



Gate, Globe & Check Valves Manufacturing Catalogue



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1. WHO WE ARE

Expertise is a privately-owned company founded in Genova, Italy, in 1984, thanks to the vision of the President Mr. Ezio Bracco, majority shareholder, parent company of the Expertise Group.

Covering at first the demand of the Italian market for Engineering and Project Management services, during 40 years of history the Group has branched out to different services in the home country and abroad.

With a workforce of over 2000 employees, the Group sees today its presence in Italy, Kazakhstan, Republic of the Congo, United Arab Emirates, Kuwait, Libya and Mozambique.

Expertise is the Parent Company of the following Companies, part of the Group:

- ✓ Expertise Srl (Italy, 1984)
- ✓ Telford International LTD (United Arab Emirates, 1994)
- ✓ KIOS LLP (Kazakhstan, 1999)
- ✓ Expertise Branch, Atyrau (Kazakhstan, 2008)
- ✓ Proteco SARLU - (Republic of Congo, 2009)
- ✓ Expertise LLP (Kazakhstan, 2011)
- ✓ Expertise Libya for Oil Operations JSC (Libya, 2011)
- ✓ Expertise Mozambique Limitada (Mozambique, 2013)
- ✓ Expertise Branch Kuwait (Kuwait, 2017)
- ✓ KIOS TechFlow LLP (Kazakhstan, 2017)
- ✓ KIOS Maintenance Solutions LLP (Kazakhstan, 2021)
- ✓ Expertise Kuwait Oil Well Drilling WLL (Kuwait, 2021)

The services rendered across the various countries include Engineering and Project Management, Technical Assistance Services, HSE and Operations & Maintenance Services to the Oil & Gas, Refining, Petrochemical, Chemical, Power and Desalination Industries, as well as Integrated Field Services to the Upstream Industry.

The Expertise Group prides itself in carrying out all works at the highest achievable standards and it places notable emphasis on project management through strict QA/QC procedures, applied to all projects to constantly monitor both quality and progress.

Through its business activities the Expertise Group has been involved in major onshore and offshore developments and at drilling/production installations, working with many of the major Operators and Contractors worldwide.

Expertise' established record of success has been achieved by providing quality and innovative services with unrivalled commitment and flexibility. Throughout the years, the group has continuously increased its technical know-how and organisational capabilities in order to broaden the range of services provided.

Our clients have always recognized that our strength lays in our name, in a word Expertise. We do make a difference with our expertise.



2. KIOS TECHFLOW LLP

In 2017 a Joint Venture was created in Aksai, Kazakhstan with the aim to support the local need for Critical Maintenance of Valves which, in 2020 was fully acquired by Expertise Group renaming it KIOS Techflow LLP bringing under its umbrella a full capability for valve maintenance in country.

KIOS Techflow is currently located in Aksai where a state of the art workshop is present in order to increase the demand for quick delivery valves and high turnaround maintenance and repair works required on installed valves.



KIOS Techflow made a name for itself tackling the criticality of a damaged valves, either on site or in our workshop, to engineer and produce components in order to restore the valve in a quick and satisfactory manner.

The aim of this service is granting to the client the minimum downtime due to the valve not operational condition.

Among the various services, KIOS Techflow LLP can provide, Reverse Engineering on partner OEM, Upgrading & Modification, Critical/Complex Overhauling & Re-certification, Advanced Balls Grinding/Lapping Machining & Sealing Areas Semi-Automatic Welding Overlay, Valves/Actuators (Assembly) Torques Measuring & Monitoring and Actuators Static Torque Peak Measuring & Endurance Dynamic Test.

During the recent years we have supported also the various requirements for new valves cooperating with some of the top notch Italian Valve maker as Orion S.p.A. and Actuator makers as DVG Srl.

<Nevertheless, as the local market is demanding higher localization of the product, Expertise Group decided to move towards a major milestone, obtaining the Certification for API6D, API600 and API602.



KIOS Techflow LLP can proudly provide now valves made in Kazakhstan.

KIOS Techflow is also accredited with ISO 9001, 18001 and 45001.



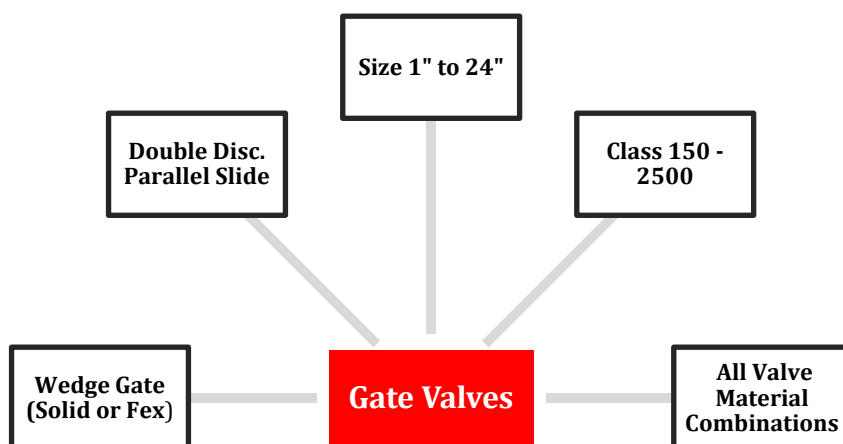
3. VALVES MANUFACTURING

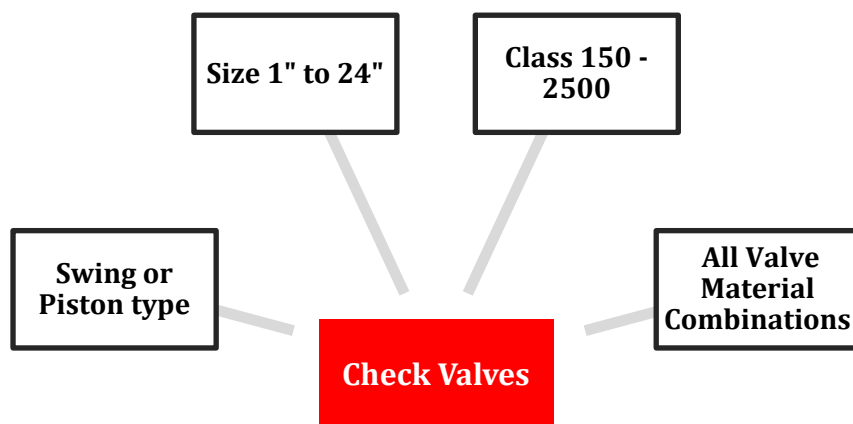
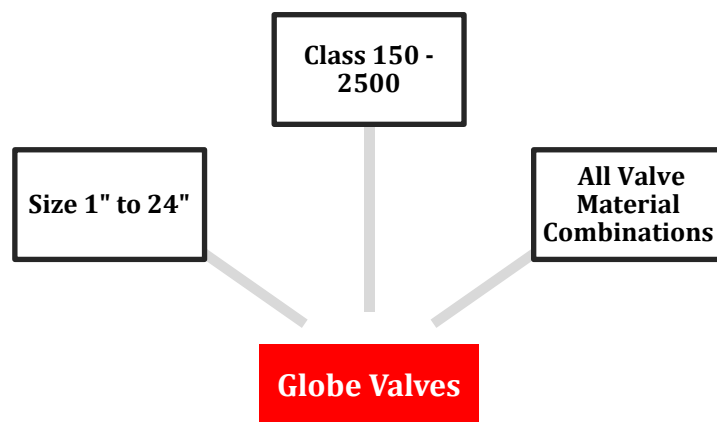


In its seven years of operation, KIOS TECHFLOW LLP has developed comprehensive internal engineering resources capable of managing the entire valve manufacturing process. This capability is crucial for greenfield projects and even more so for replacement valves in brownfield sites. KIOS TECHFLOW LLP can meet all valve supply demands throughout the lifecycle of an Oil & Gas field. Furthermore, we produce and test all our products locally, ensuring high local content and providing a CT-KZ certificate.

Our design features are tailored specifically for the Oil & Gas industry, incorporating robustness, ease of maintenance, and optimal performance under extreme conditions. This includes gate, globe and check valves. Our valves cater to all applications, including special and critical ones. KIOS TECHFLOW LLP offers a tailored material selection, providing valves in Carbon Steel, Stainless Steel, Duplex/Super Duplex, Nickel alloys, and ensuring compliance with NACE MR0175 standards.

Our commitment to quality and compliance guarantees that we meet the stringent demands of the Oil & Gas sector, delivering solutions that ensure operational efficiency and longevity in every valve. Our range includes gate, globe and check valves, constructed to API 600 / 602, API 6D, BS 1873 / 5352 standards, with side-entry and top-entry designs. These valves feature bolted bonnet or pressure - seal, OS & Y rising stem, flanged RF, weld ends or NPT, ANSI B16.10, or special face-to-face dimensions. They are available in full/reduced bore, with a seat leakage rate to ISO 5208 Rate A, anti-static devices, blowout-proof stems, vent and drain options. Additionally, the valves can be supplied with manual operation or actuation.



