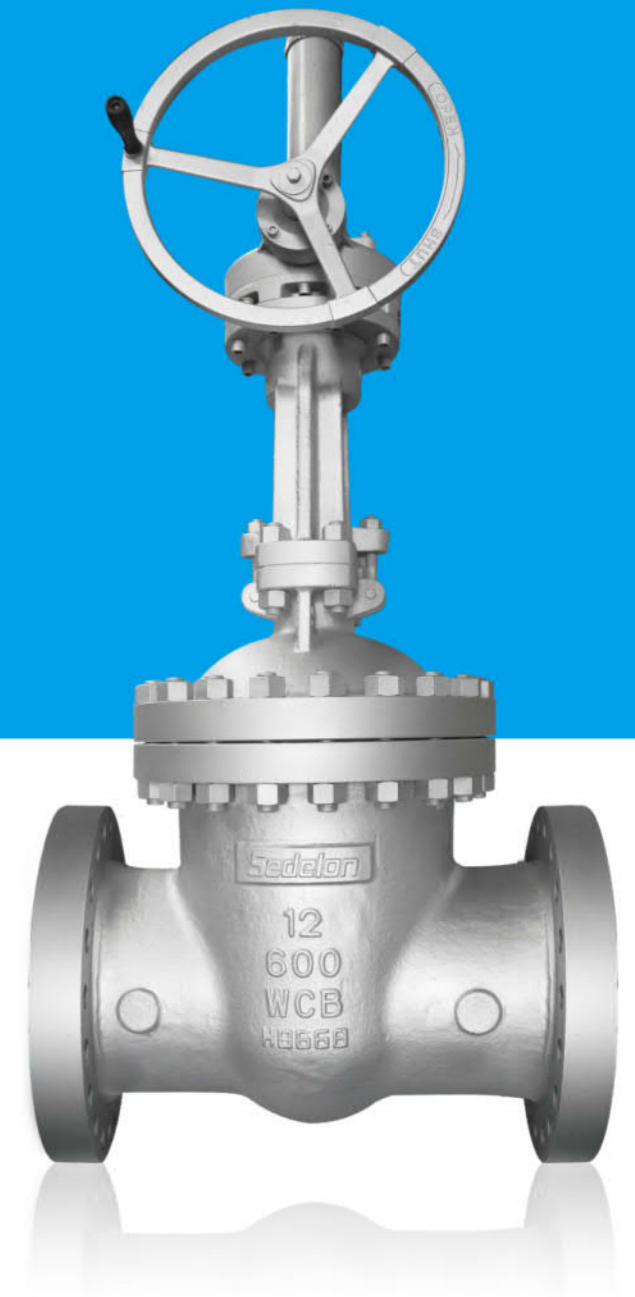




Gate Valve



Sedelon Valve Co., Ltd

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- > API 600 Gate Valve
- > Pressure Seal Gate Valve
- > Bellow Sealed Gate Valve
- > Knife Gate Valve
- > Parallel Slide Gate Valve
- > Forged Steel Gate Valve

Company Profile

SEDELON is an American-based, dynamic valve manufacturer and major supplier in the global valve market for the most diverse types of applications in oil and gas, petrochemical, marine and thermal power industries. SEDELON is a team of competent and experienced professionals, fuelled by whom, the company emerged as one of the most cost-effective global manufacturer.

SEDELON's high-quality products, market know-how and state-of-the-art production facilities accredit us as a reliable and professional partner and agent to the needs of clients. As a specialist in the design and manufacture of industrial valves, we present a full range of valve types from 1/2" to 48" and pressure rating from 150LB to 2500LB. SEDELON products are also suitable for ultrahigh and ultralow temperature conditions and function well even in severe environment. Our broad product line can meet demanding requirements and is synonymous with high quality, innovation and reliability.



Quality Assurance

SEDELON is certified by API 600, API 6D, API 607, API 6FA, API 624, CE, ISO 9001, ISO 45001, ISO 14001, ISO 15848-1, etc. All activities are performed under the highest international standards to ensure the quality, safety and reliability of products' excellent service.

The company operates in conformity with the QMS (Quality Management System) in which every step is set aims to achieve the overall goal of meeting and satisfying customers' requirements.

Adhere to the standard of QMS, ITP (Inspection and Test Plan) is a checklist to assure products quality at every critical point. ITP is conducted by the quality manager and operated by qualified inspectors.

SEDELON managers at all levels and all employees observe the QMS. The management periodically review and continuously improve the effectiveness of the QMS. Vendor evaluation and calibration of various aspects is conducted regularly. Necessary and suitable resources is provided for the implementation and improvement of the QMS.



 API 6D-2077 API 600-0399	 API Q1-4885	 ISO 9001-5148	 ISO 9001 ISO 14001 ISO 45001
 CE-2435	 API 624 API 6FA API 607 ISO 15848-1		 FOUNDED 1982

The significance of quality of both products and service is taken into account by SEDELON at all times. The satisfaction of esteemed customers is achieved through high quality products and comprehensive service as well as the commitment to meet their requirements. Applicable and achievable objectives and targets are set for all processes and activities relevant to quality and customer satisfaction.

