seat), without cavity relief valve.

Two-Way Double Acting

To meet customers requirements, often times a two-way seat design is required. This design allows for downstream seat sealing in the case of an upstream seat failing to seal. This design also provides for the function of testing a valve in-line and in full open position with the drain or bleed valve open to the air.

Fully Welded Body Design

Fully welded three-piece body designs are available in larger sizes.

Special Under Water Gas Testing

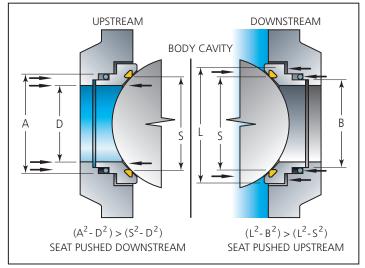
Valves can be air or gas tested under water in a special chamber.



CMM evaluation of components are performed by PBV^{\otimes} 's Engineering and Testing Facility in Stafford, Texas.



Pressure Testing Stations and Qualified Personnel are utilized to provide consistent compliance to industry test criteria for every valve.





Design Standards and Specifications

Valve designs covered in this catalog conform to the following industry standards and specifications.

American Petroleum Institute

API 6D • Specifications for pipeline valves

API 607 • Fire test for soft-seated ball valves (Div. of Refining)

API 6FA • Fire test for valves (Div. of Production

API Q1 • Specifications for quality programs

API 6A • Specifications for Wellhead and Christmas Tree Equipment

Manufacturers Standardization Society

MSS SP-25 • Standard marking system for valves

National Association of Corrosion Engineers

NACE MR0175 • Sulfide stress cracking resistant metallic materials for oilfield equipment

NACE MR0103 • Metallic Materials Resistant to Sulfide Stress Cracking in Corrosive Petroleum Refining Environments

American National Standard

ASME/ANSI B 16.10 • Face-to-face and end-to-end dimensions on ferrous valves

ASME/ANSI B 16.5 • Steel pipe flanges and flanged fittings

ASME/ANSI B 31.1 • Power Piping

ASME B 16.47 • Large Diameter Steel Flanges

ASME B 31.3 • Process Piping

ASME B 31.4 • Pipeline transportation systems for liquid

ASME B 31.8 • Gas transmission and distribution piping systems

Canadian Standards

CSA Z245.15 • Steel Valves

Code of Federal Regulations

Title 49 -Part 192 • Transportation of natural and other gas by pipeline: Minimum federal safety standards

European Community

Pressure Equipment Directive 2014/68/EU EN 12516 Shell Design Strength

€ 0038

Flow Coefficients (C_V)

PBV® Series 5700/6700 Trunnion Ball Valves

Cv, by definition, is the volume of water in gallons per minute at 60°F that will flow through a given element with a pressure drop of 1 psi.

Size		Flow Coefficients (C _V) Rating						
(in.)	Cl. 150	Cl. 300	Cl. 600	Cl. 900	Cl. 1500	Cl. 2500		
2 x 2	500	460	400	330	330	300		
3 x 2	180	195	180	187	187	150		
3 x 3	1350	1150	1050	935	830	740		
4 x 3	545	535	550	510	510	410		
4x 4	2500	2200	1850	1760	1660	1460		
6x 4	790	765	745	740	740	590		
6x 6	5300	5290	4460	4405	4100	2600		
8x 6	1945	1945	2220	2035	1930	1400		
8x 8	10,500	9600	8730	8475	8010	5370		
10 x 8	4050	4040	4065	4050	3860	3050		
10 x 10	17,500	16,750	14,250	14,205	13,310	8630		
12 x 10	6900	7100	7050	7025	6670	5350		
12 x 12	26,300	25,500	22,550	21,430	17,070	12,500		
14 x 12	13,100	13,200	13,350	13,300	12,630	_		
14 x 14	31,850	30,050	28,400	26,800	24,275	_		
16 x 14	14,600	14,580	14,300	14,200	13,490	_		
16 x 16	43,300	41,700	38,150	36,700	33,215	_		
18 x 16	19,750	19,800	20,350	19,750	18,760	_		
18 x 18	57,300	55,370	50,950	48,700	43,400	_		
20 x 18	27,750	28,050	28,300	27,300	20,470	_		
20 x 20	74,500	72,300	65,600	62,500	55,930	_		
24 x 20	27,100	27,130	27,250	26,900	25,500	_		
24 x 24	112,300	109,150	98,150	94,050	84,025			
26 x 24	85,270	82,470	77,630	67,880	53,190	_		

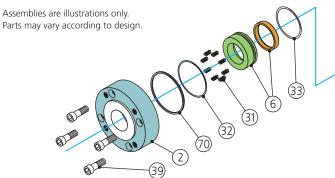
Size				nts (C _V) Ra		
(in.)	Cl. 150	Cl. 300	Cl. 600	Cl. 900	Cl. 1500	Cl. 2500
26 x 26	116,800	111,900	103,750	93,240	71,670	_
28 x 24	62,590	61,470	59,380	53,880	43,750	_
28 x 28	136,850	131,600	122,650	112,200	84,220	_
30 x 24	49,980	49,390	48,030	44,540	37,130	_
30 x 30	161,700	155,650	143,200	131,500	98,390	_
32 x 30	143,600	137,400	128,600	116,950	90,690	_
32 x 32	182,650	173,300	160,450	151,250	113,800	_
34 x 30	109,950	107,050	101,950	94,300	76,200	_
34 x 34	207,800	197,800	181,550	172,950	129,550	_
36 x 30	90,830	88,660	85,210	78,690	65,010	_
36 x 32	127,750	123,350	116,650	112,150	88,850	_
36 x 36	233,600	219,450	199,800	197,600	145,950	_
40 x 36	160,850	160,850	157,250	148,650	_	_
40 x 40	282,300	282,300	271,550	248,400	_	_
42 x 40	265,250	265,250	253,450	232,050	_	_
42 x 42	312,350	312,350	297,100	275,550	_	_
44 x 40	218,100	218,100	209,800	196,700	_	_
44 x 44	351,600	351,600	331,000	306,400	_	_
46 x 46	379,700	379,700	358,450	352,400	_	_
48 x 42	201,050	201,050	196,400	187,150	_	_
48 x 44	275,950	275,950	266,850	248,200		_
48 x 48	412,500	412,500	393,150	373,200	_	_
56 x 56	605,150	605,150	587,750	_	_	_

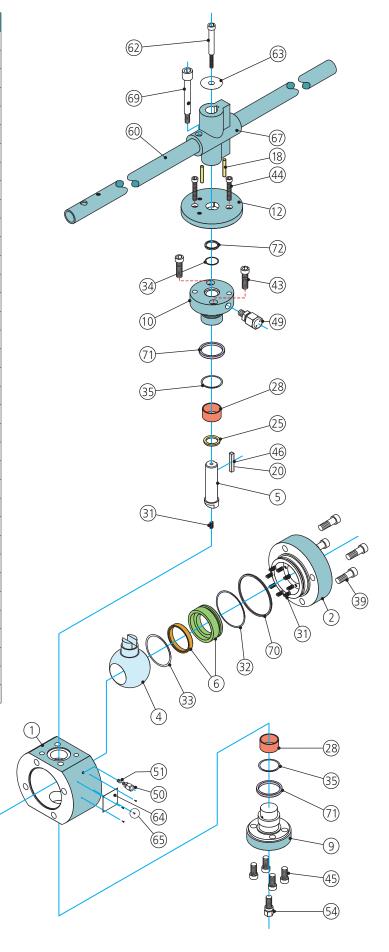
Parts for Low Pressure Small Size Diameter Valves

