

PBV

Cast Oilpatch Floating Ball Valves

PA Series
PAH Series
PC Series
PCH Series
PCL Series
PE Series
PCXH Series
PCSH Series

"The Patch" available in pressures from 750 to 5000 PSI is a high quality, economical solution to your threaded oil field valving requirements.



Their Options Are Our Standards

"The Patch", Quality Valves Built for Extreme Oil Field Service

The PBV® Series PA and PAH Threaded Cast Floating Ball Valves

Standard Features

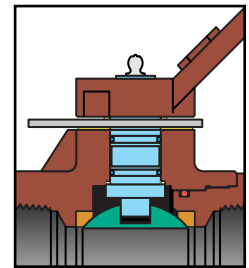
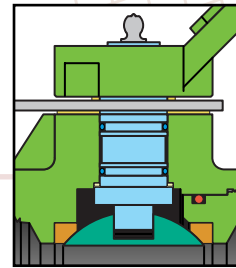
Series PA: 1" FP thru 4" RP at 1000 to 1500 psi WOG
 Series PAH: 1" FP and 2" RP at 2000 psi WOG

- 316 Stainless Steel Trim
- Locking Devices for added security
- Two-piece construction
- Blowout proof stem design
- Seats and Seals to your specifications
- Grease fitting on stem allows constant lubrication and protection against corrosion and moisture.

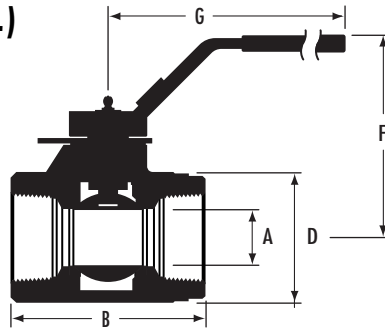


Series PA/PAH

Blowout proof backseated Stem for added safety.



Dimensional Data (in.)



Rugged handle and superior wall thickness for tough oilpatch applications.

Contents

Series PA/PAH

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Series PC/PCH/PCL/PCXH And All SS PCSH

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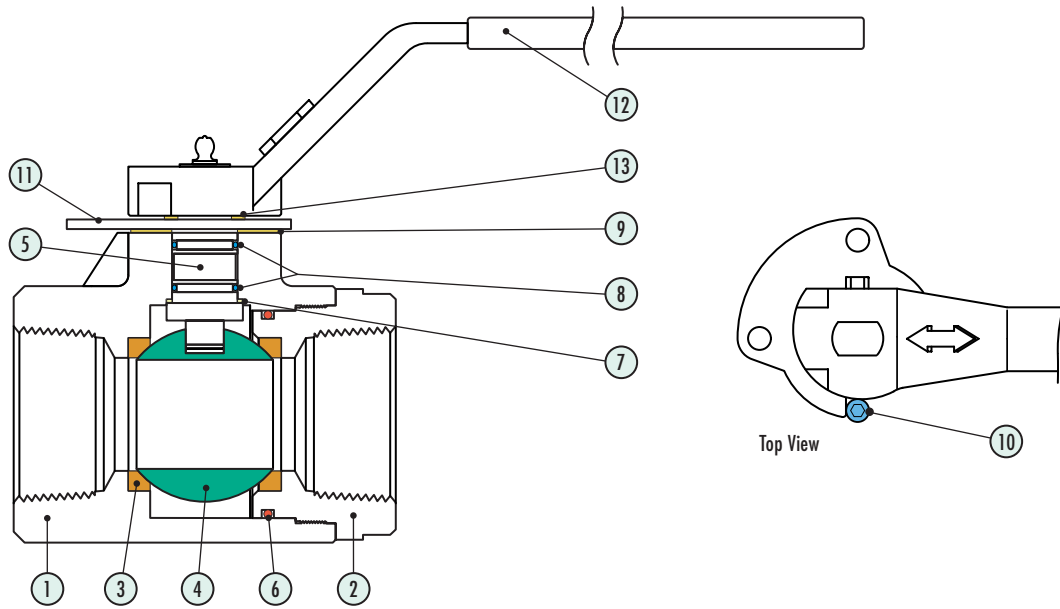
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Series PA, ASTM A395 Ductile Iron

