

FULLY WELDED VALVES

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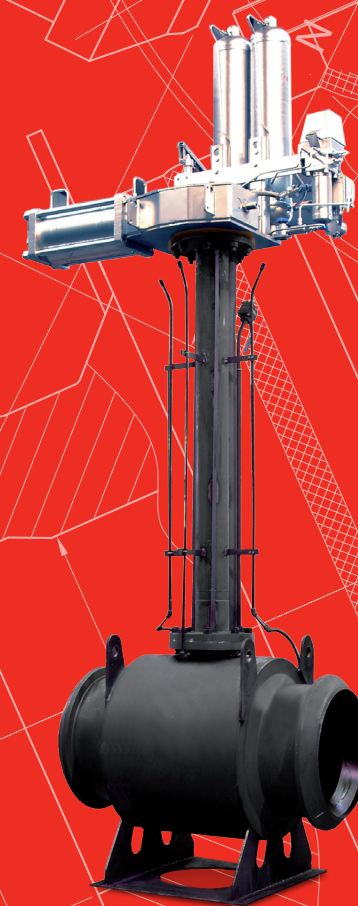


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FULLY WELDED VALVES

JC
VALVES
The quality option





MORE PRODUCTS



GATE, GLOBE & CHECK VALVES - BALL VALVES - STRAINERS

ACCESSORIES



CHAIN WHEELS - GEAR OPERATORS - ELECTRIC ACTUATORS - POSITION INDICATORS
LOCKING DEVICES - LANTERN RINGS - LIMIT SWITCHES - BYPASSES - DAMPERS



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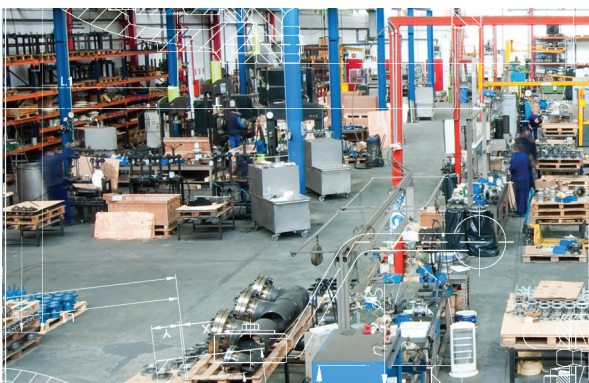
FULLY WELDED VALVES
Full Bore

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FULLY WELDED VALVES
Reduced Bore



The quality option



*"We make valves
since 1968"*

JC Fábrica de Válvulas S.A., established in 1968, is a multinational company specialised in the manufacture and sale of high quality industrial valves.

The expertise and know how acquired over the years coupled with the continued investments in the design of valves, has made JC a world renowned company in the field of valve applications.

» JC World Wide

JC Valves provides world wide coverage thanks to the strategic locations of its factories and offices:



» Market sectors

JC develops and designs valves for all applications, but the main focus is in Oil & Gas, Chemical, Petrochemical, Pulp & Paper and Energy sectors.



Oil



Chemical



Gas



Pulp & Paper



Petrochemical



Energy





» Quality assurance

JC Valves are designed and produced to meet the major international standards and we take great care and put a lot of emphasis on **QUALITY**, which provides our customers with a total guarantee and trouble free operation of their process. And in addition, we take great care to make our facilities and our products Environment friendly.

» Global services

JC Fábrica de Válvulas S.A. offers its customers a worldwide service, from technical advice to choose the right valve up to the design and manufacture of custom built valves to meet special service requirements.

Our R+D department is always ready to find solutions for severe applications and our global distribution network offers quick availability of JC valves and an efficient after sales service.

GLOBAL SERVICE

TECHNICAL SUPPORT



DESIGN



MANUFACTURE



WORLDWIDE DISTRIBUTION



AFTER-SALES SERVICE



JC Quality Assurance System

- » ISO 9001 : 2008 certified by BVQI
- » API Q1 certified by the AMERICAN PETROLEUM INSTITUTE
- » PED 97 / 23 / EC certified by BVQI

Manufacturing Program

- » API 6D certified by the AMERICAN PETROLEUM INSTITUTE
- » CE Marking (Module H1) in accordance with PED 97 / 23 / EC certified by BVQI
- » Fire Safe ISO 10947 : 2004 certified by SGS
- » API 607 3rd., 4th. and 5th. Edition certified by SGS
- » BS 6755 Part 2 certified by Lloyd's Register and SGS
- » GOST "R" certified for Russian market
- » SIL 3 (Safety integrity level) certified by BV
- » Atex
- » EN 13774
- » TA-LUFT

