

OVC

OHIO VALVE COMPANY



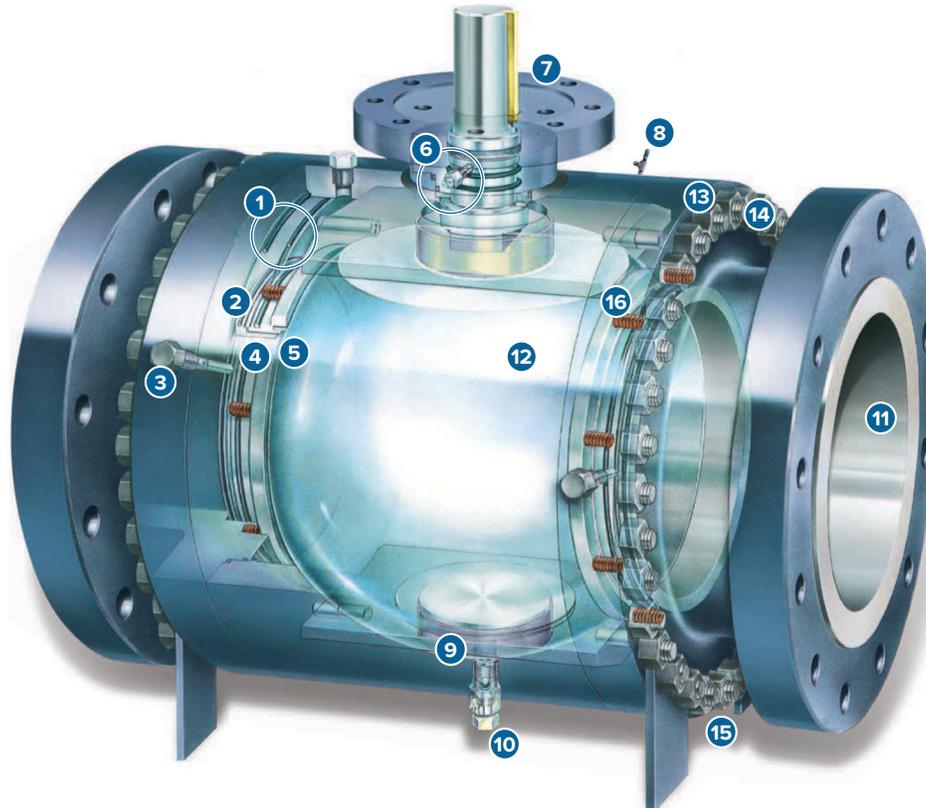
CARBON AND STAINLESS STEEL TRUNNION MOUNTED BALL VALVES

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OVC TRUNNION BALL VALVE INTERNAL ILLUSTRATION



- 1 Double sealing on stem, stem gland, and closure connections.
- 2 Seats insure low and high pressure sealing and body cavity self relief for double block and bleed (DBB)
- 3 Stainless seat injection fitting with internal check valve for emergency sealing
- 4 Seats insure low and high pressure sealing and body cavity self relief for double block and bleed (DBB)
- 5 Standard seat insert materials Devlon®
- 6 Stainless stem injection fitting for secondary sealing

- 7 Large pre-drilled adapter plate for ease in actuation
- 8 Cavity relief valves
- 9 Self-lubrication steel trunnion bearings for smooth operation
- 10 Drain valve for block and bleed function and seat integrity verification
- 11 Bi-directional flow
- 12 Smooth electroless nickel plated or stainless ball for bubble-tight sealing and low operating torque

- 13 Valve serialization provides complete traceability
- 14 Flanged x Flanged, Weld End x Weld End, and Flanged x Weld End body connections
- 15 Serviceable in the field
- 16 Inconel X750® springs

Options available include stem extensions, locking devices, transition pieces and direct mounted actuation. Body and trim materials include A105/A350-LF2, and A182 F316.

ABOUT OVC

OHIO VALVE COMPANY (OVC) was established in 1985 in Ohio to satisfy the need for a high-quality, dependable ball valve line required by Midwestern distribution and end users. Over time, as our customer base grew and requirements expanded, the breath of our product line also evolved into industrial valve product design. Today, OVC is a vertically integrated division within the Texas Pipe Family of Companies, with corporate offices based in Houston, Texas.

Our dedicated team takes great pride in manufacturing the highest-quality designed valves that meet or exceed many industry standards within the upstream, midstream, and gas transmission applications. All valves undergo extensive third-party quality inspection and testing to ensure accuracy to design standards and achieve successful critical testing results each time.

We take enormous pride in every single valve we manufacture.

RESPECTED DESIGN, RELENTLESS PERFORMANCE.™



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PRODUCT RANGE

PRODUCT RANGE: CARBON & STAINLESS STEEL FULL/REDUCED PORT BALL VALVES																	
BODY MATERIAL	CLASS API 6D	PORT	Size (in.)														
			2	3	4	6	8	10	12	14	16	18	20	24	30	36	
Carbon Steel, Stainless Steel, Special	150	Full & Reduced	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	300		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	600		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	900			✓	✓	✓											
	1500		✓	✓	✓	✓											

Sizes and classes not listed are available upon request.

HOW TO ORDER

SPECIFYING OVC SERIES 39 & 29 / 38 & 28 FULL/REDUCED PORT TRUNNION VALVE FIGURE NUMBERS

Sample Valve Figure # 39-F-E-F-D-H-TR-150-FS-L-2

3	9	F	E	F	D	H	TR	150	FS	L	2
PIECE DESIGN	BODY MATERIAL	END CONNECTION	TRIM	PORT CONFIG.	SEAT MATERIAL	SEAL MATERIAL	VALVE TYPE	PRES-SURE CLASS	FIRE TESTED	OPERA-TION	SIZE
2-Piece 3-Piece	9 A105/ LF2	F Flanged	E ENP	F Full Port	G RTFE	B BUNA-N	Trunnion	150	FS Fire Safe with Emergency Grease Seals	L Lever	2" - 36"
	8 A182- 316	WE Butt Weld	6 316	R Reduced Port	T PTFE	E EPDM		300			
		R RTJ			D Devlon®	H HNBR		600		G Gear	
					N Nylon	L Lip Seal		900		B Bare Stem	
					P PEEK	V Viton-GLT		1500			
					X Specials	T PTFE		2500			

OVC CERTIFICATIONS



Certificate of Registration

This is to certify that:
PE ENG Co., Ltd.

Has been assessed by International Certification Registrar Ltd., in respect of their Quality Management Systems and found to comply with

ISO 9001:2015

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope
Design and Manufacture of Valve

Certificate Issue Date : 25th November 2021 Initial Issued Date : 07th December 2018
Expiration Date : 06th December 2024 Certificate No. : Q303818

The Seal of ICR Limited was hereto affixed in the presence of:



President



International Certification Registrar Ltd.