Product Warranty



Within eighteen months of completion inspection or within twelve months of the start of usage, whichever is shortest, SEDELON valve will repair or replace products or the faulty components of products free of charge in the event of failure under normal usage attributable to inadequate design or manufacturing on the part of SEDELON valve. However, repairs or replacements will be charged in any of the following cases. Also note that if a separate agreement is in effect, that agreement shall take precedence.

- (1) When the product has been used in an incorrect manner which deviates from the catalog or instruction manual;
- (2) When the product failure is due to careless handling such as jamming with foreign substances or the sticking of excessive water stain;
- (3) When the product has been disassembled, repaired or altered by a third party other than SEDELON;
- (4) When the product has been subject to cases beyond the control of valve including natural disaster such as wind or flood damage, earthquakes and electrical storm, fire, pollution (special environments), salt damage, war or acts of terror;
- (5) When a failure is due to any other factor deemed to be the responsibility of SEDELON valve.



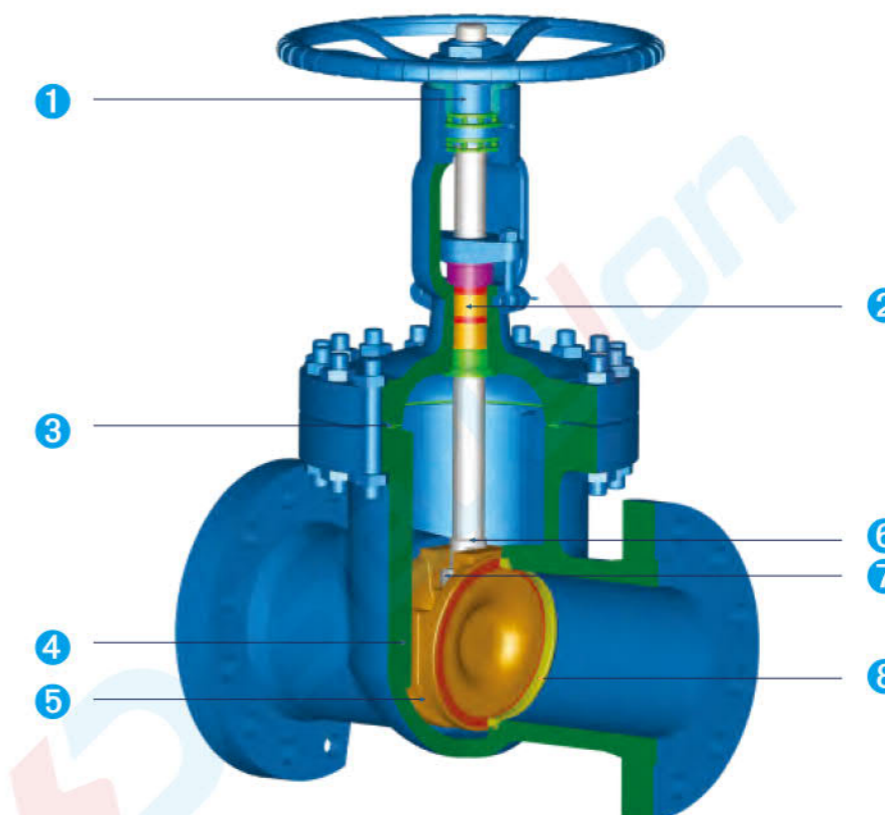
API Trim No.

No of internal parts	Seat ring	Gate, disc, ball	Stem	No of internal parts	Seat ring	Gate, disc, ball	Stem
01	13Cr	13Cr	13Cr	30	321SS	321SS	321SS
02	304SS	304SS	304SS	31	STELLITE	321SS	321SS
03	310SS	310SS	310SS	32	STELLITE	STELLITE	321SS
04	HARD 13Cr	HARD 13Cr	13Cr	33	347SS	347SS	347SS
05	STELLITE	STELLITE	13Cr	34	STELLITE	347SS	347SS
06	Cu-Ni	13Cr	13Cr	35	NICKEL ALLOY	13Cr	13Cr
07	13Cr	HARD 13Cr	13Cr	36	A105/PTFE	A105+ENP	A105+ENP
08	STELLITE	13Cr	13Cr	37	A105/PTFE	WCB+ENP	A105+ENP
09	Cu-Ni	Cu-Ni	Cu-Ni	38	13Cr/PTFE	13Cr	13Cr
10	316SS	316SS	316SS	39	304SS/PTFE	304ss	304SS
11	Cu-Ni	STELLITE	Cu-Ni	40	316SS/PTFE	316SS	316SS
12	STELLITE	316SS	316SS	41	A105/RPTFE	A105+ENP	A105+ENP
13	ALLOY 20	ALLOY 20	ALLOY 20	42	A105/RPTFE	WCB+ENP	A105+ENP
14	STELLITE	ALLOY 20	ALLOY 20	43	13Cr/RPTFE	13Cr	13Cr
15	STELLITE	STELLITE	304SS	44	304SS/RPTFE	304SS	304SS
16	STELLITE	STELLITE	316SS	45	316SS/RPTFE	316SS	316SS
17	STELLITE	STELLITE	347SS	46	A105/NYLON	A105+ENP	A105+ENP
18	STELLITE	STELLITE	ALLOY 20	47	A105/NYLON	WCB+ENP	A105+ENP
19	MONEL	MONEL	MONEL	48	A105/NYLON	304SS	304SS
20	BRONZE	BRONZE	13Cr	49	A105/NYLON	316SS	316SS
21	HASTELLOY B	HASTELLOY B	HASTELLOY B	50	13Cr/NYLON	13Cr	13Cr
22	-	HASTELLOY C	HASTELLOY C	51	304SS/NYLON	304SS	304SS
23	STELLITE	304SS	304Ss	52	316SS/NYLON	316SS	316SS
24	304LSS	304LSS	304LsS	53	A105/PEEK	A105+ENP	A105+ENP
25	STELLITE	304LSS	304Lss	54	A105/PEEK	WCB+ENP	A105+ENP
26	STELLITE	STELLITE	304LSS	55	13Cr/PEEK	13Cr	13Cr
27	316LSS	316LSS	316LSS	56	304SS/PEEK	304SS	304SS
28	STELLITE	316LSS	316LSS	57	316SS/PEEK	316SS	316SS
29	STELLITE	STELLITE	316LSS	-	-	-	-

