



SPLIT BODY
TRUNNION
BALL VALVE



SPLIT BODY TRUNNION BALL VALVES

Flanged valves are preferred because they can be easily disassembled due to operating conditions in the systems where they are used. They are mostly used in applications that require easy and fast maintenance.

With the trunnion design, they are preferred due to their high sealing performance at low pressures and their easy on-off properties in high pressure applications.

Specifications

Valve size :	2" - 56"
Valve type :	Trunnion
Body Type :	Bolted
Pressure Class :	ANSI 150 / 300 / 600 / 900 / 1500 / 2500
End Connection :	RF / RTJ / BW
Bore :	Full Bore / Reduced Bore
Operator :	Lever / Gear / Actuator
Material :	Carbon Steel / Stainless Steel / Duplex / Alloy Steel
Operating Temperature :	Low / Standard / High
Leakage Class :	API 598 / ANSI FC70-2 / ISO 5208
Desing Standard:	ASME B16.34 / API 6D / ISO 14313 / ISO 17292
Face to Face Standard:	ASME B16.10

End Connection Standard :	ASME B16.5 / ASME B16.25 / DIN EN 1092-1
Test Standard :	API 6D / API 598 / ISO 14313
Fire Safe Standard :	API 607 / ISO 10497 / API 6FA EN 10204 3.1 - 3.2 / ISO 15848 Fugitive Emission / 2014-68 EU PED / SIL Capable / IP 67 (Gearbox)
Certification :	
Isolation Type :	DBB / DIB-1 / DIB-2

SIL 3

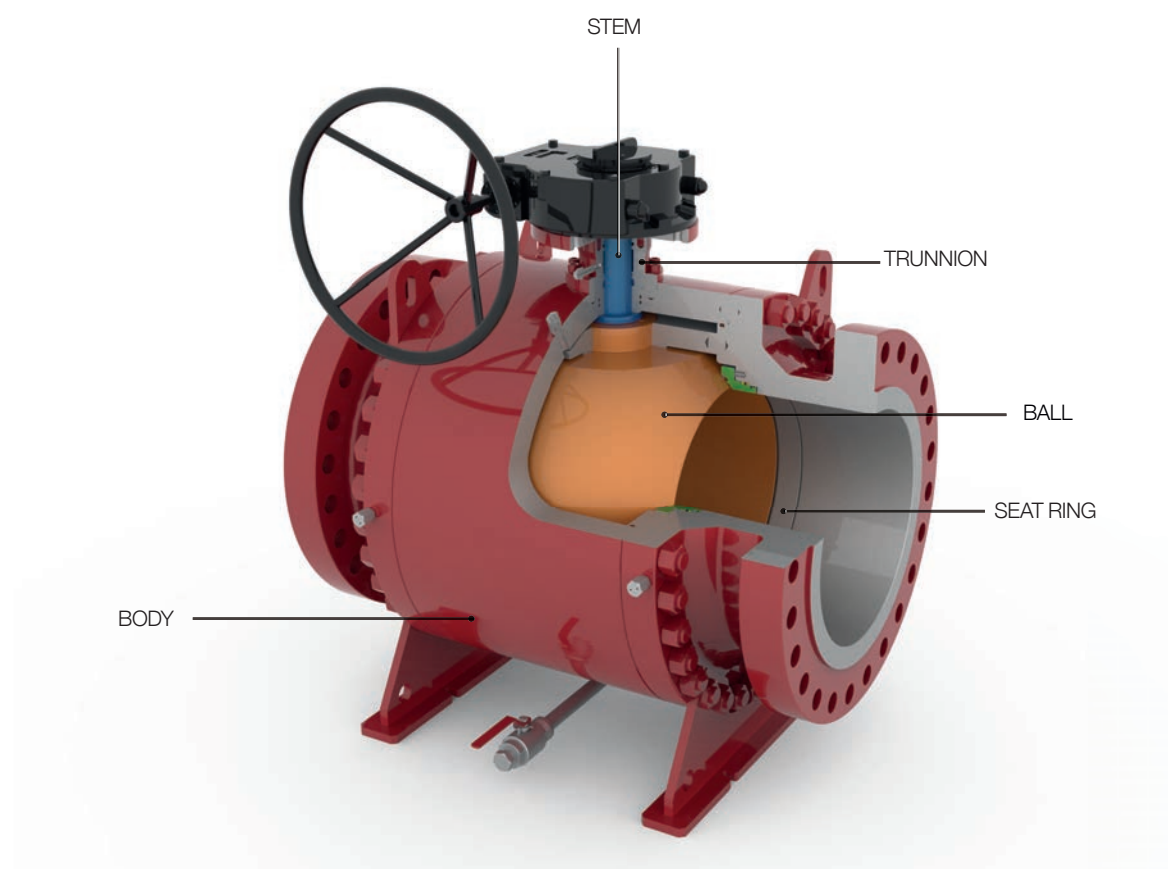


DESIGN & ANALYSIS

Reference standards and literature are scanned before valve designs are made.

With these researches, the design phase begins. The design is made taking into account reference standards. After the design is finished, a review is made. Analytical calculations are checked. If there is no problem until this stage, prototype production is started.

Material selection for valves operating under severe service conditions is very important for many reasons. When choosing the material, the operating temperature and pressure of the process, the chemical and mechanical abrasiveness of the fluid should be taken into consideration.



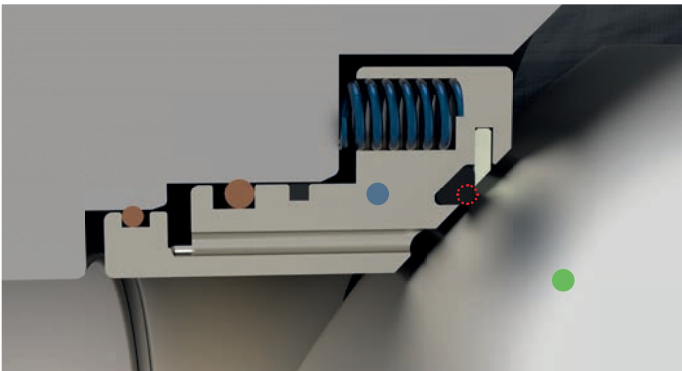
FEATURES

- Due to low torque values, smaller actuator can be selected.
- The actuator selection is automatic.
- Fixed lifting lugs on the valve.
- Emergency maintenance.
- Emergency sealing fittings are default.
- Renewable seats.
- Available with metal and soft seats.
- Blow-out-proof stem.
- Locking device is optional.

ISOLATION TYPES

There are two main headings in the sealing design, which are affected by the operating conditions; First systems of seat, second surface coating.

