

PBV[®] CAST OILPATCH FLOATING BALL VALVES

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PBV Series PA / PAH Threaded Cast Floating Ball Valves

“The Patch,” Quality Economical Valves Built for Extreme Oilfield Service

Standard Features

Series PA: 1” FP through 4” RP at 1000-1500 psi WOG
Series PAH: 1” FP through 2” RP at 2000 psi WOG

- 316 Stainless Steel Trim
- Locking Devices for Added Security
- Two-Piece Construction
- Rugged Handle and Superior Wall Thickness for Tough Oilpatch Applications
- Blowout-Proof, Backseated Stem Design for Added Safety
- Seats and Seals to Your Specifications
- Grease Fitting on Stem Allows Constant Lubrication and Protection Against Corrosion and Moisture
- Meets NACE MR0175 2002



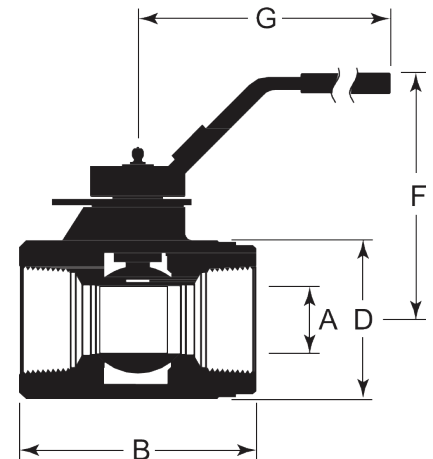
Dimensional Data (in.)

Series PA, ASTM A395 Ductile Iron

Size (in.)	Pressure (psi)	A	B	D	F	G	Weight (lbs.)	Valve Figure Numbers
1 x 1	1500	1	4	2 ²⁷ / ₆₄	3 ⁹ / ₆₄	6 ¹⁹ / ₆₄	4	PA-NV
1 1/2 x 1 1/2	1500	1 1/2	5 1/2	3 1/2	5 ¹⁷ / ₃₂	8 1/2	13	PA-NV
2 x 1 1/2	1500	1 1/2	5 1/2	3 1/2	5 ¹⁷ / ₃₂	8 1/2	13	PA-NV
2 x 2	1500	2	6	4 ¹⁹ / ₆₄	5 ²⁹ / ₃₂	8 1/2	20	PA-NV
2 1/2 x 2 1/2	1500	2 ⁹ / ₁₆	7	5 ¹³ / ₆₄	6 ¹⁹ / ₃₂	15	30	PA-NV
3 x 2	1500	2	7 ¹⁹ / ₆₄	4 ²⁹ / ₆₄	5 ²⁹ / ₃₂	8 1/2	19	PA-NV
3 x 3	1000	3	8 3/4	5 5/8	6 7/8	15	44	PA-NV
4 x 3	1000	3	8 3/4	5 5/8	6 7/8	15	40	PA-NV