Valve Size	Pressure (psi)	A	B	D	F	G	Weight (Lbs)	Order Figure Numbers
1x1	1500	1	4	2 ²⁷ / ₆₄	3 ⁹ / ₆₄	6 ¹⁹ / ₆₄	4	PA-NV
1½x1½	1500	1½	5½	3½	5 ¹⁷ / ₃₂	8½	13	PA-NV
2x1½	1500	1½	5½	3½	5 ¹⁷ / ₃₂	8½	13	PA-NV
2x2	1500	2	6	4 ¹⁹ / ₆₄	5 ²⁹ / ₃₂	8½	20	PA-NV
2½x2½	1500	2 ⁹ / ₁₆	7	5 ¹³ / ₆₄	6 ¹⁹ / ₃₂	15	30	PA-NV
3x2	1500	2	7 ¹⁹ / ₆₄	4 ²⁹ / ₆₄	5 ²⁹ / ₃₂	8½	19	PA-NV
3x3	1000	3	8¾	5 ⁵ / ₈	6 ⁷ / ₈	15	44	PA-NV
4x3	1000	3	8¾	5 ⁵ / ₈	6 ⁷ / ₈	15	40	PA-NV

Series PAH, ASTM A395 Ductile Iron

Valve Size	Pressure (psi)	A	B	D	F	G	Weight (Lbs)	Order Figure Numbers
1x1	2000	1	4	2 ²⁷ / ₆₄	3 ⁹ / ₆₄	6 ¹⁹ / ₆₄	4	PAH-NV
2x1½	2000	1½	5½	3½	5 ¹⁷ / ₃₂	8½	12	PAH-NV

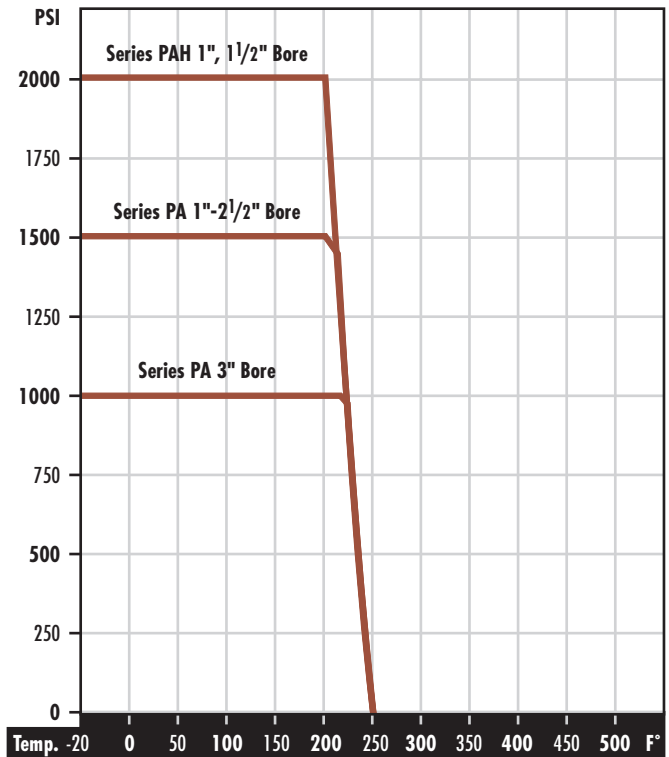


Parts & Materials

Item No.	Qty.	Description	Materials, Series PA & PAH
1	1	Body	ASTM A395 Ductile Iron
2	1	Adapter	ASTM A395 Ductile Iron
3	2	Seat	Nylon + MOS ₂
4	1	Ball	316 Stainless Steel
5	1	Stem	316 Stainless Steel
6	1	Body Seal	Viton®
7	1	Thrust Bearing	PTFE
8	2	Stem Seal	Viton®
9	1	Spacer	PTFE
10	1	Stop Screw	Steel
11	1	Stop Plate	Steel Cad. Plated
12	1	Handle	Carbon Steel
13	1	Retainer	Spring Steel

NOTE: We reserve the right to change materials and specifications.

