

TV SERIES 2-PIECE TRUNNION BALL VALVES

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



The Jarecki TV Series ball valve is an economical choice for your high temperature and abrasive media valve needs. TV Series valves are used for applications in the Chemical, Power, Pulp and Paper, Petrochemical, Oil and Gas, and Mining Industries.

Standard Applications:

Condensate Hot Oil Saturated Steam Feedwater Abrasive Media Natural Gas Nitrogen

Seat Leakage Class:

RTFE Seats Bubble Tight RTFE Seats API 598 Metal Seats Class V - **Standard** Metal Seats Class VI Metal Seats Zero Leakage Metal Seats API 598 Metal Seats ISO 5208

Design

Pressure Rating

- 600# Available in Sizes ½" to 12"
- 900# Available in Sizes ½" to 12"
- 1500# Available in Sizes ½" to 12"

Valve Size

- 2" to 12" Full Port
- 3" to 12" Reduced Port

End Connections

- Flanged
- Butt weld Available On Request

Valve Construction

- 2 Piece Valve Design
- Cast Body and Forged
- Split Body
- Trunnion Mounted Ball
- Spiral Wound Body Gasket with Secondary Metal to Metal Seal
- Actuator Mounting Pad
- Live Loaded Stem Packing
- Designed to B16.34
- Blow Out Proof Stem
- Heavy Duty Stem For High Torque

Seat Designs

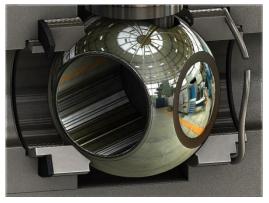
- Bi-Direction RTFE Seats
- Bi-Direction Metal Seats
- Uni-Directional Metal Seats Standard

Service Conditions

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

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 IV

O Seal - Graphite Sealed Seat

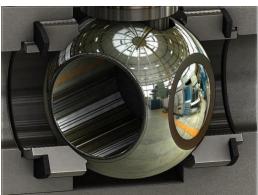


A double seal design providing both spring loading and excellent sealing capabilities. There is no area for media to build up behind the seat, which prevents the valve from locking up.

Temperature Range: --40 to 650 deg F

Application: Steam, Abrasion, Low Pressure Differentials, Fine Solids, Emulsions, Condensation, Natural Gas Shut-Off: Class V, Class VI, Bubble Tight

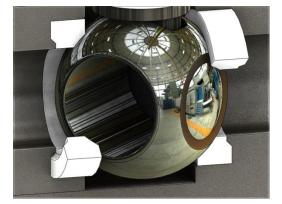
T Seat - Reinforced TFE Seat



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

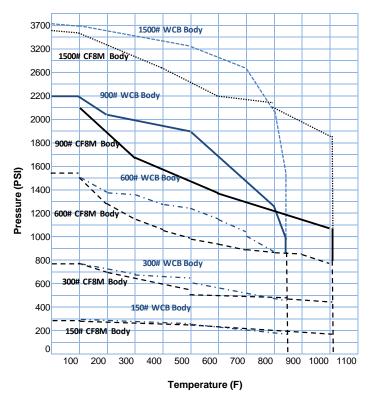
Application: Steam, Abrasion, High Temperatures, Fine Solids, Slurry Shut-Off: Class IV



The T Seat Style designates a soft seat material. There are many seat materials available with TFM being the standard option. A metal lip on the body and tailpiece provides fire safety and meets API 607 requirements.

Temperature Range: -20 to 450 deg F Application: Steam, Low Pressure Differentials, Emulsions, Nonabrasive Media Shut-Off: Class VI, Bubble Tight

G Seal - Graphite Sealed Seat



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 70-2-1976 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

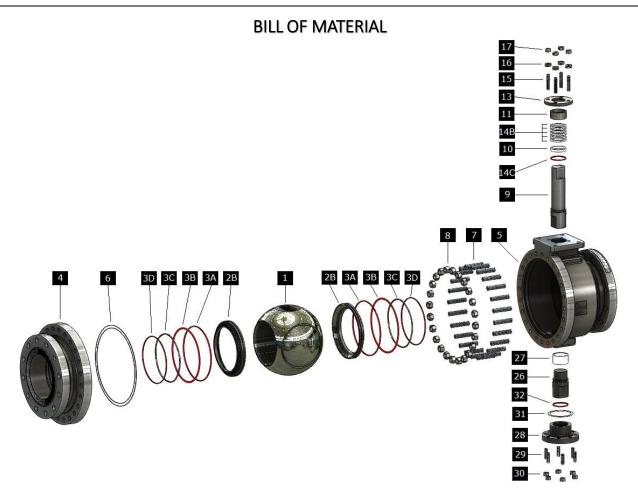
API 607 Fire Test For Soft Seated Valves