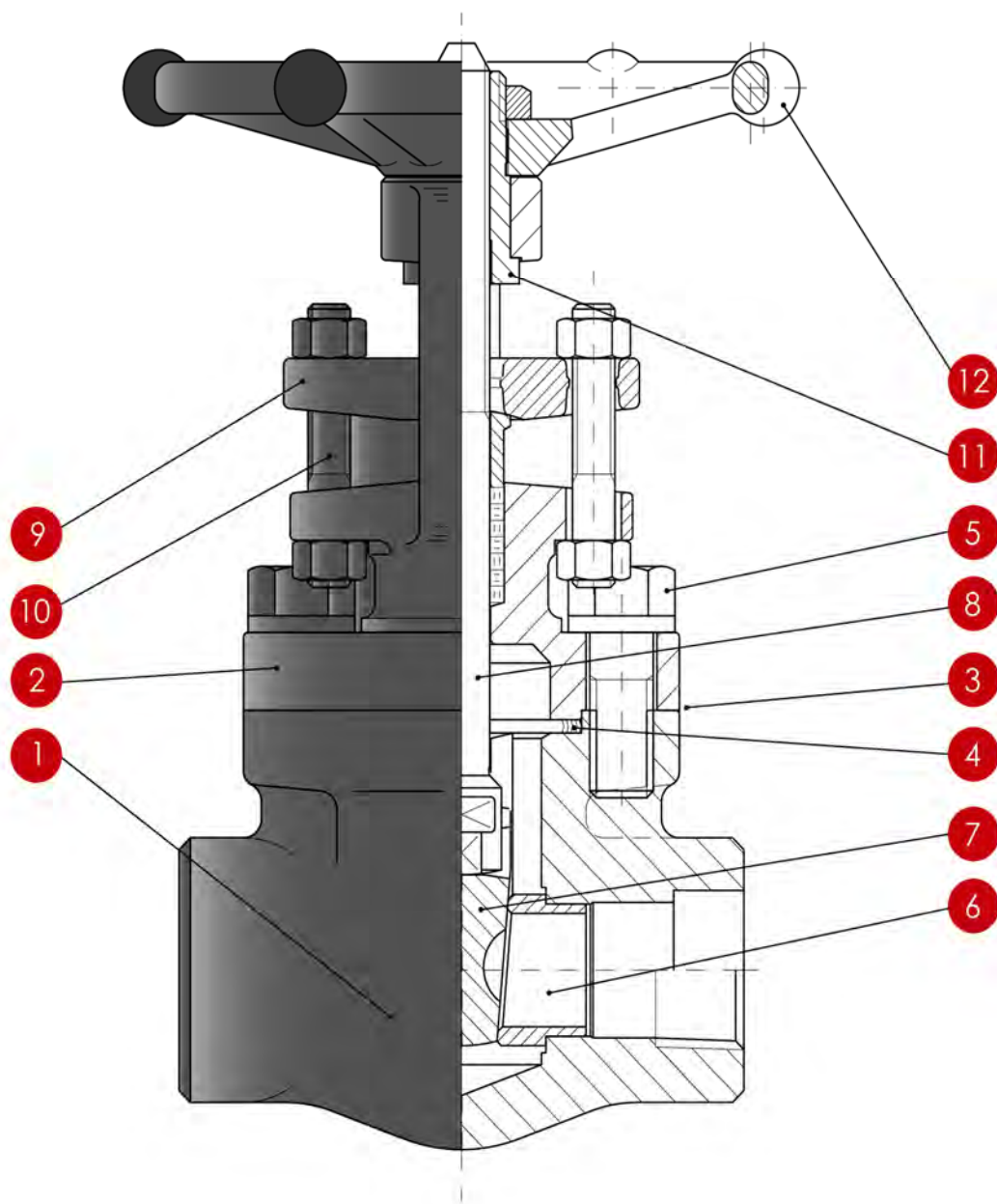




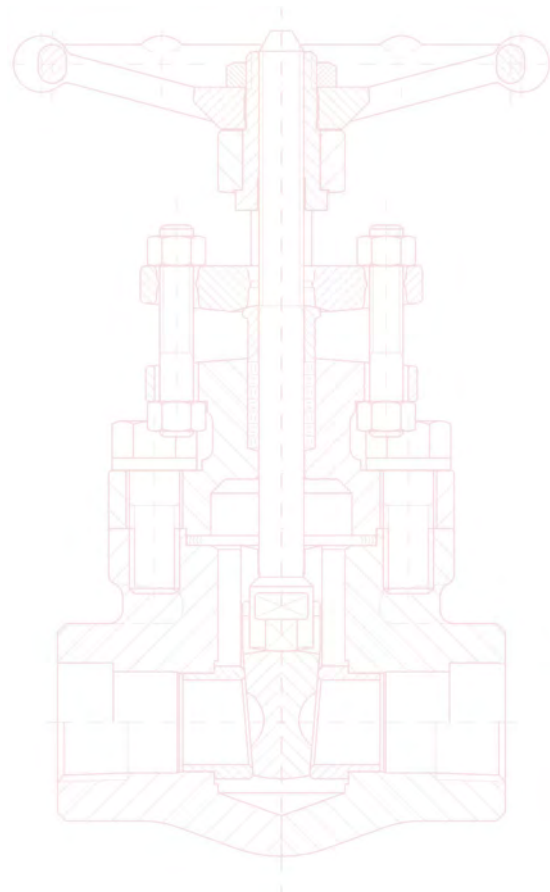
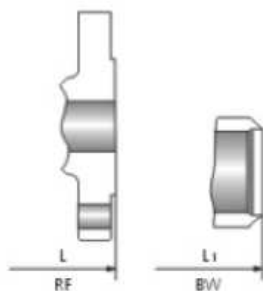
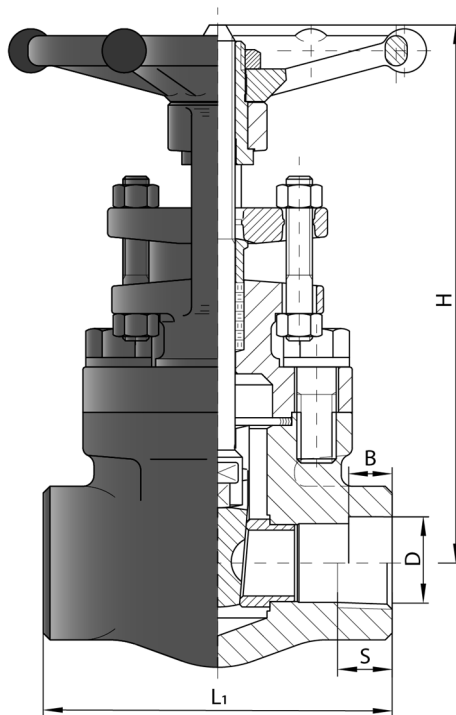
Gate Valves



3.1 FORGED GATE VALVES



POS.	DESCRIPTION
01	BODY
02	BONNET
03	BODY-BONNET JOINT
04	GASKET
05	BONNET BOLTING
06	SEAT RINGS
07	WEDGE
08	STEM
09	GLAND AND FLANGE
10	GLAND BOLTS AND NUTS
11	YOKE SLEEVE
12	HANDWHEEL



ASME CLASS 150

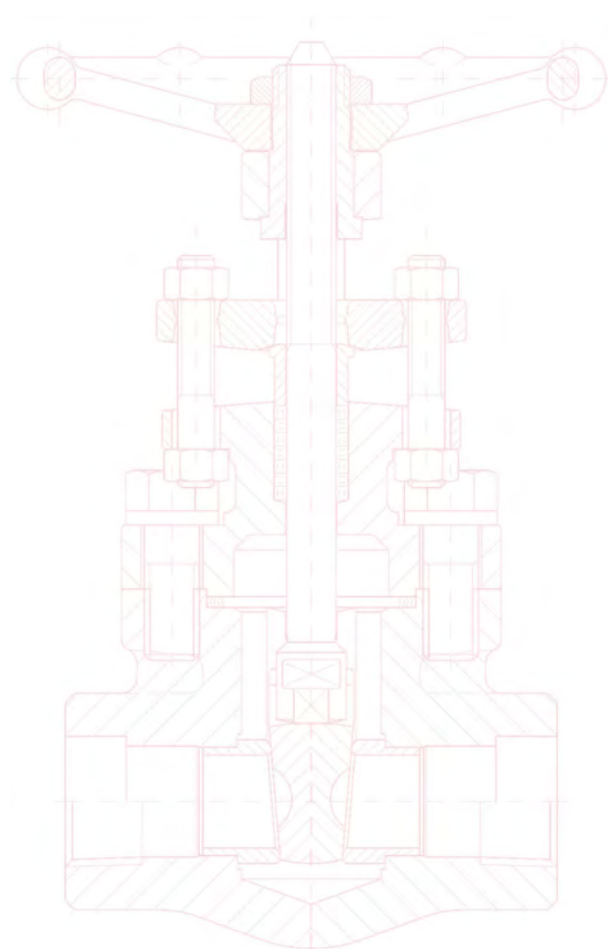
SIZE	L-RF	L-BW	L-SW/NPT	d	D	B	S	H	WEIGHT
3/8"	102	79	79	10	17.6	9.6	13.6	151	4.5
1/2"	108	79	79	10	21.8	9.6	13.6	151	5.1
3/4"	117	92	92	13.5	27.1	12.7	13.9	158	8.2
1"	127	111	111	18	33.8	12.7	17.3	185	10.5
1.1/4"	140	120	120	24	42.6	12.7	18	239	12.4
1.1/2"	165	120	120	30	48.7	12.7	18.4	243	20.1
2"	178	140	140	36.5	61.1	15.9	19.2	279	28

ASME CLASS 300

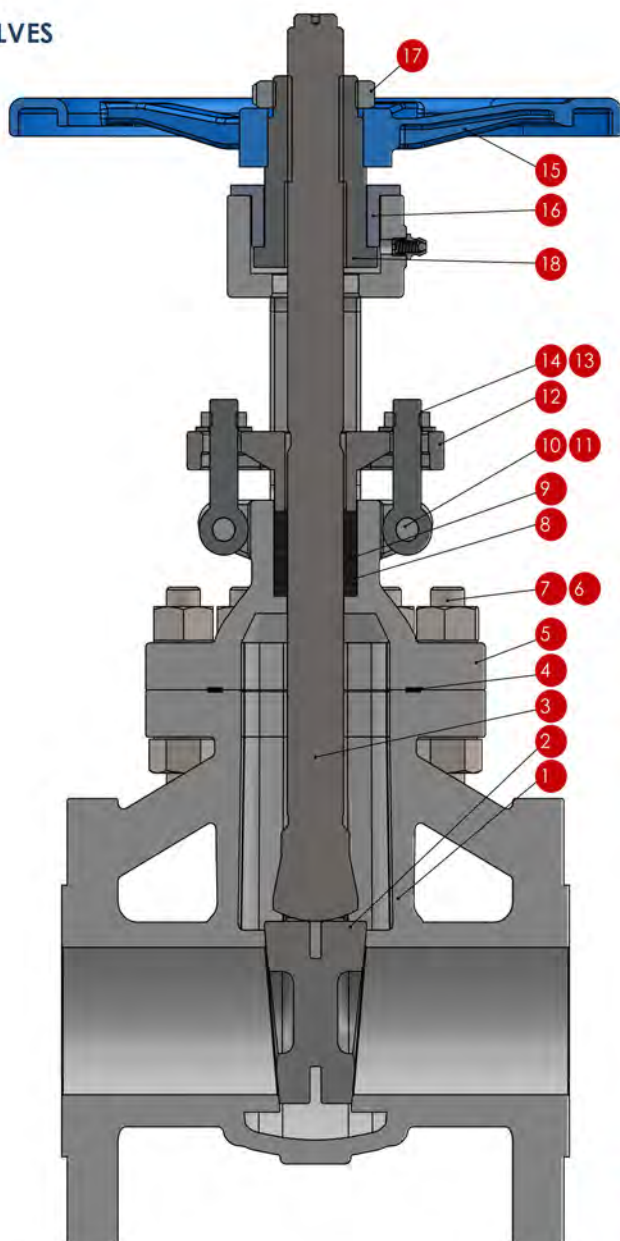
SIZE	L-RF	L-BW	L-SW/NPT	d	D	B	S	H	WEIGHT
3/8"	140	79	79	10	17.6	9.6	13.6	151	4.5
1/2"	140	79	79	10	21.8	9.6	13.6	151	5.1
3/4"	152	92	92	13.5	27.1	12.7	13.9	158	8.2
1"	165	111	111	18	33.8	12.7	17.3	185	10.5
1.1/4"	178	120	120	24	42.6	12.7	18	239	12.4
1.1/2"	190	120	120	30	48.7	12.7	18.4	243	20.1
2"	216	140	140	36.5	61.1	15.9	19.2	279	28