Series 6700 • 2"-4", Class 150 • 2", Class 300

1 Body A105/A350 LF2 2 Closure A105/A350 LF2 4 Ball 316SS 5 Stem 316SS 6 Seat Ring Sub Assembly 316SS - G/PTFE S 9 Trunnion 4130 ENP 10 Gland 4130 ENP 12 Adapter Plate A36 18 Gland Pin Carbon Steel 20 Stem Key DU Dry Bearing 25 Stem Thrust Washer Graphite S 28 DU Bearing DU Dry Bearing 31 Seat/Stem Spring X-750 32 Body O-ring Viton® or HNBR S 33 Seat O-ring Viton® or HNBR S 34 Stem O-ring Viton® or HNBR S 35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M <th>No.</th> <th>Description</th> <th>Material</th> <th>Spares</th>	No.	Description	Material	Spares
4 Ball 316SS 5 Stem 316SS 6 Seat Ring Sub Assembly 316SS – G/PTFE S 9 Trunnion 4130 ENP 10 Gland 4130 ENP 12 Adapter Plate A36 18 Gland Pin Carbon Steel 20 Stem Key DU Dry Bearing 25 Stem Thrust Washer Graphite S 28 DU Bearing DU Dry Bearing 31 Seat/Stem Spring X-750 32 Body O-ring Viton® or HNBR S 33 Seat O-ring Viton® or HNBR S 34 Stem O-ring Viton® or HNBR S 35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw Carbon Steel 49 Stem Key Cap Screw C	1	Body	A105/A350 LF2	
5 Stem 316SS 6 Seat Ring Sub Assembly 316SS-G/PTFE S 9 Trunnion 4130 ENP 10 Gland 4130 ENP 11 Adapter Plate A36 18 Gland Pin Carbon Steel 20 Stem Key DU Dry Bearing 25 Stem Thrust Washer Graphite S 28 DU Bearing DU Dry Bearing 31 Seat/Stem Spring X-750 32 Body O-ring Viton® or HNBR S 33 Seat O-ring Viton® or HNBR S 34 Stem O-ring Viton® or HNBR S 35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw A193 B7M 46 Stem Key Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 65 Drive Screw Stainless Steel 66 Handle Carbon Steel 67 Handle Adapter Carbon Steel 68 Retainer Washer Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S	2	Closure	A105/A350 LF2	
6 Seat Ring Sub Assembly 316SS-G/PTFE S 9 Trunnion 4130 ENP 10 Gland 4130 ENP 11 Adapter Plate A36 18 Gland Pin Carbon Steel 20 Stem Key DU Dry Bearing 25 Stem Thrust Washer Graphite S 28 DU Bearing DU Dry Bearing 31 Seat/Stem Spring X-750 32 Body O-ring Viton® or HNBR S 33 Seat O-ring Viton® or HNBR S 34 Stem O-ring Viton® or HNBR S 35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 61 Retainer Washer Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Carbon Steel 66 Lock Screw Carbon Steel 67 Handle Adapter Carbon Steel 68 Carbon Steel 69 Lock Screw Carbon Steel	4	Ball	316SS	
9 Trunnion 4130 ENP 10 Gland 4130 ENP 11 Gland 4130 ENP 12 Adapter Plate A36 18 Gland Pin Carbon Steel 20 Stem Key DU Dry Bearing 25 Stem Thrust Washer Graphite S 28 DU Bearing DU Dry Bearing 31 Seat/Stem Spring X-750 32 Body O-ring Viton® or HNBR S 33 Seat O-ring Viton® or HNBR S 34 Stem O-ring Viton® or HNBR S 35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw A193 B7M 46 Stem Key Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 61 Retainer Washer Carbon Steel 62 Indicator Screw Stainless Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Carbon Steel 66 Handle Adapter Carbon Steel 67 Handle Adapter Carbon Steel 68 Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S	5	Stem	316SS	
10 Gland 4130 ENP 12 Adapter Plate A36 18 Gland Pin Carbon Steel 20 Stem Key DU Dry Bearing 25 Stem Thrust Washer Graphite S 28 DU Bearing DU Dry Bearing 31 Seat/Stem Spring X-750 32 Body O-ring Viton® or HNBR S 33 Seat O-ring Viton® or HNBR S 34 Stem O-ring Viton® or HNBR S 35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw A193 B7M 46 Stem Key Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 61 Retainer Washer Carbon Steel 62 Indicator Screw Stainless Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Carbon Steel 66 Carbon Steel 67 Handle Adapter Carbon Steel 68 Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S	6	Seat Ring Sub Assembly	316SS-G/PTFE	S
12 Adapter Plate A36 18 Gland Pin Carbon Steel 20 Stem Key DU Dry Bearing 25 Stem Thrust Washer Graphite S 28 DU Bearing DU Dry Bearing 31 Seat/Stem Spring X-750 32 Body O-ring Viton® or HNBR S 33 Seat O-ring Viton® or HNBR S 34 Stem O-ring Viton® or HNBR S 35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw A193 B7M 46 Stem Key Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 61 Retainer Washer Carbon Steel 62 Indicator Screw Stainless Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 66 Handle Adapter Carbon Steel 67 Handle Adapter Carbon Steel 68 Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S	9	Trunnion	4130 ENP	
Stem Key DU Dry Bearing Stem Thrust Washer Graphite S BU Bearing DU Dry Bearing Seat/Stem Spring Seat/Stem Seat/Stem Spring Seat/Stem Seat/Stem Spring Seat/Stem Seat/Stem Spring Seat/Stem Sprin	10	Gland	4130 ENP	
20 Stem Key DU Dry Bearing 25 Stem Thrust Washer Graphite S 28 DU Bearing DU Dry Bearing 31 Seat/Stem Spring X-750 32 Body O-ring Viton® or HNBR S 33 Seat O-ring Viton® or HNBR S 34 Stem O-ring Viton® or HNBR S 35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw A193 B7M 46 Stem Key Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 61 Retainer Washer Carbon Steel 62 Indicator Screw Stainless Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 66 Handle Adapter Carbon Steel 67 Handle Adapter Carbon Steel 68 Carbon Steel 69 Lock Screw Graphite S	12	Adapter Plate	A36	
25 Stem Thrust Washer Graphite S 28 DU Bearing DU Dry Bearing 31 Seat/Stem Spring X-750 32 Body O-ring Viton® or HNBR S 33 Seat O-ring Viton® or HNBR S 34 Stem O-ring Viton® or HNBR S 35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 61 Indicator Screw Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 66 Handle Adapter Carbon Steel 67 Handle Adapter Carbon Steel 68 Carbon Steel 69 Lock Screw Carbon Steel	18	Gland Pin	Carbon Steel	
28 DU Bearing DU Dry Bearing 31 Seat/Stem Spring X-750 32 Body O-ring Viton® or HNBR S 33 Seat O-ring Viton® or HNBR S 34 Stem O-ring Viton® or HNBR S 35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw Carbon Steel 49 Stem Key Cap Screw Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 61 Retainer Washer Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 66 Handle Adapter Carbon Steel 67 Handle Adapter Carbon Steel 68 Carbon Steel 69 Lock Screw Carbon Steel	20	Stem Key	DU Dry Bearing	
31 Seat/Stem Spring X-750 32 Body O-ring Viton® or HNBR S 33 Seat O-ring Viton® or HNBR S 34 Stem O-ring Viton® or HNBR S 35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw A193 B7M 46 Stem Key Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 51 Check Valve Carbon Steel 60 Handle Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite	25	Stem Thrust Washer	Graphite	S
Body O-ring Viton® or HNBR S 33 Seat O-ring Viton® or HNBR S 34 Stem O-ring Viton® or HNBR S 35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw Carbon Steel 49 Stem Key Cap Screw Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 61 Retainer Washer Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite	28	DU Bearing	DU Dry Bearing	
Seat O-ring Viton® or HNBR S 34 Stem O-ring Viton® or HNBR S 35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw Carbon Steel 49 Stem Key Cap Screw Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 61 Indicator Screw Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite S	31	Seat/Stem Spring	X-750	
34Stem O-ringViton® or HNBRS35Gland & Trunnion O-ringViton® or HNBRS39Body Cap ScrewA193 B7M43Gland Cap ScrewA193 B7M44Adapter Plate Cap ScrewA193 B7M45Trunnion Cap ScrewCarbon Steel49Stem Key Cap ScrewCarbon Steel49Stem Grease FittingCarbon Steel50Body Grease FittingCarbon Steel51Check ValveStainless Steel54Drain ValveCarbon Steel60HandleCarbon Steel62Indicator ScrewCarbon Steel63Retainer WasherCarbon Steel64Name PlateStainless Steel65Drive ScrewStainless Steel67Handle AdapterCarbon Steel69Lock ScrewCarbon Steel70Body GasketGraphiteS71Gland & Trunnion GasketGraphiteS	32	Body O-ring	Viton® or HNBR	S
35 Gland & Trunnion O-ring Viton® or HNBR S 39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw A193 B7M 46 Stem Key Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite S	33	Seat O-ring	Viton® or HNBR	S
39 Body Cap Screw A193 B7M 43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw A193 B7M 46 Stem Key Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite	34	Stem O-ring	Viton® or HNBR	S
43 Gland Cap Screw A193 B7M 44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw A193 B7M 46 Stem Key Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite S	35	Gland & Trunnion O-ring	Viton® or HNBR	S
44 Adapter Plate Cap Screw A193 B7M 45 Trunnion Cap Screw A193 B7M 46 Stem Key Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite	39	Body Cap Screw	A193 B7M	
45 Trunnion Cap Screw A193 B7M 46 Stem Key Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite	43	Gland Cap Screw	A193 B7M	
46 Stem Key Cap Screw Carbon Steel 49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite	44	Adapter Plate Cap Screw	A193 B7M	
49 Stem Grease Fitting Carbon Steel 50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite	45	Trunnion Cap Screw	A193 B7M	
50 Body Grease Fitting Carbon Steel 51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite	46	Stem Key Cap Screw	Carbon Steel	
51 Check Valve Stainless Steel 54 Drain Valve Carbon Steel 60 Handle Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite S	49	Stem Grease Fitting	Carbon Steel	
54Drain ValveCarbon Steel60HandleCarbon Steel62Indicator ScrewCarbon Steel63Retainer WasherCarbon Steel64Name PlateStainless Steel65Drive ScrewStainless Steel67Handle AdapterCarbon Steel69Lock ScrewCarbon Steel70Body GasketGraphiteS71Gland & Trunnion GasketGraphiteS	50	Body Grease Fitting	Carbon Steel	
60 Handle Carbon Steel 62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite S	51	Check Valve	Stainless Steel	
62 Indicator Screw Carbon Steel 63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite S	54	Drain Valve	Carbon Steel	
63 Retainer Washer Carbon Steel 64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite S	60	Handle	Carbon Steel	
64 Name Plate Stainless Steel 65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite S	62	Indicator Screw	Carbon Steel	
65 Drive Screw Stainless Steel 67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite S	63	Retainer Washer	Carbon Steel	
67 Handle Adapter Carbon Steel 69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite S	64	Name Plate	Stainless Steel	
69 Lock Screw Carbon Steel 70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite S	65	Drive Screw	Stainless Steel	
70 Body Gasket Graphite S 71 Gland & Trunnion Gasket Graphite S	67	Handle Adapter	Carbon Steel	
71 Gland & Trunnion Gasket Graphite S	69	Lock Screw	Carbon Steel	
· ·	70	Body Gasket	Graphite	S
72 Stem Packing Graphite S	71	Gland & Trunnion Gasket	Graphite	S
Stem rectang	72	Stem Packing	Graphite	S

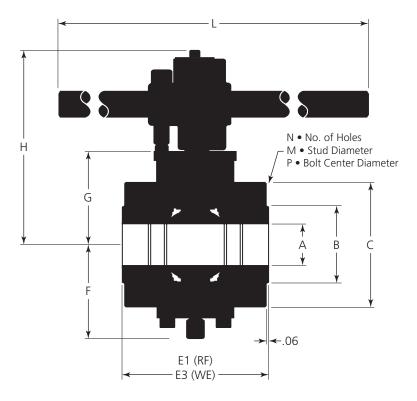
Note: Materials listed are typical for stainless steel trim valves. Stronger materials may be used to satisfy design requirements.





