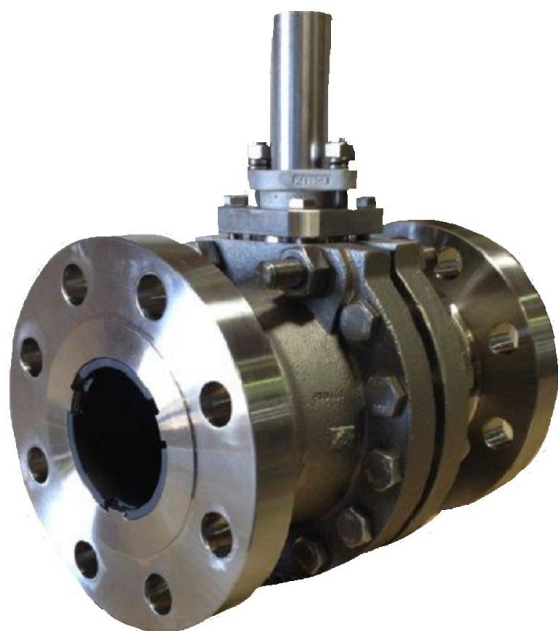


## N SERIES 2-PIECE BALL VALVES

Split Body Ceramic Lined metal seated ball valves for industrial and process applications.



The Jarecki N Series ceramic lined ball valve is the right choice for your high abrasive media. N Series valves are used for applications in the Chemical, Power, Pulp and Paper, and Mining Industries.

### Standard Applications:

Abrasive Media  
Lime Mud  
Coke and Ore  
Sand

### Seat Leakage Class:

Metal Seats Class V - **Standard**  
Metal Seats Class VI  
Metal Seats API 598  
Metal Seats ISO 5208

### Design

#### Pressure Rating

- 150# Available in Sizes ½" to 12"
- 300# Available in Sizes ½" to 12"

#### Valve Size

- 1/2" to 12" Full Port
- 6" to 12" Reduced Port

#### End Connections

- Flanged
- Butt weld Available On Request

#### Valve Construction

- 2 Piece Valve Design
- Investment Cast Body Size ½" to 4"
- Split Body
- Actuator Mounting Pad
- Live Loaded Stem Packing
- Designed to B16.34
- Blow Out Proof Stem
- Heavy Duty Stem For High Torque