Note: Please indicate it directly for the internal part's material uncovered in the table.

API 600 GATE VALVE

Design Feature



- 1 Long thread stem nut prolongs thread life and permits the removal of hand wheel in the fully open position.
- 2 Spacer ring in conjunction with packing is used in gate valves of 300 class and above while 150-class valve is only fitted with packing; packing with lantern ring is available upon customer request.
- 3 Flexible graphite gasket used for 150 Class gate valve, spiral wound gasket for Class 300 & 600 valves and metal ring gasket for gate valves of 900 or greater Class(600 Class is obtainable if customer requires)
- 4 Integral guide inside body keeps wedge self-centered during valve opening and closing.
- 5 Flexible wedge is able to compensate for seat surface distortion and body deformation caused by piping stress.
- 6 Blowout retention design: the tapered backseat face firmly contacts backseat of bonnet.
- 7 The strength of bonnet-wedge connection exceeds that of bonnet thread root.
- 8 Renewable seal welded seats with stellite 6 are standard design while screwed-in seats are optional.

API 600 GATE VALVE

Material List

Part	Standard	Low Temperature Service	High Temperature Service	Stainless Steel	Sour Service
BODY	ASTM A216-WCB	ASTM A352-LCC	ASTM A217-WC9	ASTM A351-CF8M	ASTM A216-WCB
BONNET	ASTM A216-WCB	ASTM A352-LCC	ASTM A217-WC9	ASTM A351-CF8M	ASTM A216-WCB
WEDGE	ASTM A216-WCB/CR13 OVERLAY	ASTM A352-LCC/316 OVERLAY	ASTM A217-WC9/STL OVERLAY	ASTM A351-CF8M	ASTM A216-WCB/CR13 OVERLAY
STEM NUT	ASTM A439 D-2 or Copper alloy	ASTM A439 D-2 or Copper alloy	ASTM A439 D-2 or Copper alloy	ASTM A439 D-2 or Copper alloy	ASTM A439 D-2 or Copper alloy
GLAND FLANGE	ASTM A105N	ASTM A350 LF2	ASTM A182 F22	ASTM A182-F316	ASTM A105N
HANDWHEEL	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
SEAT RING	ASTM A105/STL OVERLAY	ASTM LF2/STL OVERLAY	ASTM A182-F22/STL OVERLAY	ASTM A182 F316/STL OVERLAY	ASTM A105/STL OVERLAY
STEM	ASTM A182 F6a	ASTM A182 F316	ASTM A182 F6a	ASTM A182 F316	ASTM A182 F6a
BACK SEAT	ASTM A182 F6a	ASTM A182 F316	Integral on body	Integral on body	ASTM A182 F6a
GLAND	ASTM A276-410	ASTM 276-316	ASTM A276-410	ASTM A276-316	ASTM A276-410
GASKET	REINFORCED GRAPHITE + GASKET / SPIRAL WOUND GASKET	REINFORCED GRAPHITE GASKET / SPIRAL WOUND GASKET	REINFORCED GRAPHITE GASKET / SPIRAL WOUND GASKET	REINFORCED GRAPHITE GASKET / SPIRAL WOUND GASKET	REINFORCED GRAPHITE GASKET / SPIRAL WOUND GASKET
PACKING	GRAPHITE+SS	GRAPHITE+SS	GRAPHITE+SS	GRAPHITE+SS	GRAPHITE+SS
HANDWHEEL NUT	ANSI 1020	ANSI 1020	ANSI 1020	ANSI 1020	ANSI 1020
BONNET STUD	ASTM A193-B7	ASTM A320-L7M	ASTM A193-B16	ASTM A193-B8M	ASTM A193-B7M
BONNET NUT	ASTM A194-2H	ASTM A194-7M	ASTM A194-7	ASTM A194-8M	ASTM A194-2HM
EYE BOLT	ASTM A193-B7	ASTM A320-L7M	ASTM A193-B16	ASTM A193-B8M	ASTM A193-B7M
GLAND NUT	ASTMA194-2H	ASTM A194-7M	ASTM A194-7	ASTM A194-8M	ASTM A194-2HM
NAME PLATE	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL

Note: Above materials are general, when ordered, Please contact FLOWORK Sales or technical team to confirm the details.