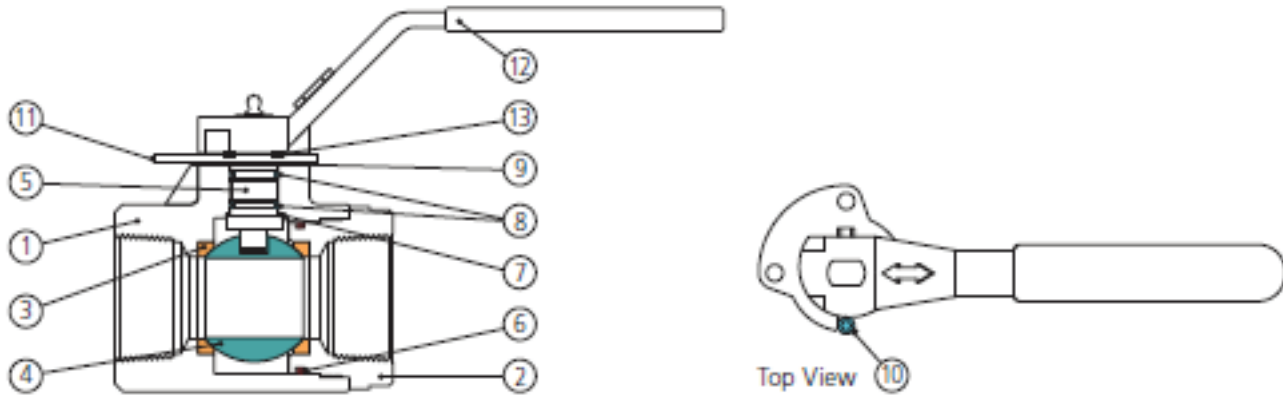
Series PAH, ASTM A395 Ductile Iron

Size (in.)	Pressure (psi)	A	B	D	F	G	Weight (lbs.)	Valve Figure Numbers
1 x 1	2000	1	4	2 ²⁷ / ₆₄	3 ⁹ / ₆₄	6 ¹⁹ / ₆₄	4	PAH-NV
2 x 1 1/2	2000	1 1/2	5 1/2	3 1/2	5 ¹⁷ / ₃₂	8 1/2	13	PAH-NV



PBV Series PA / PAH Threaded Cast Floating Ball Valves

Parts, Materials, & Engineering Data



Parts & Materials

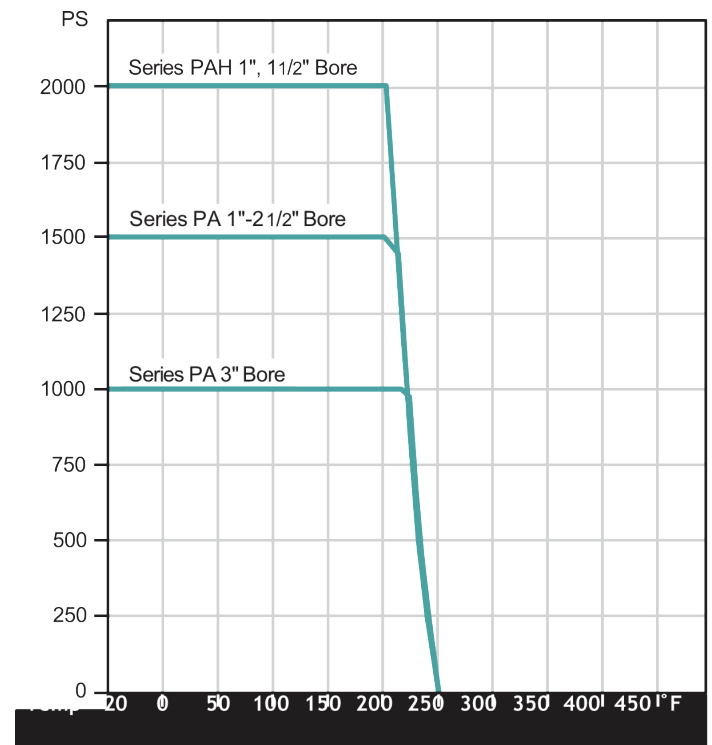
No.	Qty.	Description	Materials, Series PA / PAH
1	1	Body	ASTM A395 Ductile Iron
2	1	Adapter	ASTM A395 Ductile Iron
3	2	Seat	Nylon + MOS ₂
4	1	Ball	316 Stainless Steel
5	1	Stem	316 Stainless Steel
6	1	Body Seal	Viton®
7	1	Thrust Bearing	PTFE
8	2	Stem Seal	Viton®
9	1	Spacer	PTFE
10	1	Stop Screw	Steel
11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

Note: Materials and specifications are subject to change without notice.

Break Torques (ft.-lbs.)

Size (in.)							
1 x 1	1 1/2 x 1 1/2	2 x 1 1/2	2 x 2	2 1/2 x 2 1/2	3 x 2	3 x 3	4 x 3
29	50	50	94	94	94	152	152

Pressure Temperature



PBV Series PC / PCH / PCL / PCXH / PCSH Cast & SS Floating Ball Valves

The Cast Solution for Pressures from 1500 to 5000 psi and All Stainless Steel PCSH for Corrosive Applications