Dimensional Data for Low Pressure Small Size Diameter Valves

Series 6700 • 2"-4", Class 150 • 2", Class 300



Class 150, 2"FP-4"FP

Size (in.)	Α	В	C	D1	E1-RF	E3-WE	F	G	Н	N	М	Р	L
2x2	2.00 x 2.00	3.62	6.00	NA	7.00	8.50	4.89	4.87	9.55	4	⁵ /8 -11 UNC	4.75	30
3x3	3.00 x 3.00	5.00	7.87	NA	8.00	11.12	5.87	5.94	10.92	4	5/8 -11 UNC	6.00	30
4x4	4.00 x 4.00	6.19	9.49	NA	9.00	12.00	7.30	7.35	12.93	8	⁵ /8 -11 UNC	7.50	48

Class 300, 2"FP

Size (in.)	А	В	С	D1	E1-RF	E3-WE	F	G	Н	N	M	P	L
2x2	2.00 x 2.00	3.62	6.50	NA	8.50	8.50	4.89	4.87	9.55	8	5/8 -11 UNC	5.00	30

Small Bore Valve Design Utilizes Tapped Holes In The End Flanges to Maintain API 6D Face-to-Face Specifications

Small diameter trunnion ball valves often require tapped holes on the end flanges in order to maintain the face-to-face dimensions specified in API 6D. The full bore valves have tapped holes in accordance with API 6D instead of straight holes on both ends. The recommended stud length is listed at right.

As of 2017 2"- 4" are available with through bolted design

As of 2017 2"- 4" are available with through bolted design (see Page 17).

For Reference Only Stud Length to Install Valve

Bore Size	Stud Bolt Size	Quantity/Flange
2-150	⁵ /8-11 UNC X 2.25	4
3-150	5/8-11 UNC X 2.38	4
4-150	5/8-11 UNC X 2.50	8
2-300	⁵ /8-11 UNC X 2.50	8

Parts for Low Pressure Small Size Diameter Valves Through Bolted Series 6700 • 2"-4", Class 150 ,and Class 300

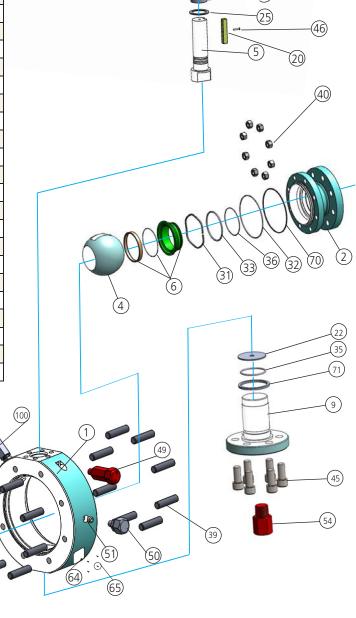
No.	Description	Material	Spares
1	Body	A105 /A350 LF2	
2	Closure	A105 /A350 LF2	
4	Ball	316SS	
5	Stem	316SS	
6	Seat Ring Sub Assembly	316SS - G/PTFE	S
9	Trunnion	4130 ENP	
12	Adapter Plate	A36	
18	Spring Pins	Carbon Steel	
20	Stem Key	Carbon Steel	
22	Ball Thrust Washer	DU Bearing	
25	Stem Thrust Washer	DU Bearing	S
28	DU Bearing	DU Dry Bearing	
31	Seat Spring	X -750	
32	Body O-ring	Viton or HNBR	S
33	Seat O-ring	Viton or HNBR	S
34	Stem O-ring	Viton or HNBR	S
35	Trunnion O-ring	Viton or HNBR	S
36	Emergency Sealant O-ring	Viton or HNBR	S
39	Body Stud	A193 B7M	
40	Body Nut	A194 2HM	
43	Adapter Plate Cap Screw	A193 B7M	
45	Trunnion Cap Screw	A193 B7M	
46	Stem Key Cap Screw	Carbon Steel	
49	Stem Grease Fitting	Carbon Steel	
50	Body Grease Fitting	Carbon Steel	
51	Check Valve	Stainless Steel	
54	Drain Valve	Carbon Steel	
60	Handle	Carbon Steel	
62	Indicator Screw	Carbon Steel	
63	Retainer Washer	Carbon Steel	
64	Name Plate	Stainless Steel	
65	Drive Screw	Stainless Steel	
67	Handle Adapter	Carbon Steel	
69	Lock Screw	Carbon Steel	
70	Body Gasket	Graphite	S
71	Trunnion Gasket	Graphite	S
72	Stem Packing	Graphite	S
73	Stop Plate	Carbon Steel	
100*	Cavity Relief Valve	316	

32 36 33 31

Note: Materials listed are typical for stainless steel trim valves.

Stronger materials may be used to satisfy design requirements.

Assemblies are illustrations only. Parts may vary according to design. *DIB-1 Valves only.

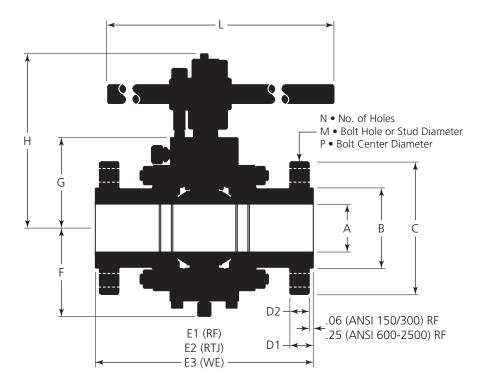


43 69

Parts for High Pressure Small Size Diameter Valves Series 5700/6700 • 2"-4", Class 600, 900, 1500 and 2500

Dimensional Data for High Pressure Small Size Diameter Valves

Series 5700/6700 • 6"RP, Class 150 • 3"RP-6"RP, Class 300 • 2"FP-6"RP, Class 600



Class 150, 6"RP

Size (in.)	Α	В	C	D1	E1-RF	E2-RTJ	E3-WE	F	G	Н	N	M	Р	L
6x4	6.00 x 4.00	8.50	11.00	1.00	15.50	16.00	18.00	7.30	7.35	12.93	8	0.88	9.50	48

Class 300, 3"RP-6"RP

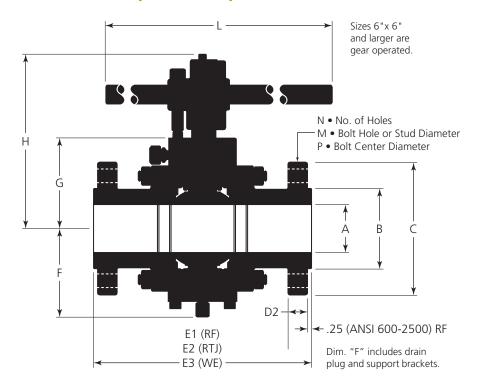
Size (in.)	Α	В	С	D1	E1-RF	E2-RTJ	E3-WE	F	G	Н	N	M	Р	L
3 x 2	3.00 x 2.00	5.00	8.25	1.12	11.12	11.75	11.12	4.89	4.87	9.55	8	0.88	6.62	30
3x3	3.00 x 3.00	5.00	8.25	1.12	11.12	11.75	11.12	5.87	5.94	10.92	8	3/4-10 UNC	6.62	30
4x3	4.00 x 3.00	6.19	10.00	1.25	12.00	12.62	12.00	5.87	5.94	10.92	8	0.88	7.88	30
4x4	4.00 x 4.00	6.19	10.00	1.25	12.00	12.62	12.00	7.30	7.35	12.93	8	3/4-10 UNC	7.88	48
6x4	6.00 x 4.00	8.50	12.50	1.44	15.88	16.50	18.00	7.30	7.35	12.93	12	0.88	10.62	48

Class 600, 2"FP-6"RP

Size (in.)	А	В	C	D2	E1-RF	E2-RTJ	E3-WE	F	G	Н	N	M	Р	L
2x2	2.00 x 2.00	3.62	6.50	1.00	11.50	11.62	11.50	4.89	4.87	9.55	8	0.75	5.00	30
3x2	3.00 x 2.00	5.00	8.25	1.25	14.00	14.12	14.00	4.89	4.87	9.55	8	0.88	6.62	30
3x3	3.00 x 3.00	5.00	8.25	1.25	14.00	14.12	14.00	5.87	5.94	10.92	8	0.88	6.62	30
4x3	4.00 x 3.00	6.19	10.75	1.50	17.00	17.12	17.00	5.87	5.94	10.92	8	1.00	8.50	30
4x4	4.00 x 4.00	6.19	10.75	1.50	17.00	17.12	17.00	7.30	7.35	12.93	8	1.00	8.50	48
6x4	6.00 x 4.00	8.50	14.00	1.88	22.00	22.12	22.00	7.30	7.35	12.93	12	1.12	11.50	48

Dimensional Data for High Pressure Small Size Diameter Valves

Series 5700/6700 • 2"FP-6"RP, Class 900, 1500 and 2500



Class 900, 2"FP-6"RP

Size (in.)	Α	В	C	D2	E1-RF	E2-RTJ	E3-WE	F	G	Н	N	M	Р	L
2x2	2.00 x 2.00	3.62	8.50	1.50	14.50	14.62	14.50	4.89	4.87	9.55	8	1.00	6.50	30
3 x 2	3.00 x 2.00	5.00	9.50	1.50	15.00	15.12	15.00	4.89	4.87	9.55	8	1.00	7.50	30
3x3	3.00 x 3.00	5.00	9.50	1.50	15.00	15.12	15.00	5.87	5.94	10.92	8	1.00	7.50	30
4x3	4.00 x 3.00	6.19	11.50	1.75	18.00	18.12	18.00	5.87	5.94	10.92	8	1.25	9.25	30
4x4	4.00 x 4.00	6.19	11.50	1.75	18.00	18.12	18.00	7.30	7.35	12.93	8	1.25	9.25	48
6x4	6.00 x 4.00	8.50	15.00	2.19	24.00	24.12	24.00	7.30	7.35	12.93	12	1.25	12.50	48