American Petroleum Institute



2018-131 | Digital

Certificate of Authority to use the Official API Monogram
License Number: 6D-2016 ORIGINAL

The American Petroleum Institute hereby grants to
PE ENG CO., LTD

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-6D** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **6D-2016**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.
The scope of this license includes the following: Ball Valves and Gate Valves

QMS Exclusions: Servicing; Customer Property

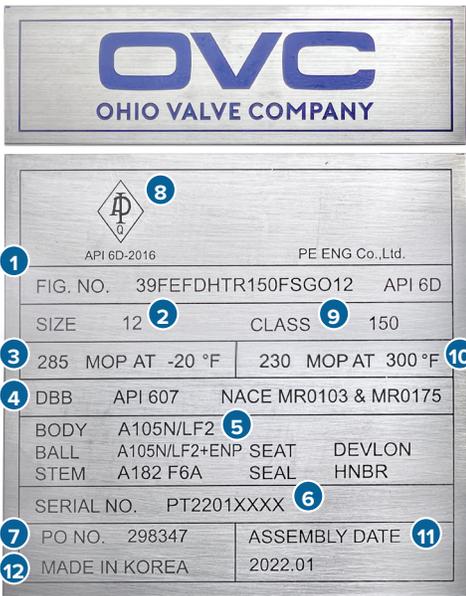
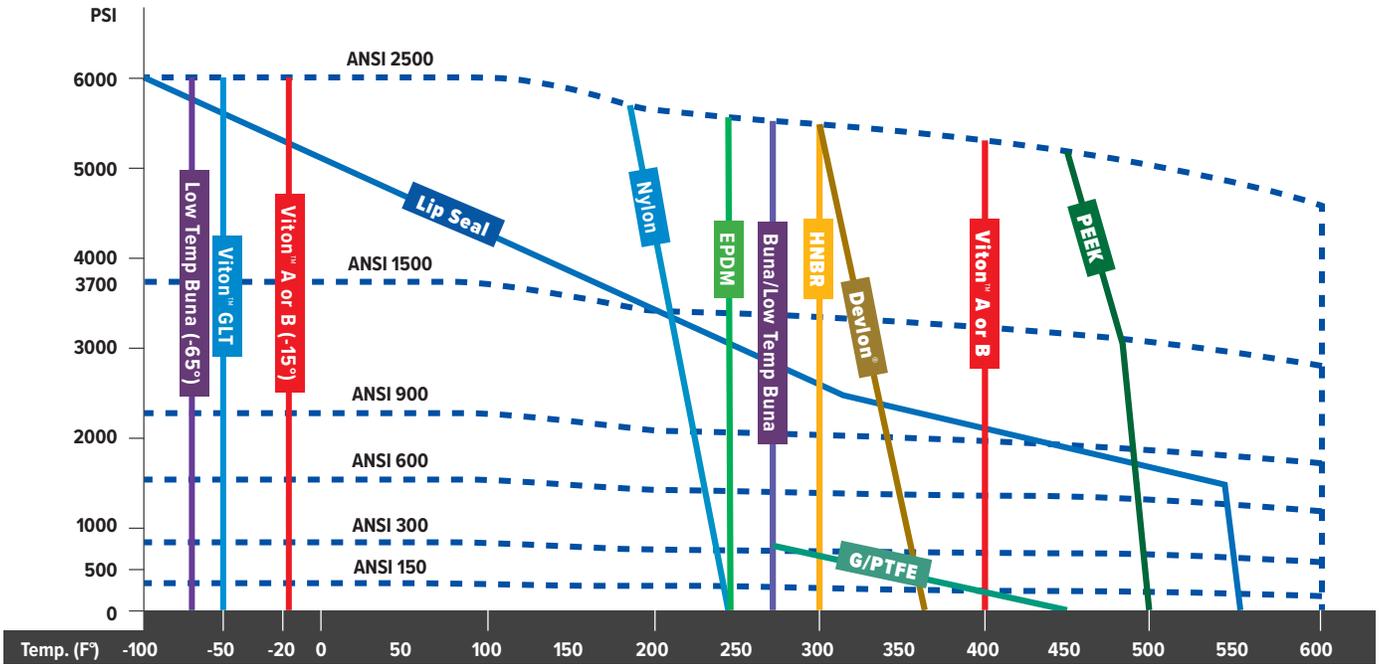
Effective Date: JANUARY 21, 2022
Expiration Date: JANUARY 21, 2025

To verify the authenticity of this license, go to www.api.org/compositelist.



Senior Vice President of Global Industry Services

PRESSURE/TEMPERATURE FOR SEAT AND SEAL MATERIALS



HOW TO READ AN OVC TAG

ITEM	DESCRIPTION
1	Figure number describes valve construction
2	Nominal pipe size (in inches)
3	Max. operating pressure (psi) at min. valve design temperature
4	Valve features double block and bleed (DBB), NACE, and fire safe standards
5	Body and Trim materials
6	OVC Serial Number
7	OVC Manufacturing Order Number
8	API 6D monogram stamp
9	ANSI Pressure Class
10	Max. operating pressure (psi) at max. valve design temperature
11	Date of assembly (YYYY/MM)
12	Country of origin

OVC REPAIR KITS

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

OUR QUALITY COMMITMENT

OVC is dedicated to continually improving our state-of-the-art engineering and manufacturing capabilities to improve the overall quality of our products and customer service. OVC's 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 both industry standards and our internal Quality Management System.

DESIGN FEATURES AND BENEFITS

BODY CONSTRUCTION

The body is made of three forged parts, and the bolted construction allows disassembly in the field for repairs. The body drain is located in the bottom part of the body cavity and consists of a drain plug and vent valve included to bleed pressure from the body cavity. Graphite gaskets are provided for compliance with API 607/ISO and fire safe standards.

STEM CONSTRUCTION

The stem's function is to transmit torque and absorb the line pressure thrust together with the trunnion. The stem has an anti-blowout design and incorporates a double-barrier system. The pressure thrust on the stem is supported by a thrust washer in antifriction material.

SEAT TO BALL SEALING

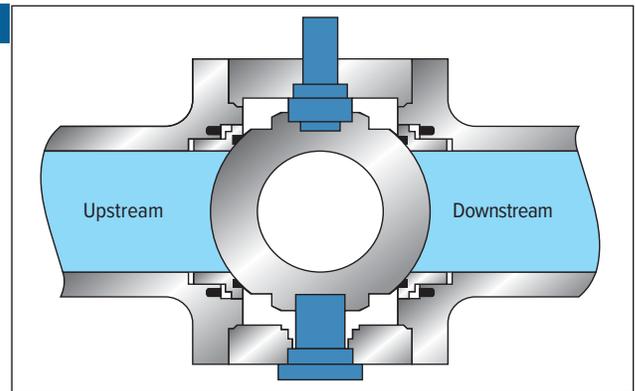
Soft seats are standard. Seat inserts of synthetic material such as RTFE, Devlon[®], and PEEK are contained within a one-piece metal seat ring. With no, or very low, line pressure, sealing between the seats and ball is achieved by the seat springs. As line pressure increases, it begins to work in conjunction with the seat springs to assure the integrity of the seat.

SEAT & SEAL FEATURES

Two different types of seals are used in the seats used to isolate the line pressure from the body cavity. Primary sealing is accomplished by an elastomeric seal such as HNBR or Viton[™]. Explosive Decompression resistant (ED) is good to 5% H₂S application. Secondary fire safe sealing is accomplished by a graphite seal ring.

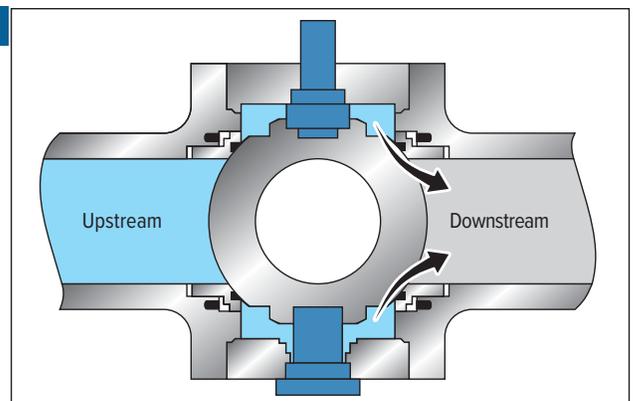
DOUBLE BLOCK AND BLEED (DBB) DESIGN

The trapped cavity pressure can bleed out by vent fitting or drain plug when the valve is in the fully closed position. The fluid is intercepted by seats of upstream and downstream side. Each seat works independently assuring tight seal against ball in both directions.