Pressure Temperature



Break Torques (ft.-lbs.)

Size (In.)							
1x1	1 1/2x1 1/2	2x1 1/2	2x2	2 1/2x2 1/2	3x2	3x3	4x3
29	50	50	94	94	94	152	152

The Cast Solution for Pressures from 1500 up to 5000 psi

The PBV® Series PC/PCH/PCL/PCXH Cast Steel Floating Ball Valves And the All Stainless Steel PCSH For Corrosive Applications

Standard Features

Series PC/PCL: 1" FP thru 4" RP at 1500 to 2500 psi WOG
 Series PCH: 1" FP thru 2 1/2" FP at 3000 psi WOG
 Series PCXH: 2" RP at 5000 psi WOG
 Series PCSH: 2" RP and 2" FP at 3000 psi WOG

- 316 Stainless Steel Trim
- Locking Devices for added security
- Two-piece construction
- Blowout proof stem design
- Seats and Seals to your specifications
- Grease fitting on stem allows constant lubrication and protection against corrosion and moisture.

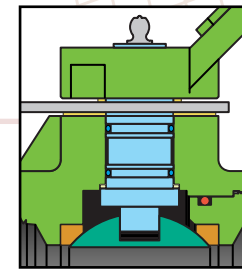
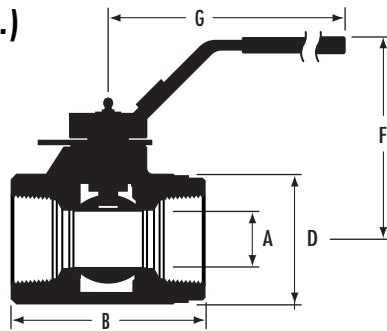
Series PC/PCH

Blowout proof backseated Stem for added safety.

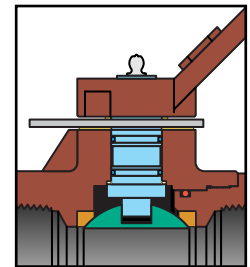
Series PCXH

Series PCSH

Dimensional Data (in.)



Rugged handle and superior wall thickness for tough oilpatch applications.



Series PC, ASTM A216 Gr. WCB ■ Series PCL, ASTM A352 Gr. LCC

Valve Size	Pressure (psi)	A	B	D	F	G	Weight (Lbs)	Order Figure Numbers
1x1	2500	1	4	2 ²⁷ / ₆₄	3 ⁹ / ₆₄	6 ¹⁹ / ₆₄	4	PC-NV
1 1/2 x 1 1/2	2500	1 1/2	5 1/2	3 1/2	5 ¹⁷ / ₃₂	8 1/2	14	PC-NV
2 x 1 1/2	2500	1 1/2	5 1/2	3 1/2	5 ¹⁷ / ₃₂	8 1/2	13	PC-NV
2x2	2160	2	6	4 ¹⁹ / ₆₄	5 ²⁹ / ₃₂	8 1/2	20	PC-NV
2 1/2 x 2 1/2	2160	2 9/16	7	5 ¹³ / ₆₄	6 ¹⁹ / ₃₂	15	32	PC-NV
3x2	2160	2	7 ¹⁹ / ₆₄	4 ²⁹ / ₆₄	5 ²⁹ / ₃₂	8 1/2	23	PC-NV
3x3	1500	3	8 ³ / ₄	5 ⁵ / ₈	6 ⁷ / ₈	15	50	PC-NV
4x3	1500	3	8 ³ / ₄	5 ⁵ / ₈	6 ⁷ / ₈	15	45	PC-NV
4x4	750	4 ¹ / ₁₆	9 ³ / ₈	7 1/2	7 ⁷ / ₈	18 ⁷ / ₆₄	71	PC-NV

Series PCH, ASTM A216 Gr. WCB

Valve Size	Pressure (psi)	A	B	D	F	G	Weight (Lbs)	Order Figure Numbers
1x1	3000	1	4	2 ²⁷ / ₆₄	3 ⁹ / ₆₄	6 ¹⁹ / ₆₄	4	PCH-NV
2 x 1 1/2	3000	1 1/2	5 1/2	3 1/2	5 ¹⁷ / ₃₂	8 1/2	13	PCH-NV
2x2	3000	2	6	4 ¹⁹ / ₆₄	5 ²⁹ / ₃₂	8 1/2	20	PCH-NV