Standard Features

Series PC/PCL: 1" FP through 4" RP at 1500-2500 psi WOG

Series PCH: 1" FP through 2 1/2" RP at 3000 psi WOG

Series PCXH: 2" RP at 5000 psi WOG

Series PCSH: 2" RP and 2" FP at 3000 psi WOG

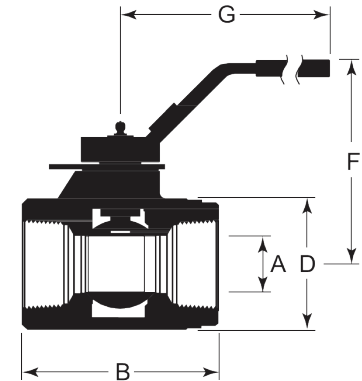
- 316 Stainless Steel Trim
- Locking Devices for Added Security
- Two-Piece Construction
- Rugged Handle and Superior Wall Thickness for Tough Oilpatch Applications
- Blowout-Proof, Backseated Stem Design for Added Safety
- Seats and Seals to Your Specifications
- Grease Fitting on Stem Allows Constant Lubrication and Protection Against Corrosion and Moisture
- Meets NACE MR0175 2002



Dimensional Data (in.)

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

Size (in.)	Pressure (psi)	A	B	D	F	G	Weight (lbs.)	Valve Figure Numbers
1 x 1	2500	1	4	2 27/64	3 9/64	6 19/64	4	PC-NV/PCL-NR
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/PCL-NR
2 x 1 1/2	2500	1 1/2	5 1/2	3 1/2	5 17/32	8 1/2	13	PC-NV/PCL-NR
2 x 2	2160	2	6	4 19/64	5 29/32	8 1/2	20	PC-NV/PCL-NR
2 1/2 x 2 1/2	2160	2 9/16	7	5 13/64	6 19/32	15	32	PC-NV/PCL-NR
3 x 2	2160	2	7 19/64	4 29/64	5 29/32	8 1/2	23	PC-NV/PCL-NR
3 x 3	1500	3	8 3/4	5 5/8	6 7/8	15	50	PC-NV/PCL-NR
4 x 3	1500	3	8 3/4	5 5/8	6 7/8	15	45	PC-NV/PCL-NR
4 x 4	750	4 1/16	9 3/8	7 1/2	7 7/8	18 7/64	71	PC-NV/PCL-NR



Series PCH, ASTM A216 Gr. WCB

Size (in.)	Pressure (psi)	A	B	D	F	G	Weight (lbs.)	Valve Figure Numbers
1 x 1	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
2 x 2	3000	2	6	4 19/64	5 29/32	8 1/2	20	PCH-NV

Series PCXH, ASTM A216 Gr. WCB

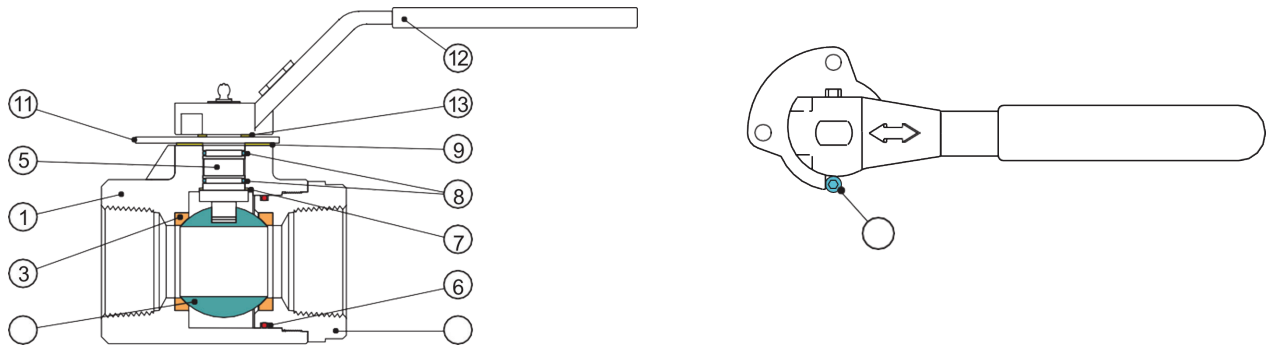
Size (in.)	Pressure (psi)	A	B	D	F	G	Weight (lbs.)	Valve Figure Numbers
2 x 1 1/2	5000	1 1/2	5 1/2	3 1/2	5 17/32	8 1/2	15	PCXH-PV

Series PCSH, Stainless Steel CF8M

Size (in.)	Pressure (psi)	A	B	D	F	G	Weight (lbs.)	Valve 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
2 x 2	3000	2	6	4 19/64	5 29/32	8 1/2	20	PCSH-NV