VALVE CAVITY PRESSURE RELIEF (SELF-RELIEVING SEAT)

This standard feature is designed to prevent excessive pressure buildup within the valve by automatically relieving pressure when body cavity pressure exceeds the spring load on the seats. When a 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 desires to expand and the pressure increases in the area body cavity. In order to avoid excessive pressure buildup, the OVC seats are designed to self-relieve, allowing the pressurized media in the body to escape to the pipeline. This is the self-relieving seat design standard on all OVC trunnion ball valves.

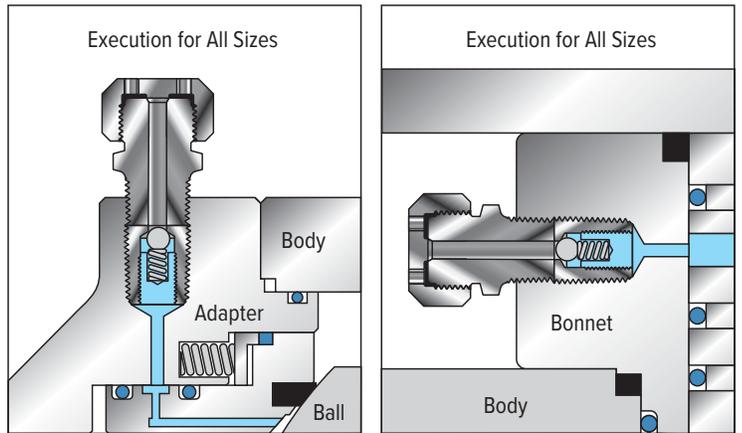


STEM SEALING

The stem is a free member and carries no side thrust. The absence of this side load and friction drag on the stem ensures lower operating torque and long service life. Precision machining of the stem, which is rigidly supported between bearings, combined with hardness control between metallic parts and double O-rings backed up by a secondary graphite seal, ensures reliable operation with the highest levels of sealing integrity.

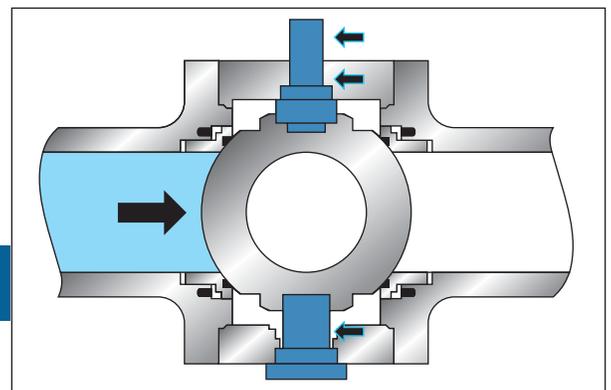
SEAT & STEM EMERGENCY SEALANT INJECTION

Stainless sealing injection fittings are standard on all OVC trunnion ball valves. If the seat ring becomes damaged, this feature provides the user with an easy way to inject an emergency sealant to restore a tight seal. It also allows for the sealing surfaces of the ball and seat to be periodically flushed to clear away any debris that may impair sealing.



DOUBLE SEALS AT ALL JOINTS

All connecting parts employ a double sealing design incorporating a O’ring and graphite/spiral wound 316 SS + Graphite gasket to ensure positive sealing.



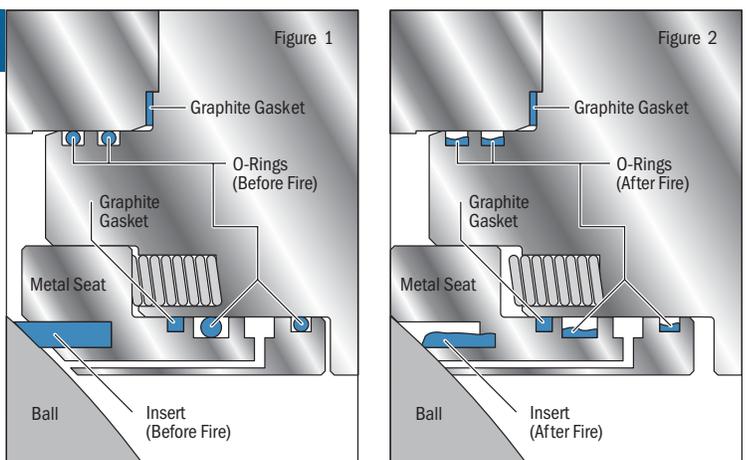
LOW FRICTION STEM / TRUNNION BEARINGS AND THRUST WASHERS

Heavy duty PTFE-lined carbon or stainless steel bearing and thrust washers ensure durable and low torque operation.

FIRE SAFE DESIGN AND API 607/ISO 10497

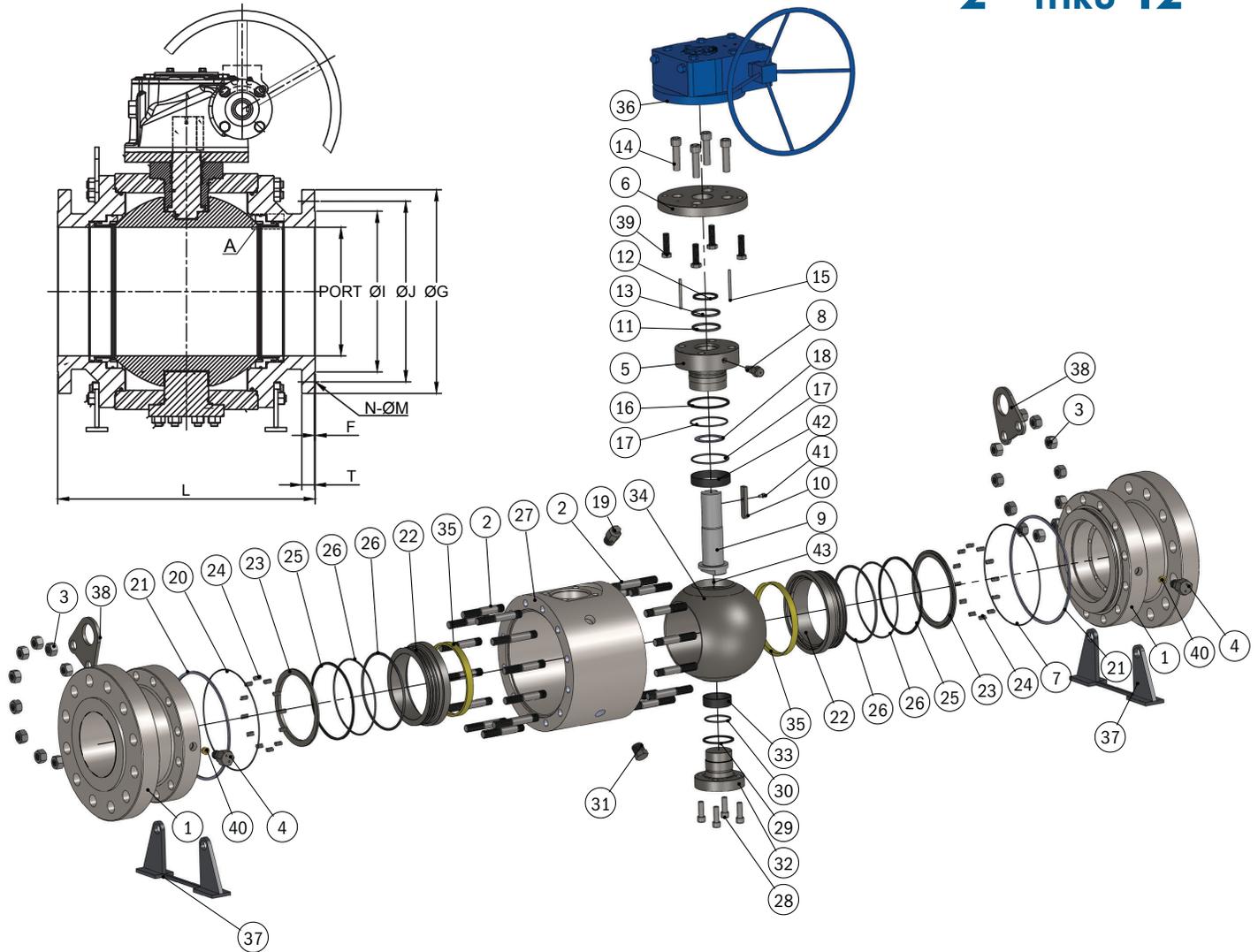
When the seat inserts are softened and burnt in case of fire or unusual temperature increase, the seat retainer, under the duty of the spring, will touch with the ball and form a metal-to-metal contact, which can prevent internal leaks.