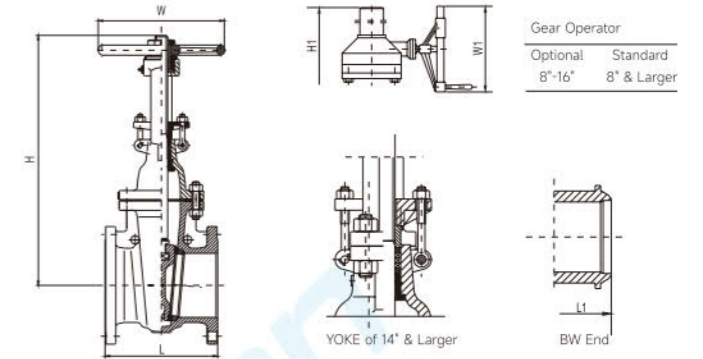
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API 600 GATE VALVE

Dimension

Class 150 API 600 Gate Valve

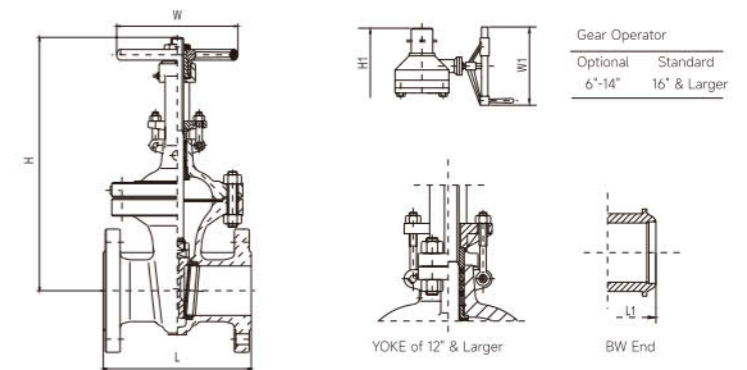
API600 Design,
Bolted Bonnet, OS&Y,
Back seat, Rising Stem,
Non-rising Handwheel,
Flexible Wedge



NPS	in	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200
L(RF)	in	7	7.5	8	9	10	10.5	11.5	13	14	15	16	17	18	20	22	24	24	26	28	30	31	34
	mm	178	190	203	229	254	267	292	330	356	381	406	432	457	508	559	610	610	711	711	813	813	1067
L1(BW)	in	8.5	9.5	11.12	12	15	15.88	16.5	18	19.75	22.5	24	26	28	32	34	36	36	38	40	42	43	46
	mm	216	241	282	305	381	403	419	457	502	572	610	660	711	813	864	914	914	965	1016	1067	1143	1371
W	in	8	8	10	12	12	12	14	16	18	20	22	24	27	30	24	24	24	24	24	24	32	32
	mm	200	200	250	280	280	300	350	400	450	500	550	600	680	760	610	610	610	610	610	610	610	610
H	in	15.2	17	18.9	23	26.8	30.1	37.6	45.2	53.2	59.4	67	74.5	83.4	98.4	110	117	124	129	146	157	190	233
	mm	386.5	434.5	480.5	584.5	681	765	956	1149	1350.5	1508	1703	1892	2119	2500	2806	2960	3148	3281	3721	3980	4820	5920
WT(RF)	KG	19	26	35	49	64	81	127	204	291	400	486	610	788	1144	1570	1900	2540	2958	3380	4815	5300	7110
WT(BW)	KG	15	18	26	41	58	69	108	156	248	365	482	587	752	1178	1521	1838	2261	2490	3310	4840	5275	7050

Class 300 API 600 Gate Valve

API600 Design,
Bolted Bonnet, OS&Y,
Back seat, Rising Stem,
Non-rising Handwheel,
Flexible Wedge



NPS	in	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200
L-L1 (RF-BW)	in	8.5	9.5	11.12	12	15	15.88	16.5	18	19.75	30	33	36	39	45	49	53	55	60	68	76	78	88
	mm	216	241	282	305	381	403	419	457	502	762	838	914	991	1143	1245	1346	1397	1524	1727	1955	2032	2286
W	in	8	8	10	10	12	14	16	18	20	22	24	24	24	24	24	24	24	32	40	40	40	40
	mm	200	200	250	250	300	350	400	450	500	550	600	610	610	610	610	610	610	810	1000	1000	1000	1000
H	in	16.1	17.8	20	24.1	27.8	31.7	39.6	47.6	55.7	62.2	67.9	76.4	85.6	101	113	117	126	142	150	173	178	201
	mm	410	453	509	612	705	805	1005	1209	1415	1581	1725	1940	2175	2570	2870	2972	3213	3610	3821	4393	4510	5093
WT(RF)	KG	26	35	52	75	102	147	229	360	520	808	1105	1420	1705	2605	3090	3860	4948	5510	7700	10130	11270	16000
WT(BW)	KG	17	26	39	55	84	113	178	302	485	642	873	980	1510	2160	2540	3604	4414	4820	6950	9660	10780	15310