Class 1500, 2"FP-6"RP

Size (in.)	A	В	C	D2	E1-RF	E2-RTJ	E3-WE	F	G	Н	N	M	Р	L
2x2	2.00 x 2.00	3.62	8.50	1.50	14.50	14.62	14.50	5.32	5.47	10.30	8	1.00	6.50	30
3 x 2	3.00 x 2.00	5.00	10.50	1.88	18.50	18.62	18.50	5.32	5.47	10.30	8	1.25	8.00	30
3x3	3.00 x 3.00	5.00	10.50	1.88	18.50	18.62	18.50	6.89	6.42	11.60	8	1.25	8.00	30
4x3	4.00 x 3.00	6.19	12.25	2.12	21.50	21.62	21.50	6.89	6.42	11.60	8	1.38	9.50	30
4x4	4.00 x 4.00	6.19	12.25	2.12	21.50	21.62	21.50	8.14	7.88	13.75	8	1.38	9.50	48
6x4	5.75 x 4.00	8.50	15.50	3.25	27.75	28.00	27.75	8.14	7.88	13.75	12	1.50	12.50	48

Class 2500, 2"FP-6"RP

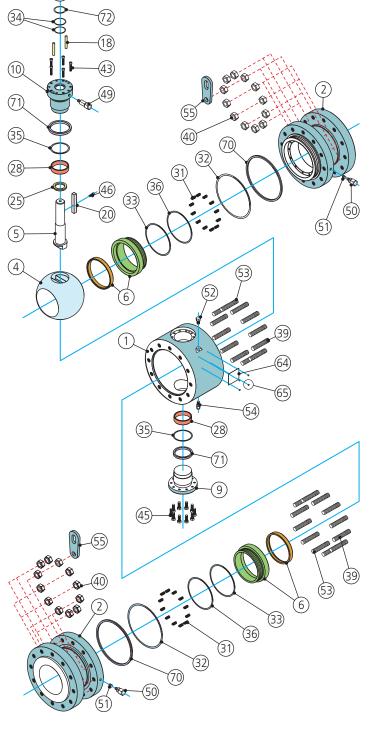
Size (in.)	Α	В	C	D2	E1-RF	E2-RTJ	E3-WE	F	G	Н	N	M	Р	L
2x2	1.75 x 1.75	3.62	9.25	2.00	17.75	17.87	17.75	6.39	7.25	13.19	8	1.12	6.75	30
3 x 2	2.50 x 1.75	5.00	12.00	2.62	22.75	23.00	22.75	6.39	7.25	13.19	8	1.38	9.00	30
3x3	2.50 x 2.50	5.00	12.00	2.62	22.75	23.00	22.75	8.20	8.42	14.68	8	1.38	9.00	30
4x3	3.50 x 2.50	6.19	14.00	3.00	26.50	26.88	26.50	8.20	8.42	14.68	8	1.63	10.75	30
4x4	3.50 x 3.50	6.19	14.00	3.00	26.50	26.88	26.50	9.43	10.56	16.93	8	1.63	10.75	48
6x4	5.25 x 3.50	8.50	19.00	4.25	36.00	36.50	36.00	9.43	10.56	16.93	8	2.12	14.50	48

Parts for Mid Size Diameter Valves

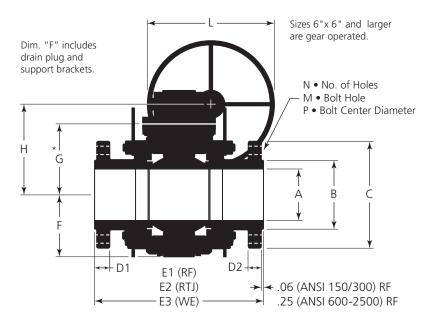
Series 5700 • 8"-14"RP, Class 150, 300, 600, 900 and 1500 • 6"-12"RP, Class 2500 Series 6700 • 6"-12"FP, Class 150, 300, 600, 900 and 1500 • 6"-10"FP, Class 2500

Me	Description	Matarial	Charac
No.	Description	Material A105/A350 LF2	Spares
1	Body		
2	Closure/Flanged End	A105/A350 LF2	
4	Ball	A105/A350 LF2 ENP	
5	Stem	4130 ENP	
6	Seat Ring Sub Assembly	A105/A350 LF2 ENP G/PTFE or Nylon	S
9	Trunnion	4130 ENP	
10	Gland	4130 ENP	
11	Bushing	Carbon Steel	
12	Adapter Plate	A36	
18	Gland Pin	Carbon Steel	
20	Stem Key	Carbon Steel	
25	Stem Thrust Washer	Graphite	S
28	DU Bearing	DU Dry Bearing	
31	Seat Spring	X-750	
32	Body O-ring	Viton® or HNBR	S
33	Seat O-ring	Viton® or HNBR	S
34	Stem O-ring	Viton® or HNBR	S
35	Gland & Trunnion O-ring	Viton® or HNBR	S
36	Emergency Sealant O-ring	Viton® or HNBR	S
39	Body Stud	A193 B7M	
40	Body Nut	A194 2HM	
43	Gland Cap Screw	A193 B7M	
44	Adapter Plate Cap Screw	A193 B7M	
45	Trunnion Cap Screw	A193 B7M	
46	Stem Key Cap Screw	Carbon Steel	
47	Gear Stud	A193 B7	
48	Gear/Adapter Plate Nut	A194 2H	
49	Stem Grease Fitting	Carbon Steel	
50	Seat Grease Fitting	Carbon Steel	
51	Check Valve	Stainless Steel	
52	Vent Plug	Carbon Steel	
53	Lifting Lug Stud	A193 B7M	
54	Drain Valve	Carbon Steel	
55	Lifting Lug	Carbon Steel	
57	Worm Gear Operator	Commercial	
60	Handwheel	Carbon Steel	
64	Name Plate	Stainless Steel	
65	Drive Screw	Stainless Steel	
70	Body Gasket	Graphite	S
71	Gland & Trunnion Gasket	Graphite	S
72	Stem Packing	Graphite	S
100*	Cavity Relief Valve	316	

Note: Sizes 6" and 8" may be supplied with locking levers. Sizes 10" and 12" are supplied with support feet, not shown. Materials listed are typical for carbon steel valves. Ball, stem & seat rings will be 316, 17-4PH, or XM-19 for stainless steel trim depending on design requirements.
*DIB-1 Valves Only (Not shown in picture)



Series 5700/6700 • 6"FP-14"RP, Class 150, 300 and 600



Class 150, 6"FP-14"RP

Size (in.)	А	В	C	D1	E1-RF	E2-RTJ	E3-WE	F*	G	Н	N	М	Р	L
6x6	6.00 x 6.00	8.50	11.00	1.00	15.50	16.00	18.00	7.25	8.48	10.63	8	0.88	9.50	24
8x6	8.00 x 6.00	10.62	13.50	1.12	18.00	18.50	20.50	7.25	8.48	10.63	8	0.88	11.75	24
8x8	8.00 x 8.00	10.62	13.50	1.12	18.00	18.50	20.50	8.72	10.13	12.26	8	0.88	11.75	24
10x8	10.00 x 8.00	12.75	16.00	1.19	21.00	21.50	22.00	8.72	10.13	12.26	12	1.00	14.25	24
10 x 10	10.00 x 10.00	12.75	16.00	1.19	21.00	21.50	22.00	10.56	11.96	14.09	12	1.00	14.25	24
12 x 10	12.00 x 10.00	15.00	19.00	1.25	24.00	24.50	25.00	10.56	11.96	14.09	12	1.00	17.00	24
12 x 12	12.00 x 12.00	15.00	19.00	1.25	24.00	24.50	25.00	12.26	13.75	15.88	12	1.00	17.00	24
14 x 12	13.25 x 12.00	16.25	21.00	1.38	27.00	27.50	30.00	12.26	13.75	15.88	12	1.12	18.75	24

Class 300, 6"FP-14"RP

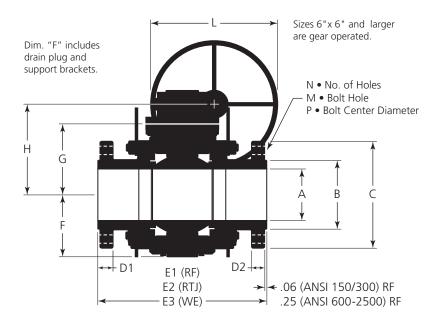
Size (in.)	Α	В	С	D1	E1-RF	E2-RTJ	E3-WE	F*	G	Н	N	M	Р	L
6x6	6.00 x 6.00	8.50	12.50	1.44	15.88	16.50	18.00	7.25	8.48	10.63	12	0.88	10.62	24
8x6	8.00 x 6.00	10.62	15.00	1.62	19.75	20.38	20.50	7.25	8.48	10.63	12	1.00	13.00	24
8x8	8.00 x 8.00	10.62	15.00	1.62	19.75	20.38	20.50	8.72	10.13	12.26	12	1.00	13.00	24
10x8	10.00 x 8.00	12.75	17.50	1.88	22.38	23.00	22.00	8.72	10.13	12.26	16	1.12	15.25	24
10 x 10	10.00 x 10.00	12.75	17.50	1.88	22.38	23.00	22.00	10.56	11.96	14.09	16	1.12	15.25	24
12 x 10	12.00 x 10.00	15.00	20.50	2.00	25.50	26.12	25.00	10.56	11.96	14.09	16	1.25	17.75	24
12 x 12	12.00 x 12.00	15.00	20.50	2.00	25.50	26.12	25.00	12.26	13.75	15.88	16	1.25	17.75	24
14 x 12	13.25 x 12.00	16.25	23.00	2.12	30.00	30.62	30.00	12.26	13.75	15.88	20	1.25	20.25	30

Class 600, 6"FP-14"RP

Size (in.)	Α	В	С	D1	E1-RF	E2-RTJ	E3-WE	F*	G	Н	N	M	Р	L
6x6	6.00 x 6.00	8.50	14.00	1.88	22.00	22.12	22.00	7.25	8.48	10.63	12	1.12	11.50	24
8x6	8.00 x 6.00	10.62	16.50	2.19	26.00	26.12	26.00	7.25	8.48	10.63	12	1.25	13.75	24
8x8	8.00 x 8.00	10.62	16.50	2.19	26.00	26.12	26.00	11.25	11.57	13.70	12	1.25	13.75	24
10x8	10.00 x 8.00	12.75	20.00	2.50	31.00	31.12	31.00	11.25	11.57	13.70	16	1.38	17.00	24
10 x 10	10.00 x 10.00	12.75	20.00	2.50	31.00	31.12	31.00	12.76	13.32	15.45	16	1.38	17.00	24
12 x 10	12.00 x 12.00	15.00	22.00	2.62	33.00	33.12	33.00	12.76	13.32	15.45	20	1.38	19.25	24
12 x 12	12.00 x 12.00	15.00	22.00	2.62	33.00	33.12	33.00	13.86	14.94	21.52	20	1.38	19.25	30
14x12	13.25 x 12.00	16.25	23.75	2.75	35.00	35.12	35.00	13.86	14.94	21.52	20	1.50	20.75	30

^{*} Legs are for shipping purpose only. Dimensions are subject to change without notice.