Meanwhile, the middle flange and the upper and lower parts of the stem will form a metal-to-metal contact which can prevent external leaks and conforms to API 607/ISO 10497.



3-PIECE FORGED TRUNNION

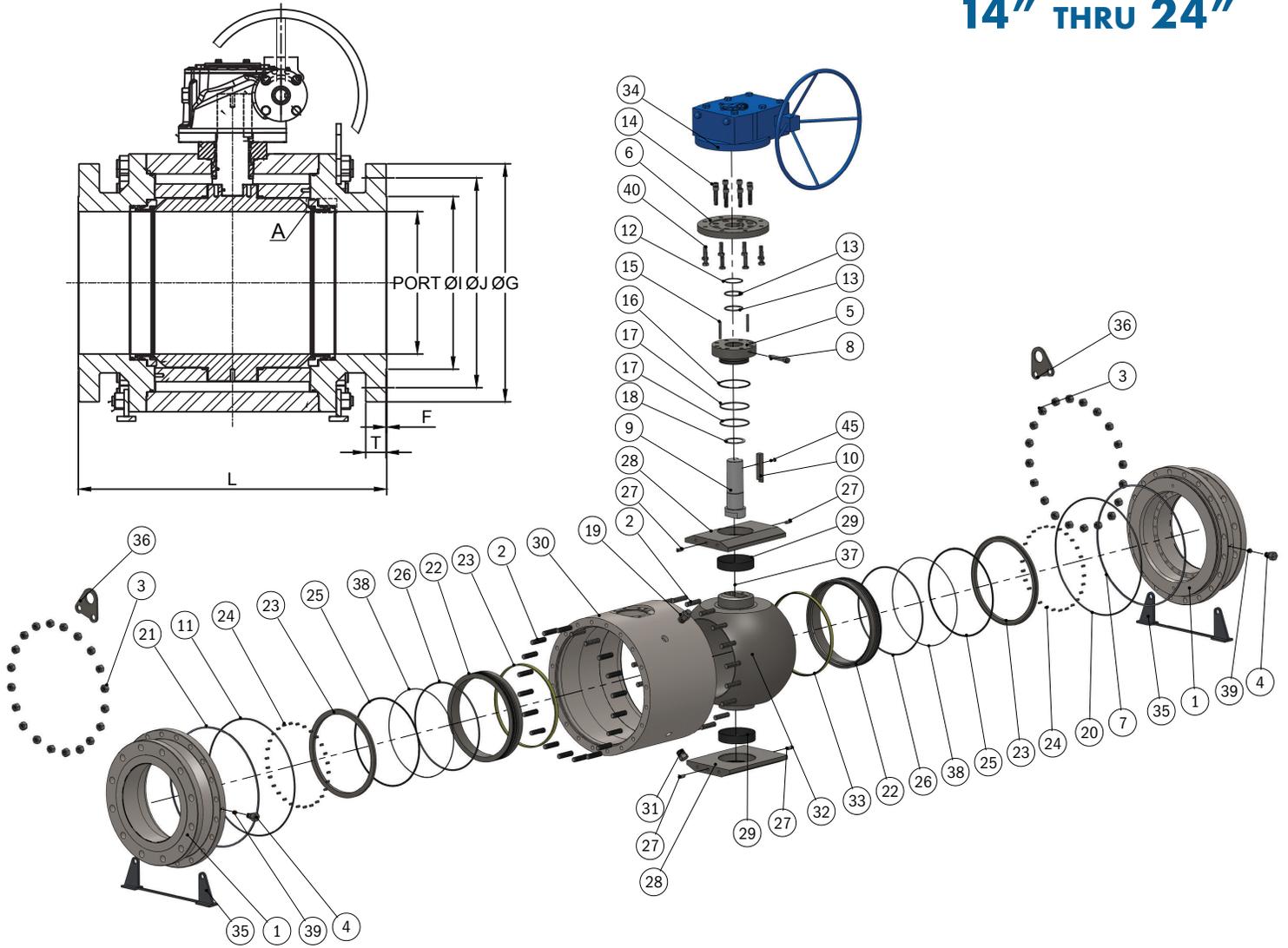
2" THRU 12"