ASME CLASS 600 / 800									
SIZE	L-RF	L-BW	L-SW/NPT	d	D	B	S	H	WEIGHT
3/8"	165	79	79	10	17.6	9.6	13.6	151	4.5
1/2"	165	79	79	10	21.8	9.6	13.6	151	5.1
3/4"	190	92	92	13.5	27.1	12.7	13.9	158	8.2
1"	216	111	111	18	33.8	12.7	17.3	185	10.5
1.1/4"	229	120	120	24	42.6	12.7	18	239	12.4
1.1/2"	241	120	120	30	48.7	12.7	18.4	243	20.1
2"	292	140	140	36.5	61.1	15.9	19.2	279	28

ASME CLASS 900 / 1500									
SIZE	L-RF	L-BW	L-SW/NPT	H	WEIGHT				
3/8"	95	-	-	169	2.5				
1/2"	111	216	216	197	4.3				
3/4"	111	229	229	197	4.2				
1"	120	254	254	236	6.6				
1.1/4"	120	279	279	246	8.8				
1.1/2"	140	305	305	283	12.5				
2"	178	368	368	330	17.2				



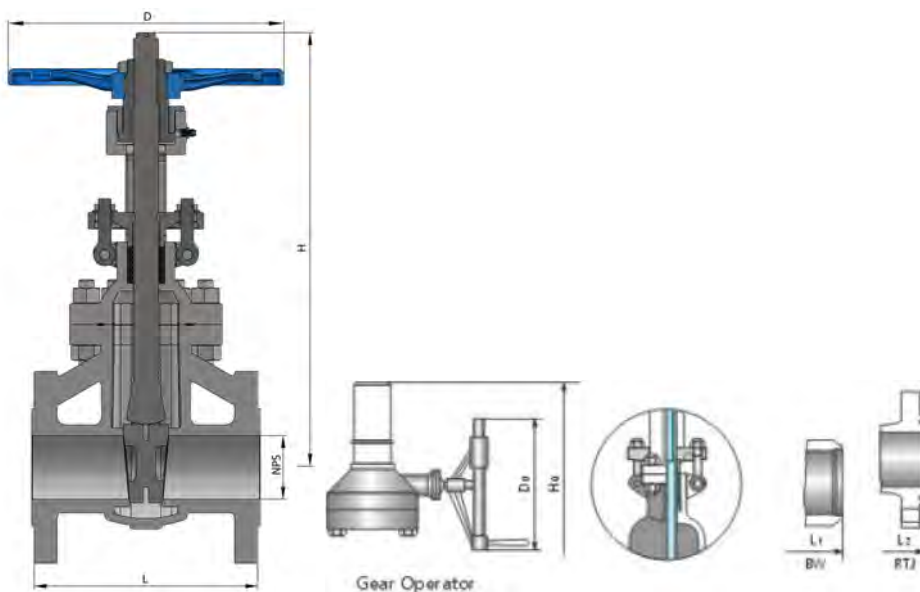
3.2 CASTED GATE VALVES



POS.

DESCRIPTION

01	BODY
02	WEDGE
03	STEM
04	GASKET
05	BONNET
06	NUT
07	BOLT
08	PACKING
09	PIN
10	SLIP PIN
11	LAND FLANGE
12	CLAMP
13	NUT
14	EYE BOLT
15	HANDWHEEL
16	RETAINER NUT
17	HANDWHEEL NUT
18	STEM NUT



ASME CLASS 150

SIZE	L- RF	L - BW	L - RTJ	H	H ₀	D	D ₀	WEIGHT
2"	178	216	191	355	-	200	-	20
2.1/2"	191	241	203	365	-	200	-	23
3"	203	283	216	430	-	250	-	32
4"	229	305	241	495	-	280	-	45
6"	267	403	279	620	795	300	310	75
8"	292	419	305	775	1015	400	310	120
10"	330	457	343	935	1210	500	310	180
12"	356	502	368	1110	1405	500	460	265
14"	381	572	394	1250	1535	600	460	365
16"	406	610	419	1420	1780	600	460	485
18"	432	660	445	-	2030	-	460	651
20"	457	711	470	-	2300	-	530	863
24"	508	813	521	-	2600	-	530	1165

ASME CLASS 300

SIZE	L- RF	L - BW	L - RTJ	H	H ₀	D	D ₀	WEIGHT
2"	216	216	232	364	-	200	-	26
2.1/2"	241	241	257	385	-	200	-	36
3"	283	283	298	445	-	280	-	55
4"	305	305	321	520	650	300	310	67
6"	403	403	419	649	835	350	310	147
8"	419	419	435	798	1030	400	310	228
10"	457	457	473	1000	1255	450	460	332
12"	502	502	518	1129	1460	500	460	512
14"	762	762	778	1195	1585	600	460	715
16"	838	838	854	-	1830	-	460	965
18"	914	914	930	-	2000	-	460	1224
20"	991	991	1010	-	2175	--	530	1400
24"	1143	1143	1165	-	2620	--	530	2385



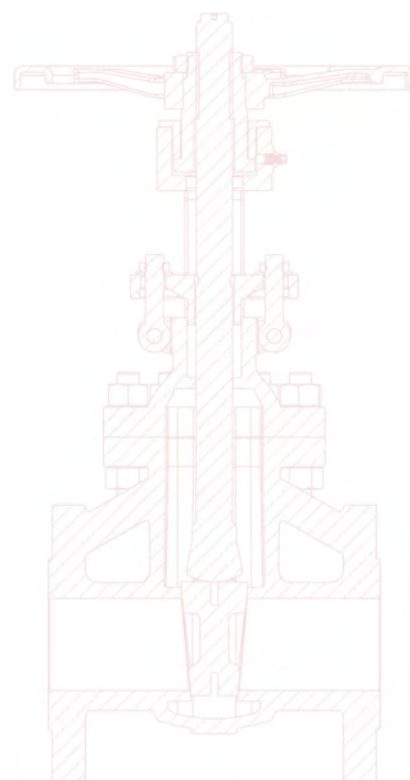
ASME CLASS 600								
SIZE	L- RF	L - BW	L - RTJ	H	H ₀	D	D ₀	WEIGHT
2"	292	292	295	380	--	250	--	37
2.1/2"	330	330	333	420	-	280	-	50
3"	356	356	359	500	585	300	310	82
4"	432	432	435	575	695	350	310	142
6"	559	559	562	750	900	450	460	245
8"	660	660	664	850	1110	550	460	423
10"	787	787	791	1005	1300	650	460	682
12"	838	838	841	1130	1650	700	460	932
14"	889	889	892	1270	1750	900	530	1177
16"	991	991	994	1365	1900	900	530	1513
18"	1092	1092	1095	-	2020	-	600	1980
20"	1194	1194	1200	-	2172	-	600	2460
24"	1397	1397	1407	-	2650	-	600	3650

ASME CLASS 900								
SIZE	L- RF	L - BW	L - RTJ	H	H ₀	D	D ₀	WEIGHT
2"	368	368	371	430	-	300	-	70
2.1/2"	419	419	422	490	-	350	-	110
3"	381	381	384	505	-	350	310	140
4"	457	457	460	575	625	400	310	178
6"	610	610	613	795	900	500	460	358
8"	737	737	740	885	1000	650	460	550
10"	838	838	841	1035	1130	700	530	1000
12"	965	965	968	1180	1520	900	530	1215
14"	1029	1029	1038	1350	1600	900	530	1600
16"	1130	1130	1140	1890	2100	900	600	2150
18"	1219	1219	-	-	2232	-	800	3000
20"	1321	1321	-	-	2435	-	800	3800
24"	1549	1549	-	-	2640	-	950	4650



ASME CLASS 1500								
SIZE	L- RF	L - BW	L - RTJ	H	H _o	D	D _o	WEIGHT
2"	368	368	371	430	-	300	-	70
2.1/2"	419	419	422	490	-	350	-	110
3"	470	470	473	540	680	400	310	175
4"	546	546	549	650	810	500	310	270
6"	705	705	711	835	1035	600	460	520
8"	832	832	841	925	1180	750	530	820
10"	991	991	1000	1230	1525	900	600	1560
12"	1130	1130	1146	-	1620	-	600	2120
14"	1257	1257	1276	-	1905	-	600	3306
16"	1384	1384	1407	-	2050	-	600	5300
18"	1537	1537	1559	-	2380	-	600	8070
20"	1664	1664	1686	-	2580	-	600	11790
24"	1943	1943	1971	-	2915	-	600	14275

ASME CLASS 2500								
SIZE	L- RF	L - BW	L - RTJ	H	H _o	D	D _o	WEIGHT
2"	368	368	371	430	-	300	-	70
2.1/2"	419	419	422	490	-	350	-	110
3"	470	470	473	540	680	400	310	175
4"	546	546	549	650	810	500	310	270
6"	705	705	711	835	1035	600	460	520
8"	832	832	841	925	1180	750	530	820
10"	991	991	1000	1230	1525	900	600	1560
12"	1130	1130	1146	-	1620	-	600	2120