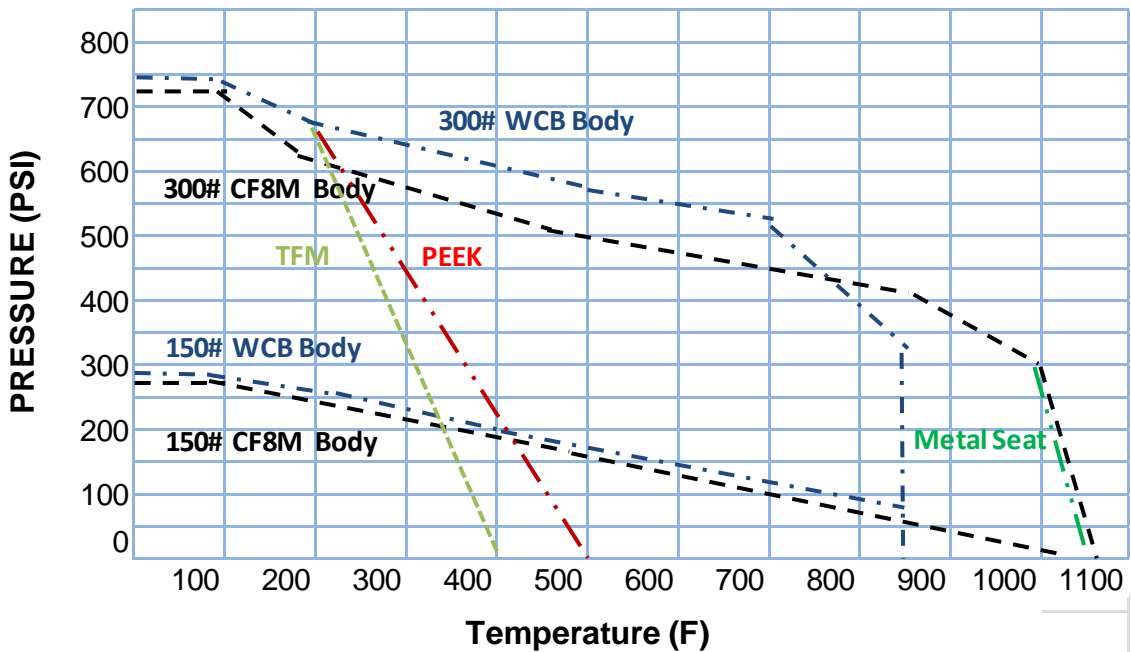
#### Seat Designs

- Bi-Direction Metal Seats
- Uni-Directional Metal Seats – **Standard**

#### Service Conditions

- Temperatures Up to 1000 deg F
- Pressures as low as Vacuum Service
- Pressures as High as 740 psi
- For Abrasive Services

## PRESSURE / TEMPERATURE CHART



### Live Loaded Packing System

- Blow-Out proof stem design to ensure workman safety.
- Live-Loaded stem packing to compensate for temperature fluctuations and normal wear.
- Care is taken not to over torque the stem packing at the testing facility.

### Reliable Body Seal

- The body and end connections are bolted with a metal to metal contact to ensure that proper compression on the body gasket is achieved.
- This metal to metal contact also guarantees that the dimensions inside the valve are correct. The torque is constant, and both the body and seat seal gaskets will always have the proper compression.

## Specifications

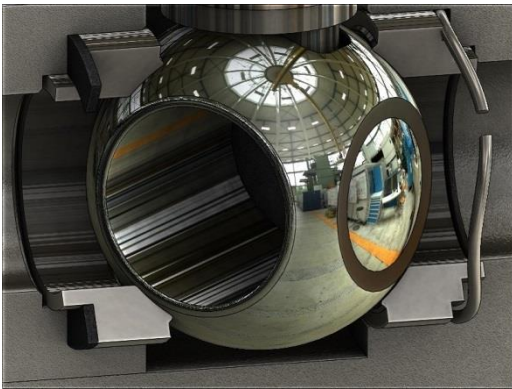
Valves covered in this bulletin are available to conform to the following industry standards and specifications

- Flanged Ends meet ANSI B16.10 and B16.5
- Butt Weld end connections meet MSS SP72
- Pressure Testing Of Valves MSS-SP-61
- Standard Marking for Valves MSS-SP-25
- Valves are tested per ANSI FCI 70-2-1976
- Minimum wall thickness meets ANSI B16.34
- Valves are tested per ANSI FCI 70-2-1991 and B16.34
- ASME B31.1 Power Piping
- ASME B31.3 Chemical Plant Piping
- MSS SP-55 Quality Standards For Castings
- MSS SP-6 Standard Finishes for Contact Faces of Pipe Flanges
- API 607 Fire Test For Soft Seated Valves
- NACE MRO175 Sulfide Stress Cracking Resistant Materials For oilfied Equipment\*
- API 6D Specifications for Pipeline Valves

\* Must specify this as a requirement at time of order

## SEAT STYLES

### P Seat - Spring Loaded (Standard)



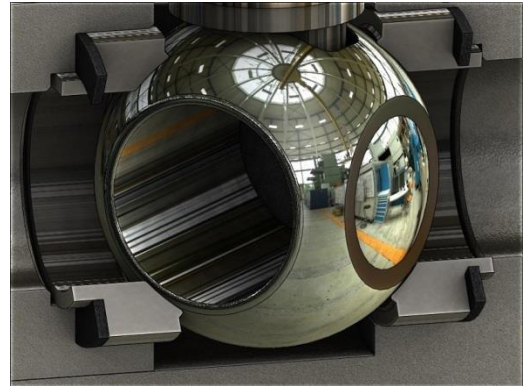
For unidirectional applications. The sealing seat is available as a separate seat ring for reparability, or integral with the tailpiece for high temperature applications. The spring seat OD seal prevents media from building up between the spring and the back of the seat.