EXPLODED VIEW MATERIAL LIST: 6" THRU 12" SIZES

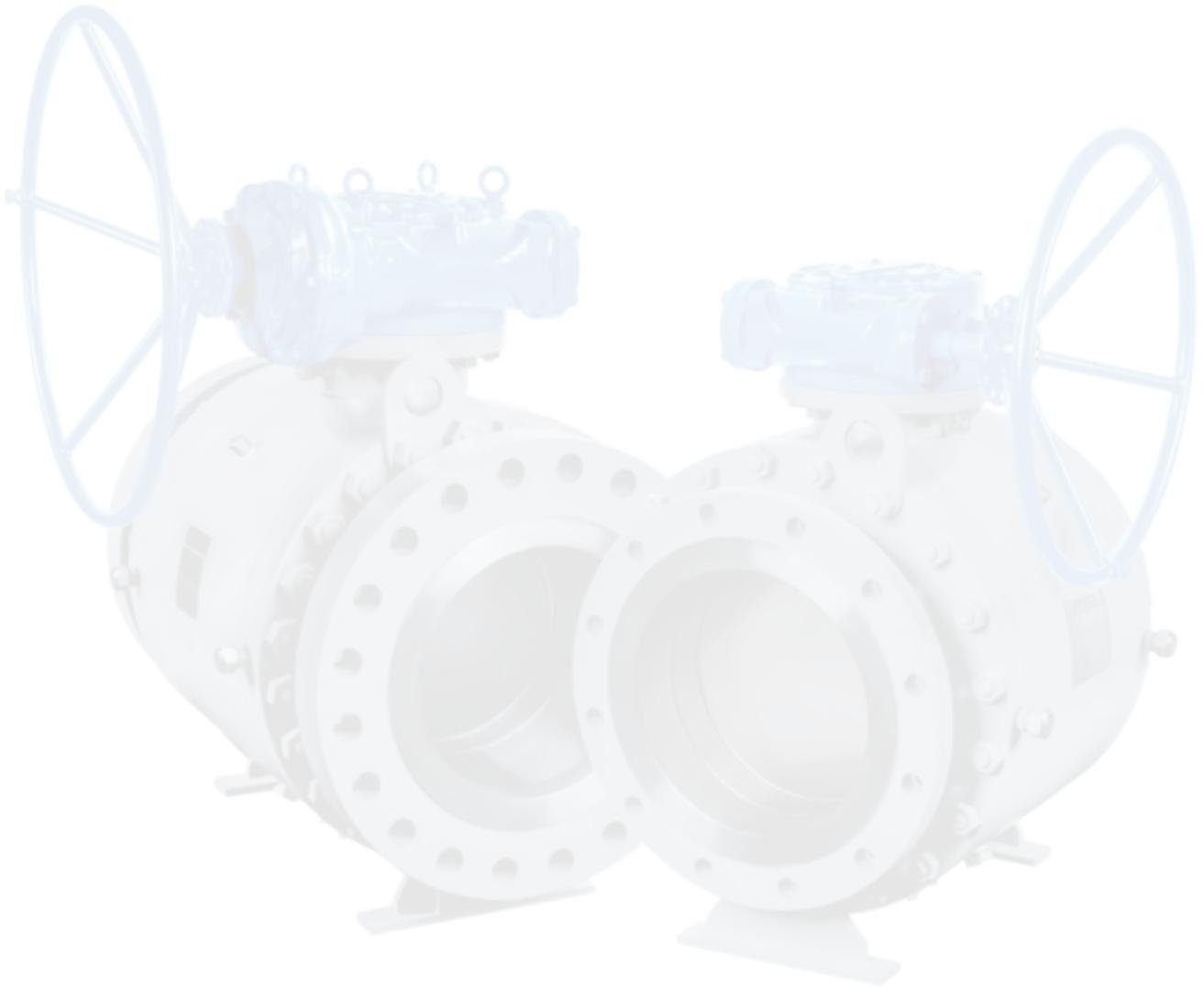
No.	Part Name	No.	Part Name	No.	Part Name	No.	Part Name
1	BODY CLOSURE	11	O-RING	22	SEAT RETAINER	33	BEARING
2	BOLT	12	GASKET	23	SPRING HOLDER	34	BALL
3	NUT	13	O-RING	24	SPRING	35	SEAT INSERT
4	INJECTION FITTINGS	14	BOLT	25	GASKET	36	WORM GEAR BOX
5	GLAND	15	PIN	26	O-RING	37	BOTTOM LEG SUPPORT
6	MOUNTING PLATE	16	GASKET	27	BODY	38	LIFTING LUG PLATES
7	O-RING	17	O-RING	28	BOLT	39	BOLT
8	INJECTION FITTINGS	18	WASHER	29	GASKET	40	CHECK VALVE
9	STEM	19	VENT VALVE	30	O-RING	41	BOLT
10	KEY	20	O-RING	31	DRAIN PLUG	42	BEARING
		21	GASKET	32	TRUNNION	43	ANTISTATIC DEVICE

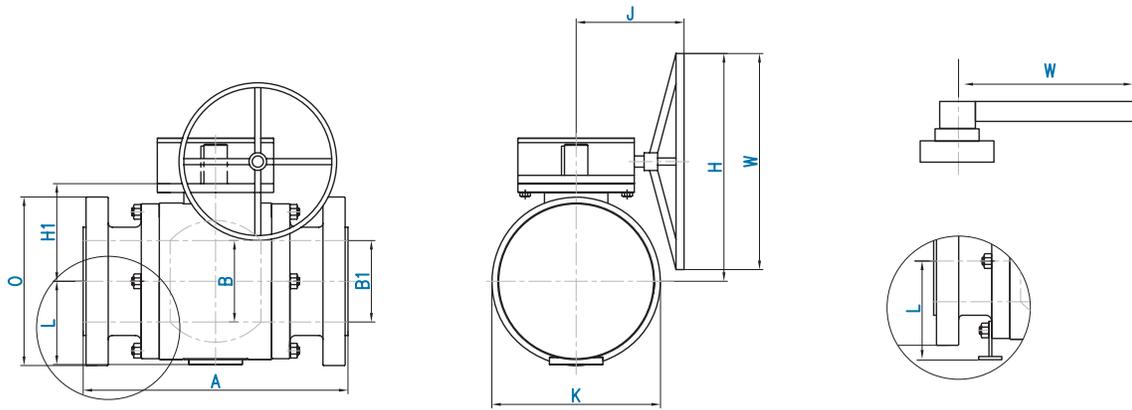
14" THRU 24"



EXPLODED VIEW MATERIAL LIST: 14" THRU 24" SIZES

No.	Part Name	No.	Part Name	No.	Part Name	No.	Part Name
1	BODY CLOSURE	11	O-RING	21	GASKET	31	DRAIN PLUG
2	BOLT	12	GASKET	22	SEAT RETAINER	32	BALL
3	NUT	13	O-RING	23	SPRING HOLDER	33	SEAT INSERT
4	INJECTION FITTINGS	14	BOLT	24	SPRING	34	WORM GEAR BOX
5	GLAND	15	PIN	25	GASKET	35	BOTTOM LEG SUPPORT
6	MOUNTING PLATE	16	GASKET	26	O-RING	36	LIFTING LUG PLATES
7	O-RING	17	O-RING	27	PIN	37	ANTISTATIC DEVICE
8	INJECTION FITTINGS	18	WASHER	28	SUPPORT PLATE	38	O-RING
9	STEM	19	VENT VALVE	29	BEARING	39	CHECK VALVE
10	KEY	20	O-RING	30	BODY	40	BOLT