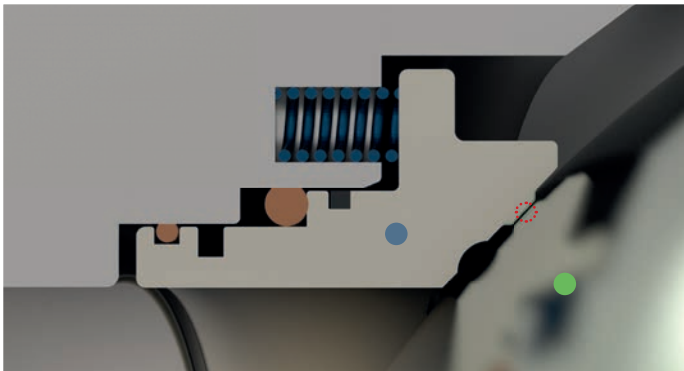
Ball valves have two types of sealing, soft seat and metal seat. Zero tightness can be achieved in soft seat ball valves. Metal seat valves are preferred for more heavy conditions. Zero leakage is not expected but it is also possible to achieve zero tightness for metal seat ball valves.



Soft Seat

Soft seats are provide excellent sealing performance and for used normal condition and normal temperature and aggressive environments.

- Sealing Area
- Ball
- Seat



Metal Seat

Mainly used abrasive fluids, severe service and corrosive fluids also high temperatures and pressures.

- Sealing Area
- Ball
- Seat

Soft Seat vs Metal Comparison Table

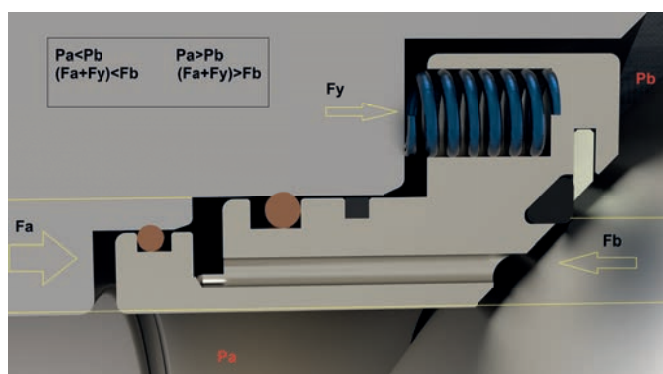
Low Torque	Torque	High Torque
Short	Life Time	Long
Perfect	Leakage Performance	Strong
Short	Leakage Life Time	Long
Low	Cost	High

There are differences between soft seat and metal seat designs. Depending on the conditions of use, these differences can be evaluated as an advantage or a disadvantage. In short, we can say that the soft seat is economical and the metal seat is suitable for difficult conditions.

SINGLE PISTON EFFECT & DOUBLE PISTON EFFECT

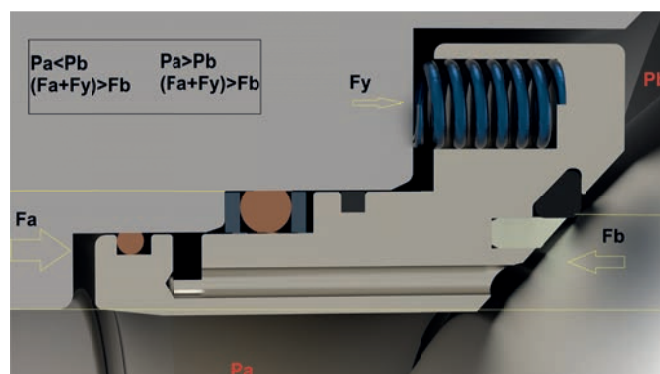
Single Piston Effect

This type of seat design can ensure a tight contact with the ball in only single direction. In fact, when the line (so the valve) is under pressure (upstream), the seat is pushed toward the ball normally. It is called single piston effect due to one side seat ring pushed toward the ball.



Double Piston Effect

As the name of it indicates, this type of seat design provide a tight contact with the ball in the normal direction, and also in the reverse direction. So, both sides upstream and downstream can be sealed for better leakage proof. Its design allows to use body cavity pressure to push downstream side ring toward the ball also. It is called double piston effect due to both side seat ring pushed toward the ball.



Options Of Seat Structural

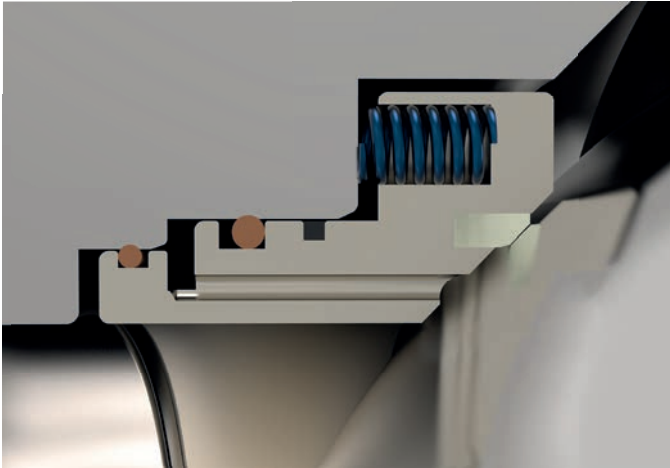
TRUNNION		2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	28"	30"	32"	36"	40"	42"	48"	56"
SOFT	DPE	O	O	O	O	O	O	O	O	O	S	S	S	S	S	S	S	S	S	S	S	S
	SPE	S	S	S	S	S	S	S	S	S	O	O	O	O	O	O	O	O	O	O	O	O
MTM	DPE	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	SPE	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
PMSS	DPE	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	SPE	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

O: Optional S: Standard

In Trunnion Ball Valves, the operating pressure and the pressure of the seat to the ball determine the seat structure. We prefer Single Piston Effect (SPE) as standard from 2" to 16" and Double Piston Effect (DPE) seat design from 18" to 56".

SOFT SEAT DESIGNS

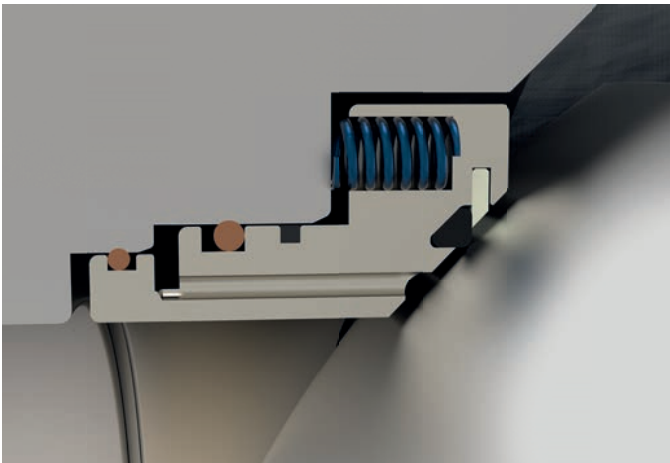
Soft seat sealing is the most used ball valve sealing type. Since the sealing material is elastomer, it can provide zero leakage. Soft seat valves are preferred for general use. Elastomer materials can resist up to a certain temperature. Working pressures and working temperatures are the most important factors in the selection of elastomers.