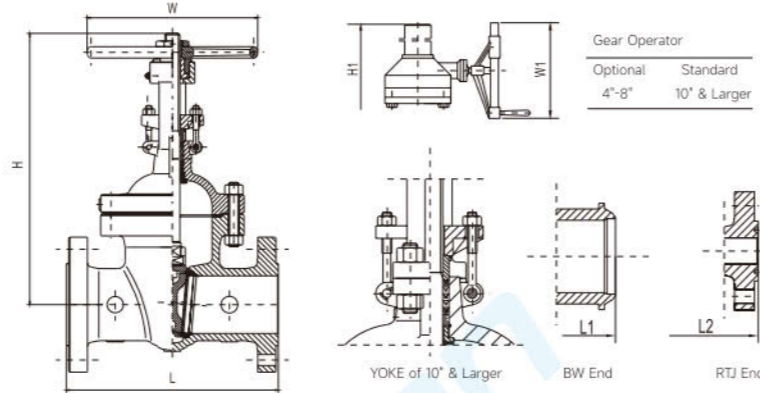
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API 600 GATE VALVE

Dimension

Class 600 API 600 Gate Valve

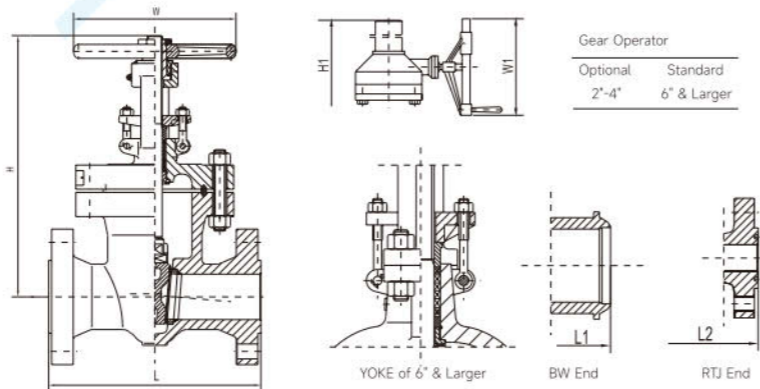
API600 Design,
Bolted Bonnet, OS&Y,
Back seat, Rising Stem,
Non-rising Handwheel,
Flexible Wedge



NPS	in	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	34"	36"	40"	42"	48"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750	800	850	900	1000	1050	1200
L-L1 (RF-BW)	in	11.5	13	14	17	20	22	26	31	33	35	39	43	47	55	57	61	65	70	75.98	82	90	96	100
	mm	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397	1448	1549	1651	1778	1930	2083	2286	2438	2540
L2(RTJ)	in	11.62	13.12	14.12	17.12	20.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38	57.5	61.5	65.5	70.6	76.61	82.6	-	-	-
	mm	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407	1461	1562	1664	1794	1946	2099	-	-	-
W	in	8	10	10	12	16	18	20	24	27	24	24	24	24	24	32	40	40	40	-	40	48	48	48
	mm	200	250	250	300	400	450	500	600	680	610	610	610	610	610	810	1000	1000	1000	-	1000	1200	1200	1200
H	in	16.5	18.7	20.4	25.4	30.3	33	40.3	48.4	57.1	62	70.7	76.02	86.9	102	124	133	140	150	-	168	184	194	231
	mm	418	476	518	646	770	839	1024	1229	1450	1574	1797	1931	2207	2582	3150	3362	3549	3811	-	4260	4670	4921	5876
WT(RF)	KG	39	52	68	115	170	273	402	610	902	1245	1530	2030	2735	3620	5220	6050	6945	8520	9820	11890	-	16305	-
WT(BW)	KG	30	35	55	88	125	204	337	548	905	974	1345	1730	2415	3017	4295	4980	5710	7700	9000	10800	-	15120	-

Class 900 API 600 Gate Valve

API600 Design,
Bolted Bonnet, OS&Y,
Back seat, Rising Stem,
Non-rising Handwheel,
Flexible Wedge



NPS	in	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900
L-L1 (RF-BW)	in	14.5	16.5	15	18	24	29	33	38	40.5	44.5	48	52	61	65	70	74	78	87
	mm	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	1664	1778	1892	2004	2232
L2(RTJ)	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88	48.50	52.48	61.73	-	-	-	-	-
	mm	371	422	384	460	613	740	841	968	1038	1140	1232	1333	1568	-	-	-	-	-
W	in	10	10	12	14	20	24	24	24	24	24	32	40	40	40	47	47	47	
	mm	250	250	300	350	500	600	610	610	610	610	810	1000	1000	1000	1200	1200	1200	
H	in	19.6	21.5	22.6	26.7	35.4	43.4	53	59.8	74.9	80.7	87	95	108.4	111.5	114.8	118	121.4	128
	mm	498	547	573	678	900	1103	1345	1520	1902	2051	2212	2417	2750	2833	2916	3000	3083	3250
WT(RF)	KG	74	92	101	172	335	640	1100	1360	2250	2850	3870	4860	6100	7300	7600	9800	11950	15000
WT(BW)	KG	54	65	70	110	258	498	810	1228	2009	2563	3300	4050	6120	5500	6900	9000	11000	13500