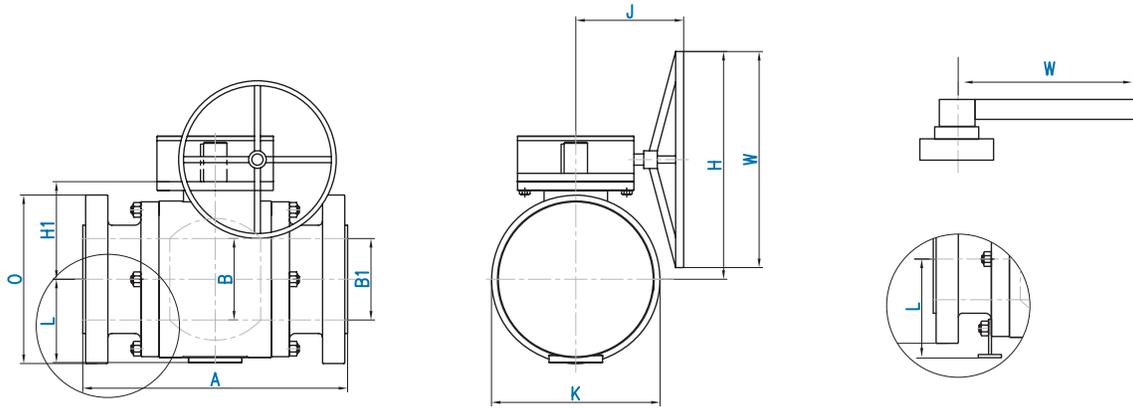




CLASS 150 – DIMENSIONS

SIZE	A			B	B1	O	H1	L	K	H	J	W	WEIGHT (LBS)
	RF	RTJ	WE										RF/RTJ
2x1.5"	7.00	7.50	8.50	1.50	2.01	6.00	4.37	3.89	6.00	7.2	-	9.9	-
2"	7.00	7.50	8.50	2.01	2.01	6.00	4.52	3.97	6.00	7.91	-	9.9	50
3x2"	8.00	8.50	11.12	2.01	3.03	7.50	4.52	3.97	7.50	7.91	-	9.9	-
3"	8.00	8.50	11.12	3.03	3.03	7.50	5.35	4.68	7.50	8.74	-	9.9	80
4x3"	9.00	9.50	12.00	3.03	4.02	9.00	5.35	4.68	9.00	8.74	-	9.9	-
4"	9.00	9.50	12.00	4.02	4.02	9.00	6.36	5.59	9.06	10.35	-	13.8	123
6x4"	15.50	16.00	18.00	4.02	5.99	11.00	6.36	5.59	11.00	10.35	-	13.8	-
6"	15.50	16.00	18.00	5.99	5.99	11.00	8.43	8.18	12.44	17.53	9.45	13.8	398
8x6"	18.00	18.50	20.50	5.99	7.99	13.50	8.43	8.18	13.50	17.53	9.45	13.8	-
8"	18.00	18.50	20.50	7.99	7.99	13.50	10.06	9.76	15.35	19.19	14.56	13.8	563
10x8"	21.00	21.50	22.00	7.99	10.00	16.00	10.06	9.76	16.00	21.34	14.56	18.1	-
10"	21.00	21.50	22.00	10.00	10.00	16.00	11.30	11.22	18.50	22.56	15.83	18.1	901
12x10"	24.00	24.50	25.00	10.00	12.01	19.00	11.30	11.22	19.00	25.31	15.83	23.6	-
12"	24.00	24.50	25.00	12.01	12.01	19.00	12.83	12.36	21.18	26.85	15.83	23.6	1420
14x12"	27.00	27.50	30.00	12.01	13.27	21.00	12.83	12.36	21.18	26.85	15.83	23.6	-
14"	27.00	27.50	30.00	13.27	13.27	21.00	13.78	12.59	23.23	32.52	21.38	23.6	1900
16x14"	30.00	30.50	33.00	13.27	15.24	23.50	13.78	12.69	23.50	35.47	21.38	29.5	-
16"	30.00	30.50	33.00	15.24	15.24	23.50	15.78	15.15	26.77	37.48	21.38	29.5	2510
18x16"	34.00	34.50	36.00	15.24	17.25	25.00	15.78	15.15	26.77	37.48	21.38	29.5	-
18"	34.00	34.50	36.00	17.25	17.25	25.00	17.20	16.53	29.53	39.00	21.38	29.5	3500
20x18"	36.00	36.50	39.00	17.25	19.25	27.50	17.20	16.53	29.53	39.00	21.38	29.5	-
20"	36.00	36.50	39.00	19.25	19.25	27.50	18.82	18.14	32.76	40.51	21.38	29.5	4305
24x20"	42.00	42.50	45.00	19.25	23.27	32.00	18.82	18.14	32.76	40.51	21.38	29.5	-
24"	42.00	42.50	45.00	23.27	23.27	32.00	22.32	21.45	39.37	43.97	25.27	29.5	7425

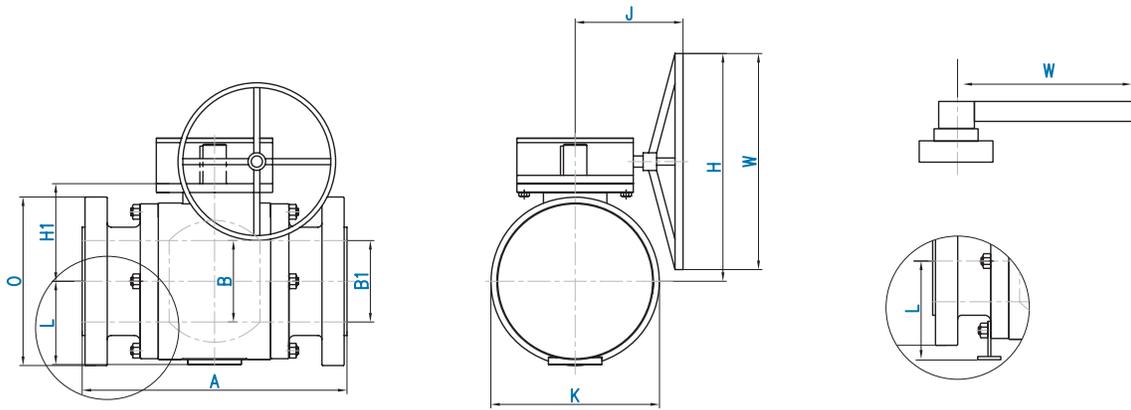
Lever operator for 4" and below, Worm Gear Box for 6" and above.



CLASS 300 – DIMENSIONS

SIZE	A			B	B1	O	H1	L	K	H	J	W	WEIGHT (LBS)
	RF	RTJ	WE										RF/RTJ
2x1.5"	8.50	9.12	8.50	1.50	2.01	6.50	4.37	3.89	6.50	7.20	-	9.90	-
2"	8.50	9.12	8.50	2.01	2.01	6.50	4.52	3.97	6.50	7.91	-	9.90	60
3x2"	11.12	11.74	11.12	2.01	3.03	8.25	4.52	3.97	8.25	7.91	-	9.90	-
3"	11.12	11.74	11.12	3.03	3.03	8.25	5.35	4.68	8.25	8.74	-	9.90	110
4x3"	12.00	12.62	12.00	3.03	4.02	10.00	5.35	4.68	10.00	8.74	-	9.90	-
4"	12.00	12.62	12.00	4.02	4.02	10.00	6.36	5.59	10.00	10.35	-	13.80	160
6x4"	15.88	16.50	18.00	4.02	5.99	12.50	6.36	5.59	12.50	10.35	-	13.80	-
6"	15.88	16.50	18.00	5.99	5.99	12.50	8.43	8.18	12.50	17.53	9.45	13.80	550
8x6"	19.75	20.37	20.50	5.99	7.99	15.00	8.43	8.26	15.00	19.68	9.45	18.10	-
8"	19.75	20.37	20.50	7.99	7.99	15.00	10.06	9.76	15.35	21.34	14.56	18.10	720
10x8"	22.38	23.00	22.00	7.99	10.00	17.50	10.06	9.76	17.50	21.34	14.56	18.10	-
10"	22.38	23.00	22.00	10.00	10.00	17.50	11.30	11.22	18.50	22.56	15.83	18.10	1200
12x10"	25.50	26.12	25.00	10.00	12.01	20.50	11.30	11.22	20.50	25.31	15.83	23.60	-
12"	25.50	26.12	25.00	12.01	12.01	20.50	12.83	12.36	21.18	29.17	20.47	23.60	1900
14x12"	30.00	30.62	30.00	12.01	13.27	23.00	12.83	12.36	23.00	29.17	20.47	23.60	-
14"	30.00	30.62	30.00	13.27	13.27	23.00	13.78	12.59	23.23	35.47	21.38	29.50	-
16x14"	33.00	33.62	33.00	13.27	15.24	25.50	13.78	13.80	25.50	35.47	21.38	29.50	-
16"	33.00	33.62	33.00	15.24	15.24	25.50	15.78	15.15	26.77	37.48	21.38	29.50	-
18x16"	36.00	36.62	36.00	15.24	17.25	28.00	15.78	15.15	28.00	37.48	21.38	29.50	-
18"	36.00	36.62	36.00	17.25	17.25	28.00	17.20	16.53	29.53	39.00	21.38	29.50	-
20x18"	39.00	39.75	39.00	17.25	19.25	30.50	17.20	16.53	30.50	39.00	21.38	29.50	-
20"	39.00	39.75	39.00	19.25	19.25	30.50	18.82	18.14	32.76	40.51	21.38	29.50	-
24x20"	45.00	45.88	45.00	19.25	23.27	36.00	18.82	18.99	36.00	40.51	21.38	29.50	-
24"	45.00	45.88	45.00	23.27	23.27	36.00	22.32	21.55	39.57	41.06	25.27	29.50	-

Lever operator for 4" and below, Worm Gear Box for 6" and above.