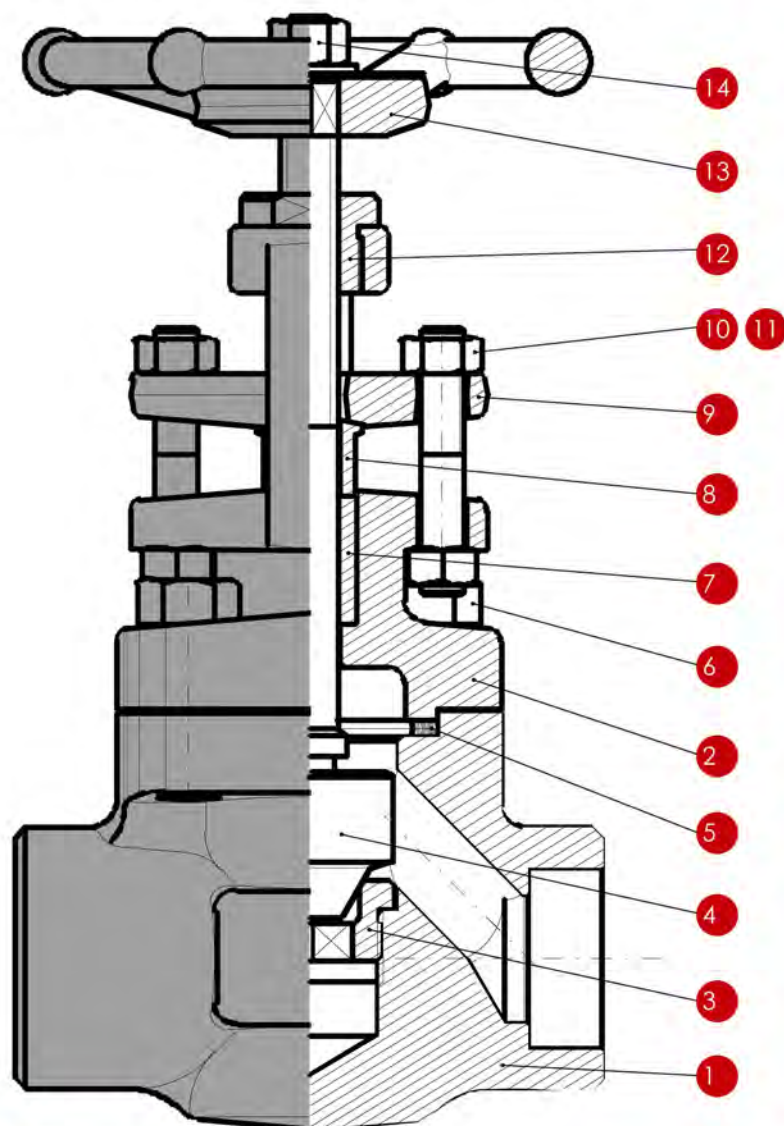




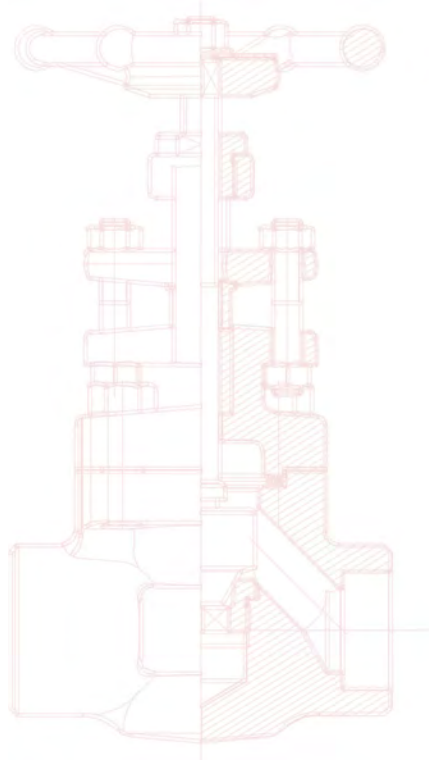
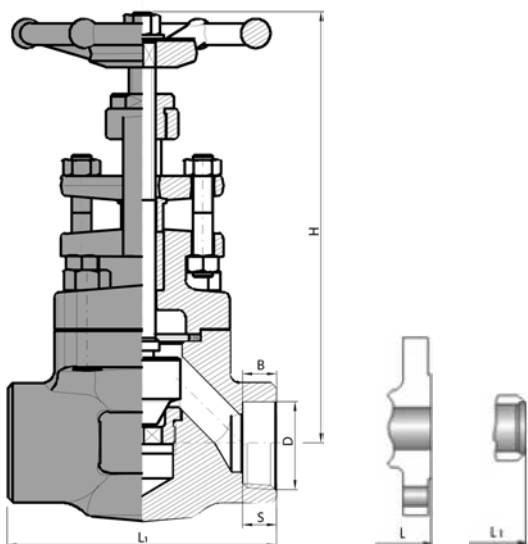
Globe Valves



3.3 FORGED GLOBE VALVES



POS.	DESCRIPTION
01	BODY
02	BONNET
03	DISC
04	STEM
05	BONNET GASKET
06	BONNET STUD
07	PACKING
08	GLAND
09	GLAND FLANGE
10	BOLT
11	NUT
12	YOKE SLEEVE
13	HANDWHEEL
14	HANDWHEEL NUT



ASME CLASS 150

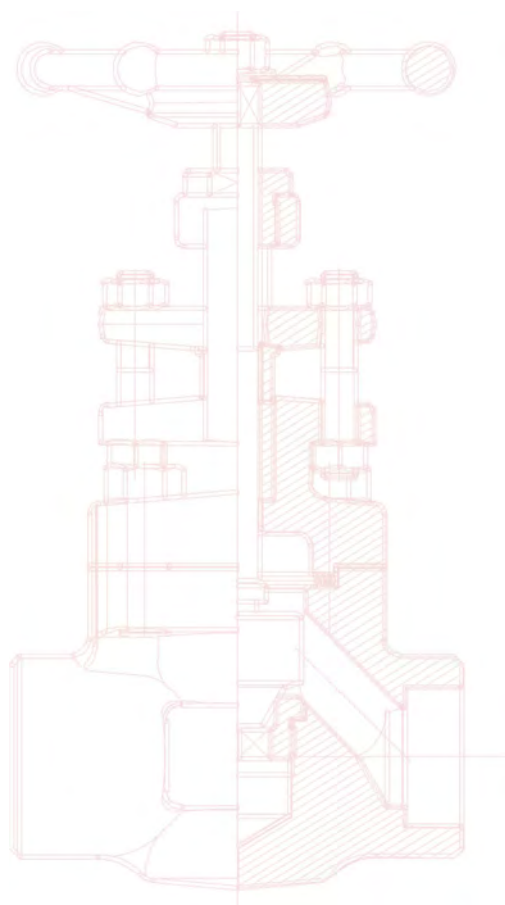
SIZE	L-RF	L-BW	L-SW/NPT	d	D	B	S	H	WEIGHT
3/8"	79	102	9	17.6	9.6	13 6	164	100	3.8
1/2"	79	108	9	21.8	9.6	13 6	164	100	5.6
3/4"	92	117	13	27.1	12.7	13 9	164	100	7.8
1"	111	127	17.5	33.8	12.7	17.3	203	125	12.5
1.1/4"	120	140	23	42.6	12.7	18	224	160	17
1.1/2"	152	165	29	48.7	12.7	18.4	260	160	23.5
2"	172	203	35	61.1	15.9	19.2	300	180	38.8

ASME CLASS 300

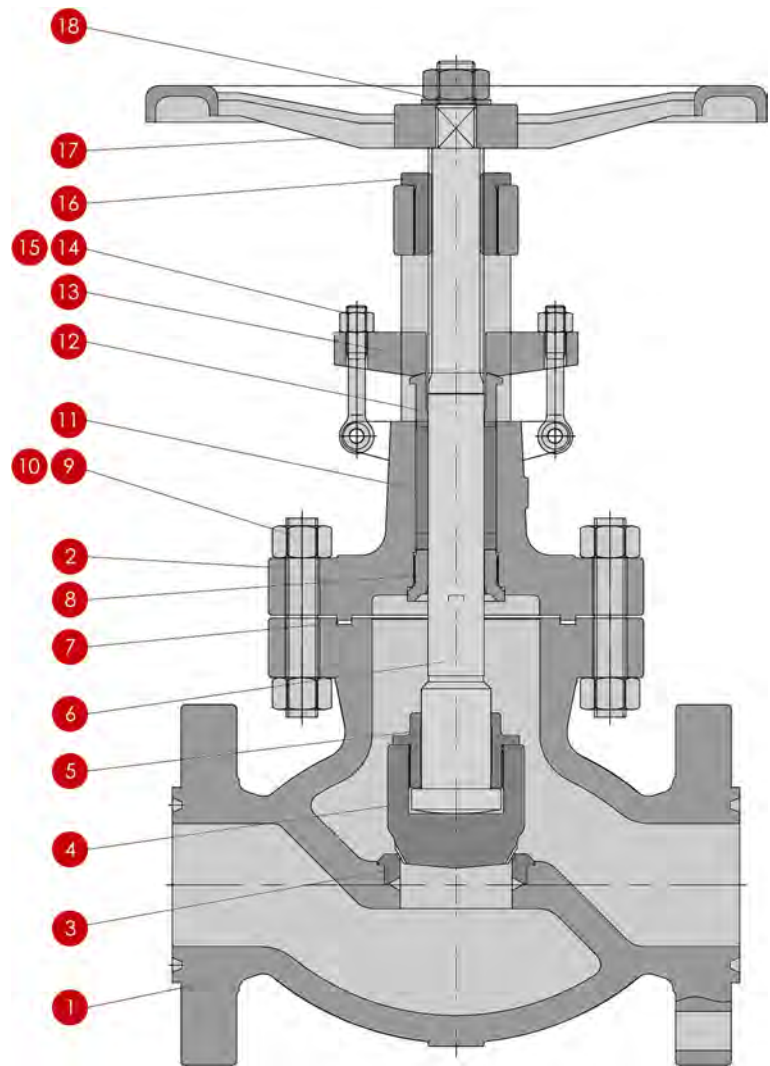
SIZE	L-RF	L-BW	L-SW/NPT	d	D	B	S	H	WEIGHT
3/8"	79	152	9	17.6	9.6	13 6	164	100	3.8
1/2"	79	152	9	21.8	9.6	13 6	164	100	5.6
3/4"	92	178	13	27.1	12.7	13 9	164	100	7.8
1"	111	203	17.5	33.8	12.7	17.3	203	125	12.5
1.1/4"	120	216	23	42.6	12.7	18	224	160	17
1.1/2"	152	229	29	48.7	12.7	18.4	260	160	23.5
2"	172	267	35	61.1	15.9	19.2	300	180	38.8