Standard Sealing

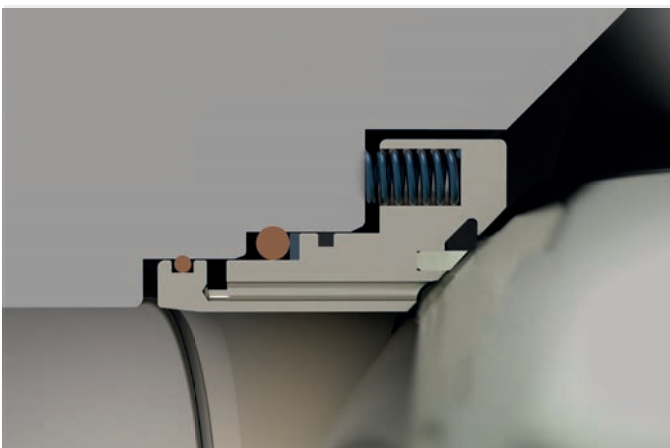
It is a spring-energised seat type with thermoplastic sealing material. It is preferred in general use.

It provides sealing by direct contact to ball surface of the thermoplastic material.



Delta Sealing

It is a spring-energised seat type with elastomer sealing. It shows excellent sealing performance because to its elastic structure. It produces less torque due to its low friction area.

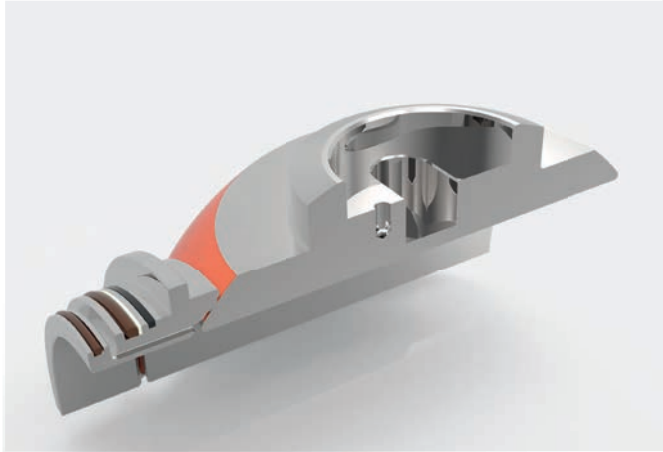


Pmss

It is called primary metal secondary soft seat. Ball surface and seat surface are coated with special coating material. Metal seat provides primary sealing. It provides secondary sealing with elastomer material. It is mainly used for high performance in dirty gas applications.

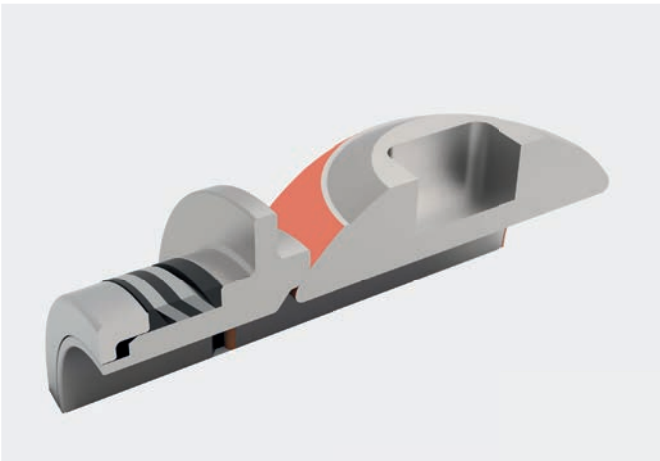
METAL SEAT DESIGNS

Metal seated ball valves are used in many industries with many different fluids. The most essential information in the design phase of the valves is the process requirements of the industries. We as KURVALF make various metal seated valve designs and offer solutions suitable for different operating conditions. Stainless steels are mostly preferred.



High Performance Design

Hard surfaced ball and seat works with metal to metal contact. Coated surface with a very hard alloy prevents rapid corrosion. In this design, elastomer is used in back seats. Design can work up to 230 degrees with elastomer.

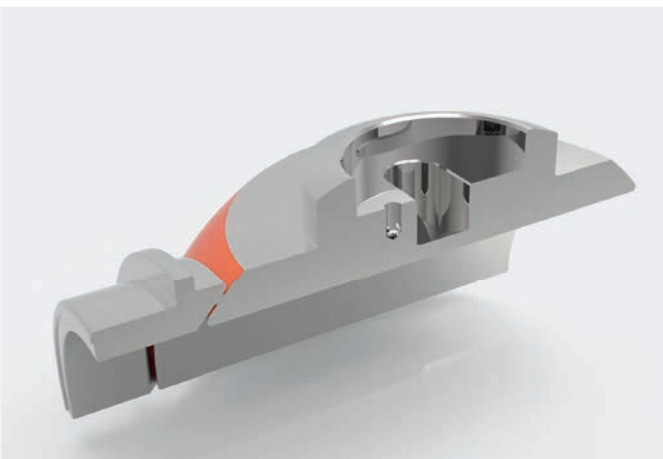


Extreme Performance Design

Hard surfaced ball and seat works with metal to metal contact. Coated surface with a very hard alloy prevents rapid corrosion.

Except for ball and seat contact point, in metal seated valves, the sealing behind the seat must be suitable for extreme conditions.

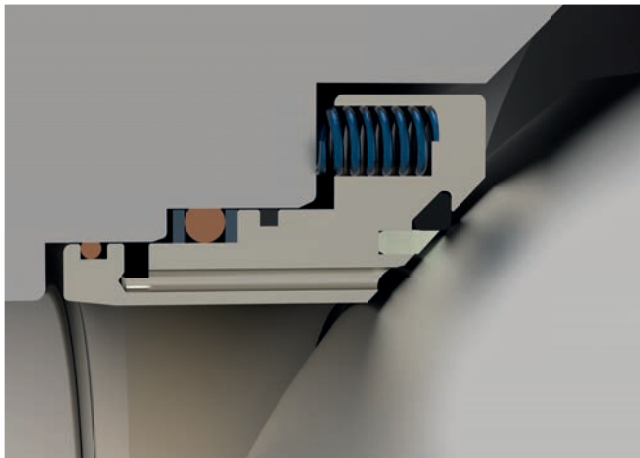
It is not possible to use elastomers in applications above 230 degrees. Sealing solutions are possible by using graphite-based materials instead of elastomer materials.