CLASS 600 – DIMENSIONS

SIZE	A			B	B1	O	H1	L	K	H	J	W	WEIGHT (LBS)
	RF	RTJ	WE										RF/RTJ
2x1.5"	11.50	11.62	11.50	1.50	2.01	6.50	4.37	3.89	6.50	7.20	-	9.90	-
2"	11.50	11.62	11.50	2.01	2.01	6.50	4.53	3.97	6.50	7.91	-	9.90	73
3x2"	14.00	14.12	14.00	2.01	3.03	8.25	4.53	3.97	8.25	7.91	-	9.90	-
3"	14.00	14.12	14.00	3.03	3.03	8.25	5.83	4.88	8.25	9.64	-	13.80	150
4x3"	17.00	17.12	17.00	3.03	4.02	10.75	5.83	4.88	10.75	9.64	-	13.80	-
4"	17.00	17.12	17.00	4.02	4.02	10.75	6.48	5.94	10.75	10.23	-	13.80	244
6x4"	22.00	22.12	22.00	4.02	5.99	14.00	6.48	5.94	14.00	10.23	-	13.80	-
6"	22.00	22.12	22.00	5.99	5.99	14.00	8.43	8.18	14.00	19.68	9.45	18.10	631
8x6"	26.00	26.12	26.00	5.99	7.99	16.50	8.43	9.08	16.50	19.68	9.45	18.10	-
8"	26.00	26.12	26.00	7.99	7.99	16.50	9.78	9.76	16.50	23.81	15.83	23.60	839
10x8"	31.00	31.12	31.00	7.99	10.00	20.00	9.78	10.82	20.00	23.81	15.83	23.60	-
10"	31.00	31.12	31.00	10.00	10.00	20.00	11.61	11.49	20.00	27.95	20.47	23.60	1507
12x10"	33.00	33.12	33.00	10.00	12.01	22.00	11.61	11.81	22.00	27.95	20.47	23.60	-
12"	33.00	33.12	33.00	12.01	12.01	22.00	13.23	12.75	22.00	34.92	21.38	29.50	2347
14x12"	35.00	35.12	35.00	12.01	13.27	23.75	13.23	12.75	23.75	34.92	21.38	29.50	-
14"	35.00	35.12	35.00	13.27	13.27	23.75	14.37	13.11	24.21	36.06	21.38	29.50	3000
16x14"	39.00	39.12	39.00	13.27	15.24	27.00	14.37	14.50	27.00	36.06	21.38	29.50	-
16"	39.00	39.12	39.00	15.24	15.24	27.00	16.04	15.47	27.36	37.71	21.38	29.50	3981
18x16"	43.00	43.12	43.00	15.24	17.25	29.25	16.04	15.64	29.25	37.71	21.38	29.50	-
18"	43.00	43.12	43.00	17.25	17.25	29.25	17.83	17.12	30.71	39.56	21.38	29.50	5600
20x18"	47.00	47.25	47.00	17.25	19.25	32.00	17.83	17.12	32.00	39.56	21.38	29.50	-
20"	47.00	47.25	47.00	19.25	19.25	32.00	19.69	18.70	33.86	38.43	25.27	29.50	6923
24x20"	55.00	55.38	55.00	19.25	23.27	37.00	19.69	19.49	37.00	38.43	25.27	29.50	-
24"	55.00	55.38	55.00	23.27	23.27	37.00	22.93	22.05	40.55	41.70	25.27	29.50	12760

Lever operator for 3" and below, Worm Gear Box for 6" and above.

GENERAL OVC DRAWING

Fig No. 39F6FDHTR600FSGO

RATINGS
 1480 PSIG @100F WATER, OIL, GAS
 80 PSIG SATURATED STEAM

DIMENSIONS

NPS	PORT	L	A	ØE	H	H1	H2	ØI	ØJ	ØG	T	F	N	ØM	ISO FLANGE	Weight lbs	Torque (ft.in)	Cv
6	6.00	22.00	13.40	27.56	9.06	8.34	11.70	8.50	11.50	14.00	1.88	0.25	12	1 1/8	F20	631	8870	4394
8	8.00	26.00	14.64	27.56	10.28	9.17	13.60	10.62	13.75	16.50	2.19	0.25	12	1 1/4	F25	839	15469	7797
10	10.00	31.00	14.64	27.56	12.55	11.90	15.82	12.75	17.00	20.00	2.50	0.25	16	1 3/8	F25	1507	26299	12207
12	12.00	33.00	14.64	27.56	14.55	13.70	17.82	15.00	19.25	22.00	2.62	0.25	20	1 3/8	F25	2347	41788	17600

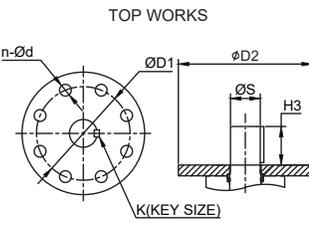
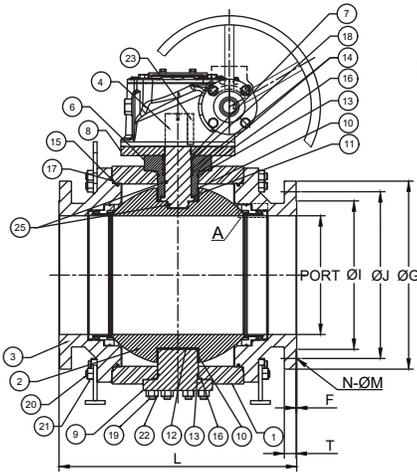
Unit: Inch

BODY MARK
 OVC
 NAMEPLATE
 6
 600
 A105N/LF2
Heat No. Serial No.

APPLICABLE STANDARDS:
 Ball Valve: API 6D, ASME B16.34
 Face to Face: ASME B16.10
 End Flanges: ASME B16.5
 Fire Safe Test: API 607
 DBB TEST : API 6D
 NACE MR0103 & MR0175
 Low Emission: API 622-100 ppm
 Treadit 2236

TEST PRESSURE:
 Test Inspection Per API 6D
 Shell (by Water): 2225 Psig
 Seat (by Water): 1630 Psig
 (by Air): 80 Psig

NOTES:
 MOP at 300 °F: 1310 psig
 MOP at -20 °F: 1480 psig

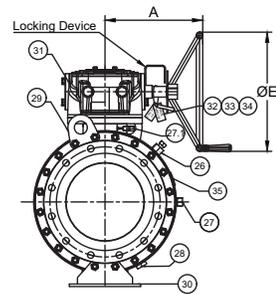
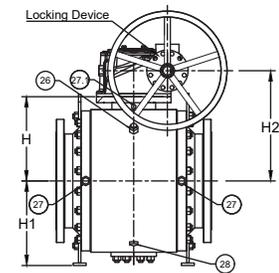
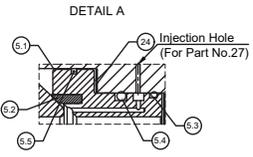


NPS	ISO FLANGE	ØD2	ØD1	n-Ød	ØS	ØH3	K (mm)
6	F20	10.04	8.07	8-Ø.71	2.185	2.16	18x10
8	F20	10.04	8.07	8-Ø.71	2.559	3.00	18x11
10	F25	11.81	10.00	8-Ø.71	2.952	3.01	20x12
12	F25	11.81	10.00	8-Ø.71	3.346	3.48	22x14