ASME CLASS 600 / 800									
SIZE	L-RF	L-BW	L-SW/NPT	d	D	B	S	H	WEIGHT
3/8"	79	165	9	17.6	9.6	13 6	164	100	3.8
1/2"	79	165	9	21.8	9.6	13 6	164	100	5.6
3/4"	92	190	13	27.1	12.7	13 9	164	100	7.8
1"	111	216	17.5	33.8	12.7	17.3	203	125	12.5
1.1/4"	120	229	23	42.6	12.7	18	224	160	17
1.1/2"	152	241	29	48.7	12.7	18.4	260	160	23.5
2"	172	292	35	61.1	15.9	19.2	300	180	38.8

ASME CLASS 900 / 1500					
SIZE	L-RF	L-BW	L-SW/NPT	H	WEIGHT
3/8"	92	-	171	100	2.2
1/2"	111	216	207	125	3.7
3/4"	111	229	207	125	3.6
1"	120	254	240	160	6.8
1.1/4"	152	279	258	160	7.6
1.1/2"	172	305	330	180	11.6
2"	210	368	355	200	15.0

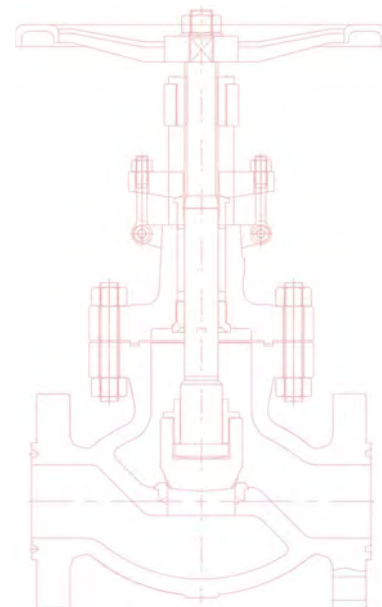
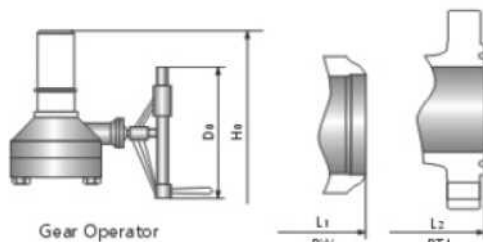
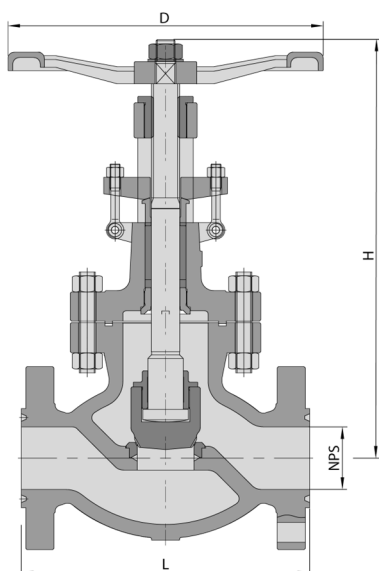


3.4 CASTED GLOBE VALVES



POS.	DESCRIPTION
01	BODY
02	BONNET
03	SEAT
04	DISC
05	DISC NUT
06	STEM
07	GASKET
08	BACKSEAT
09	BOLT
10	NUT
11	PACKING
12	GLAND
13	GLAND FLANGE
14	EYE BOLT
15	NUT
16	STEM NUT
17	HANDWHEEL
18	HANDWHEEL NUT





ASME CLASS 150

SIZE	L- RF	L - BW	L - RTJ	H	H ₀	D	D ₀	WEIGHT
2"	203	216	328	-	200	-	18	203
2.1/2"	216	229	360	-	250	-	26	216
3"	241	254	373	-	250	-	43	241
4"	292	305	400	-	280	-	54	292
6"	406	419	528	556	400	310	95	406
8"	495	508	680	658	450	310	160	495
10"	622	635	775	805	500	460	299	622
12"	698	711	880	955	600	460	373	698
14"	787	800	-	1100	-	460	-	787
16"	914	927	-	1175	-	460	-	914
18"	978	991	-	1450	-	600	-	978
20"	1295	1308	-	1690	-	600	-	1295
24"	203	216	328	-	200	-	18	203

ASME CLASS 300

SIZE	L- RF	L - BW	L - RTJ	H	H ₀	D	D ₀	WEIGHT
2"	267	283	346	-	220	-	29	267
2.1/2"	292	308	390	-	250	-	44	292
3"	318	333	403	--	280	--	59	318
4"	356	371	474	520	350	300	87	356
6"	444	460	635	690	450	310	162	444
8"	559	575	870	950	500	460	281	559
10"	622	638	950	990	600	460	355	622
12"	711	727	1030	1155	700	460	575 -	711
14"	838	-	-	1155	-	600	-	838
16"	864	-	--	1325	--	600	--	864
18"	977	-	930	1473	2000	720	-	977
20"	1016	-	-	1574	-	720	-	1016



ASME CLASS 600								
SIZE	L- RF	L - BW	L - RTJ	H	H ₀	D	D ₀	WEIGHT
2"	292	292	295	380	--	250	--	37
2.1/2"	330	330	333	420	-	280	-	50
3"	356	356	359	500	585	300	310	82
4"	432	432	435	575	695	350	310	142
6"	559	559	562	750	900	450	460	245
8"	660	660	664	850	1110	550	460	423
10"	787	787	791	1005	1300	650	460	682
12"	838	838	841	1130	1650	700	460	932
14"	889	889	892	1270	1750	900	530	1177
16"	991	991	994	1365	1900	900	530	1513

ASME CLASS 900								
SIZE	L- RF	L - BW	L - RTJ	H	H ₀	D	D ₀	WEIGHT
2"	368	371	480	-	300	-	55	368
2.1/2"	419	422	520	-	350	-	68	419
3"	381	384	564	630	400	310	113	381
4"	457	460	685	720	450	310	179	457
6"	610	613	950	1015	600	460	429	610
8"	737	740	1050	-	700	-	815	737
10"	838	841	-	1410	-	600	950	838
12"	368	371	480	-	300	-	55	368

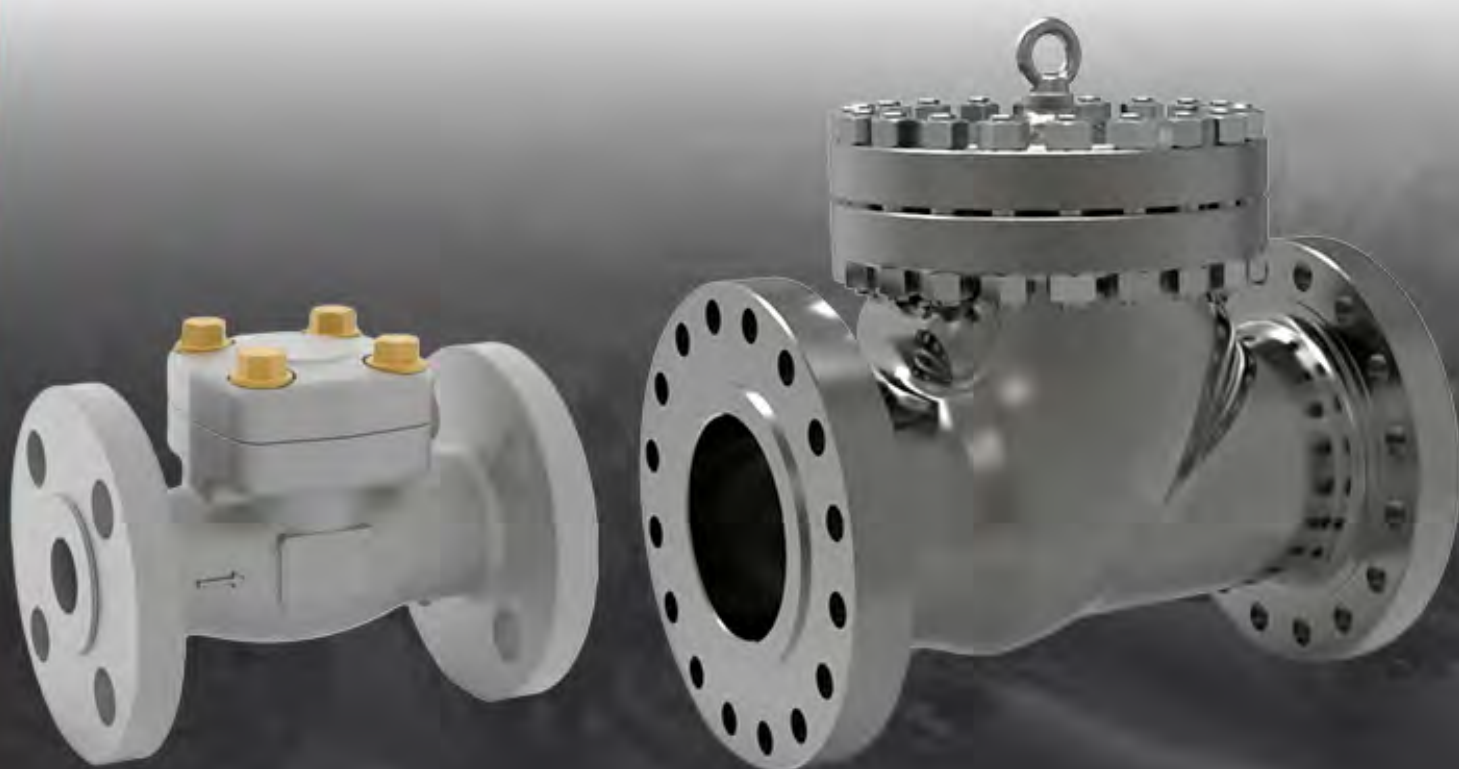
ASME CLASS 1500								
SIZE	L- RF	L - BW	L - RTJ	H	H ₀	D	D ₀	WEIGHT
2"	368	371	505	-	350	-	137	368
2.1/2"	419	422	550	-	400	-	141	419
3"	470	473	630	765	400	310	261	470
4"	546	549	808	890	450	310	336	546
6"	705	711	930	1020	600	530	966	705
8"	832	841	-	1230	-	530	1280	832
10"	991	1001	-	1500	-	650	1550	991