Environmental Certifications

- » ISO 14001 : 2004 certified by BVQI
- » ISO-EN 15848-1 certified by SGS

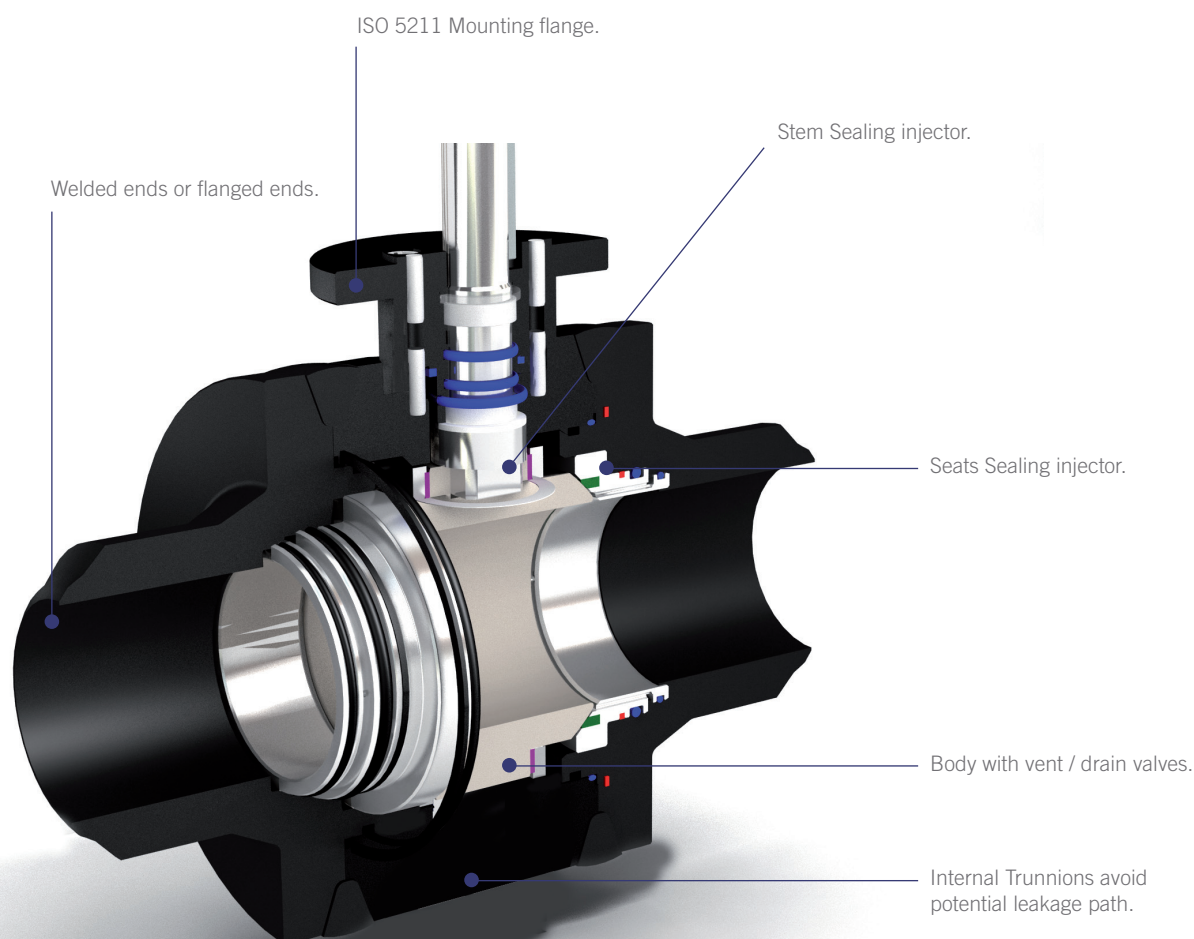


FULLY WELDED VALVES

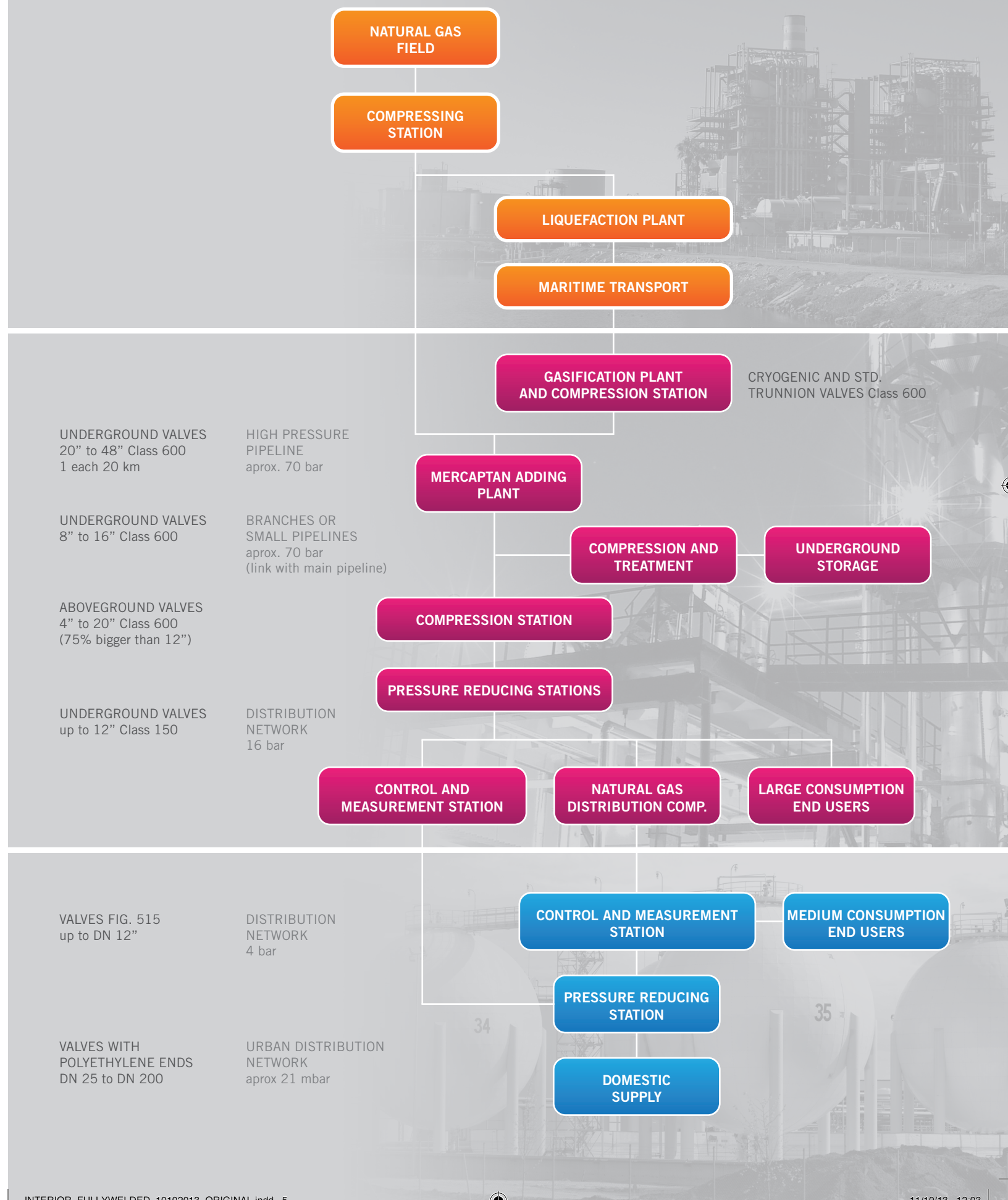
2" - 24" | Class 150 - Class 600

The JC Fully Welded Ball Valve gives it maximum strength at minimum weight as well as maximum resistance both to pipeline pressures and stresses. The compact, spherical design also eliminates body flanges, thus reducing overall size and leak paths.

JC welded body ball valves are used mainly in Gas transmission and distribution pipeline (Mid-stream), typical for underground and buried installation.



JC BALL VALVES FOR GAS DISTRIBUTION LINES



VALVES FOR UNDERGROUND PIPELINES

Trunnion mounted ball valves

The ball is fixed and the seat rings are floating, free to move along the valve axis. Side load generated by pressure acting on the ball is absorbed by bearings. At low pressure the seat sealing acting is achieved by the thrust of the springs acting on the seat. As the pressure increases the fluid pressure pushes the seat rings against the ball, making the sealing more reliable.

Independent ball and stem