API 6D-2010 PE ENG. CO. Ltd

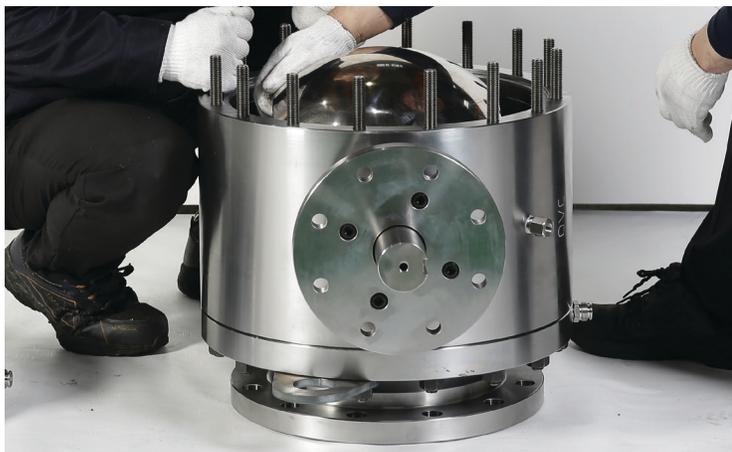
FIG. NO.	39F6FDHTR600FSGO5	API 6D
SIZE	6	CLASS 600
1480 MOP AT -20 °F	1310 MOP AT 300 °F	
DBB	API 607	NACE MR0103 & MR0175
BODY	A105N/LF2	
BALL	A182 F316	SEAT DEVLON
STEM	A276 316	SEAL HNB
SERIAL NO.		
PO NO.		MANUFACTURE DATE
MADE IN KOREA		



MATERIALS LIST

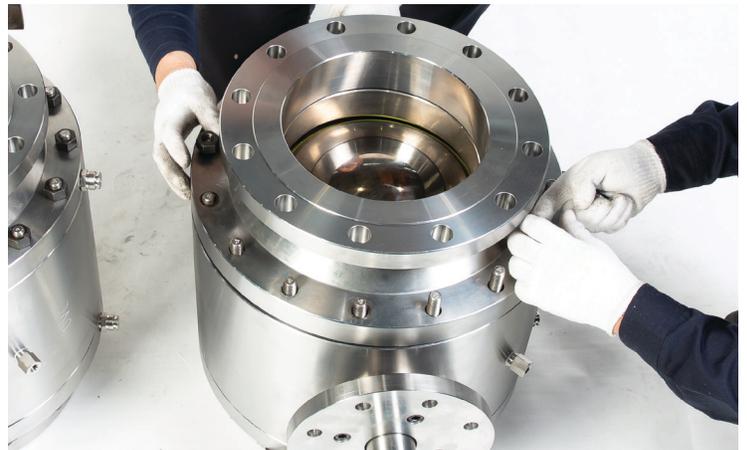
NO.	PART NAME	MATERIAL	REMARK
1	BODY	ASTM A105N/LF2	
2	BALL	ASTM A182 Gr. F316	
3	CLOSURE	ASTM A105N/LF2	
4	STEM	ASTM A276 Gr. 316	
5.1	RETAINER	ASTM A182 Gr. F316	
5.2	SEAT	DEVLON	
5.3	O-RING	HNB	90-DR
5.4	O-RING	HNB	90-DR
5.5	RETAINER SEAT	GRAPHITE	
6	GLAND	ASTM A105N/LF2+ENP	Min. Thickness:3mil
7	GLAND RING	ASTM A276 Gr. 316	
8	MOUNTING PLATE	ASTM A105N/LF2	
9	TRUNNION	ASTM A105N/LF2+ENP	Min. Thickness:3mil
10	BEARING	COMMERCIAL	Teflon Coating
11	THRUST WASHER	316SS+PTFE	
12	TRUNNION BEARING	316SS+PTFE	
13	O-RING	HNB	90-DR
14	O-RING	HNB	90-DR
15	O-RING	HNB	90-DR
16	GASKET	316SS+GRAPHITE SW	
17	GASKET	316SS+GRAPHITE SW	
18	PACKING	Treadit 2236+Expanded Graphite	
19	STUD	ASTM A193 Gr. B7M	
20	STUD	ASTM A193 Gr. B7M	
21	HVY HEX NUT	ASTM A194 Gr. 2HM	
22	HVY HEX NUT	ASTM A194 Gr. 2HM	
23	KEY	AISI 1045	
24	SPRING	INCONEL X-750	
25	ANTI-STATIC	ASTM A276 Gr. 316L	
26	VENT FITTING	ASTM A276 Gr. 316	
27	GREASE FITTING	ASTM A276 Gr. 316	
27.1	GREASE FITTING	ASTM A276 Gr. 316	
28	DRAIN PLUG	ASTM A276 Gr. 316	
29	LIFT PLATE	ASTM A36	
30	FOOT PLATE	ASTM A36	
31	GEAR BOX	ASTM A536	
32	NACE TAG	PVC	
33	FIRE SAFE TAG	PVC	
34	LOW EMISSION TAG	SS	
35	NAMEPLATE	SS	

FIG NO:	A105N/LF2 CARBON STEEL		
	FP TRUNNION BALL VALVE		
	FLANGE END ANSI CLASS 600		
39F6FDHTR600FSGO	PE	03/29/2022	PE
DRAWN BY:	TH KUO	03/29/2022	UNIT: inch
CHECK BY:	Discianno	03/29/2022	REV: 01
APPROVED BY:			



GENERAL OVC MTR

		OHIO VALVE COMPANY MATERIAL TEST REPORT 2750 Holmes Road Houston, Texas 77051 (CHEMICAL, PHYSICAL & HYDROSTATIC) EN 10204: 2004 Type 3.1																						
		We hereby certify that the material described has been made and inspected in accordance with the specifications and requirements called for by the specified order.																						
Page No.:	X/X	Date:						XXX																
Order No.:	XXXXX	Article:			XXXXX			Country of Origin:				Korea												
Figure No.:	XXXXX	Size:		XX		Class:		XXX		Quantity:			XXX											
Valve Specifications																								
Design	API 6D	Pressure Test			API 6D		Visual Test		N/A		Face to Face		ASME B16.10											
End Con.	Parts Material Type																							
R.F.	Ball	Body	Closure	Gland	Seat Ring	Seat	Seal	Stem	Trunnion	Bolts & Nuts														
ASME B16.5																								
Test Result	Shell:	XXXXX	psi	Seat:	XXXXX	psi	Seat Air:	XXXXX	psi	DBB:	XXXXX	psi	DBB Air:	XXXXX	psi									
Pass	x min	XXXXX	kPa	x min	XXXXX	kPa	x min	XXXXX	kPa	x min	XXXXX	kPa	x min	XXXXX	kPa									
Serial No.	Part Name	Chemical Components (%)										Mechanical Properties												
		Heat No.	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Tensile [ksi] [MPa]	Yield [ksi] [MPa]	Elo [%]	RA [%]	HD [HB]	Ch.1 lbs-ft [J]	Ch.2 lbs-ft [J]	Ch.3 lbs-ft [J]	Ch.A lbs-ft [J]	Temp [F] [C]		
XXXXXXX	BALL																							
	BODY																							
	CLOSURE																							
	CLOSURE																							
	GLAND																							
	SEAT RING																							
	SEAT RING																							
	STEM																							
TRUNNION																								
Remarks: VALVES TESTED PER API 6D IN ACCORDANCE WITH EN 10204.3.1 HEAT TREATMENT: A105/LF2 XXXX, XXXX°C XXHr XXMin (XX) MATERIAL COMPLIES TO NACE MR0103 & NACE MR0175																								
												Certified by Manager, Q.A Department : Witness Inspector :												



OVC

OHIO VALVE COMPANY



CARBON AND STAINLESS STEEL TRUNNION MOUNTED BALL VALVES

888.433.1433

OHIOVALVE.COM

SALES@OHIOVALVE.COM

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