ASME CLASS 2500								
SIZE	L- RF	L - BW	L - RTJ	H	H ₀	D	D ₀	WEIGHT
2"	451	454	495	-	400	-	117	451
2.1/2"	508	514	495	-	500	-	117	508
3"	578	584	603	-	550	-	195	578
4"	673	683	685 -	-	600 -	-	260 -	673
6"	914	927	711	1371	1035	500	460	914
8"	1022	1038	-	1600	-	600	-	1022
10"	1270	1292	-	1230	-	-	-	1270





Check Valves



КИОС ТЕХФЛОУ

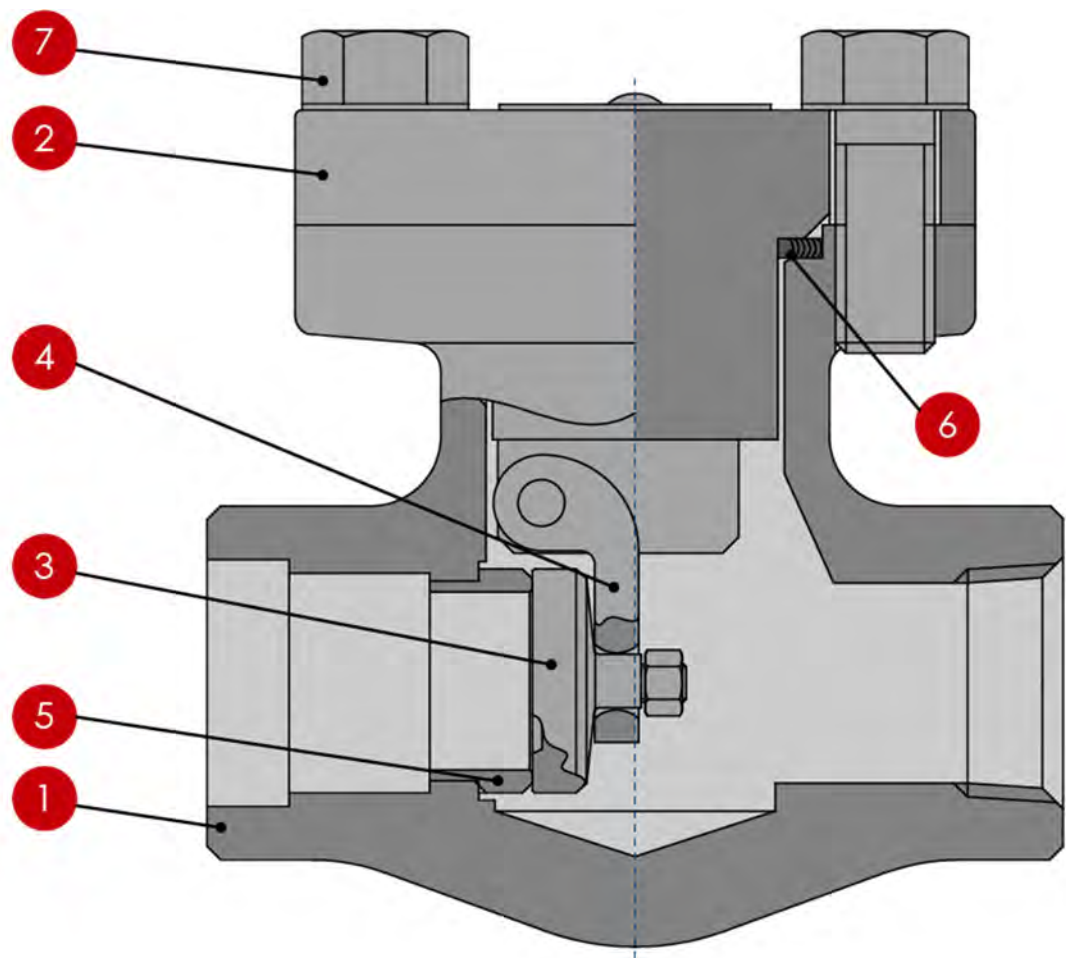


KIOS TECHFLOW

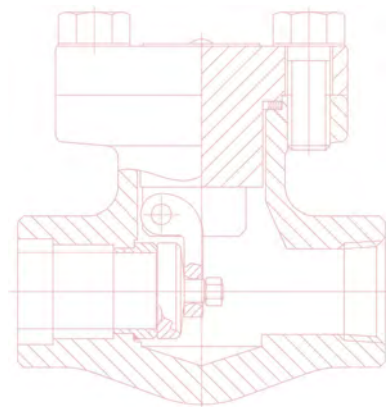
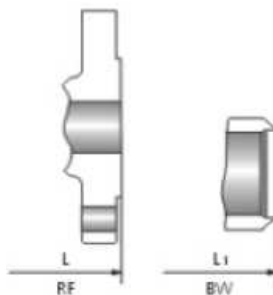
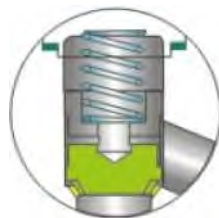
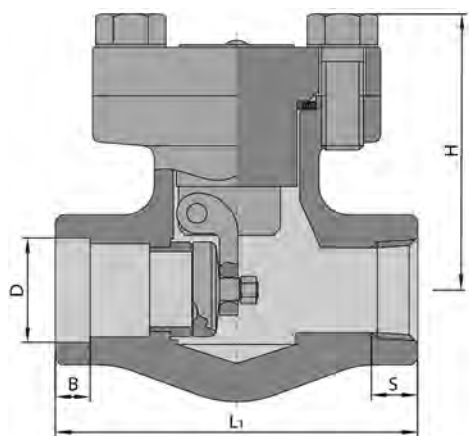
EXPERTISE Group



3.5 FORGED CHECK VALVES



POS.	DESCRIPTION
01	BODY
02	BONNET
03	DISC
04	HINGE
05	SEAT
06	BONNET GASKET
07	BONNET STUD

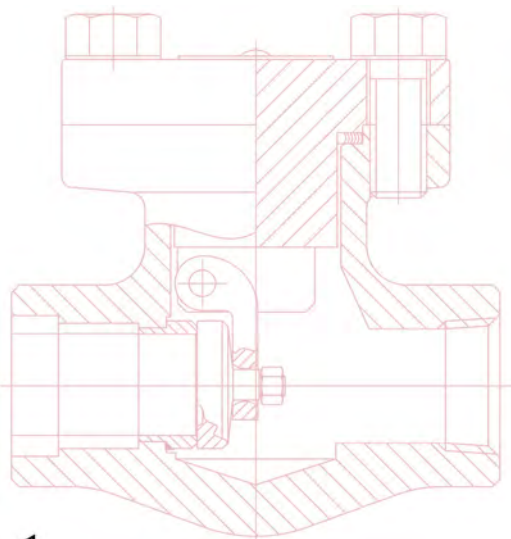


ASME CLASS 150

SIZE	L-RF	L-BW	L-SW/NPT	d	D	B	S	H	WEIGHT
3/8"	79	102	9	17.6	9.6	13.6	61	3.8	79
1/2"	79	108	10	21.8	9.6	13.6	61	5.6	79
3/4"	92	117	13	27.1	12.7	13.9	61	7.8	92
1"	111	127	17.5	33.8	12.7	17.3	78	12.5	111
1.1/4"	120	140	23	42.6	12.7	18	84	17	120
1.1/2"	120	165	30	48.7	12.7	18.4	3.98	23.5	120
2"	140	203	35	61.1	15.9	19.2	120	38.8	140

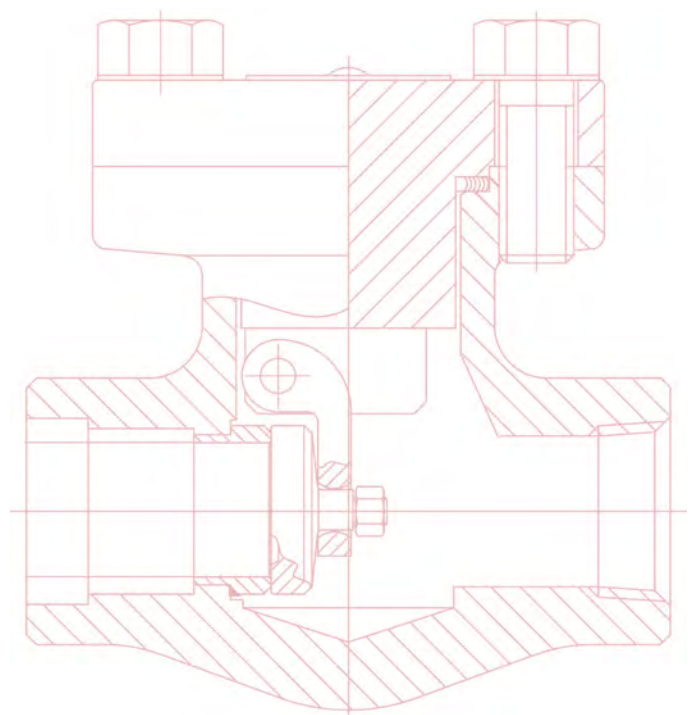
ASME CLASS 300

SIZE	L-RF	L-BW	L-SW/NPT	d	D	B	S	H	WEIGHT
3/8"	79	152	9	17.6	9.6	13.6	61	3.8	79
1/2"	79	152	10	21.8	9.6	13.6	61	5.6	79
3/4"	92	178	13	27.1	12.7	13.9	61	7.8	92
1"	111	203	17.5	33.8	12.7	17.3	78	12.5	111
1.1/4"	120	216	23	42.6	12.7	18	84	17	120
1.1/2"	120	229	30	48.7	12.7	18.4	3.98	23.5	120
2"	140	267	35	61.1	15.9	19.2	120	38.8	140