Series 5700/6700 • 6"FP-14"RP, Class 900 and 1500



Class 900, 6"FP-14"RP

Size (in.)	Α	В	C	D2	E1-RF	E2-RTJ	E3-WE	F*	G	Н	N	М	Р	L
6x6	6.00 x 6.00	8.50	15.00	2.19	24.00	24.12	24.00	8.62	10.01	12.14	12	1.25	12.50	24
8x6	8.00 x 6.00	10.62	18.50	2.50	29.00	29.12	29.00	8.62	10.01	12.14	12	1.50	15.50	24
8x8	8.00 x 8.00	10.62	18.50	2.50	29.00	29.12	29.00	10.00	11.57	13.70	12	1.50	15.50	24
10x8	10.00 x 8.00	12.75	21.50	2.75	33.00	33.12	33.00	10.00	11.57	13.70	16	1.50	18.50	24
10 x 10	10.00 x 10.00	12.75	21.50	2.75	33.00	33.12	33.00	11.74	13.32	19.90	16	1.50	18.50	30
12 x 10	12.00 x 12.00	15.00	24.00	3.12	38.00	38.12	38.00	11.74	13.32	19.90	20	1.50	21.00	30
12 x 12	12.00 x 12.00	15.00	24.00	3.12	38.00	38.12	38.00	13.86	15.46	21.52	20	1.50	21.00	30
14 x 12	12.75 x12.00	16.25	25.25	3.38	40.50	40.88	40.50	13.86	15.46	21.52	20	1.62	22.00	30

Class 1500, 6"FP-14"RP

Size (in.)	A	В	C	D2	E1-RF	E2-RTJ	E3-WE	F*	G	Н	N	M	Р	L
6x6	5.75 x 5.75	8.50	15.50	3.25	27.75	28.00	27.75	9.72	10.67	12.80	12	1.50	12.50	24
8x6	7.63 x 5.75	10.62	19.00	3.62	32.75	33.13	32.75	9.72	10.67	12.80	12	1.75	15.50	24
8x8	7.63 x 7.63	10.62	19.00	3.62	32.75	33.13	32.75	12.16	12.88	19.46	12	1.75	15.50	30
10x8	9.50 x 7.63	12.75	23.00	4.25	39.00	39.38	39.00	12.16	12.88	19.46	12	2.00	19.00	30
10x10	9.50 x 9.50	12.75	23.00	4.25	39.00	39.38	39.00	14.40	15.48	22.06	12	2.00	19.00	30
12 x 10	11.38 x 9.50	15.00	26.50	4.88	44.50	45.12	44.50	14.40	15.48	22.06	16	2.12	22.50	30
12 x 12	11.38 x 11.38	15.00	26.50	4.88	44.50	45.12	44.50	16.98	17.83	24.41	16	2.12	22.50	30
14 x 12	12.50 x 11.38	16.25	29.50	5.25	49.50	50.25	49.50	16.98	17.83	24.41	16	2.38	25.00	30

Class 2500, 6"FP-12"RP

Size (in.)	А	В	C	D2	E1-RF	E2-RTJ	E3-WE	F*	G	Н	N	M	P	L
6x6	5.25 x 5.25	8.50	19.00	4.25	36.00	36.50	36.00	12.74	12.70	19.28	8	2.12	14.50	30
8x6	7.14 x 5.25	10.62	21.75	5.00	40.25	40.87	40.25	12.74	12.70	19.28	12	2.12	17.25	30
8x8	7.14×7.14	10.62	21.75	5.00	40.25	40.87	40.25	15.22	16.63	18.76	12	2.12	17.25	30
10x8	8.88 x 7.14	12.75	26.50	6.50	50.00	50.88	50.00	15.22	16.63	18.76	12	2.62	21.25	30
10 x 10	8.88 x 8.88	12.75	26.50	6.50	50.00	50.88	50.00	19.73	18.25	24.83	12	2.62	21.25	30
12 x 10	10.50 x 8.88	15.00	30.00	7.25	56.00	56.88	56.00	19.73	18.25	24.83	12	2.88	24.38	30
12 x 12	10.50 x 10.50	15.00	30.00	7.25	56.00	56.88	56.00	22.06	20.79	27.69	12	2.88	24.38	30

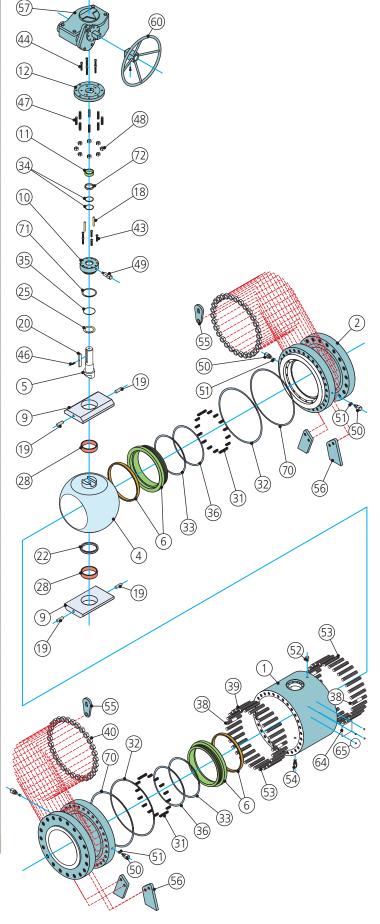
 $^{\ ^{\}star}$ Legs are for shipping purpose only. Dimensions are subject to change without notice.

Parts for Large Size Diameter Valves

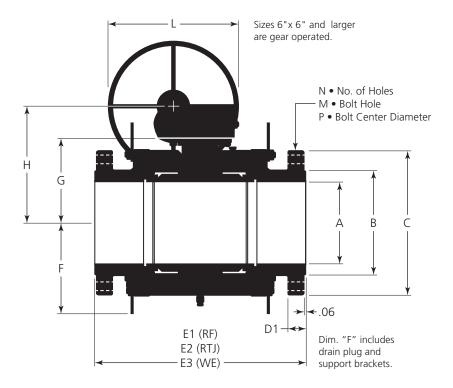
Series 5700/6700 • 14"FP-56"FP, Class 150, 300, 600, 900 and 1500 • 12", Class 2500

No.	Description	Material	Spares
1	Body	A105/A350 LF2	D pa D
2	Closure/Flanged End	A105/A350 LF2	
4	Ball	A105/A350 LF2 ENP	
5	Stem	4130 ENP	
6	Seat Ring Sub Assembly	A105/A350 LF2 ENP G/PTFE or Nylon	S
		,	
9	Bearing Retainer	Carbon Steel	
10	Gland	4130 ENP	
11	Bushing	Carbon Steel	
12	Adapter Plate	A36	
18	Gland Pin	Carbon Steel	
20	Stem Key	Carbon Steel	
22	Ball Thrust Washer	Phenolic	S
25	Stem Thrust Washer	Phenolic	S
28	DU Bearing	DU Dry Bearing	
31	Seat Spring	X-750	
32	Body O-ring	Viton® or HNBR	S
33	Seat O-ring	Viton® or HNBR	S
34	Stem O-ring	Viton® or HNBR	S
35	Gland O-ring	Viton® or HNBR	S
36	Emergency Sealant O-ring	Viton® or HNBR	S
38	Location Stud	A193 B7M	
39	Body Stud	A193 B7M	
40	Body Nut	A194 2HM	
43	Gland Cap Screw	A193 B7M	
44	Adapter Plate Cap Screw	A193 B7M	
46	Stem Key Cap Screw	Carbon Steel	
47	Gear Stud	A193 B7	
48	Gear/Adapter Plate Nut	A194 2H	
49	Stem Grease Fitting	Carbon Steel	
50	Seat Grease Fitting	Carbon Steel	
51	Check Valve	Stainless Steel	
52	Vent Plug	Carbon Steel	
53	Lifting Lug Stud	A193 B7M	
54	Drain Valve	Carbon Steel	
55	Lifting Lug	Carbon Steel	
56	Support Leg	Carbon Steel	
57	Worm Gear Operator	Commercial	
60	Handwheel	Carbon Steel	
64	Name Plate	Stainless Steel	
65	Drive Screw	Stainless Steel	
70	Body Gasket	Graphite	S
71	Gland & Trunnion Gasket	Graphite	S
72	Stem Packing	Graphite	S
100*	Cavity Relief Valve	316	J
100	Cavity Neller Valve	310	

Note: Materials listed are typical for carbon steel valves. Ball, stem & seat rings will be 316, 17-4PH, or XM-19 or stainless steel trim depending on design requirements. *DIB-1 Valves Only (not shown in picture)