Full Metal Design

The sealing which cannot be achieved with elastomer and graphite materials can be achieved this metal to metal design. This solution is designed for the toughest conditions. This design is preferred in processes where there is both chemical and mechanical wear.

FEATURES



Double Block and Bleed

When the ball is in the closed position, each seat seals off the process medium independently at the same time between the up/down stream and body cavity; it allows bleeding of the trapped cavity pressure (DBB) through drain or vent valve. The double block and bleed function makes it possible to flush the valve under pressure and verify that the seats are sealing properly.

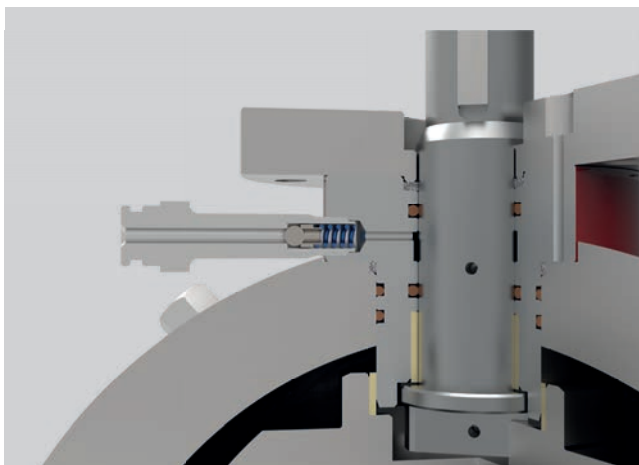
Single valve with two seating surfaces that, in the closed position, provides a seal against pressure from both ends of the valve with a means of venting/bleeding the cavity between the seating surfaces.

NOTE This valve does not provide positive double isolation when only one side is under pressure. See double isolation and bleed valve

Double Isolation Bleed

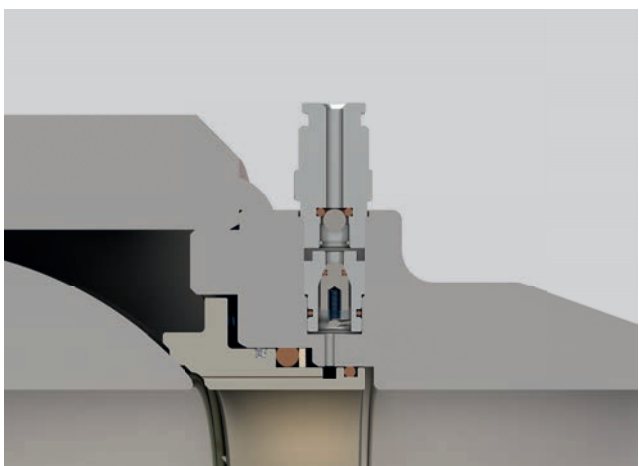
Single valve with two seating surfaces, each of which, in the closed position, provides a seal against pressure from a single source, with a means of venting/bleeding the cavity between the seating surfaces.

NOTE: This feature can be provided in one direction or in both directions.



Stem Seal

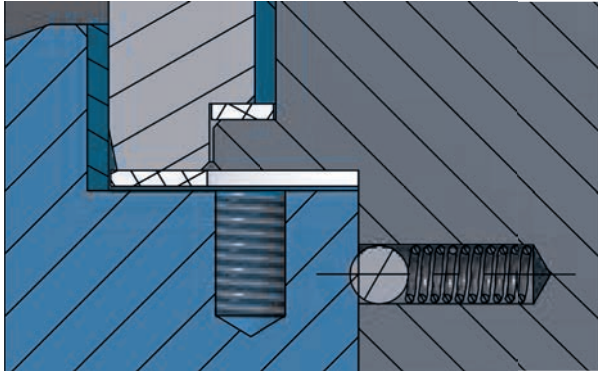
For high pressure or large size valves, double o-rings located in the upper stem area are used to ensure positive sealing. And upon request, additional stem seal injection fittings are provided to be utilized in the case of emergencies, o-ring damage, or if stem leakage occurs.



Emergency Seat Seal

In the event of damage to the valve seat, sealant can be injected to temporarily seal the valve until maintenance can be performed. It provides high integrity shut-off. On request, secondary seat sealant injection fittings are installed.

FEATURES



Anti Static Device

Spring plus graphite type antistatic device are applied between the ball, stem, gland flange and body, to keep the electrical continuity between all the metallic components, and ensure the resistance lower than the most severe service requirement.

Ball, plug and gate valves with soft seat have an antistatic device.

The electrical resistance between the obturator and valve body and between the stem/ shaft and valve body is measured using a direct-current power source not exceeding 12 V. The resistance is measured on dry valves before pressure testing and shall not exceed 10 Ω .

Blow-Out Proof Stem

This design ensures the valve stem cannot be blown out of the body in the event of the gland being removed while the valve is under pressure. To prevent stem blow out from body, the stem has a shoulder in the lower part and so constructs that it may not blow out upwards.

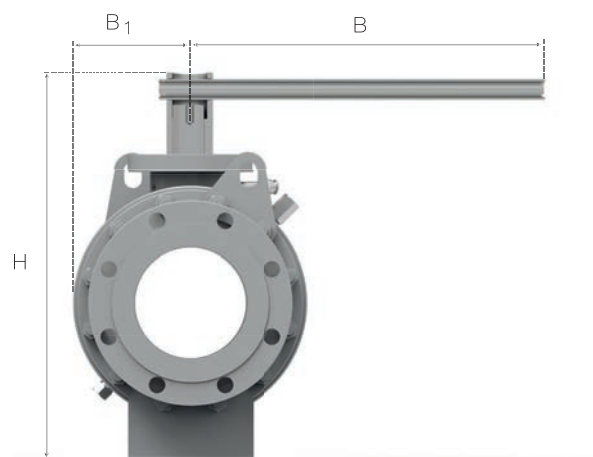
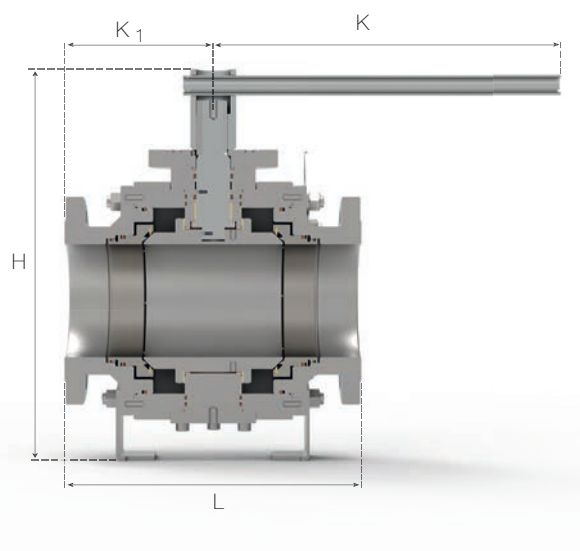
Lubrication Table

Lubrication is essential for valves with API 6A and API 6D design. Periodic lubrication is recommended for the long life time and operation of the valves. All valves of 4" and above are equipped with stem lubrication and emergency sealing as standard. Emergency sealing in 2" and 3" diameters can be offered as an option.