The ball and stem are independent components to minimize the effect of the side thrust generated by the pressure acting on the ball to minimize the valve operation torque.

Anti-static design

The electrical conductance continuity between all the metallic components is guaranteed and certified with the design of anti-static device spring and ball.

Fire Safe

Prototypes have been Fire tested and certified to BS 6755 Part 2 and API 607 3rd, 4th and 5th Edition.



NON-DESTRUCTIVE TESTING FOR GAS VALVES

Body (Shell under pressure)

Cast

- » X-raying of critical areas and BW ends (50 mm). % according to Table 1.
- » Magnetic particles testing of internal and external surfaces at 100%.

Forged

- » Ultrasonic test of critical areas and BW ends (50 mm). % according to Table 1.

Welds

- » Dye Penetrant inspection at 100%.

Ball

Cast

- » Magnetic particles or dye penetrant liquids at 100%.

Table 1

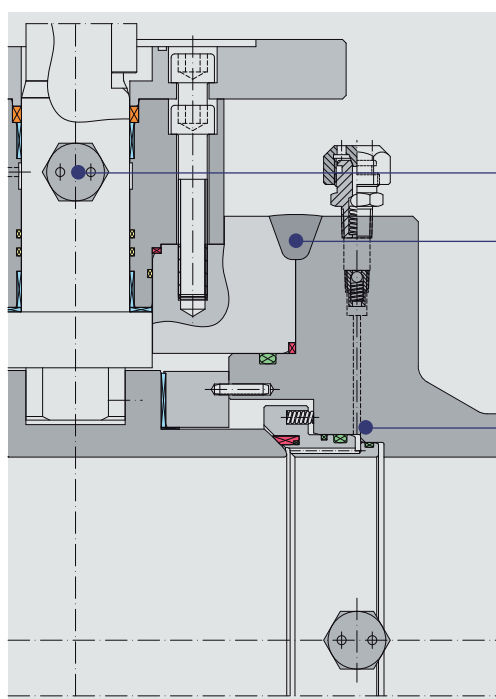
Class	Diameter				
	< 4	4	6	8	≥ 10
150	30		50		100
300		50		100	
≥ 600			100		

FULLY WELDED UNDERGROUND



- ① Seat grease line
- ② Drain line
- ③ Seat sealant injector
- ④ Stem extension up to 5 meters long