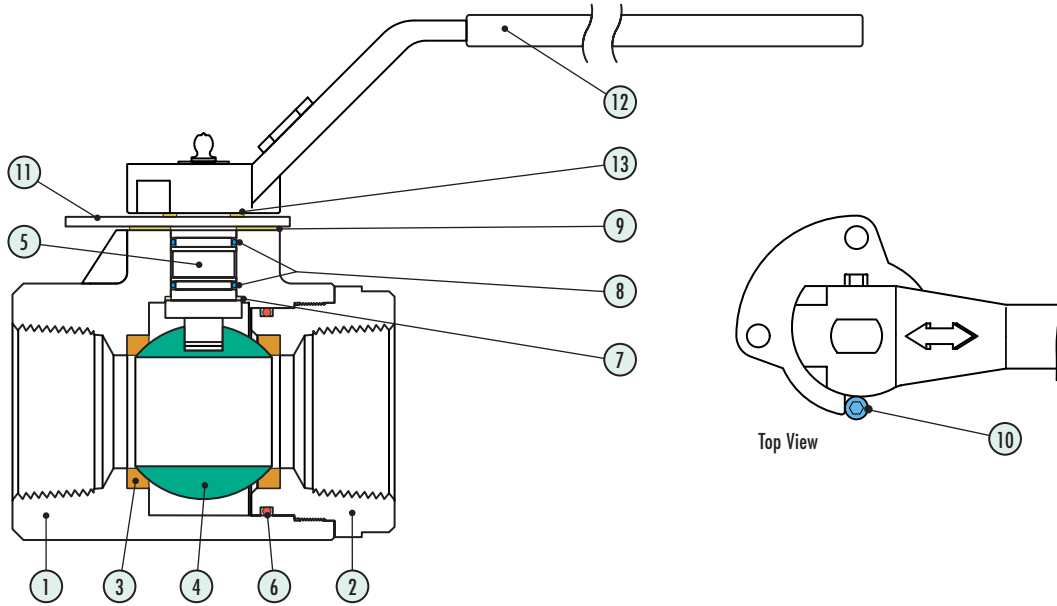
Series PCXH, ASTM A216 Gr. WCB

Valve Size	Pressure (psi)	A	B	D	F	G	Weight (Lbs)	Order Figure Numbers
2 x 1 1/2	5000	1 1/2	5 1/2	3 1/2	5 ¹⁷ / ₃₂	8 1/2	15	PCXH-NV

Series PCSH, Stainless Steel CF8M

Valve Size	Pressure (psi)	A	B	D	F	G	Weight (Lbs)	Order Figure Numbers
2 x 1 1/2	3000	1 1/2	5 1/2	3 1/2	5 ¹⁷ / ₃₂	8 1/2	14	PCSH-NV
2x2	3000	2	6	4 ¹⁹ / ₆₄	5 ²⁹ / ₃₂	8 1/2	20	PCSH-NV

PC/PCH/PCL/PCXH and PCSH Engineering Data

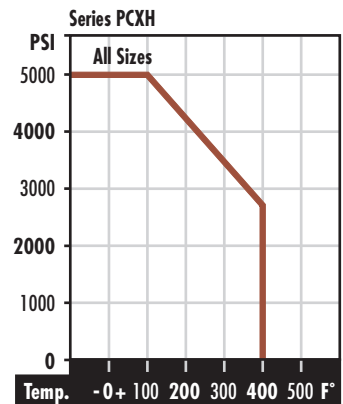
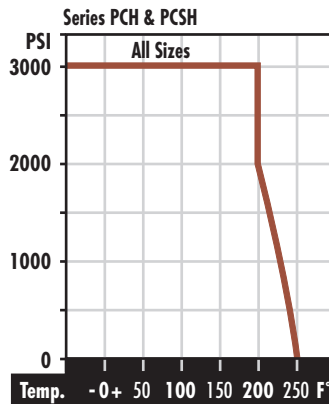
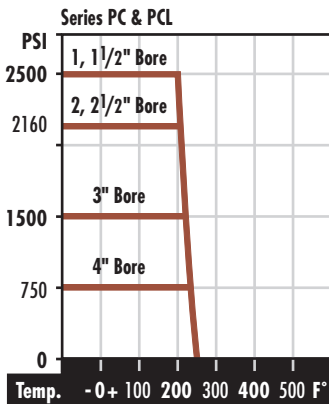