TRUNNION	SOFT			MTM			PMSS		
	MİLYAĞ	SEAT.YAĞ	DRAIN	MİLYAĞ	SEAT.YAĞ	DRAIN	MİLYAĞ	SEAT.YAĞ	DRAIN
2"	N/A	O	√	N/A	O	√	N/A	O	√
3"	N/A	O	√	N/A	O	√	N/A	O	√
4"	√	√	√	√	√	√	√	√	√
6"	√	√	√	√	√	√	√	√	√
8"	√	√	√	√	√	√	√	√	√
10"	√	√	√	√	√	√	√	√	√
12"	√	√	√	√	√	√	√	√	√
14"	√	√	√	√	√	√	√	√	√
16"	√	√	√	√	√	√	√	√	√
18"	√	√	√	√	√	√	√	√	√
20"	√	√	√	√	√	√	√	√	√
22"	√	√	√	√	√	√	√	√	√
24"	√	√	√	√	√	√	√	√	√
28"	√	√	√	√	√	√	√	√	√
30"	√	√	√	√	√	√	√	√	√
32"	√	√	√	√	√	√	√	√	√
36"	√	√	√	√	√	√	√	√	√
40"	√	√	√	√	√	√	√	√	√
42"	√	√	√	√	√	√	√	√	√
48"	√	√	√	√	√	√	√	√	√
56"	√	√	√	√	√	√	√	√	√

O: Optionel

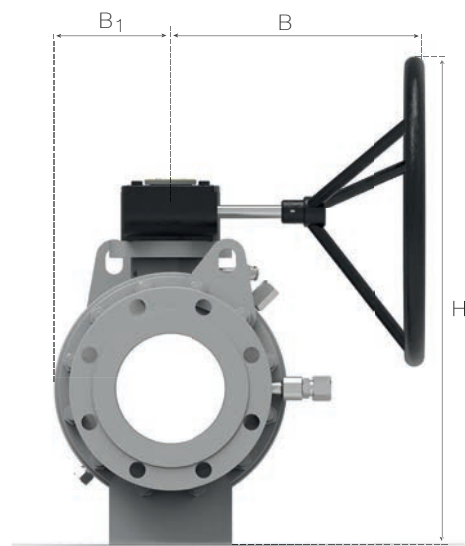
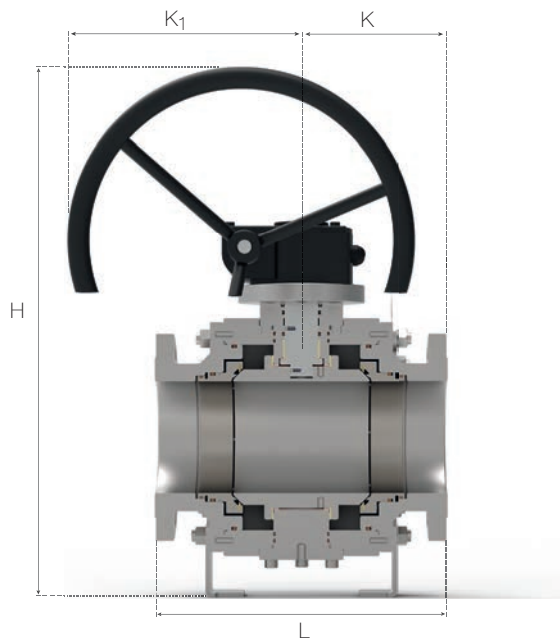
DIMENSIONS



2"- 4" LEVER OP.

SIZE	CLASS	RF							RTJ						
		L	H	K1	K	B1	B	KG	L	H	K1	K	B1	B	KG
2"	150	178	251,5	82	260	79	260	17,5	191	251,5	82	260	79	260	17,5
3"	150	203	303	101,5	415	95	415	33	216	303	101,5	415	95	415	33
4"	150	229	384	114,5	410	118	410	56	241	384	114,5	410	118	410	56
6"	150	394	529	197	460	160	460	153,6	406	529	197	460	160	460	153,6
2"	300	216	256	108	260	82,5	260	21	232	256	116	260	82,5	260	21
3"	300	283	306	141,5	415	104,5	415	43,6	298	306	149	415	104,5	415	43,6
4"	300	305	384	152,5	407	127	407	70,2	321	384	160,5	407	127	407	70,2
2"	600	292	256	146	260	82,5	260	25	295	285	127	146	146	251	25
3"	600	359	306	179,5	415	104,5	415	50	359	320	127	179,5	179,5	251	50
4"	600	432	425	216	409	136,5	409	98	435	599	284,5	216	216	349	98
2"	900	368	306	184	396	108	396	55,4	371	306	185,5	396	108	396	55,4
3"	900	381	341	191	410	120,65	410	75	384	341	192	410	120,65	410	75
4"	900	457	454	229	457	146	457	140,5	460	454	230	457	146	457	140,5
2"	1500	368	343	184	410	108	410	60,6	371	343	185,5	410	108	410	60,6

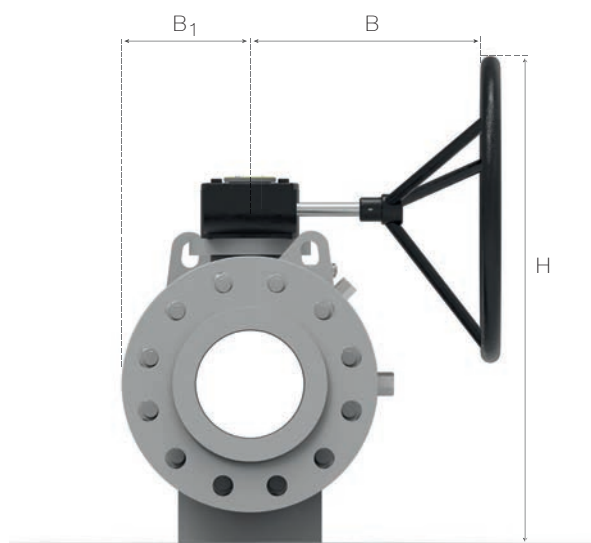
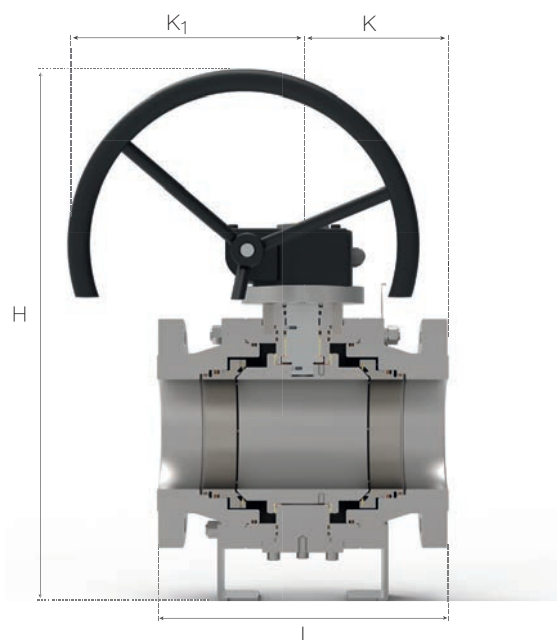
DIMENSIONS



6" - 56" ANSI 150 GEAR OP.