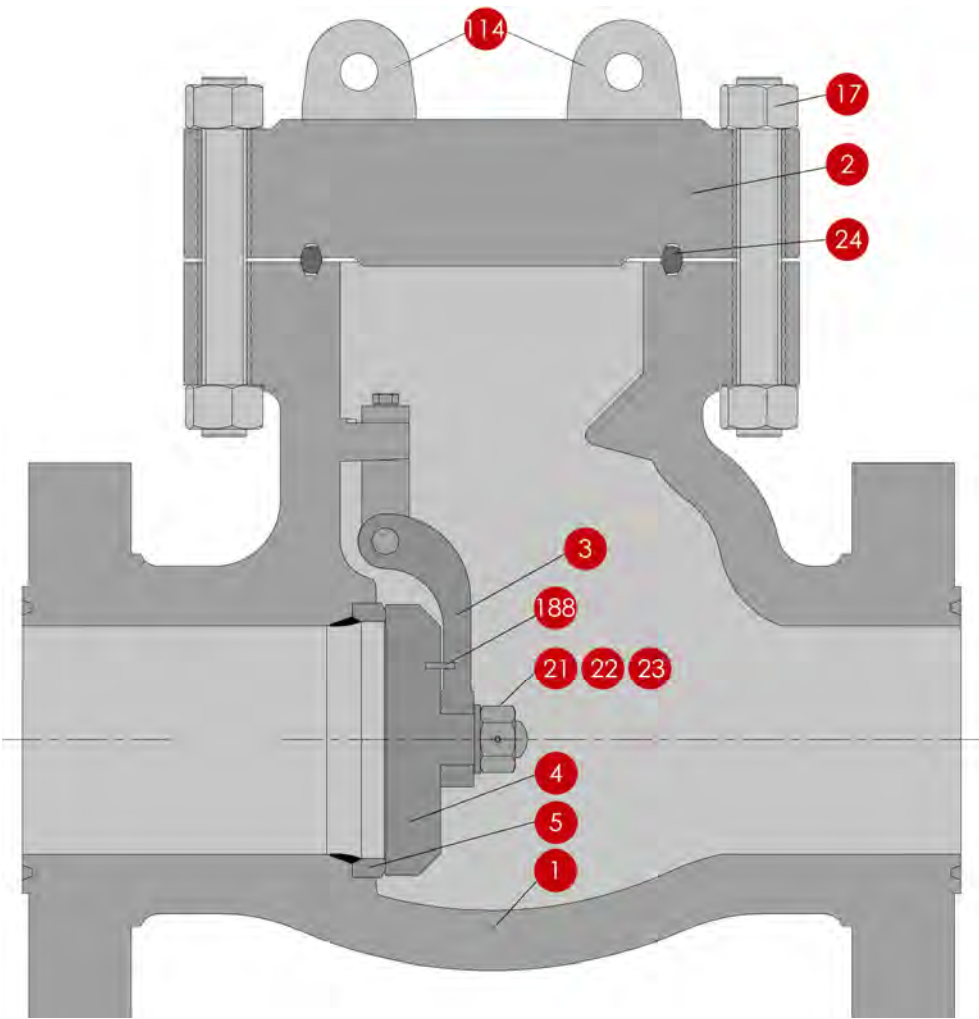


ASME CLASS 600 / 800									
SIZE	L-RF	L-BW	L-SW/NPT	d	D	B	S	H	WEIGHT
3/8"	79	165	9	17.6	9.6	13.6	61	3.8	79
1/2"	79	165	10	21.8	9.6	13.6	61	5.6	79
3/4"	92	190	13	27.1	12.7	13.9	61	7.8	92
1"	111	216	17.5	33.8	12.7	17.3	78	12.5	111
1.1/4"	120	229	23	42.6	12.7	18	84	17	120
1.1/2"	120	241	30	48.7	12.7	18.4	3.98	23.5	120
2"	140	292	35	61.1	15.9	19.2	120	38.8	140

ASME CLASS 900 / 1500					
SIZE	L-RF	L-BW	L-SW/NPT	H	WEIGHT
3/8"	-	95	79	3.1	-
1/2"	216	111	79	3.0	216
3/4"	229	111	79	3.6	229
1"	254	120	97	4.3	254
1.1/4"	279	120	105	6.1	279
1.1/2"	305	140	120	8.8	305
2"	368	178	140	12.6	368

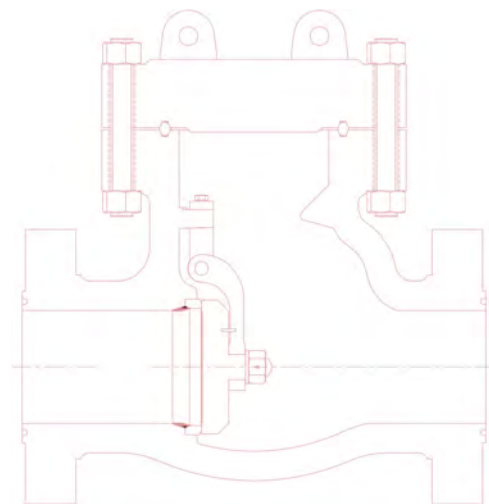
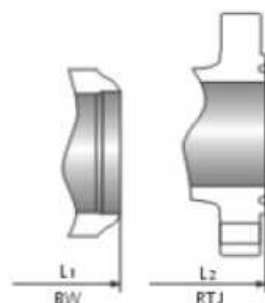
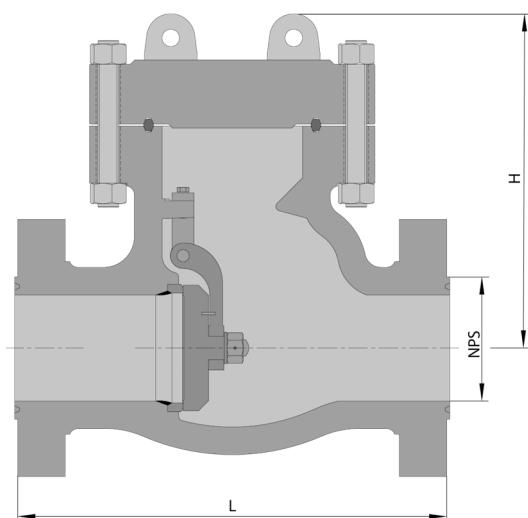


3.6 CASTED CHECK VALVES



POS.	DESCRIPTION
01	BODY
02	COVER
03	HINGE
04	DISC
05	SEAT (SEAL WELDED)
17	BODY / COVER BOLT + NUT
21	WASHER
22	DISC NUT
23	COTTER PIN
24	GASKET (RING JOINT)
114	LIFTING LUG
188	ANTI-ROTATION PIN





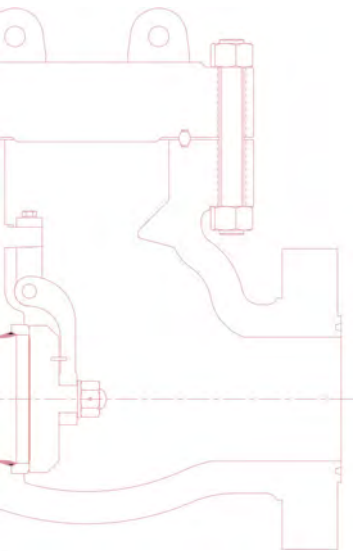
ASME CLASS 150

SIZE	L - RF	L - BW	L - RTJ	H	WEIGHT
2"	203	203	216	138	12
2.1/2"	216	216	229	160	19
3"	241	241	254	172	24
4"	292	292	305	245	37
6"	356	356	368	280	61
8"	495	495	508	347	1 15
10"	622	622	635	390	180
12"	698	698	711	435	310
14"	787	787	800	465	400
16"	864	864	877	525	503
18"	978	978	91 1	580	630
20"	978	978	991	615	791
24"	1295	1295	1308	710	960

ASME CLASS 300

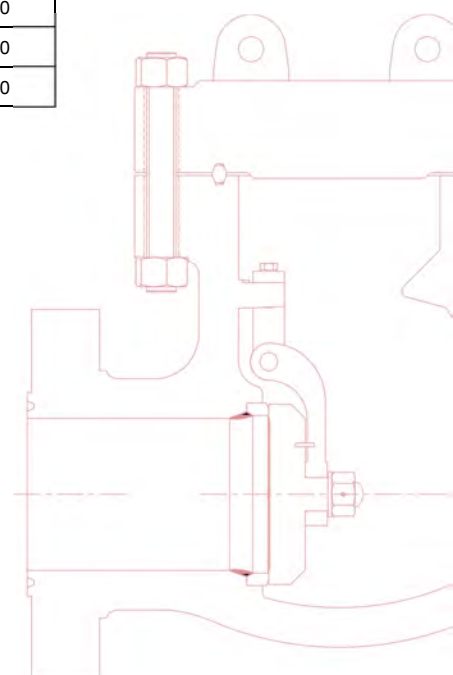
SIZE	L - RF	L - BW	L - RTJ	H	WEIGHT
2"	203	267	283	150	18
2.1/2"	216	292	308	178	35
3"	241	318	333	223	37
4"	292	356	371	255	57
6"	406	444	460	310	120
8"	495	533	549	355	194
10"	622	622	638	445	280
12"	698	711	727	485	450
14"	787	838	854	515	587
16"	914	864	879	560	761
18"	978	978	994	620	1030
20"	1295	1016	1035	685	1191
24"	203	1346	1368	760	1892