 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

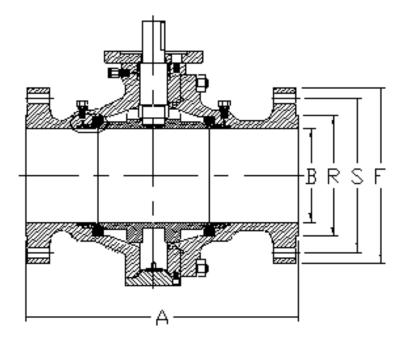




ITEM NO.	NAME	STAINLESS STEEL	CARBON STEEL	DUPLEX
1	BALL	316 W/ HARD CHROME*	316 W/ HARD CHROME*	2205 W/ Tantalum Chrome Oxide *
2	SEAT	316 W/ STELLITE HF*	316 W/ STELLITE HF*	2205 W/ Tantalum Chrome Oxide *
За	SEAT FACE SEAL	TFE/Viton/Graphite	TFE/Viton/Graphite	TFE/Viton/Graphite
3b1	SEAT OD SEAL	VITON/ TFE/ CHEMRAZ	VITON/ TFE/ CHEMRAZ	VITON/ TFE/ CHEMRAZ
3b1	SEAT OD SEAL	VITON/ TFE/ CHEMRAZ	VITON/ TFE/ CHEMRAZ	VITON/ TFE/ CHEMRAZ
3C	SEAT SPRING (IF APPLICABLE)	17-7 SST	17-7 SST	2205 DUPLEX SST
4	BODY	A351 CF8M	A216 WCB	A182 F51
5	TAILPIECE	A351 CF8M	A216 WCB	A182 F51
6	BODY GASKET	316sst w/ Graphite Filler*	316sst w/ Graphite Filler*	2205sst w/ Graphite Filler*
7	BODY STUD	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8
8	BODY NUT	ATM A194 Gr. 8	ATM A194 Gr. 8	ATM A194 Gr. 8
9	STEM	17-4SST/XM-19*	17-4SST/XM-19*	2205 DUPLEX SST*
10	THRUST WASHER	Nitronic 60/TFE	Nitronic 60/TFE	STELLITE
11	COMPRESSION RING	316 SST	316 SST	2205 DUPLEX SST*
13	COMPRESSION PLATE	316 SST	316 SST	2205 DUPLEX SST*
14B	STEM PACKING	TFE/GRAPHITE	TFE/GRAPHITE	TFE/GRAPHITE
14C	STEM SEAL	VITON/ TFE/ CHEMRAZ	VITON/ TFE/ CHEMRAZ	VITON/ TFE/ CHEMRAZ
15	GLAND STUD	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8
16	GLAND NUT	ATM A194 Gr. 8	ATM A194 Gr. 8	ATM A194 Gr. 8
17	BELLEVILLE WASHER	301 SST	301 SST	301 SST
26	TRUNNION	316SST	316SST	2205 DUPLEX SST
27	TRUNNION BEARING	Nitronic 60/TFE/STELLITE	Nitronic 60/TFE/STELLITE	Nitronic 60/TFE/STELLITE
29	TRUNNION STUD	ASTM A193 B8	ASTM A193 B8	ASTM A193 B8
30	TRUNNION NUT	ATM A194 Gr. 8	ATM A194 Gr. 8	ATM A194 Gr. 8
31	TRUNNION GASKET	316sst w/ Graphite Filler*	316sst w/ Graphite Filler*	2205sst w/ Graphite Filler*
32	TRUNNION SEAL	VITON/ TFE/ CHEMRAZ	VITON/ TFE/ CHEMRAZ	VITON/ TFE/ CHEMRAZ

* Other materials and coatings available upon request

DIMENSIONS



ANSI 600# FULL PORT

SIZE	2	3 4		6	8	10	12	
Α	A 11.50 14.00		17.00	22.00	28.00	31.00	33.00	
ØВ	2.00	3.00	4.00	6.00	8.00	10.00	12.00	
ØR	3.62	5.00	6.19	8.50	10.62	12.75	15.00	
ØS	5.00	6.62	8.50	11.50	13.75	17.00	19.25	
ØF	6.50	8.25	10.75	14.00	16.50	20.00	22.00	
Cv	400	980	1700	5000	9980	14750	20500	
WEIGHT	65	125	215	455	470	790	1355	

ANSI 1500# FULL PORT

SIZE	2	3 4		6	8	10	12	
Α	14.50	18.50	21.50	27.80	32.80	39.00	44.50	
ØВ	2.00	3.00	40.00	6.00	8.00	10.00	12.00	
ØR	3.63	5.00	6.19	8.50	10.63	12.75	15.00	
ØS	6.50	7.50	9.50	12.50	15.50	19.00	22.50	
ØF	8.50	10.50	12.25	15.50	19.00	23.00	26.50	
Cv	370	940	1650	4920	9900	14680	20240	
WEIGHT	130	385	765	15701	2350	3655	4405	