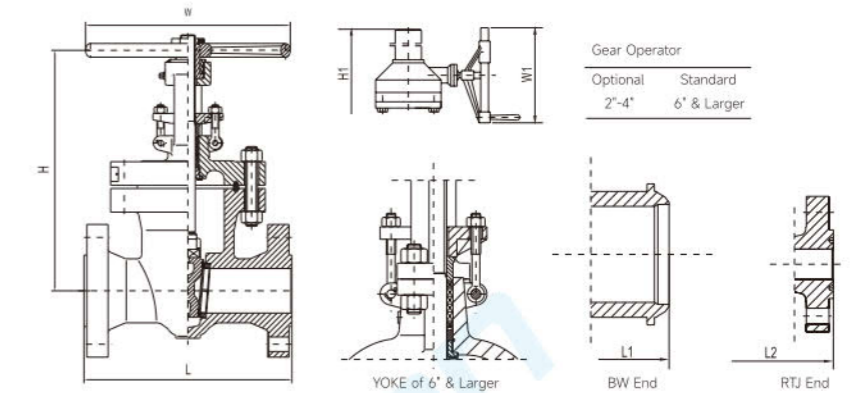
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API 600 GATE VALVE

Dimension

Class 1500 API 600 Gate Valve

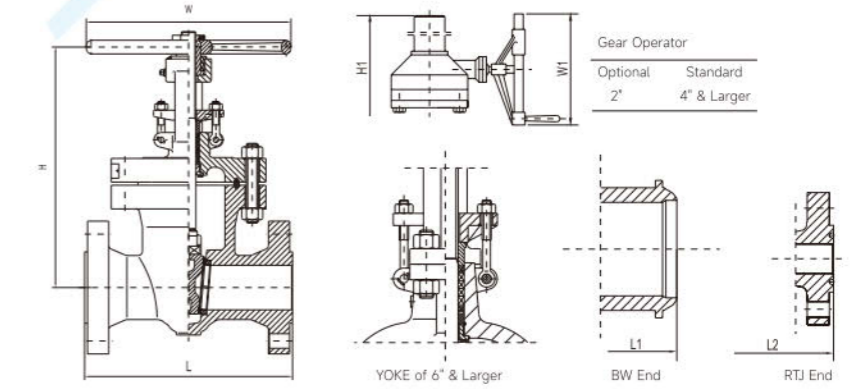
API600 Design,
Bolted Bonnet, OS&Y,
Back seat, Rising Stem,
Non-rising Handwheel,
Flexible Wedge



NPS	in	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750
L-L1 (RF-BW)	in	14.5	16.5	18.5	21.5	27.75	32.75	39	44.5	49.5	54.8	60.5	65.5	76.5	82	87.5	93
	mm	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	1943	2083	2222.5	2362
L2(RTJ)	in	14.62	16.62	18.62	21.62	28.00	33.13	39.38	45.12	50.25	55.38	61.4	66.4	77.6	-	-	-
	mm	371	422	473	549	711	842	1000	1146	1276	1407	1559	1686	1972	-	-	-
W	in	10	12	14	20	24	18	18	24	24	24	40	40	40	47	47	47
	mm	250	300	350	500	600	458	458	610	610	610	1000	1000	1000	1200	1200	1200
H	in	19.2	22.5	23.7	27.6	38.7	45.1	54	64.3	70.8	77.3	111	121	140.5	151	158	172
	mm	487	572	603	700	984	1146	1371	1633	1798	1963	2812	3078	3570	3836	4012	4368
WT(RF)	KG	74	131	165	248	510	1040	1910	2685	4100	6200	8100	11130	13300	16500	18700	20900
WT(BW)	KG	54	105	129	197	358	761	1640	2755	3200	5300	7100	10100	12900	15700	17500	19300