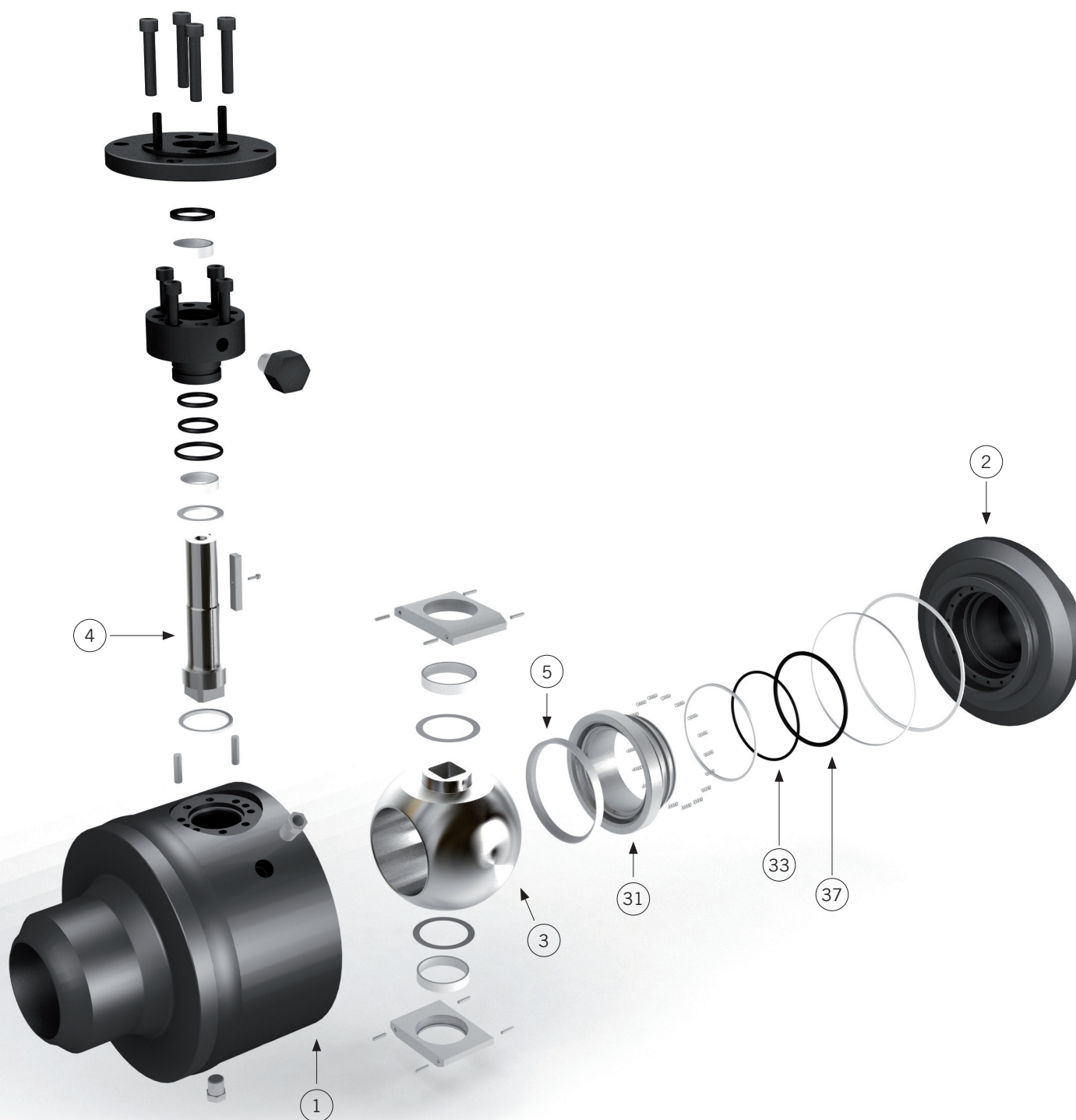
SEALING INJECTIONS



Injection in the stem area

Weld seam

Injection in the seat area



Parts

- | | | | |
|------------------|--------|------------------|-------------|
| ① Body | ③ Ball | ⑤ Seat Insert | ③③ "O" Ring |
| ② Body Connector | ④ Stem | ③① Seat Retainer | ③⑦ "O" Ring |

Body / Body Connector	TRIM Materials			Sealing Materials	
①② Body Material	③ Ball Material	③① Seat Retainer Material	④ Stem Material	⑤ Seat Material	③③③⑦ “O” Ring Material
A105	A105 ENP	A105 ENP	A105 ENP	NYLON PA12	NBR
A694 F52			F6A		HNBR
A684 F6D			4140		LNBR
A350 LF2	LF2 Cl. 1 ENP	LF2 Cl. 1 ENP	LF2 Cl. 1 ENP		VITON
A360 LF3			F6A		VITON B
A182 F51 (UNS 31803)			4140		VITON AED
A182 F53 (UNS 31750)	F6A	F6A	F6A		PTFE Packing
A182 F55 (UNS 31760)	F304	F304	F304	DEVLON	NBR
A182 F44 (UNS 31254)	F304L	F304L	F304L		HNBR
MONEL	F316	F316	F316		LNBR
F6A	F316L	F316L	F316L		VITON
F304	F51 (UNS 31803)	F51 (UNS 31803)	F51 (UNS 31803)		VITON B
F304L	F53 (UNS 31750)	F53 (UNS 31750)	F53 (UNS 31750)		VITON AED
F316	F55 (UNS 31760)	F55 (UNS 31760)	F55 (UNS 31760)		PTFE Packing
F316L	F44 (UNS 31254)	F44 (UNS 31254)	F44 (UNS 31254)	RPTFE	NBR
Alloy 20	MONEL	MONEL	MONEL		HNBR
Hastelloy A			Other materials under request.		LNBR
Hastelloy B					VITON
					VITON B
					VITON AED
					PTFE Packing
				PEEK	NBR
					HNBR
					LNBR
					VITON
					VITON B
					VITON AED
					PTFE Packing
				STL Stellite	NBR
					HNBR
					LNBR
					VITON
					VITON B
					VITON AED
					PTFE Packing
			Other materials under request.		