**Temperature Range:** -40 to 1000 deg F

**Application:** Steam, Hot Air, Gases, Low Pressure Differentials, High Temperatures

**Shut-Off:** Class V, Class VI, Bubble Tight

### G Seal - Graphite Sealed Seat



A series of Graphite seal rings behind the metal seat prevents media from building up behind the seat. The rings also allow for expansion of the internal valve components in high temperature applications. This design is great for applications involving fine solids as the graphite prevents the media from building up behind the seats.

**Temperature Range:** -20 to 1000 deg F

**Application:** Steam, Abrasion, High Temperatures, Fine Solids, Slurry

**Shut-Off:** Class V, Class VI, Bubble Tight

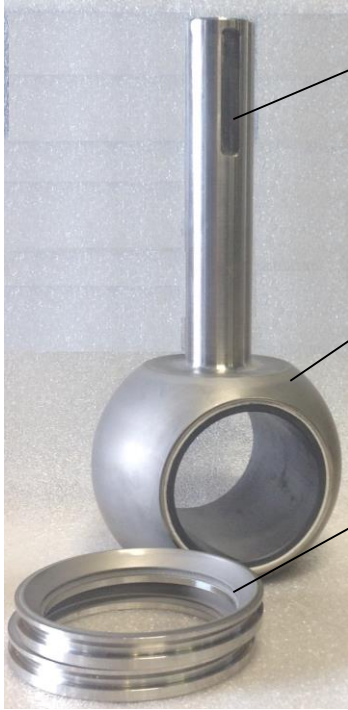
## Reliable Shut-Off

- Tight shut-off is accomplished by grinding every ball to very tight tolerances and excellent finish, generating a true radius each individual seat to its mating ball, and then carefully lapping them together through our proven polishing process.
- Every valve that leaves the plant has both a hydrostatic, torque and cycle test, and seat leakage test performed on it.
- Standard Shut-Off is Class V. ISO 5208 Rate A,B,C and ANSI Class VI available As Options.

## Quality

- Jarecki Valves is an ISO 9000 Company and quality is an important part of our culture
- In Metal Seat Valves, .003 Thousands of an inch can make all the difference in torque, shut-off and overall valve performance. Our quality system requires this.
- At Jarecki Valves, 95% of our business is metal seated ball valves. The employees understand and excel at producing the highest quality metal seated valves available.

## FEATURES



Keyway for tight coupler connection with no hysteresis

Spherically Ground Ball Matches The Seat Sealing Area For A Tight Shut-Off

Precision Machined Seats Mate Lapped To The Ball For Tight Shut Off.

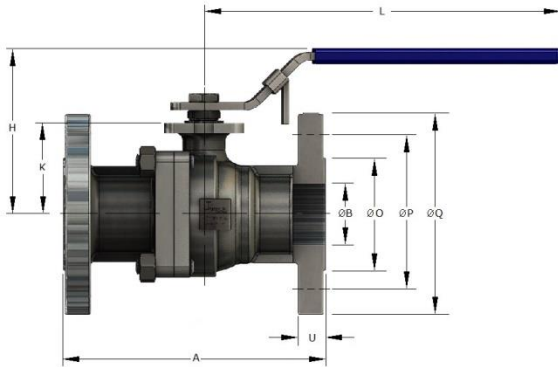
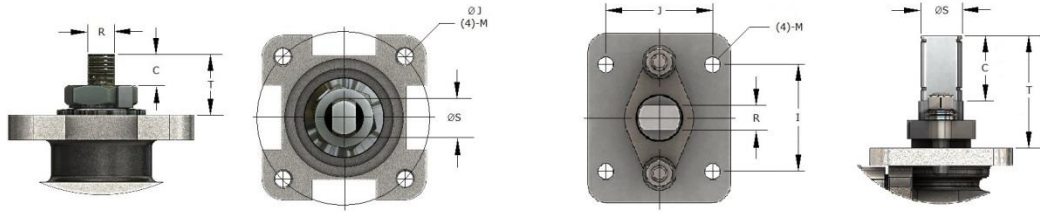
Ceramic Lined Bore To Prevent Wear and Erosion in the valve body bore and the ball bore.