Class 2500 API 600 Gate Valve

API600 Design,
Bolted Bonnet, OS&Y,
Non-rising Handwheel,
Flexible Wedge

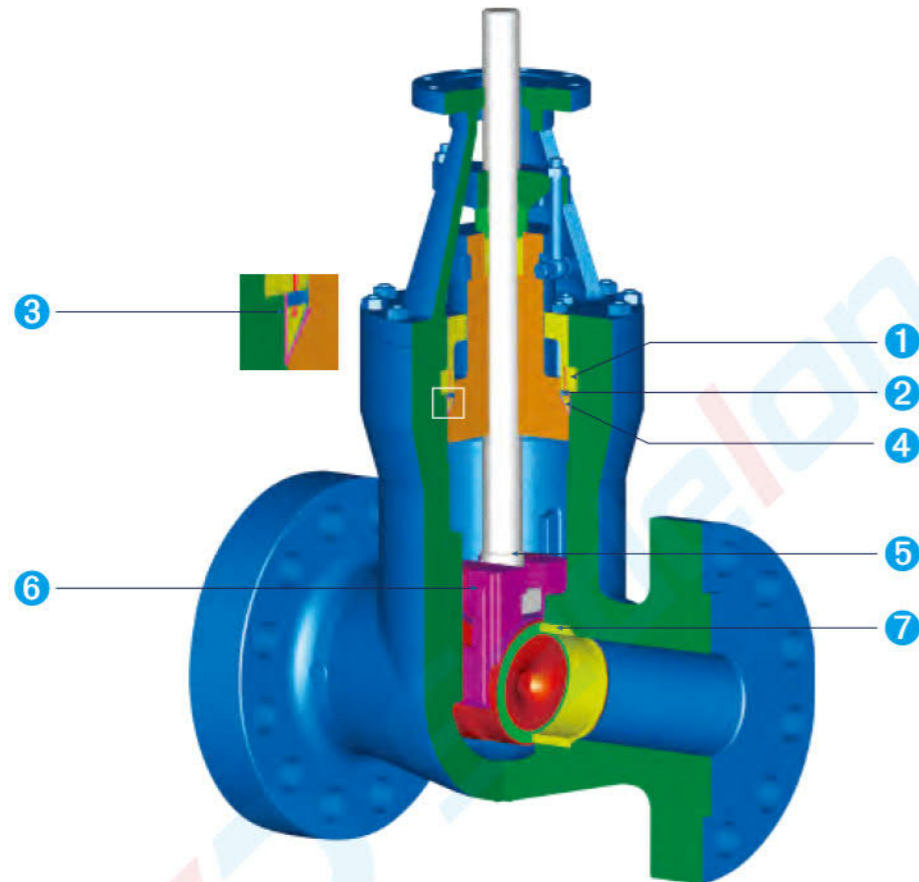


NPS	in	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L-L1 (RF-BW)	in	17.75	20	22.75	26.5	36	40.25	50	56	62	68	74	80	92
	mm	451	508	578	673	914	1022	1270	1422	1575	1727	1879	2031	2335
L2(RTJ)	in	17.88	20.25	23.00	26.88	36.50	40.88	50.88	56.88	-	-	-	-	-
	mm	454	514	584	683	927	1038	1292	1445	-	-	-	-	-
W	in	14	18	18	20	24	24	24	24	32	32	40	40	40
	mm	350	450	450	500	610	610	610	610	810	810	1000	1000	1000
H	in	22.2	22.2	22.9	34.3	57.1	63.4	81.7	89.8	319.7	400	100.6	112.6	136.6
	mm	563	563	582	870	1450	1610	2076	2281	1945	2250	2555	2860	3470
WT(RF)	KG	130	200	245	490	1600	2450	4570	6100	8120	10170	12100	14700	16500
WT(BW)	KG	95	150	175	375	1310	2010	3800	5200	7510	9730	10900	12100	14700

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PRESSURE SEAL GATE VALVE

Design Feature



- 1 Separated rings absorb the thrust along the stem applied by the internal pressure.
- 2 Sealing rings are used to withstand pressure and prevent deformation of the gaskets.
- 3 Stainless steel inlay to ensure soundness and corrosion-resistance in the critical body sealing zone for carbon and alloy steel valves.
- 4 Mild steel gasket seal to provide large contact area for perfect sealing.
- 5 Blowout proof stem design features tapered sealing surface which contacts against bonnet backseat when the valve is fully open.
- 6 Flexible wedge can compensate for seat face distortion and body deformation due to pipe stress.
- 7 Seat ring with stellite 6 overlay is standard design and installed with seal weld.