Parts & Materials

Item No.	Qty.	Description	Materials, Series PC & PCH	Materials, Series PCL	Materials, Series PCXH	Materials, Series PCSH
1	1	Body	ASTM A216 Gr. WCB	ASTM A352 Gr. LCC	ASTM A216 Gr. WCB	Stainless Steel CF8M
2	1	Adapter	ASTM A216 Gr. WCB	ASTM A352 Gr. LCC	ASTM A216 Gr. WCB	Stainless Steel CF8M
3	2	Seat	Nylon + MOS ₂	Nylon + MOS ₂	PEEK	Nylon + MOS ₂
4	1	Ball	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
5	1	Stem	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
6	1	Body Seal	Viton®	Low Temp Buna	Viton®	Viton®
7	1	Thrust Bearing	PTFE	PTFE	PTFE	PTFE
8	2	Stem Seal	Viton®	Low Temp Buna	Viton®	Viton®
9	1	Spacer	PTFE	PTFE	PTFE	PTFE
10	1	Stop Screw	Steel	Steel	Steel	Steel
11	1	Stop Plate	Steel Cad. Plated	Steel Cad. Plated	Steel Cad. Plated	Steel Cad. Plated
12	1	Handle	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
13	1	Retainer	Spring Steel	Spring Steel	Spring Steel	Spring Steel

NOTE: We reserve the right to change materials and specifications.

Pressure Temperature Chart



Break Torques (ft.-lbs.)

Size (In.)								
1x1	1 1/2x1 1/2	2x1 1/2	2x2	2 1/2x2 1/2	3x2	3x3	4x3	4x4
29	50	50	94	94	94	152	152	250

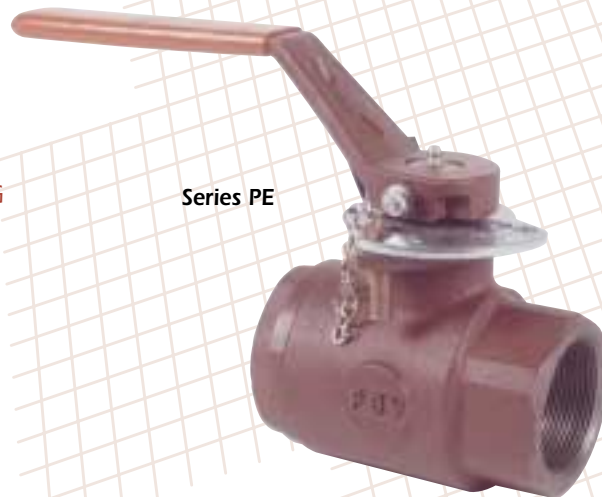
The Economical Solution for Pressures from 750 to 1000 psi

The PBV® Series PE Cast Floating Ball Valves

Standard Features

Series PE: 2", 3 and 4" RP at 750 to 1000 psi WOG

- 316 Stainless Steel Trim
- Two-piece construction
- Blowout proof stem design
- Seats and Seals to your specifications
- Grease fitting on stem allows constant lubrication and protection against corrosion and moisture.
- Reinforced second generation, high performance Teflon® TFM seat

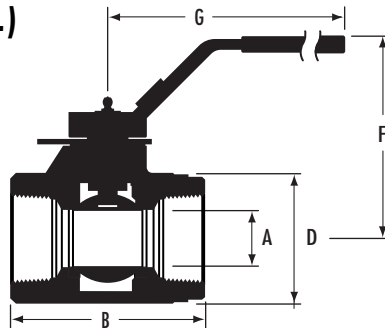


Dual locking devices are standard for material custody transfer applications.



Ideally suited for tank battery and production lines replacing lubricated cast iron plug valves.