PBV Series PC / PCH / PCL / PCXH / PCSH Cast & SS Floating Ball Valves

Parts, Materials, & Engineering Data

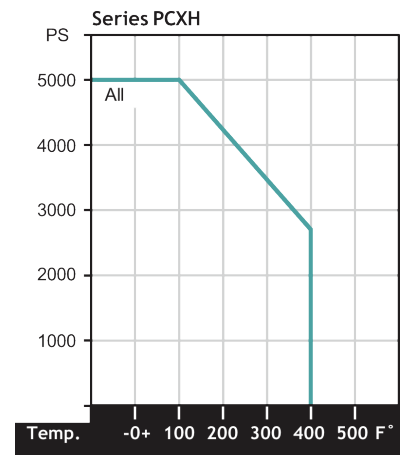
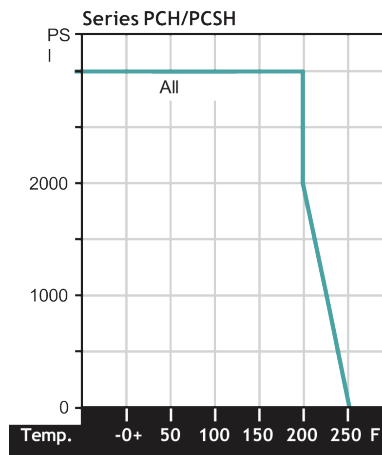
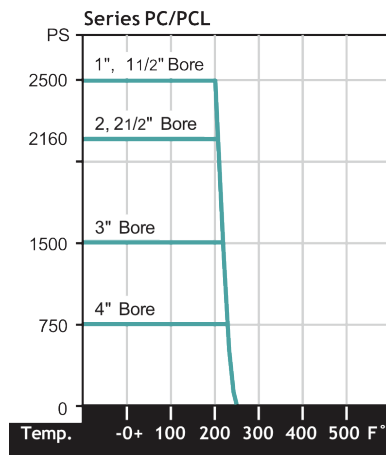


Parts & Materials

No.	Qty.	Description	Series PC / PCH	Series PCL	Series PCXH	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 Cadmium Plated	Steel Cadmium Plated	Steel Cadmium Plated	Steel Cadmium Plated
12	1	Handle	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
13	1	Retainer	Spring Steel	Spring Steel	Spring Steel	Spring Steel

Note: Materials and specifications are subject to change without notice.

Pressure Temperature



Break Torques (ft.-lbs.)

Size (in.)								
1 x 1	1 1/2 x 1 1/2	2 x 1 1/2	2 x 2	2 1/2 x 2 1/2	3 x 2	3 x 3	4 x 3	4 x 4
29	50	50	94	94	94	152	152	250

PBV Series PE Cast Floating Ball Valves

The Economical Solution for Pressures from 750 to 1000 psi

Standard Features

Series PE: 2", 3", and 4" RP at 750-1000 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
- Meets NACE MR0175 2002



Dual-locking devices are standard for material custody transfer applications.

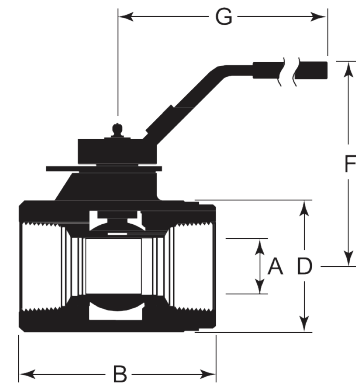


Ideally suited for tank battery and production lines replacing lubricated cast iron plug valves.

Dimensional Data (in.)

Series PE, ASTM A395 Ductile Iron

Size (in.)	Pressure (psi)	A	B	D	F	G	Weight (lbs.)	Valve 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