FULLY WELDED 6215

Class 150

Full Bore

Class 150. From 2" to 24"

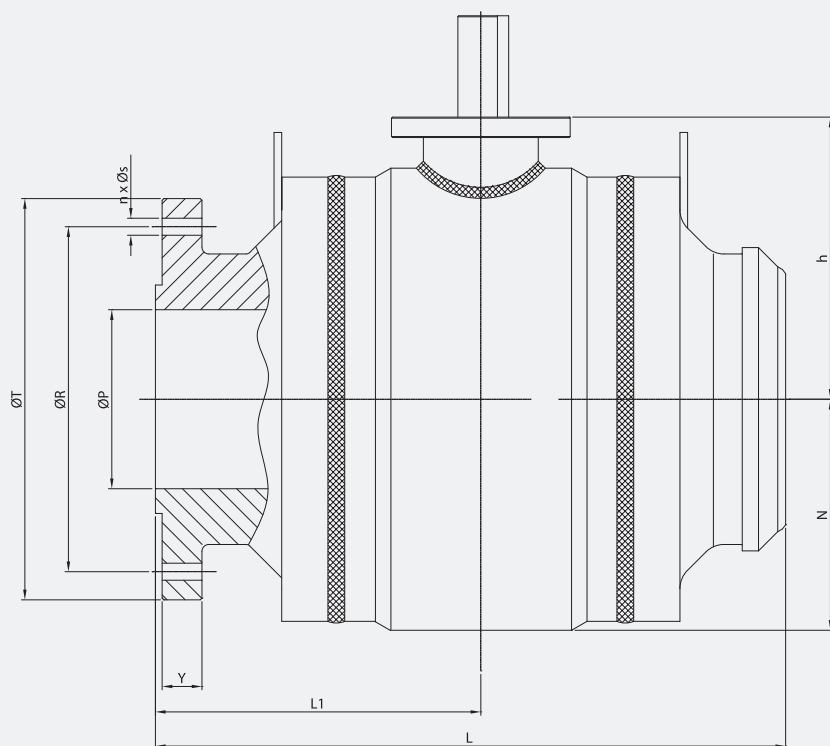


Fig. 6215 (Class 150)

in	DN	ØT	ØR	ØP	n x ØS	Y	L - RF	L - WE	L1 - RF	L1 - WE	h	N	Weigh - WE
2"	50	150	121	49	4 x 19	14	178	216	89	108	132	100	23
3"	80	190	152	76	4 x 19	18	203	283	102	142	163	134	46
4"	100	230	191	100	8 x 19	22	229	305	108	153	182	167	83
6"	150	280	241	151	8 x 22	24	394	457	197	229	278	209	220
8"	200	345	299	203	8 x 22,2	27	457	521	229	261	335	260	400
10"	250	405	362	254	12 x 25,4	29	533	559	267	280	371	312	630
12"	300	485	432	305	12 x 25,4	30	610	635	305	318	433	335	895
14"	350	535	475	337	12 x 28,5	33	686	762	343	381	465	360	1200
16"	400	595	540	387	16 x 28,5	35	762	838	381	419	500	403	1448
18"	450	635	578	438	16 x 31,8	38	864	914	432	457	542	455	2020
20"	500	700	635	488	20 x 31,8	41	914	991	457	496	587	490	2592
24"	600	815	749	589	20 x 34,9	46	1067	1143	534	572	599	525	3736

Note: Dimensions in mm and weight in kg.
Weights and dimensions can be changed without notice.
Bigger sizes available under customers request.

FULLY WELDED 6230

Class 300

Full Bore

Class 300. From 2" to 24"

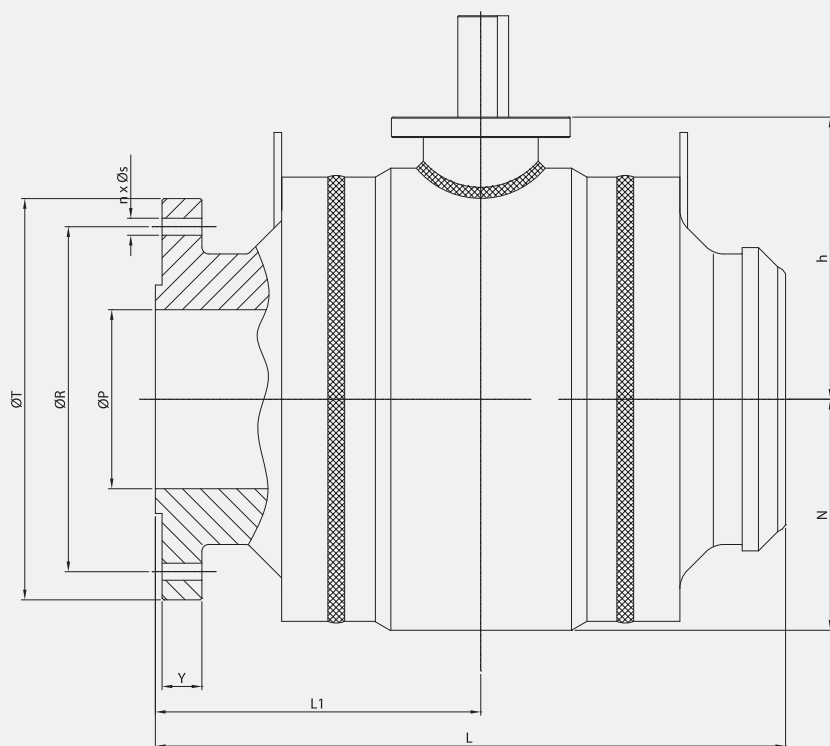


Fig. 6230 (Class 300)