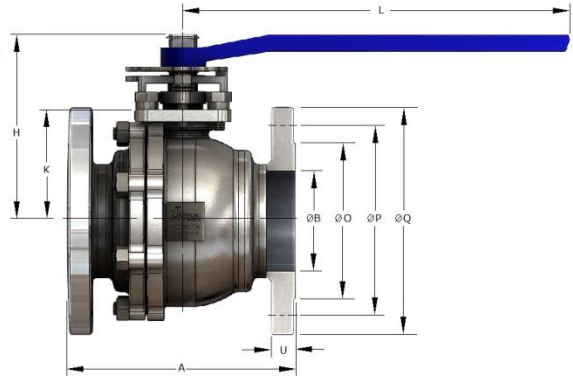
Blow Out Proof Stem Designed For High Torque

Live Loaded Adjustable Stem Packing Along With O-Ring Primary Seal

# DIMENSIONS



Size 1/2" to 2"



Size 3" to 12"

## ANSI 150# FULL PORT

SIZE	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
A	4.25	4.61	5.00	5.50	6.50	7.00	7.85	8.00	9.00	14.00	15.50	18.00	21.00	24.00
ØB	0.58	0.78	1.00	1.25	1.50	2.00	2.55	3.00	4.00	5.00	5.99	7.90	9.85	11.82
ØO	1.38	1.69	2.00	2.50	2.88	3.62	4.12	5.00	6.19	7.31	8.50	10.62	12.75	15.00
ØP	2.38	2.75	3.12	3.50	3.88	4.75	5.50	6.00	7.50	8.50	9.50	11.75	14.25	17.00
ØQ	3.50	3.88	4.25	4.62	5.00	6.00	7.00	7.50	9.00	10.00	11.00	13.50	16.00	19.00
Cv	20	45	80	150	260	410	650	1000	1730	3650	5250	10075	15250	21500
WEIGHT	5	6	8	11	15	25	39	43	69	110	182	305	555	672

## ANSI 300# FULL PORT

SIZE	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
A	5.50	6.00	6.50	7.00	7.50	8.50	9.50	11.12	12.00	15.00	15.88	19.75	22.40	25.50
ØB	0.58	0.78	1.00	1.25	1.50	1.98	2.55	2.99	3.99	5.00	5.98	7.88	9.85	11.82
ØO	1.38	1.69	2.00	2.50	2.88	6.32	4.12	5.00	6.19	7.31	8.50	10.62	12.75	15.00
ØP	2.62	3.25	3.50	3.88	4.50	5.00	5.88	6.62	7.88	9.25	10.62	13.00	15.25	17.75
ØQ	3.75	4.62	4.88	5.25	6.12	6.50	7.50	8.25	10.00	11.00	12.50	15.00	17.50	20.50
Cv	15	40	75	140	255	405	645	990	1715	3500	5000	10000	15000	21000
WEIGHT	6	8	11	14	23	28	47	74	106	160	255	395	715	875

## ANSI 150# REDUCED PORT

SIZE	6	8	10	12
A	10.50	11.50	13.00	14.00
ØB	5.98	7.88	9.85	11.82
ØR	8.50	10.62	12.75	15.00
ØS	10.62	13.00	15.25	17.75
ØF	12.50	15.00	17.50	20.50
Cv	1795	4835	10398	17852
WEIGHT	85	199	335	530