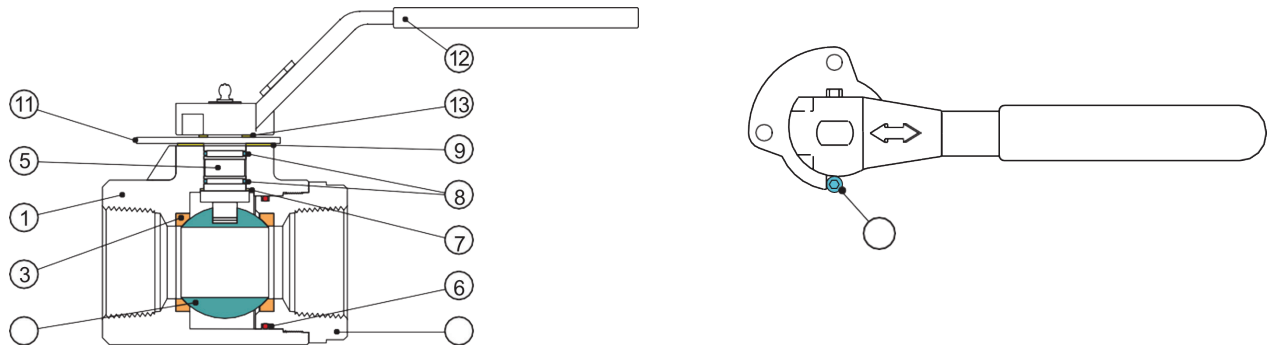


All PBV valves are manufactured in strict conformance with the following industry standards:

- ISO 9001 Quality System
- NACE MR0175 2002 sulfide stress cracking resistant metallic materials for oilfield equipment
- Canadian Registration Number (CRN) products registered in all provinces and territories

PBV Series PE Cast Floating Ball Valves

Parts, Materials, & Engineering Data



Parts & Materials

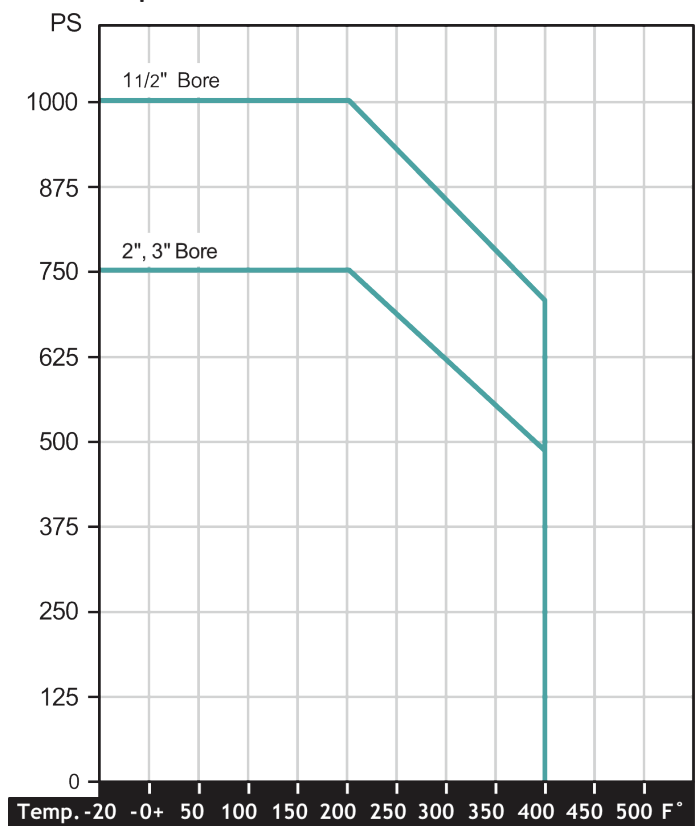
No.	Qty.	Description	Materials, Series PE
1	1	Body	ASTM A395 Ductile Iron
2	1	Adapter	ASTM A395 Ductile Iron
3	2	Seat	TFMC
4	1	Ball	316 Stainless Steel
5	1	Stem	316 Stainless Steel
6	1	Body Seal	Viton
7	1	Thrust Bearing	PTFE
8	2	Stem Seal	Viton
9	1	Spacer	PTFE
10	1	Stop Screw	Steel
11	1	Stop Plate	Steel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

Note: Materials and specifications are subject to change without notice.

Break Torques (ft.-lbs.)

Size (in.)		
2 x 1 1/2	3 x 2	4 x 3
50	94	152

Pressure Temperature





OUR CORE VALUES

No One Gets Hurt

The safety of our employees and customers is our first priority coupled with a healthy respect for the environment.

Integrity

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

Customer Focused

Our products enhance our customer's performance and we listen to their needs and work with them to solve their challenges.

Good Place To Work

We are committed to creating a workplace that fosters innovation, teamwork and pride. Every team member is integral to our success and is treated equally and fairly.

FORUM ENERGY TECHNOLOGIES



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