in	DN	ØT	ØR	ØP	n x ØS	Y	L - RF	L - WE	L1 - RF	L1 - WE	h	N	Weigh - WE
2"	50	165	127	50	8 x 19	21	216	213	108	108	132	100	23
3"	80	210	168	76	8 x 22,2	27	283	283	283	142	163	134	52
4"	100	255	200	100	8 x 22,2	30	305	305	305	153	182	167	86
6"	150	320	270	151	12 x 22,2	35	403	457	457	202	278	209	190
8"	200	380	330	203	12 x 25,4	40	502	521	521	251	335	260	363
10"	250	445	387	254	16 x 28,5	46	568	559	559	284	371	312	564
12"	300	520	451	305	16 x 31,8	49	648	635	635	324	434	335	830
14"	350	585	514	337	20 x 31,8	52	762	762	762	381	465	360	1210
16"	400	650	572	387	20 x 34,9	56	838	838	838	419	500	403	1610
18"	450	710	629	438	24 x 34,9	59	914	914	914	457	542	455	2201
20"	500	775	686	488	24 x 34,9	62	991	991	991	496	587	490	2792
24"	600	915	813	589	24 x 41,3	68	1143	1143	1143	572	599	548	3974

Note: Dimensions in mm and weight in kg.
Weights and dimensions can be changed without notice.
Bigger sizes available under customers request.

FULLY WELDED 6260

Class 600

Full Bore

Class 600. From 2" to 24"

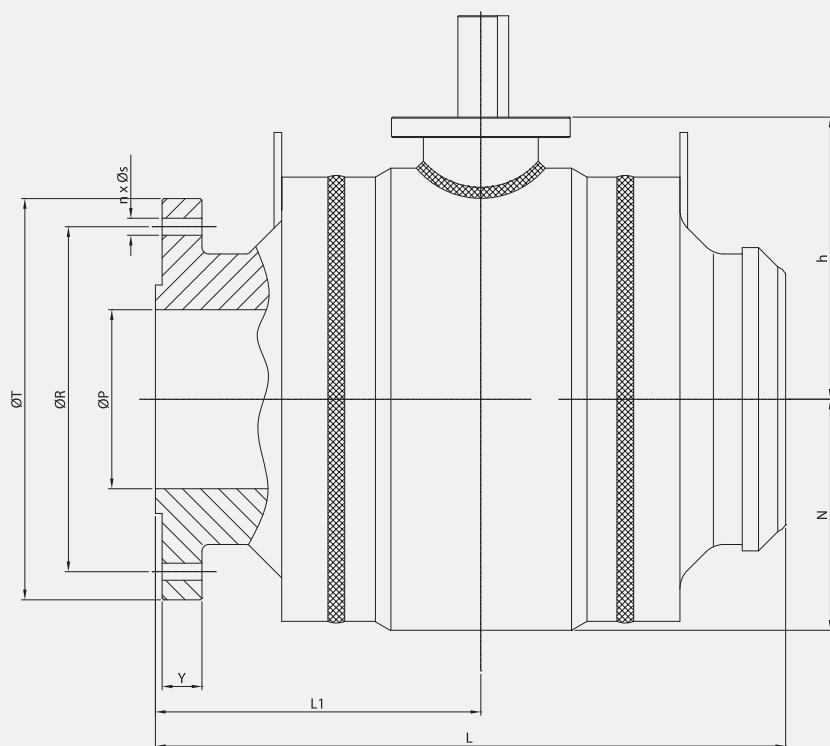


Fig. 6260 (Class 600)

in	DN	ØT	ØR	ØP	n x ØS	Y	L - RF	L - WE	L1 - RF	L1 - WE	h	N	Weigh - WE
2"	50	165	127	50	8 x 19	25	292	292	146	146	132	100	27
3"	80	210	168	76	8 x 22,2	32	256	356	178	178	163	139	63
4"	100	275	216	100	8 x 25,4	38	432	432	216	216	182	164	110
6"	150	355	292	151	12 x 28,5	48	559	559	280	280	278	228	255
8"	200	420	349	203	12 x 31,8	56	660	660	330	330	335	281	500
10"	250	510	432	254	16 x 34,9	64	787	787	394	394	371	327	722
12"	300	560	489	305	20 x 34,9	67	838	838	419	419	432	335	1134
14"	350	605	527	337	20 x 38,1	70	889	889	445	445	465	360	1454
16"	400	685	603	387	20 x 41,3	76	991	991	496	496	500	403	2035
18"	450	745	654	438	20 x 44,5	83	1092	1092	546	546	542	455	2655
20"	500	815	724	488	24 x 44,5	89	1194	1194	597	597	587	490	3275
24"	600	940	838	589	24 x 50,8	102	1397	1397	699	699	599	548	4515

Note: Dimensions in mm and weight in kg.
Weights and dimensions can be changed without notice.
Bigger sizes available under customers request.