SIZE	CLASS	RF							RTJ						
		L	H	K ₁	K	B ₁	B	KG	L	H	B ₁	B	K ₁	K	KG
6"	150	394	673	284,5	197	197	349	153,6	406	673	203	349	284,5	197	153,6
8"	150	457	802	299,5	229	228,5	337	273,5	470	802	299,5	229	235	337	273,5
10"	150	533	903	318	266,5	266,5	378	423,2	546	903	318	266,5	273	378	423,2
12"	150	610	950	318	305	305	493	634	622	950	318	305	311	378	634
14"	150	686	1116,5	393,5	343	343	493	882,5	699	1116,5	393,5	343	349,5	493	882,5
16"	150	762	1206	393,5	381	381	493	1252,9	775	1206	393,5	381	388	493	1252,9
18"	150	864	1320	445,5	432	432	502	2030	876	1151,5	445,5	432	438	502	2030
20"	150	914	1439	445,5	457	457	502	2347	927	1439	445,5	457	464	502	2347
24"	150	1067	1726,5	445,5	533,5	533,5	502	3650	1080	1726,5	445,5	533,5	540	502	3650
26"	150	1143	1840	445,5	572	571,5	502	4450	1205	1840	445,5	572	603	502	4450
28"	150	1245	1890	445,5	622,5	622,5	502	5215	1310	1890	445,5	622,5	655	502	5215
30"	150	1295	1910	460	648	647,5	703	6850	1355	1910	460	648	678	703	6850
32"	150	1372	2105	460	686	686	703	7855	1420	2105	460	686	710	703	7855
36"	150	1524	2165	460	762	762	703	8750	1585	2165	460	762	793	703	8750
40"	150	2032	2250	460	1016	1016	703	12060	2075	2250	460	1016	1038	703	12060
42"	150	1800	2340	460	900	900	703	14300	2090	2340	460	900	1045	703	14300
48"	150	2010	2560	460	1005	1005	703	22250	3005	2560	460	1005	1503	703	22250
56"	150	2505	2935	460	1253	1252,5	703	34250	3020	2935	460	1253	1510	703	34250

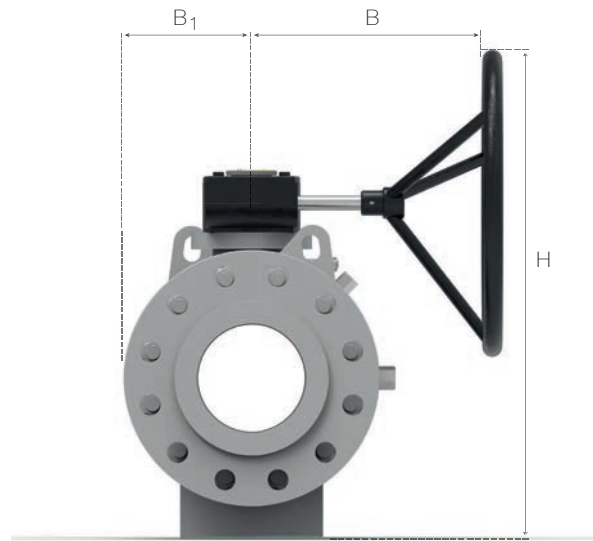
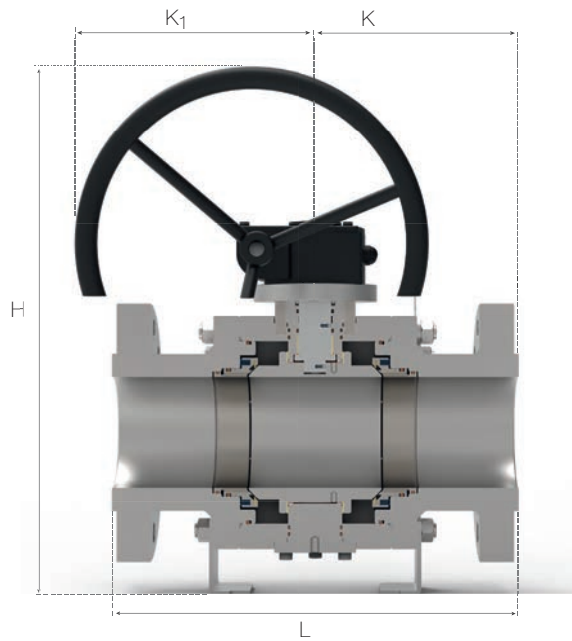
DIMENSIONS



6"- 56" ANSI 300 GEAR OP.

SIZE	CLASS	RF							RTJ						
		L	H	K1	K	B1	B	KG	L	H	B1	B	K1	K	KG
6"	300	403	691	284,5	201,5	201,5	349	174,3	419	691	209,5	349	284,5	201,5	174,3
8"	300	502	815	299,5	251	251	337	307,4	518	815	259	337	299,5	251	307,4
10"	300	568	903	318	284	284	378	472,3	584	903	292	378	318	284	472,3
12"	300	648	950	318	324	324	378	705	664	950	332	378	318	324	705
14"	300	762	1116	393,5	381	381	493	975,5	778	1116	389	493	393,5	381	975,5
16"	300	838	1206	393,5	419	419	493	1408,5	854	1206	427	493	393,5	419	1408,5
18"	300	914	1365	445,5	457	457	502	1855	930	1365	465	502	445,5	457	1855
20"	300	991	1439	445,5	496	495,5	502	2641,3	1010	1439	505	502	445,5	496	2641,3
24"	300	1143	1513,5	445,5	571,5	571,5	502	3048	1165	1513,5	582,5	502	445,5	571,5	3048
26"	300	1245	1634	445,5	623	622,5	502	4256	1270	1634	635	502	445,5	623	4256
28"	300	1346	1795	445,5	673	673	502	5562	1372	1795	686	502	445,5	673	5562
30"	300	1397	1830	460	699	698,5	703	6394	1422	1830	711	703	460	699	6394
32"	300	1524	1895	460	762	762	703	10725	1553	1895	776,5	703	460	762	10725
36"	300	1727	1980	460	864	863,5	703	12234	1756	1980	878	703	460	864	12234
40"	300	2032	2195	460	1016	1016	703	13265	1965	2195	982,5	703	460	1016	13265
42"	300	20150	2305	460	10075	10075	703	22690	2015	2305	1008	703	460	10075	22690
48"	300	2240	2560	460	1120	1120	703	26359	2350	2560	1175	703	460	1120	26359
56"	300	2760	2735	460	1380	1380	703	38260	2845	2735	1423	703	460	1380	38260