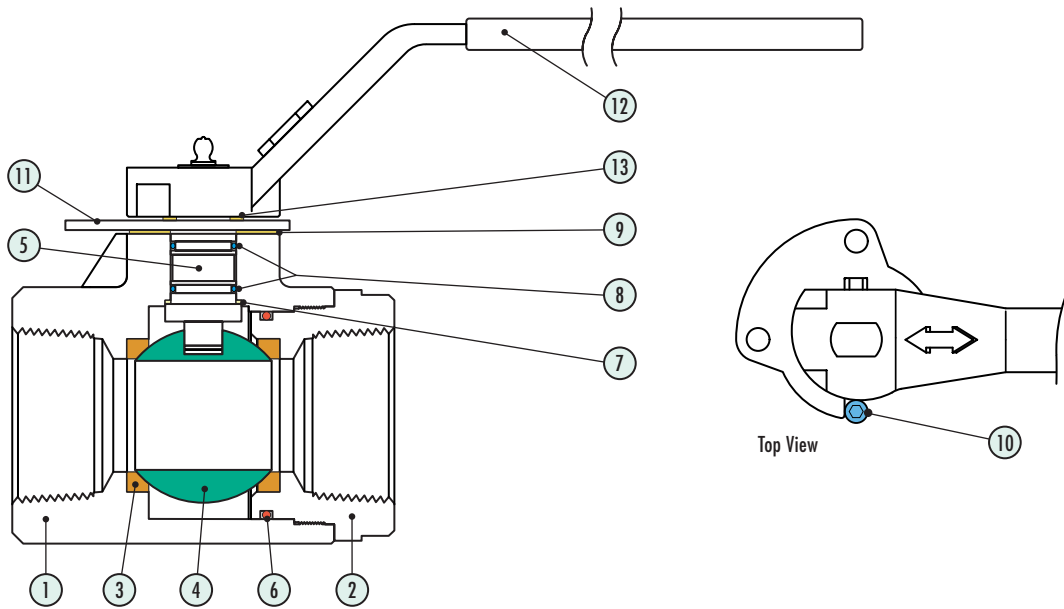
Dimensional Data (in.)



Series PE, ASTM A395 Ductile Iron								
Valve Size	Pressure (psi)	A	B	D	F	G	Weight (Lbs)	Order Figure Numbers
2 x 1 1/2	1000	1 1/2	5 1/2	3 1/2	5 17/32	8 1/2	13	PE-CV
3 x 2	750	2	7 19/64	4 29/64	5 29/32	8 1/2	17	PE-CV
4 x 3	750	3	8 3/4	5 5/8	6 7/8	15	36	PE-CV

All PBV® Valves Are Manufactured in Strict Conformance with these Standards.

- ISO 9001 Quality System
- NACE MR0175 Sulfide Stress Cracking Resistant Metallic Materials for Oil Field Equipment
- Canadian Registration Number (CRN) Products Registered in all Provinces and Territories