FULLY WELDED 7215

Class 150

Reduced Bore

Class 150. From 2" to 24"

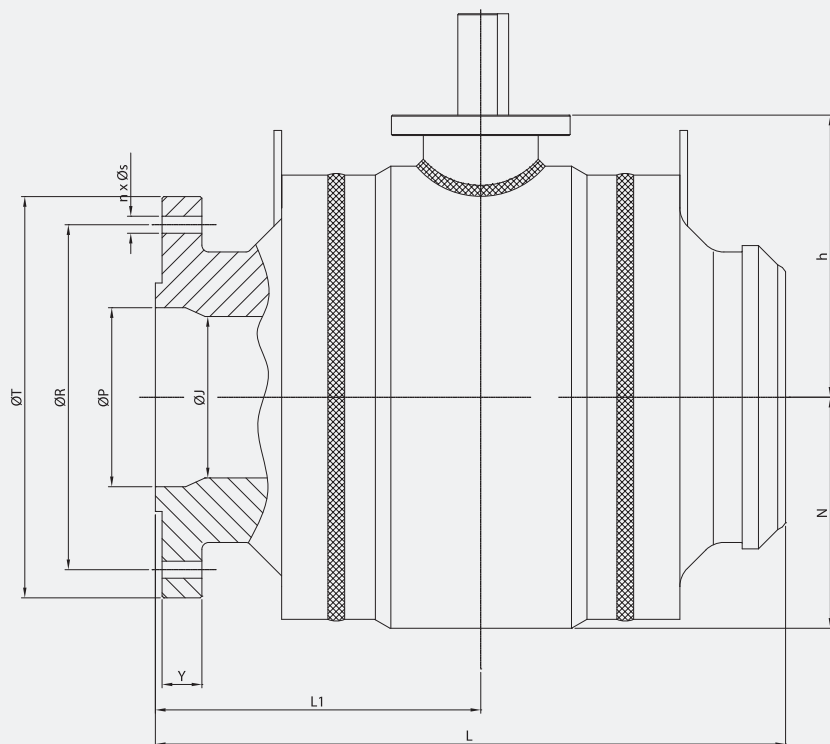


Fig. 7215 (Class 150)

in (DN)	ØT	ØR	ØP	ØJ	n x ØS	Y	L - RF	L - WE	L1 - RF	L1 - WE	h	N	Weigh - WE
3" x 2"	190	152	74	49	4 x 19	18	203	283	102	142	106	100	22
4" x 3"	230	191	100	74	8 x 19	22	229	305	115	153	154	134	45
6" x 4"	280	241	150	100	8 x 22	24	394	457	197	229	198	167	80
8" x 6"	345	299	201	150	8 x 22,2	27	457	521	229	261	252	209	217
10" x 8"	405	362	252	201	12 x 25,4	29	533	559	267	280	280	260	396
12" x 10"	485	432	303	252	12 x 25,4	30	610	635	305	318	323	312	626
14" x 12"	535	476	334	303	12 x 28,5	33	686	762	343	381	342	335	891
16" x 14"	595	539	385	334	16 x 28,5	35	762	838	381	419	370	360	1196
18" x 16"	635	578	436	385	16 x 31,8	38	864	914	432	457	415	403	1444
20" x 18"	700	635	487	436	20 x 34,9	41	914	991	457	496	439	455	2015
24" x 20"	815	749	589	487	20 x 31,8	46	1067	1143	534	572	490	490	3703

Note: Dimensions in mm and weight in kg.
Weights and dimensions can be changed without notice.
Bigger sizes available under customers request.

FULLY WELDED 7230

Class 300

Reduced Bore

Class 300. From 2" to 24"