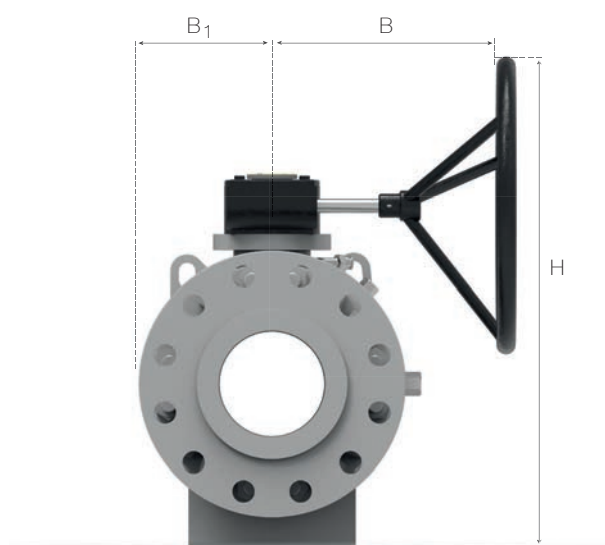
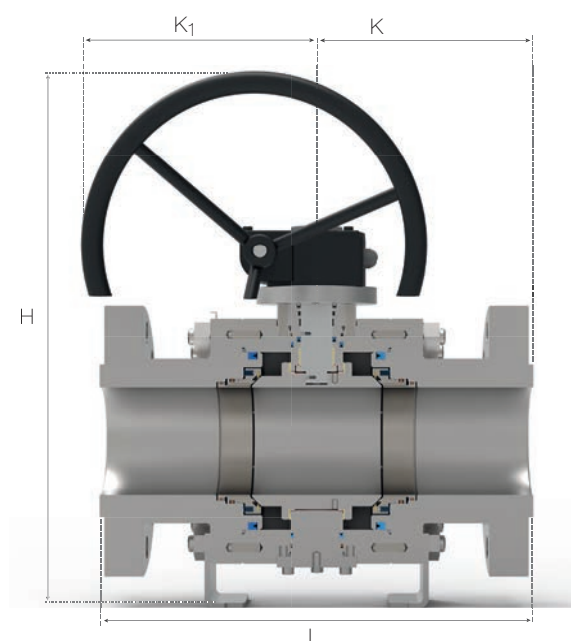
DIMENSIONS



6"- 56" ANSI 600 GEAR OP.

SIZE	CLASS	RF							RTJ						
		L	H	K1	K	B1	B	KG	L	H	B1	B	K1	K	KG
6"	600	559	681	284,5	279,5	279,5	349	227,6	562	681	284,5	279,5	281	349	227,6
8"	600	660	826,5	299,5	330	330	337	392,7	664	826,5	299,5	330	332	337	392,7
10"	600	787	903	318	393,5	393,5	378	656,9	791	903	318	393,5	395,5	378	656,9
12"	600	838	950	318	419	419	378	656,9	841	950	318	419	421	378	656,9
14"	600	889	1116,5	393,5	444,5	444,5	493	1147,5	892	1116,5	393,5	444,5	446	493	1147,5
16"	600	991	1206	393,5	496	495,5Z	493	1609,5	994	1206	393,5	496	497	493	1609,5
18"	600	1092	1360	445,5	546	546	493	2105	1095	1360	445,5	546	547,5	493	2105
20"	600	1194	1439	445,5	597	597	502	2953	1200	1439	445,5	597	600	502	2953
24"	600	1397	1614,5	445,5	698,5	698,5	502	4675	1407	1614,5	445,5	698,5	703,5	502	4675
26"	600	1448	1695	445,5	724	724	502	5647	1461	1695	445,5	724	704	502	5647
28"	600	1549	1850	445,5	774,5	774,5	502	6780	1562	1850	445,5	774,5	781	502	6780
30"	600	1651	1920	460	826	825,5	703	8543,72	1664	1920	460	826	832	703	8543,72
32"	600	1778	2160	460	889	889	703	111336	1794	2160	460	889	897	703	111336
36"	600	2083	2236	460	1042	1041,5	703	13544,2	2099	2236	460	1042	1049,5	703	13544,2
40"	600	2983	2535	460	1041,5	1041,5	703	18335	2083	2535	460	1041,5	1041,5	703	18335
42"	600	2083	3260	460	1042	1041,5	703	21356	2083	3260	460	1042	1041,5	703	21356
48"	600	2083	3865	460	1041,5	1041,5	703	31210	2083	3865	460	1041,5	1041,5	703	31210
56"	600	2170	4058	460	1085	1085	703	45570	2170	4058	460	1085	1085	703	45570

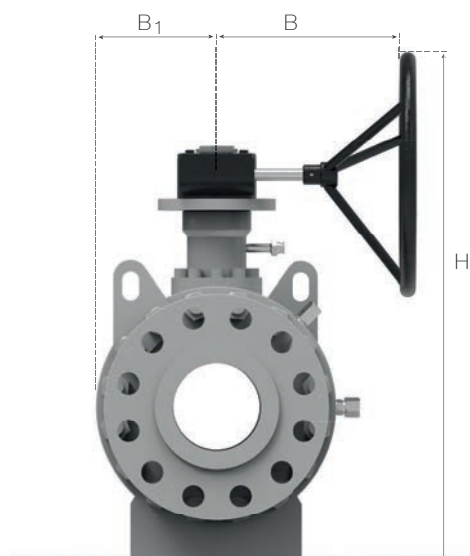
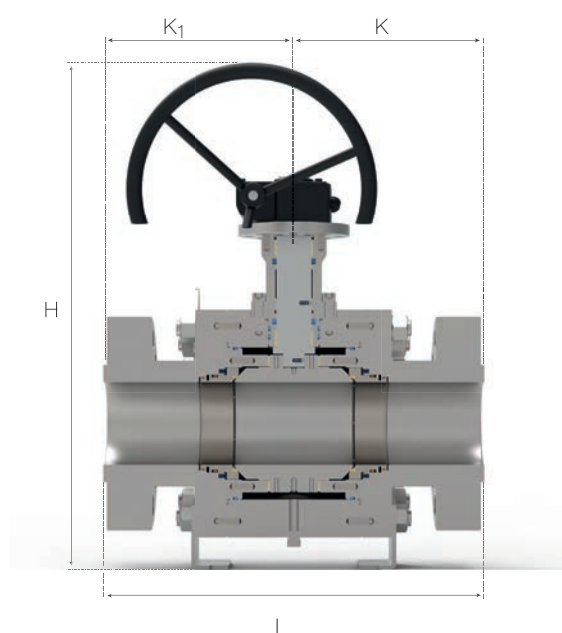
DIMENSIONS



6"- 56" ANSI 900 GEAR OP.