Series 5700/6700 • 14"FP-56"FP, Class 150



Class 150, 14"FP-56"FP

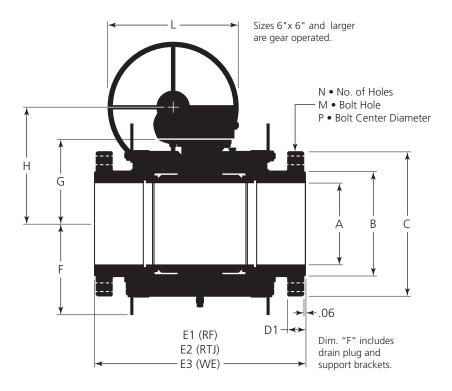
Size (in.)	A	В	C	D1	E1-RF	E2-RTJ	E3-WE	F***	G	Н	N	M	Р	L
14 x 14	13.25 x 13.25	16.25	21.00	1.38	27.00	27.50	30.00	14.92	15.18**	20.89	12	1.12	18.75	30
16 x 14	15.25 x 13.25	18.50	23.50	1.44	30.00	30.50	33.00	14.92	15.18**	20.89	16	1.12	21.25	30
16x16	15.25 x 15.25	18.50	23.50	1.44	30.00	30.50	33.00	16.60	15.89	22.47	16	1.12	21.25	30
18x16	17.25 x 15.25	21.00	25.00	1.56	34.00	34.50	36.00	16.60	15.89	22.47	16	1.25	22.75	30
18 x 18	17.25 x 17.25	21.00	25.00	1.56	34.00	34.50	36.00	21.05	19.76	26.34	16	1.25	22.75	30
20 x 18	19.25 x 17.25	23.00	27.50	1.69	36.00	36.50	39.00	21.05	19.76	26.34	20	1.25	25.00	30
20 x 20	19.25 x 19.25	23.00	27.50	1.69	36.00	36.50	39.00	19.67	20.20	26.78	20	1.25	25.00	30
24 x 20	23.25 x 19.25	27.25	32.00	1.88	42.00	42.50	45.00	22.75	20.20	26.78	20	1.38	29.50	30
24 x 24	23.25 x 23.25	27.25	32.00	1.88	42.00	42.50	45.00	22.75	23.34	30.24	20	1.38	29.50	30
30 x 30	29.00 x 29.00	33.75	38.75	2.88	51.00	*	55.00	31.25	32.08	38.98	28	1.38	36.00	30
36 x 36	34.50 x 34.50	40.25	46.00	3.50	60.00	*	68.00	34.39	35.83	42.73	32	1.62	42.75	30
40 x 40	38.50 x 38.50	44.25	50.75	3.50	72.83	*	70.08	36.54	37.13	*	*	*	*	*
44 x 44	42.32 x 42.32	49.00	55.25	3.94	76.77	*	74.80	39.76	40.39	*	*	*	*	*
48 x 48	45.98 x 45.98	53.50	59.50	4.19	85.83	*	82.68	41.77	43.19	*	*	*	*	*
56 x 56	53.62 x 53.62	62.00	68.75	4.82	90.55	*	88.58	48.50	49.92	*	*	*	*	*

^{*}Contact your PBV® salesperson for additional sizes and materials.

^{**}Change introduced 2004.

^{***} Legs are for shipping purpose only. Dimensions are subject to change without notice.

Series 5700/6700 • 14"FP-56"FP, Class 300

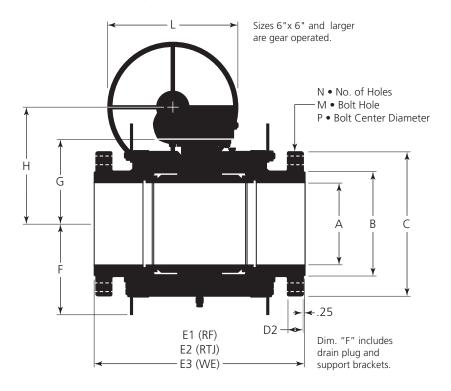


Class 300, 14"FP-56"FP

Size (in.)	А	В	C	D1	E1-RF	E2-RTJ	E3-WE	F**	G	Н	N	M	Р	L
14×14	13.25 x 13.25	16.25	23.00	2.12	30.00	30.62	30.00	14.92	14.31	20.89	20	1.25	20.25	30
16x14	15.25 x 13.25	18.50	25.50	2.25	33.00	33.62	33.00	14.92	14.31	20.89	20	1.38	22.50	30
16x16	15.25 x 15.25	18.50	25.50	2.25	33.00	33.62	33.00	16.60	15.89	22.47	20	1.38	22.50	30
18 x 16	17.25 x 15.25	21.00	28.00	2.38	36.00	36.62	36.00	16.60	15.89	22.47	24	1.38	24.75	30
18 x 18	17.25 x 17.25	21.00	28.00	2.38	36.00	36.62	36.00	21.05	19.76	26.34	24	1.38	24.75	30
20 x 18	19.25 x 17.25	23.00	30.50	2.50	39.00	39.75	39.00	21.05	19.76	26.34	24	1.38	27.00	30
20 x 20	19.25 x 19.25	23.00	30.50	2.50	39.00	39.75	39.00	19.67	20.20	26.78	24	1.38	27.00	30
24 x 20	23.25 x 19.25	27.25	36.00	2.75	45.00	45.88	45.00	19.67	20.20	26.78	24	1.62	32.00	30
24 x 24	23.25 x 23.25	27.25	36.00	2.75	45.00	45.88	45.00	22.75	23.34	30.24	24	1.62	32.00	30
30 x 30	29.00 x 29.00	33.75	43.00	3.62	55.00	56.00	55.00	31.25	32.08	38.98	28	1.88	39.25	30
36 x 36	34.50 x 34.50	40.25	50.00	4.12	68.00	69.12	68.00	34.39	35.83	42.73	32	2.12	46.00	30
40 x 40	38.50 x 38.50	42.75	48.75	4.44	72.83	*	70.08	36.54	37.13	*	*	*	*	*
44 x 44	42.32 x 42.32	47.00	53.25	4.82	76.77	*	74.80	39.76	40.39	*	*	*	*	*
48 x 48	45.98 x 45.98	51.25	57.75	5.19	85.83	*	82.68	41.77	43.19	*	*	*	*	*
56 x 56	53.62 x 53.62	59.75	67.25	6.00	90.55	*	88.58	48.50	49.92	*	*	*	*	*

^{*}Contact your PBV® salesperson for additional sizes and materials.
** Legs are for shipping purpose only. Dimensions are subject to change without notice.

Series 5700/6700 • 14"FP-56"FP, Class 600



Class 600, 14"FP-56"FP

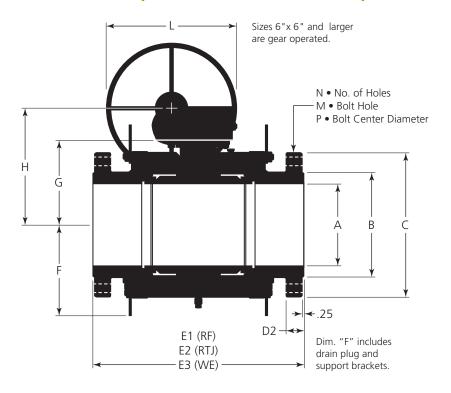
Size (in.)	А	В	C	D2	E1-RF	E2-RTJ	E3-WE	F***	G	Н	N	M	P	L
14 x 14	13.25 x 13.25	16.25	23.75	2.75	35.00	35.12	35.00	14.92	14.31	20.89	20	1.50	20.75	30
16 x 14	15.25 x 13.25	18.50	27.00	3.00	39.00	39.12	39.00	14.92	14.31	20.89	20	1.62	23.75	30
16x16	15.25 x 15.25	18.50	27.00	3.00	39.00	39.12	39.00	16.33	15.89	22.47	20	1.62	23.75	30
18x16	17.25 x 15.25	21.00	29.25	3.25	43.00	43.12	43.00	16.33	15.89	22.47	20	1.75	25.75	30
18 x 18	17.25 x 17.25	21.00	29.25	3.25	43.00	43.12	43.00	21.05	19.76	23.20	20	1.75	25.75	30
20 x 18	19.25 x 17.25	23.00	32.00	3.50	47.00	47.25	47.00	21.05	19.76	23.20	24	1.75	28.50	30
20 x 20	19.25 x 19.25	23.00	32.00	3.50	47.00	47.25	47.00	19.67	20.09	23.53	24	1.75	28.50	30
24 x 20	23.25 x 19.25	27.25	37.00	4.00	55.00	55.38	55.00	19.67	20.09	23.53	24	2.00	33.00	30
24 x 24	23.25 x 23.25	27.25	37.00	4.00	55.00	55.38	55.00	23.13	25.35**	28.79	24	2.00	33.00	30
30 x 30	29.00 x 29.00	33.75	44.50	4.50	65.00	65.50	65.00	31.25	32.08	38.98	28	2.13	40.25	30
36 x 36	34.50 x 34.50	40.25	51.75	4.88	82.00	82.64	82.01	34.39	35.83	42.73	28	2.62	47.00	30
40 x 40	38.50 x 38.50	43.75	52.00	6.25	78.74	*	74.80	37.13	37.60	*	*	*	*	*
44 x 44	42.32 x 42.32	48.25	57.25	6.81	86.61	*	80.71	40.55	41.73	*	*	*	*	*
48 x 48	45.98 x 45.98	52.50	62.75	7.44	94.49	*	85.83	43.50	44.69	*	*	*	*	*
56 x 56	53.62 x 53.62	60.75	73.00	8.56	*	*	93.90	49.37	50.79	*	*	*	*	*

^{*}Contact your PBV® salesperson for additional sizes and materials.

^{**}Change introduced 2007.

^{***} Legs are for shipping purpose only. Dimensions are subject to change without notice.