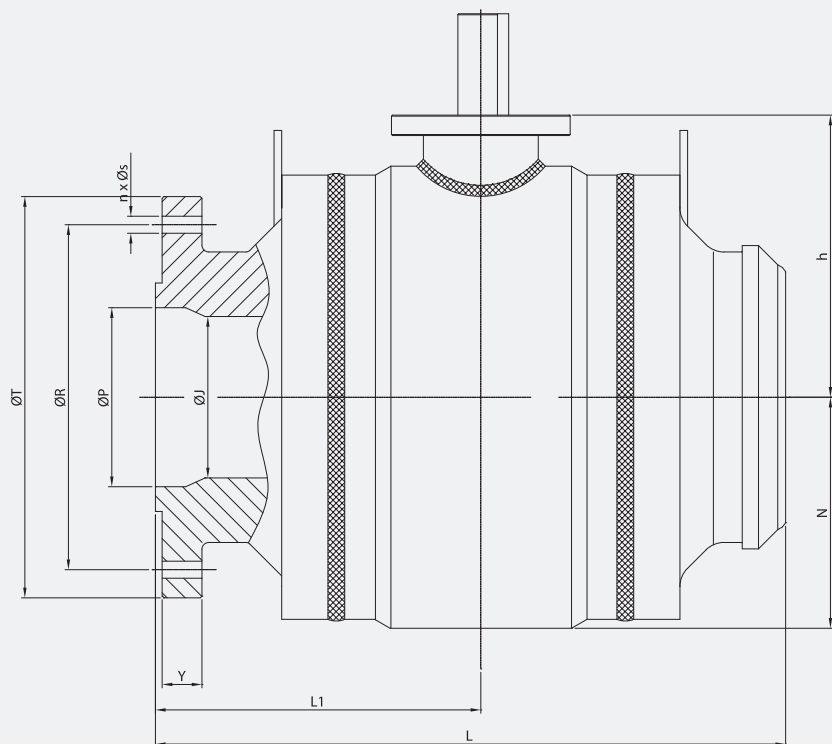


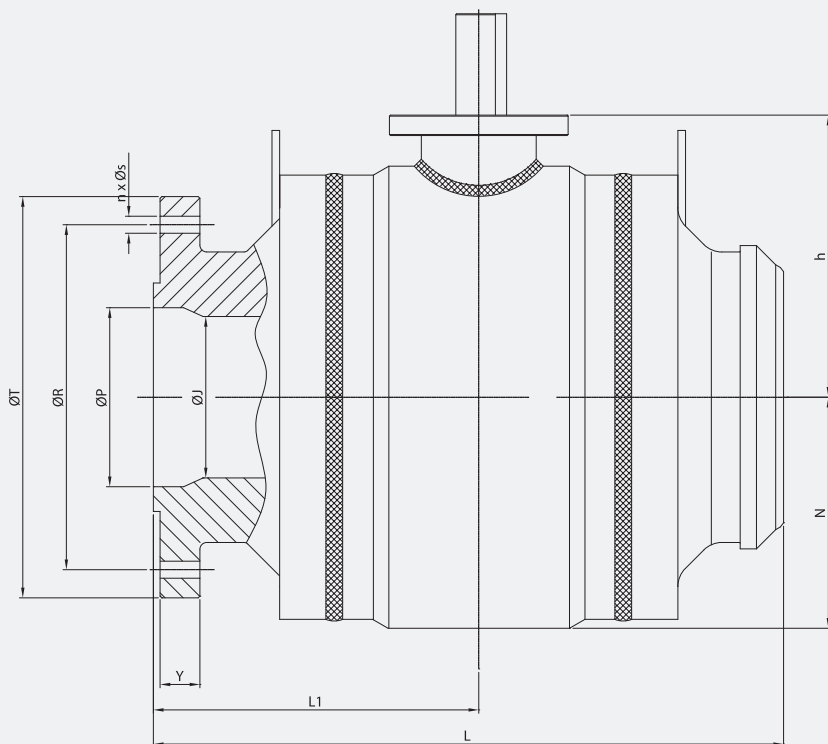
Fig. 7230 (Class 300)

in (DN)	ØT	ØR	ØP	ØJ	n x ØS	Y	L - RF	L - WE	L1 - RF	L1 - WE	h	N	Weigh - WE
3" x 2"	210	168	74	49	8 x 22,2	27	283	283	142	142	100	100	22
4" x 3"	255	200	100	74	8 x 22,2	30	305	305	153	153	150	134	51
6" x 4"	320	270	150	100	12 x 22,2	35	403	457	202	229	200	167	82
8" x 6"	380	330	201	150	12 x 25,4	40	502	521	251	261	245	209	185
10" x 8"	445	387	252	201	16 x 28,5	46	568	559	284	280	275	260	357
12" x 10"	50	451	303	252	16 x 31,8	49	648	635	324	318	330	312	558
14" x 12"	585	514	334	303	20 x 31,8	52	762	762	381	381	355	335	824
16" x 14"	650	572	385	334	20 x 34,9	56	838	838	419	419	390	360	1204
18" x 16"	710	629	436	385	24 x 34,9	59	914	914	457	457	430	403	1603
20" x 18"	775	686	487	436	24 x 34,9	62	991	991	496	496	455	455	2193
24" x 20"	915	813	589	487	24 x 41,3	68	1143	1143	572	572	500	490	3941

Note: Dimensions in mm and weight in kg.
Weights and dimensions can be changed without notice.
Bigger sizes available under customers request.

FULLY WELDED 7260**Class 600****Reduced Bore**

Class 600. From 2" to 24"

**Fig. 7260 (Class 600)**

in (DN)	ØT	ØR	ØP	ØJ	n x ØS	Y	L - RF	L - WE	L1 - RF	L1 - WE	h	N	Weigh - WE
3" x 2"	210	168	74	49	8 x 22,2	32	356	356	178	178	102	100	26
4" x 3"	275	216	100	74	8 x 25,4	38	432	432	216	216	165	139	62
6" x 4"	355	292	150	100	12 x 28,5	48	559	559	280	280	210	164	104
8" x 6"	420	349	201	150	12 x 31,8	56	660	660	330	330	250	228	248
10" x 8"	510	432	252	201	12 x 34,9	64	787	787	396	396	288	281	492
12" x 10"	560	489	303	252	20 x 34,9	67	838	838	419	419	330	327	714
14" x 12"	605	527	334	303	20 x 38,1	70	889	889	445	445	378	335	1126
16" x 14"	685	603	385	334	20 x 41,3	76	889	889	445	445	394	360	1435
18" x 16"	745	654	436	385	20 x 44,5	83	1092	1092	546	546	430	403	2026
20" x 18"	815	724	487	436	24 x 44,5	89	1194	1194	597	597	467	455	2645
24" x 20"	940	838	589	487	24 x 50,8	102	1397	1397	698	698	500	490	4465

Note: Dimensions in mm and weight in kg.
Weights and dimensions can be changed without notice.
Bigger sizes available under customers request.



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