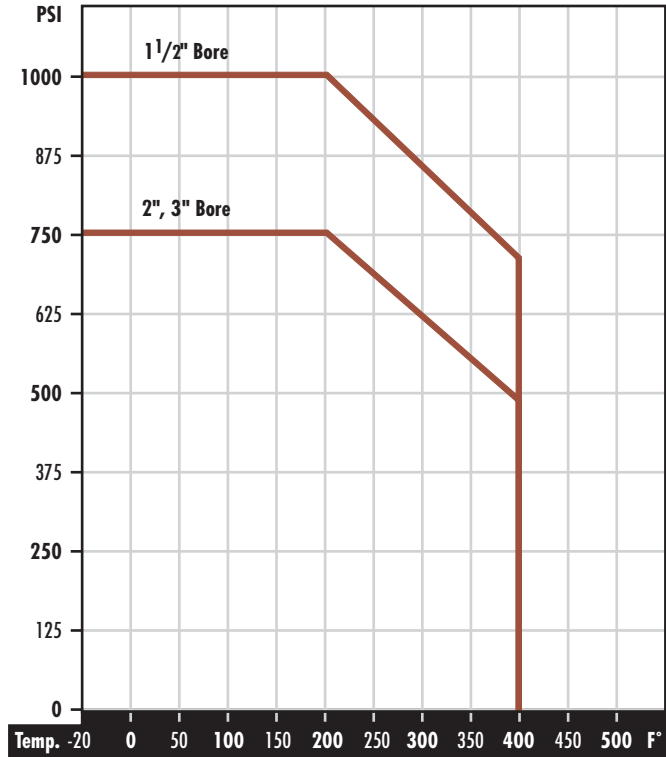


Parts & Materials

Item No.	Qty.	Description	Materials, Series PE
1	1	Body	ASTM A395 Ductile Iron
2	1	Adapter	ASTM A395 Ductile Iron
3	2	Seat	TFMC
4	1	Ball	316 Stainless Steel
5	1	Stem	316 Stainless Steel
6	1	Body Seal	Viton®
7	1	Thrust Bearing	PTFE
8	2	Stem Seal	Viton®
9	1	Spacer	PTFE
10	1	Stop Screw	Steel
11	1	Stop Plate	Steel Cad. Plated
12	1	Handle	Carbon Steel
13	1	Retainer	Spring Steel
14	1	Chain	Carbon Steel
15	1	Ribbon Lock	Copper Tube

NOTE: We reserve the right to change materials and specifications.

Pressure Temperature Chart



Break Torques (ft.-lbs.)

Size (In.)		
2x1 1/2	3x2	4x3
50	94	152

Warranty

The warranty described below applies only to new or unused goods, or goods reconditioned by ZY-TECH GLOBAL INDUSTRIES (Seller). The Seller specifically disclaims any warranty for used goods or goods sold "as is". For a period of one (1) year after date of purchase of any of the goods described herein, Seller warrants such goods shall remain free from failure due to defects in workmanship and materials incorporated therein by or for Seller provided such failure shall not have been caused or contributed to, by improper usage, service or application, improper installation or maintenance, repairs, alterations, or modifications effected by or for the user, misuse, negligence or accident.

In the event of failure for which Seller has assumed warranty obligations hereunder, and provided written notification of such failure shall be immediately given to Seller, it agrees to repair, or at its option, to replace the goods sold at its sold expense.

Apart from the warranty and undertaking above set forth, Seller assumes no obligation or liability for losses, expense or damages, direct or consequential, suffered or incurred as a result of any failure of, or defect in, the goods described herein, including but not limited to, such costs, expenses or damages as may result from the necessity to remove, replace, restore or transport the goods from any location or service in which they may be used, regardless of the cause of such failure or defect.

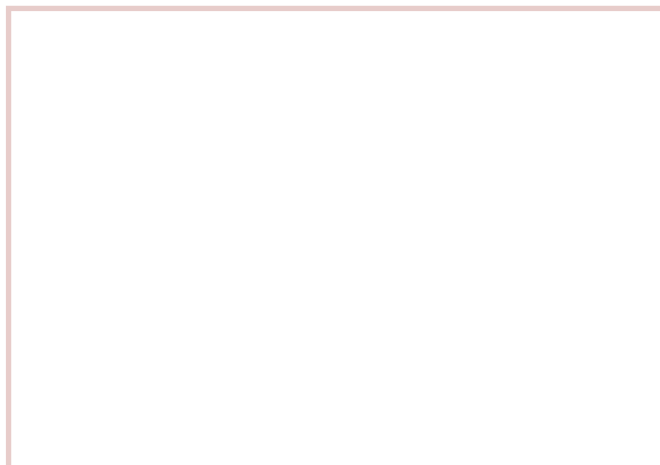
There are not other warranties, express or implied, of any kind given with respect to the goods, their merchantability, fitness for any particular purpose or usage, or otherwise, nor is any person authorized to extend on behalf of Seller any form of warranty other than that above set forth.

The goods described herein are not sold or distributed by Seller for personal, family or household purposes, nor are they normally suited for use as such.



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Your Local Representative



ZY-TECH GLOBAL INDUSTRIES

10600 Corporate Drive, Stafford, Texas 77477

(281) 565-1010 • (800) 231-3530 • Fax (281) 565-3171

Sales@zy-tech.com

zy-tech•com

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