Series 5700/6700 • 14"FP-48"FP, Class 900 • 14"FP-24"FP, Class 1500



Class 900, 14"FP-48"FP

Size (in.)	А	В	С	D2	E1-RF	E2-RTJ	E3-WE	F**	G	Н	N	M	Р	L
14 x 14	12.75 x 12.75	16.25	25.25	3.38	40.50	40.88	40.50	18.61	16.76	23.34	20	1.62	22.00	30
16x14	14.75 x 12.75	18.50	27.75	3.50	44.50	44.88	44.50	18.61	16.76	23.34	20	1.75	24.25	30
16 x 16	14.75 x 14.75	18.50	27.75	3.50	44.50	44.88	44.50	20.63	18.87	25.77	20	1.75	24.25	30
18 x 16	16.75 x 14.75	21.00	31.00	4.00	48.00	48.50	48.00	20.63	18.87	25.77	20	2.00	27.00	30
18 x 18	16.75 x 16.75	21.00	31.00	4.00	48.00	48.50	48.00	23.39	24.91	31.81	20	2.00	27.00	30
20 x 18	18.63 x 16.75	23.00	33.75	4.25	52.00	52.50	52.00	23.39	24.91	31.81	20	2.12	29.50	30
20 x 20	18.63 x 18.63	23.00	33.75	4.25	52.00	52.50	52.00	24.30	26.18	33.08	20	2.12	29.50	30
24 x 20	22.50 x 18.63	27.25	41.00	5.50	61.00	61.75	61.00	24.30	24.20	28.90	20	2.62	35.50	30
24 x 24	22.50 x 22.50	27.25	41.00	5.50	61.00	61.75	61.00	28.00	27.92	30.90	20	2.62	35.50	30
30 x 30	28.11 x 28.11	33.75	48.50	5.88	74.00	70.16	65.35	30.94	31.42	*	*	*	*	*
36 x 36	33.74 x 33.74	40.25	57.50	6.75	90.00	81.89	74.80	36.38	36.14	*	*	*	*	*
40 x 40	37.56 x 37.56	45.75	59.50	7.75	85.83	*	82.68	39.88	39.65	*	*	*	*	*
44 x 44	41.26 x 41.26	50.00	64.88	8.44	93.70	*	88.58	41.26	45.28	*	*	*	*	*
48 x 48	45.00 x 45.00	54.50	70.25	9.19	96.46	*	93.70	47.64	47.72	*	*	*	*	*

^{*}Contact your PBV® salesperson for additional sizes and materials.

Class 1500, 14"FP-24"FP

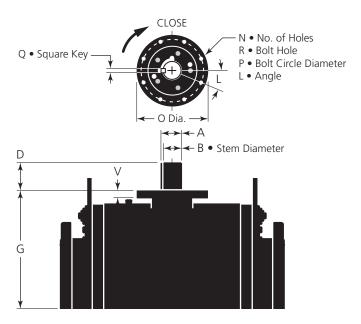
Size (in.)	Α	В	С	D2	E1-RF	E2-RTJ	E3-WE	F**	G	Н	N	M	P	L
14×14	12.50 x 12.50	16.25	29.50	5.25	49.50	50.25	49.50	20.60	18.83	25.73	16	2.38	25.00	30
16x14	14.25 x 12.50	18.50	32.50	5.75	54.50	55.38	54.50	20.60	18.83	25.73	16	2.62	27.75	30
16x16	14.25 x 14.25	18.50	32.50	5.75	54.50	55.38	54.50	22.27	20.50	27.40	16	2.62	27.75	30
18 x 16	16.75 x 14.25	21.00	36.00	6.38	60.50	61.38	60.50	22.27	20.50	27.40	16	2.88	30.50	30
18 x 18	16.75 x 16.75	21.00	36.00	6.38	60.50	61.38	60.50	23.39	24.91	31.81	16	2.88	30.50	30
20 x 18	17.88 x 16.00	23.00	38.75	7.00	65.50	66.38	65.50	23.39	24.96	31.81	16	3.12	32.75	30
20 x 20	18.63 x 18.63	23.00	38.75	7.00	65.50	66.38	65.50	21.70	27.50	28.90	16	3.12	32.75	30
24×20	21.50 x 18.63	27.25	46.00	8.00	80.50	81.63	80.50	21.70	27.50	28.90	16	3.62	39.00	30
24 x 24	21.50 x 21.50	27.25	46.00	8.00	80.50	81.63	80.50	28.00	33.70	30.90	16	3.62	39.00	30

^{*}Contact your PBV® salesperson for additional sizes and materials.
** Legs are for shipping purpose only. Dimensions are subject to change without notice

Top Works Data

Series 5700/6700

Data contained below is based on ball bore size and not end flange bore sizes. All dimensions are given in inches.



Class 150 and 300 (in.)

Size	2	3	4	6	8	10	12	14	16	18	20	24
А	1.11**	1.54	1.74	1.98	2.63	2.63	2.63	3.28	3.28	3.88	3.88	3.88
В	0.98	1.37	1.57	1.77	2.36	2.36	2.36	2.95	2.95	3.54	3.54	3.54
D	1.53	1.83	1.80	3.64**	3.49	3.56	3.51	4.36	4.36	5.30	5.39	5.60
G	4.87**	5.94	7.35	8.48**	10.13	11.96	13.75	14.31	15.89	19.76	20.20	23.34
L	45°	45°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°
N	4	4	4	8	8	8	8	8	8	8	8	8
0	6.90	8.00	8.75	10.00	11.22	11.22	11.22	11.40	11.40	11.40	11.40	16.00
Р	5.50	6.50	7.50	8.86	9.84	9.84	9.84	10.00	10.00	10.00	10.00	14.02
Q	0.32	0.39	0.39	0.50	0.63	0.63	0.63	0.75	0.75	0.88	0.88	0.88
R	0.69	0.81	0.69	0.66	0.65	0.65	0.65	0.69	0.69	0.69	0.69	1.13
V	0.53	0.60	0.53	0.91	1.09	1.09	1.09	0.75	0.75	1.00	1.00	1.00

Size	26	30	36	40	44	48	52	56
А	3.88	6.55	6.55	*	*	*	*	*
В	3.54	5.90	5.90	*	*	*	*	*
D	5.49	8.07	8.20	*	*	*	*	*
G	23.34	29.83	33.20	*	*	*	*	*
L	22.5°	22.5°	22.5°	*	*	*	*	*
N	8.00	8.00	8.00	*	*	*	*	*
0	16.00	20.88	20.88	*	*	*	*	*
Р	14.02	19.02	19.02	*	*	*	*	*
Q	0.88	1.50	1.50	*	*	*	*	*
R	1.13	1.13	1.13	*	*	*	*	*
V	1.00	1.75	1.75	*	*	*	*	*

^{*}Contact your PBV® salesperson for additional sizes and materials.

^{**}Lipseal design may vary.

Top Works Data, Continued

Series 5700/6700

Class 600 (in.)

Size	2	3	4	6	8	10	12	14	16	18	20	24
А	1.11**	1.54	1.74	1.98	2.63	2.63	2.63	3.28	3.28	3.88	3.88	5.27
В	0.98	1.37	1.57	1.76	2.63	2.36	2.36	2.95	2.95	3.54	3.54	4.73
D	1.53	1.83	1.80	3.64**	3.54	3.52	3.59	4.36	4.36	5.30	5.40	5.51
G	4.87**	5.94	7.35	8.48**	11.57	13.32	14.94	14.31	15.89	19.76	20.09	24.35
L	45°	45°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°
N	4	4	4	8	8	8	8	8	8	8	8	8
0	6.90	8.00	8.75	10.00	11.22	11.22	11.22	11.40	11.40	11.40	16.00	16.00
Р	5.50	6.50	7.50	8.86	9.84	9.84	10.00	10.00	10.00	10.00	14.02	14.02
Q	0.32	0.39	0.39	0.50	0.63	0.63	0.63	0.75	0.75	0.88	0.88	1.25
R	0.69	0.81	0.69	0.66	0.65	0.65	0.69	0.69	0.69	0.69	1.13	1.13
V	0.53	0.60	0.53	0.91	1.09	1.09	1.09	0.75	0.75	1.00	1.00	2.00

Size	30-13 DGN	30	36	40	44	48	52	56
А	6.55	6.55	6.55	*	*	*	*	*
В	5.90	5.90	5.90	*	*	*	*	*
D	7.01	7.9**	7.90	*	*	*	*	*
G	29.83	30.08**	33.83	*	*	*	*	*
L	22.5°	22.5°	22.5°	*	*	*	*	*
N	8	8	8	*	*	*	*	*
0	22.62	22.62	22.62	*	*	*	*	*
Р	20.31	20.31	20.31	*	*	*	*	*
Q	1.50	1.50	1.50	*	*	*	*	*
R	1.31	1.31	1.31	*	*	*	*	*
V	2.00	2.00	2.00	*	*	*	*	*

^{*}Contact your PBV® salesperson for additional sizes and materials.

Class 900 (in.)

Size	2	3	4	4- Metal	6	8	10	12 - 04	12 - 96	14	16	18	20	24
А	1.11**	1.54	1.74	2.15	2.00	2.63	2.63	3.28	2.63	3.88	3.92	5.28	5.27	6.55
В	0.98	1.37	1.57	1.93	1.77	2.36	2.36	2.95	2.36	3.54	3.54	4.73	4.73	5.90
D	1.53	1.83	1.80	2.09	3.75	3.54	3.52	5.56	3.59	5.03	6.03	5.44	6.66	7.91
G	4.87**	5.94	7.35	8.51	10.01	11.57	13.32	15.46	14.94	16.76	18.87	23.84	24.18	27.92
L	45°	45°	22.5°	22.5°	0°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°
N	4	4	4	4	8	8	8	8	8	8	8	8	8	8
0	6.90	8.00	8.75	8.80	11.22	11.22	11.22	13.19	11.22	11.70	16.00	16.00	16.00	22.62
Р	5.50	6.50	7.50	7.50	9.84	9.84	10.00	11.78	10.00	10.00	14.02	14.02	14.02	20.31
Q	0.32	0.39	0.39	0.50	0.50	0.63	0.63	0.75	0.63	0.88	0.88	1.25	1.25	1.50
R	0.69	0.81	0.69	0.69	0.69	0.65	0.69	0.78	0.69	0.69	1.12	1.12	1.12	1.31
V	0.53	0.60	0.53	1.00	1.25	1.09	1.09	1.35	1.09	1.54	1.54	2.00	1.50	2.25

Contact your PBV $\!^{\tiny{\circledR}}\!\!\!$ salesperson for additional sizes and materials.