SIZE	CLASS	RF							RTJ						
		L	H	K ₁	K	B ₁	B	KG	L	H	B ₁	B	K ₁	K	KG
6"	900	610	705	284,5	305	305	349	235	613	705	306,5	349	284,5	305	235
8"	900	737	840	299,5	369	368,5	337	579	740	840	370	337	299,5	369	579
10"	900	838	953,5	318	419	419	378	855	841	953,5	420,5	378	318	419	855
12"	900	965	1122	318	483	482,5	378	1277	968	1122	484	378	318	483	1277
14"	900	1029	1218	393,5	514,5	514,5	493	1450	1038	1218	519	493	393,5	514,5	1450
16"	900	1130	1362	393,5	565	565	493	2276	1140	1362	570	493	393,5	565	2276
18"	900	1219	1439	445,5	609,5	609,5	493	2320	1232	1439	616	493	445,5	609,5	2320
20"	900	1321	1531	445,5	661	609,5	502	3532	1334	1531	667	502	445,5	661	3532
24"	900	1549	1649	445,5	774,5	774,5	502	4200	1568	1649	784	502	445,5	774,5	4200
26"	900	1651	1765	445,5	826	825,5	502	6800	1673	1765	836,5	502	445,5	826	6800
28"	900	1753	1812	445,5	876,5	876,5	502	9900	1775	1812	887,5	502	445,5	876,5	9900
30"	900	1880	1987	460	940	940	703	12180	1902	1987	951	703	460	940	12180
32"	900	2032	2044	460	1016	1016	703	15500	2054	2044	1027	703	460	1016	15500
36"	900	2286	2098	460	1143	1143	703	17200	2315	2098	1157,5	703	460	1143	17200
40"	900	2160	2178	460	1080	1080	703	16560	2185	2178	1092,5	703	460	1080	16560
42"	900	2320	2263	460	1160	1160	703	18120	2355	2263	1177,5	703	460	1160	18120
48"	900	2495	2348	460	1247,5	1247,5	703	19600	2540	2348	1270	703	460	1247,5	19600
56"	900	2970	2393	460	1485	1485	703	25580	2990	2393	1495	703	460	1485	25580

DIMENSIONS



6" - 56" ANSI 1500 GEAR OP.

SIZE	CLASS	RF							RTJ						
		L	H	K ₁	K	B ₁	B	KG	L	H	B ₁	B	K ₁	K	KG
3"	1500	470	539	127	235	235	251	162	473	539	236,5	251	127	235	162
4"	1500	546	689	284,5	273	273	349	220	549	689	274,5	349	284,5	273	220
6"	1500	705	889	284,5	352,5	352,5	349	527	711	889	355,5	349	284,5	325,5	527
8"	1500	832	1050	299,5	416	416	337	820	841	1050	420,5	337	299,5	416	820
10"	1500	991	1126	318	495,5	495,5	378	1500	1000	1126	500	378	318	495,5	1500
12"	1500	1130	1269	318	565	565	378	2250	1146	1269	573	378	318	565	2250
14"	1500	1257	1356	393,5	628,5	628,5	493	2865	1276	1356	638	493	393,5	628,5	2865
16"	1500	1384	1428	393,5	692	692	493	4140	1407	1428	703,5	493	393,5	692	4140
18"	1500	1537	1495	445,5	768,5	768,5	493	6395	1559	1495	779,5	493	445,5	768,5	6395
20"	1500	1664	1568	445,5	832	832	502	9265	1686	1568	843	502	445,5	832	9265
24"	1500	1782	1633	445,5	891	891	502	14390	1810	1633	905	502	445,5	891	14390
26"	1500	1943	1705	445,5	972	971,5	502	15520	1965	1705	982,5	502	445,5	972	15520
28"	1500	2095	1779	445,5	1047,5	1047,5	502	18856	2105	1779	1052,5	502	445,5	1047,5	18856
30"	1500	2180	1842	460	1090	1090	703	19478	2195	1842	1097,5	703	460	1090	19478
32"	1500	2260	1939	460	1130	1130	703	20365	2284	1939	1142	703	460	1130	20365
36"	1500	2356	2027	460	1178	1178	703	26365	2383	2027	1191,5	703	460	1178	26365
40"	1500	2490	2169	460	1245	1245	703	35698	2510	2169	1255	703	460	1245	35698
42"	1500	2581	2253	460	1291	1290,5	703	38546	2596	2253	1298	703	460	1291	38546
48"	1500	2660	2396	460	1330	1330	703	42597	2688	2396	1344	703	460	1330	42597
56"	1500	2740	2448	460	1370	1370	703	53694	2774	2448	1387	703	460	1370	53694

QUALITY CONTROL



All products are tested According to customer specification with digitally aided valve test benches which correspond %100 of modern requirements . Each valve is delivered to customers as EN10204 3.1 certificated.

- Pressure & Functional Tests according to API 6D, API 6A, API 598, and ISO 5208
- Annex F Design Validation Tests according to API 6D, and API 6A
- Fugitive Emission Tests according to ISO 15848-1



- NDE (Non-destructive testing) activities
 - Visual Examinations
 - Radiographic Tests
 - Ultrasonic Tests
 - Magnetic Particle Examinaions
 - Liquid Penetrant Tests
 - Positive Material Identification - PMI Tests



- Surface Quality Measurements
- Salt Spray Tests
- Adhesion tests
- Cross - Cut Tests
- Pull - Of Tests



- Dimension and Visual Controls



- Torque Tests



- Destructive Tests
 - Tensile Tests
 - Charpy Tests
 - Chemical Impact Tests with - Spectrometer
 - Hardness Tests

CERTIFICATION



- API 6D (Spec. for Pipeline and Piping Valves)
- API 6A (Spec. for Wellhead and Tree Equipment)
- ISO 9001:2015 Certificate
- ISO 14001:2015 Certificate
- ISO 45001:2018 Certificate
- 2014/68/EU PED Certificate
- 2006/42/EC Machinery Directive Certificate

- ISO 15848-1 Fugitive Emission Certificate
- SIL 3 Certificate (Safety Integrity Level Certificate)
- Fire Safe Certificate - ISO 10497
- Fire Safe Certificate - API 6FA
- ATEX (Explosion Protection Certificate)
- EN ISO 14141 Vave Perf.Req. and Test Certificate
- TSE Certificate - TS EN ISO 17292 Certificate

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