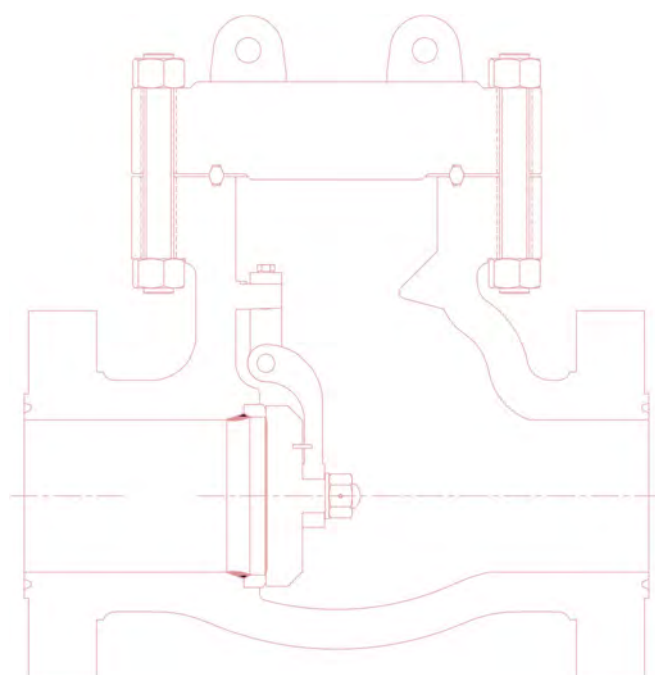
ASME CLASS 600					
SIZE	L- RF	L - BW	L - RTJ	H	WEIGHT
2"	292	292	295	170	28
2.1/2"	330	330	333	178	35
3"	356	356	359	225	41
4"	432	432	435	275	88
6"	559	559	562	385	181
8"	660	660	664	445	357
10"	787	787	791	500	500
12"	838	838	841	570	650
14"	889	889	892	590	889
16"	991	991	994	650	1285
18"	1092	1092	1095	778	1800
20"	1194	1194	1200	970	2150
24"	1397	1397	1407	1100	3200

ASME CLASS 900					
SIZE	L- RF	L - BW	L - RTJ	H	WEIGHT
2"	368	368	371	183	72
2.1/2"	419	419	422	220	75
3"	381	381	384	280	80
4"	457	457	460	315	127
6"	610	610	613	390	260
8"	737	737	740	460	410
10"	838	838	841	540	754
12"	965	965	968	640	818
14"	1029	1029	1039	680	1180
16"	1130	1130	1 140	780	1909
18"	1219	1219	1232	845	2500
20"	1321	1321	1334	1050	2960
24"	1549	1549	1568	1200	4600



ASME CLASS 1500					
SIZE	L- RF	L - BW	L - RTJ	H	WEIGHT
2"	368	368	371	265	72
2.1/2"	419	419	422	240	75
3"	470	470	473	303	110
4"	546	546	549	340	205
6"	705	705	711	430	450
8"	832	832	841	500	634
10"	991	991	1000	605	1140
12"	1130	1130	1146	785	1939
14"	1257	1257	1276	830	2000
16"	1384	1384	1407	950	2700
18"	1537	1537	1559	1080	3960
20"	1686	1686	1145	4400	1686

ASME CLASS 2500					
SIZE	L- RF	L - BW	L - RTJ	H	WEIGHT
2"	451	451	454	285	93
2.1/2"	508	508	514	305	100
3"	578	578	584	350	196
4"	673	673	683	410	440
6"	914	914	927	540	868
8"	1022	1022	1038	620	970
10"	1270	1270	1292	705	1700
12"	1422	1422	1444	855	2080





workshop & equipments



4. WORKSHOP AND EQUIPMENT

KIOS TECHFLOW LLP has a workshop of 2,150 sqm fully equipped for maintenance and production of valves.

The main equipment present in our workshop are:

- ✓ Hydraulic test benches
- ✓ Gas test bench
- ✓ Actuator test bench
- ✓ LTT and FET capabilities
- ✓ Column drill machine
- ✓ CNC Vertical Lathe machine
- ✓ CNC Ball Grinder machine
- ✓ Mill machine
- ✓ Horizontal lathe machine
- ✓ Slotting machine
- ✓ Press machine (up to 100 tons)
- ✓ Lapping unit
- ✓ Automatic Welding equipment
- ✓ Washing and Cleaning area
- ✓ Overhead crane (5 tons)
- ✓ Quality Control Tools (Caliper, gauges, etc)
- ✓ PMI laser tool
- ✓ Forklift (up to 3 tons)





Inconel Overlay Welding Station



Vertical Lathe - CNC



Ball Grinding - CNC



Actuators Test Bench

5. CERTIFICATIONS

STATE SYSTEM OF TECHNICAL REGULATION
OF THE REPUBLIC OF KAZAKHSTAN

CERTIFICATE OF CONFORMITY
registered in the data register
of the state system of technical regulation
13.04.2024
№ KZ.Q.01.0318.C21.04940
Valid until 13.04.2027
Date of initial certification: 14.04.2021

CONFORMITY ASSESSMENT AUTHORITY
BIN 001040000498, "National centre for expertise and certification" JSC, 28/1, Makhata Aysenov street, Saryakinskii region, Astana, Kazakhstan

THIS CERTIFICATE IS ISSUED
170140030756, «KIOS TechFlow» LLP, 67H, Promyshlennaya zona street, Aksai, Burinsky region, WKO, Kazakhstan

AND CERTIFIES THAT
Quality management system

APPLIED TO
(certification according to the Appendix)

COMPLIES WITH REQUIREMENTS
ST RK ISO 9001:2016 (ISO 9001:2015) Quality management systems — Requirements

Head of the conformity assessment body or a person authorized by him
Anisimova Marina

Expert auditor
Karpov Alexey

This document, in accordance with paragraph 1 of Article 7 of the Law of the Republic of Kazakhstan dated January 7, 2003 №275-IV "On Electronic Document and Electronic Digital Signature", is equivalent to a document on paper.

STATE SYSTEM OF TECHNICAL REGULATION
OF THE REPUBLIC OF KAZAKHSTAN

CERTIFICATE OF CONFORMITY
registered in the data register
of the state system of technical regulation
13.05.2024
№ KZ.Q.01.0318.C24.06757
Valid until 13.05.2027
Date of initial certification: 13.05.2024

CONFORMITY ASSESSMENT AUTHORITY
BIN 001040000498, "National centre for expertise and certification" JSC, 28/1, Makhata Aysenov street, Saryakinskii region, Astana city, Kazakhstan

THIS CERTIFICATE IS ISSUED
170140030756, «KIOS TechFlow» LLP, 67H, Promyshlennaya zona street, Aksai, Burinsky region, WKO, Kazakhstan

AND CERTIFIES THAT
Environmental management system

APPLIED TO
(certification according to the Appendix)

COMPLIES WITH REQUIREMENTS
ST RK ISO 14001:2016 (ISO 14001:2015) Environmental management systems — Requirements with guidance for use

Head of the conformity assessment body or a person authorized by him
Yelesenova Akmaral

Expert auditor
Anisimova Marina

This document, in accordance with paragraph 1 of Article 7 of the Law of the Republic of Kazakhstan dated January 7, 2003 №275-IV "On Electronic Document and Electronic Digital Signature", is equivalent to a document on paper.

ISO 9001

STATE SYSTEM OF TECHNICAL REGULATION
OF THE REPUBLIC OF KAZAKHSTAN

CERTIFICATE OF CONFORMITY
registered in the data register
of the state system of technical regulation
13.05.2024
№ KZ.Q.01.0318.C24.06758
Valid until 13.05.2027
Date of initial certification: 13.05.2024

CONFORMITY ASSESSMENT AUTHORITY
BIN 001040000498, "National centre for expertise and certification" JSC, 28/1, Makhata Aysenov street, Saryakinskii region, Astana city, Kazakhstan

THIS CERTIFICATE IS ISSUED
170140030756, «KIOS TechFlow» LLP, 67H, Promyshlennaya zona street, Aksai, Burinsky region, WKO, Kazakhstan

AND CERTIFIES THAT
Occupational health and safety management system

APPLIED TO
(certification according to the Appendix)

COMPLIES WITH REQUIREMENTS
ISO 45001:2019 (ISO 45001:2018) Occupational health and safety management system — Requirements with guidance for use

Head of the conformity assessment body or a person authorized by him
Yelesenova Akmaral

Expert auditor
Karpov Alexey

This document, in accordance with paragraph 1 of Article 7 of the Law of the Republic of Kazakhstan dated January 7, 2003 №275-IV "On Electronic Document and Electronic Digital Signature", is equivalent to a document on paper.

ISO 45001

ISO 14001

API American Petroleum Institute

REGISTRATION NO. Q1-5004

Certificate of Registration

The American Petroleum Institute certifies that the quality management system of

KIOS TECHFLOW LLP
Promyshlennaya Zona Street, 67H
Aksai, West Kazakhstan Oblast
Kazakhstan

has been assessed by the American Petroleum Institute and found to be in conformance with the following:

API Spec Q1, 9th Edition

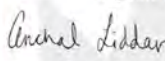
The scope of this registration and the approved quality management system applies to the

Design, Manufacture, Test, Service, Repair, Refurbishment and Upgrade of Valves and Accessories for the Oil and Gas Industry

API approves the organization's justification for excluding

No Exclusions Identified as Applicable

Effective Date: MARCH 22, 2024
Expiration Date: MARCH 22, 2027
Registered Since: MARCH 22, 2024

Senior Vice President of Global Industry Services

This certificate is valid for the period specified herein. The registered organization must continuously meet all requirements of API Spec Q1, Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industries, and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual MS system audits. This certificate has been issued from API offices located at 2001 Massachusetts Avenue, 8th Floor, 1155, Washington, DC 20007-2071, U.S.A. It is the property of API and cannot be altered once issued. To verify the authenticity of this certificate, go to www.api.org/certification.

2024-04-11 11:25 (Date)

API SPEC Q1



EXPERTISE Group





EXPERTISE SRL – HEAD OFFICE

Via Pontaccio 8
20121, Milano (MI)
Italy
Phone: +39 019 215841
promote@expertise.it

EXPERTISE SRL – MAIN OFFICE

Via Aurelia 278/1
17047, Vado Ligure (SV)
Italy
Phone: +39 019 215841
promote@expertise.it

EXPERTISE LLP

12A Abay street, 2nd floor
060002, Atyrau
Kazakhstan
Phone: +7 7122 763231
promote@expertisellp.kz

KIOS LLP

67H, Promyshlennaya zona street
090300, Aksai, Burlinsky region
Kazakhstan
Phone: +7 71133 92 700
promote@kios.kz

KIOS TECHFLOW LLP

67H, Promyshlennaya zona street
090300, Aksai, Burlinsky region
Kazakhstan
Phone: +7 71133 92 700
tenderteam@kiostechflow.kz

KIOS MAINTENANCE SOLUTIONS

71 Building, Youzhnaya Industrial
Zone, 060000, Atyrau
Kazakhstan
Phone: +7 7122 763231
info@kios.kz