ANSI 900# REDUCED PORT

SIZE	2	3	4	6	8	10	12
Α	A 14.50 15.00		18.00	24.00	29.00	33.00	38.00
ØB 1.50		2.50	3.00	4.00	6.00	8.00	10.00
ØR	3.63	5.00	6.19	8.50	10.63	12.75	15.00
ØS	6.50	7.50	9.25	12.50	15.50	18.50	21.00
ØF	8.50	9.50	11.50	15.00	18.50	21.50	24.00
Cv	385	960	1675	4950	9950	14720	20400
WEIGHT	115	225	515	935	1400	2175	3550

ANSI 900# FULL PORT

SIZE	2	3	4	6	8	10	12
Α	14.50	15.00	18.00	24.00	29.00	33.00	38.00
ØВ	2.00	3.00	4.00	6.00	8.00	10.00	12.00
ØR	3.63	5.00	6.19	8.50	10.63	12.75	15.00
ØS	6.50	7.50	9.25	12.50	15.50	18.50	21.00
ØF	8.50	9.50	11.50	15.00	18.50	21.50	24.00
Cv	385	960	1675	4950	9950	14720	20400
WEIGHT	115	225	515	935	1400	2175	3550

ANSI 600# REDUCED PORT

SIZE	2	3	4	6	8	10	12
Α	11.50	14.00	17.00	22.00	28.00	31.00	33.00
ØВ	1.50	2.50	3.00	4.00	6.00	8.00	10.00
ØR	3.62	5.00	6.19	8.50	10.62	12.75	15.00
ØS	5.00	6.62	8.50	11.50	13.75	17.00	19.25
ØF	6.50	8.25	10.75	14.00	16.50	20.00	22.00
Cv	400	980	1700	5000	9980	14750	20500
WEIGHT	65	125	215	455	470	790	1355

ANSI 1500# REDUCED PORT

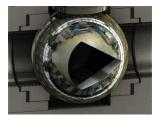
SIZE	2	3	4	6	8	10	12
Α	14.50	18.50	21.50	27.80	32.80	39.00	44.50
ØВ	1.50	2.50	3.00	4.00	6.00	8.00	10.00
ØR	3.63	5.00	6.19	8.50	10.63	12.75	15.00
øs	6.50	7.50	9.50	12.50	15.50	19.00	22.50
ØF	8.50	10.50	12.25	15.50	19.00	23.00	26.50
Cv	370	940	1650	4920	9900	14680	20240
WEIGHT	130	385	765	15701	2350	3655	4405

OTHER BALL DESIGNS AVAILABLE



Patented Phantom Port

- Greatly extends valve life in corrosive applications
- Seat sealing area protected from flow media which adheres to the ball diameter
- Proven to last three times longer than a standard ball in difficult services
- 75% less wear on seats
- Excellent choice for Green and Black Liquor



V Port Control Valve

- •Accurately Cut V-Port For Excellent Control
- •Jarecki's V-Port Design Offers Great Rangeability
- Tight Stem To Ball Contact Provides A Valve With Very Low Hystersis
- •V-Port Ball Design Provides Both Excellent Shut-Off And Control

ORDERING INFORMATION

1/2"		PC	RT SIZE		SEAT		SEAT MATERIAL		BALL	BALI	L COATING	BOD	ργ	-	CLASS	END	CONNECTION
	TV	F	FULL	0	No Seat Seal	А	AlCrN	А	316SST	А	AlCrN	А	CF8M		01 150#	В	RF Flanged
TO		R	REDUCED	1	O SEAT	В	Boronizing	F	Hastelloy	В	Boronizing	В	WCB		03 300#	С	RTJ Flanged
12"				2	G SEAL	С	COLMONOY	G	Incoloy	С	CHROME	Н	Alloy 20		06 600#	D	BUTTWELD
						D	Devlon	Н	Alloy 20	Е	ENP	Х	2205 SST		09 900#		
						G	Graphite	I	Monel	Ι	Ceramic				15 1500#		
						Μ	Tantalum	Х	2205 SST	Μ	Tantalum						
							Chrome Oxide				Chrome Oxide						
						Ν	HARD CARBON			Ν	HARD CARBON						
						Р	PEEK			L	Colmonoy						
						Q	CERAMIC			Q	CERAMIC						
						R	CHROME CARBIDE			R	CHROME CARBIDE						
						S				S	STELLITE						
						Т	TFE			Т	TFE						
						U				U	Micro Tuff™						
						W	TUNGSTEN CARBIDE			w	TUNGSTEN CARBIDE	Ξ					
										0	no coating						
Example:	4" TV Ser	ies, F	ull Port, O-R	ing !	Seat Seals, Stellit	e Seat	s, 316ss Ball with Tungs	ten C	arbide Coat	ing, W	'CB body, 900# Flange	ed RF					
2	- TV		F		1		W		А		W		В	-	09		В



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