^{**} Design change in 2013 dimensions varies

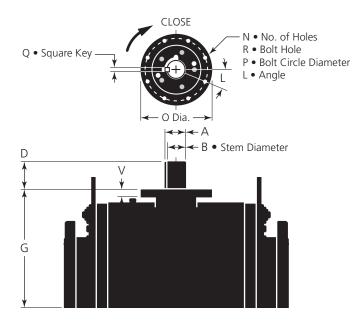
^{*}Design change May 2004. Serial number required to verify design.

^{**}Lip seal design may vary.

Top Works Data, Continued

Series 5700/6700

Data contained below is based on ball bore size and not end flange bore sizes. All dimensions are given in inches. Dimensions may be changed without notice. Contact PBV® with **valve serial numbers** for exact dimensions.



Class 1500 (in.)

Size	2	3	3 - Metal	4	6	8	8 - Metal	10	12	14	16	18	20	24
А	1.11	1.54	1.82	1.74	2.639**	3.28	3.38	3.28	3.28	3.88	3.92	5.27	6.95	6.55
В	0.98	1.37	1.65	1.57	2.36	2.95	3.05	2.95	2.95	3.54	3.54	4.73	6.29	5.90
D	1.68	2.07	2.07	2.09	3.87**	5.87	5.87	5.87	5.86	6.03	6.03	5.50	6.63	6.84
G	5.47	6.42	6.91	7.88	10.67**	12.88	13.04	15.48	17.83	18.83	20.50	24.87	31.43	33.69
L	45°	45°	45°	22.5°	0°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	15.0°	22.5°
N	4	4	4	4	8	8	8	8	8	8	8	8	12	8
0	7.00	8.00	8.00	8.80	11.22	13.19	13.19	13.19	13.19	16.00	16.00	16.00	22.00	22.62
Р	5.50	6.50	6.50	7.50	9.84	11.78	11.78	11.78	11.78	14.02	14.02	14.02	19.00	20.31
Q	0.32	0.39	0.38	0.39	0.62	0.75	0.75	0.75	0.75	0.88	0.88	1.25	1.50	1.25
R	0.69	0.81	0.81	0.69	0.65	0.78	0.78	0.78	0.78	1.12	1.12	1.12	1.38	1.31
V	0.49	0.60	0.85	1.00	1.25**	1.35	1.35	1.35	1.35	1.54	1.54	2.00	1.50	2.00

Class 2500 (in.)

Size	2	3	4	6	8	10	12
А	1.26	1.54	1.98	2.63	3.28	3.28	3.92
В	1.13	1.37	1.77	2.36	2.95	2.95	3.54
D	2.78	3.10	2.58	4.00	5.26	4.17	5.07
G	7.25	8.42	10.56	14.00	16.63	18.25	20.79
L*	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°
N	4	8	8	8	8	8	8
0	8.00	10.00	8.80	11.22	13.19	11.70	16.50
Р	6.75	8.86	7.50	10.00	11.78	10.00	14.02
Q	0.32	0.39	0.50	0.63	0.75	0.75	0.88
R	0.66	0.66	0.69	0.69	0.78	0.69	1.12
V	0.80	0.85	0.90	1.75	1.75	1.50	1.50

^{*}Contact factory for mounting details.

Bore Sizes • Shipping Information

Bore sizes in PBV® ball valves conform to API 6D. They present an unobstructed flow path ideally suited for pigging when ordered in the full bore configuration.

Nominal Bore Size		Actual Bor	e Size (in.)	
(in.)	ANSI 150-600	ANSI 900	ANSI 1500	ANSI 2500
2	2.00	2.00	2.00	1.75
3	3.00	3.00	3.00	2.50
4	4.00	4.00	4.00	3.50
6	6.00	6.00	5.75	5.25
8	8.00	8.00	7.63	7.13
10	10.00	10.00	9.50	8.88
12	12.00	12.00	11.38	10.50
14	13.25	12.75	12.50	_
16	15.25	14.75	14.25	13.16
18	17.25	16.75	16.00	14.81
20	19.25	18.63	17.90	_
24	23.25	22.50	_	_
26	25.00	_	_	_
28	27.00	_	_	_
30	29.00	_	_	_
32	30.75	_	_	_
34	32.75	_	_	_
36	34.50	_	_	_





Weight (lbs.) and Shipping Dimensions (in.)

c:	Al	NSI 150	ΙA	VSI 300	1A	NSI 600	1A	NSI 900	AN	SI 1500	ANSI 2500	
Size	Wt.	Ship Dim.	Wt.	Ship Dim.	Wt.	Ship Dim.	Wt.	Ship Dim.	Wt.	Ship Dim.	Wt.	Ship Dim.
2x2	60	7x8x14	65	9x7x14	70	12x7x14	115	15x11x16	120	15 x 10 x 17	385	18 x 11 x 18
3x2	75	8x10x14	90	11x9x14	100	14x9x14	130	15x12x16	175	19x13x17	480	23 x 14 x 18
3x3	110	8x10x17	125	11x9x16	140	14x9x17	175	15 x 12 x 16	230	19x13x18	605	23 x 14 x 20
4x3	140	9x12x17	150	12x11x16	200	17 x 12 x 17	240	18x15x16	260	22 x 15 x 18	770	27x17x20
4x4	190	9x12x19	220	12 x 11 x 19	270	17 x 12 x 19	330	18x15x22	385	22 x 15 x 20	880	27x17x20
6x4	270	16x14x19	285	16x14x19	395	22 x 15 x 19	550	24×20×22	700	27x19x20	1430	37x23x20
6x6	425	16x14x19	460	16x14x20	515	22 x 15 x 19	860	24x20x25	1155	28 x 19 x 25	2100	37x23x28
8x6	505	18x18x19	575	20x17x20	675	26x18x19	1070	29x24x25	1400	33 x 23 x 25	2580	41x26x28
8x8	565	18 x 18 x 22	715	20x17x22	1140	26 x 18 x 25	1410	29 x 24 x 30	1935	33 x 23 x 30	5500	41x26x36
10x8	640	21x21x22	820	22 x 19 x 22	1420	31x22x25	1760	33 x 28 x 30	2135	39 x 28 x 30	6710	51x32x36
10 x 10	960	21x21x26	1175	22 x 19 x 25	1700	31x22x28	2355	33 x 28 x 33	3430	39 x 28 x 33	7400	51x32x42
12 x 10	1100	24 x 25 x 26	1390	26 x 23 x 25	1895	33 x 24 x 28	2530	38 x 31 x 33	3930	45 x 32 x 33	9350	57x26x42
12 x 12	1310	27 x 25 x 29	1740	26 x 23 x 29	2310	33 x 24 x 34	3545	38 x 31 x 36	5180	45 x 32 x 36	10,500	57x36x46
14x12	1460	27 x 23 x 29	1970	30 x 25 x 29	2575	35 x 26 x 34	3740	41 x 33 x 36	5580	50 x 35 x 36	9,600	_
14 x 14	1870	27 x 23 x 35	2240	30 x 25 x 35	2505	35 x 26 x 36	4435	41 x 33 x 38	5300	50 x 35 x 38	_	_
16x14	2025	30 x 26 x 35	2480	33 x 28 x 35	3050	39 x 30 x 36	4650	45 x 36 x 38	6700	55 x 39 x 38	_	_
16x16	2520	34 x 28 x 39	3015	33 x 28 x 39	3505	39 x 30 x 40	6260	45 x 36 x 41	9120	55 x 39 x 41	17,310	_
18 x 16	2685	34 x 28 x 39	3225	36 x 31 x 39	3900	43 x 32 x 40	6450	49 x 40 x 41	9620	61 x 43 x 41	_	_
18 x 18	3300	34 x 28 x 43	3750	36 x 31 x 43	4550	43 x 32 x 44	8970	49 x 40 x 41	13,020	61x43x44	21,700	_
20 x 18	3482	36 x 30 x 43	3995	39 x 34 x 43	5095	47x35x44	9150	43 x 44 x 44	13,820	66 x 47 x 44	_	_
20 x 20	4465	36 x 30 x 47	5105	39 x 34 x 47	6100	47 x 35 x 47	11,380	53 x 44 x 51	16,500	66 x 47 x 51	_	_
24 x 20	4920	42 x 35 x 47	5730	45 x 40 x 47	7325	55 x 41 x 47	11,850	62 x 53 x 51	20,500	82 x 55 x 51	_	_
24 x 24	6910	42 x 35 x 58	8000	45 x 40 x 58	10,800	55 x 41 x 58	18,960	62 x 53 x 55	27,500	82 x 55 x 55	_	

Contact your PBV $\!^{\tiny{\circledR}}\!$ salesperson for additional weights/sizes larger than 24 $\!^{"}\!$.

Notes: 1) Weights and dimensions given for flanged end valves only.

The above weights and dimensions are made available for the purpose of estimating shipping expenses. These numbers are near approximations for the valve only exclusive of crating or palletizing.

²⁾ Valves sizes 2"x 2" through 6"x 4" in all Classes are with Lever Operators. Valves sizes 6"x 6" and larger in all Classes are with Gear Operators.

³⁾ Shipping dimensions do not include Lever or Handwheel for Gear Operator.

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Integrity: In everything we do, in every interaction, both internally and externally, we strive to operate with the upmost integrity and mutual respect.

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