PRESSURE SEAL GATE VALVE

Material List

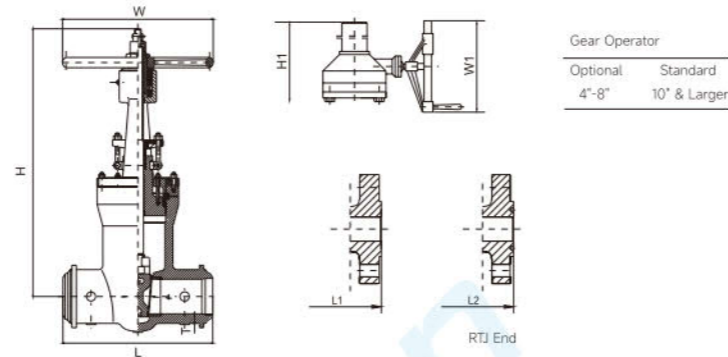
Part	Standard	Stainless Steel	High Temperature Service		
			ASTM A217-WC6	ASTM A217-WC9	ASTM A217-C12A
BODY	ASTM A216-WCB	ASTM A351-CF8M	ASTM A217-WC6	ASTM A217-WC9	ASTM A217-C12A
BONNET	ASTM A105	ASTM A182-F316	ASTM A182-F11	ASTM A182-F22	ASTM A182-F91
WEDGE	ASTM A216-WCB	ASTM A351-CF8M/STL. OVERLAY	ASTM A217-WC6	ASTM A217-WC9	ASTM A217-C12A
STEM NUT	ASTM A439 D-2 or Copper alloy	ASTM A439 D-2 or Copper alloy	ASTM A439 D-2 or Copper alloy	ASTM A439 D-2 or Copper alloy	ASTM A439 D-2 or Copper alloy
GLAND FLANGE	ASTM A105N	ASTM A182 F316	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
HANDWHEEL	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
SEAT RING	STL. OVERLAY	STL. OVERLAY	STL. OVERLAY	STL. OVERLAY	STL. OVERLAY
STEM	ASTM A182-F6a	ASTM A182-F316	ASTM A182-F6a	ASTM A182-F6a	ASTM A182-F6a
BONNET SEAL RING	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE	GRAPHITE
GLAND	ASTM A276-420	ASTM A276-316	ASTM A276-420	ASTM A276-420	ASTM A276-420
RETAINING NUT FOR STEM NUT	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL
YOKE	ASTM A216-WCB	ASTM A351-CF8	ASTM A217-WC6	ASTM A217-WC9	ASTM A217-C12A
PACKING	GRAPHITE+SS	GRAPHITE+SS	GRAPHITE+SS	GRAPHITE+SS	GRAPHITE+SS
HANDWHEEL NUT	ANSI 1020	ANSI 1020	ANSI 1020	ANSI 1020	ANSI 1020
BONNET STUD	ASTM A193-B7	ASTM A193-B8M	ASTM A193-B16	ASTM A193-B16	ASTM A193-B16
BONNET NUT	ASTM A194-2H	ASTM A194-8M	ASTM A194-4	ASTM A194-4	ASTM A194-4
YOKE STUD	ASTM A193-B7	ASTM A193-B8M	ASTM A193-B16	ASTM A193-B16	ASTM A193-B16
YOKE NUT	ASTM A194-2H	ASTM A194-8M	ASTM A194-4	ASTM A194-4	ASTM A194-4
GLAND EYE BOLT	ASTM A193-B7	ASTM A193-B8M	ASTM A193-B16	STM A193-B16	ASTM A193-B16
GLAND NUT	ASTM A194-2H	ASTM A194-8M	ASTM A194-4	ASTM A194-4	ASTM A194-4
NAME PLATE	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL

PRESSURE SEAL GATE VALVE

Dimension

Class 600 Pressure Seal Gate Valve

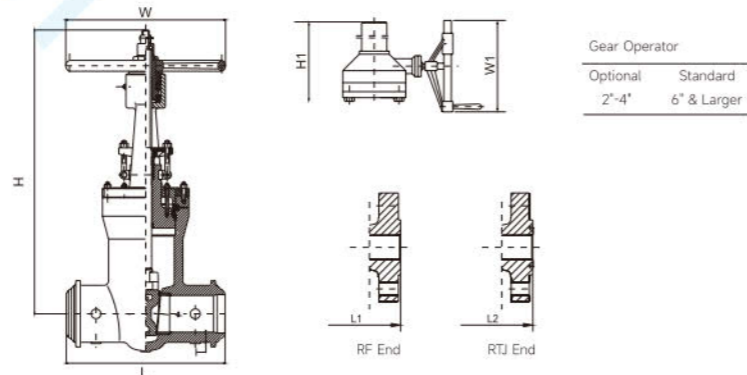
ASME B16.34,
Pressure Seal, OS&Y, Rising Stem,
Non-rising Handwheel,
Flexible Wedge



NPS	in	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	750
L1(BW)	mm	178	216	254	305	381	457	584	711	813	889	991	1092	1194	1397	1448	1599	1651
L-L1 (L1-RF)	in	11.5	13	14	17	20	22	26	31	33	35	39	43	47	55	57	61	65
L2(RTJ)	mm	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397	1448	1549	1651
	in	11.62	13.12	14.12	17.12	20.12	22.12	26.12	31.12	33.12	35.12	39.12	43.1	47.25	55.38	57.50	61.50	65.50
	mm	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407	1461	1562	1664
W	in	7.9	9.8	9.8	13.8	15.7	17.7	19.7	23.6	26.8	24	24	24	24	32	32	40	40
	mm	200	250	250	350	400	450	500	600	610	610	610	610	610	800	800	1000	1000
H	in	23.2	24.8	26.3	36	39.4	42.5	49.9	59.5	70.5	73.1	85.1	88.63	97.25	118.13	128	137.9	149
	mm	590	629	667	914	1000	1080	1267	1511	1791	1857	2162	2251	2470	3000	3251	3502	3785
WT(RF)	KG	47	55	60	110	208	250	412	730	960	1100	1500	-	-	-	-	-	-
WT(BW)	KG	24	42	48	84	150	210	336	605	818	980	1300	-	-	-	-	-	-

Class 900 Pressure Seal Gate Valve

ASME B16.34,
Pressure Seal, OS&Y, Rising Stem,
Non-rising Handwheel,
Flexible Wedge



NPS	in	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900
L(BW)	mm	216	254	305	356	508	660	787	914	991	1092	1219	1321	1549	1664	1778	1892	2004	2232
L-L1 (L1-RF)	in	14.5	16.5	15	18	24	29	33	38	40.5	44.5	48	52	61	65	70	74	78	87
	mm	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	1664	1778	1892	2004	2232
L2(RTJ)	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88	48.50	52.48	61.73	-	-	-	-	-
	mm	371	422	384	460	613	740	841	968	1038	1140	1232	1333	1568	-	-	-	-	-
W	in	10	10	12	14	20	24	24	24	24	24	32	40	40	40	40	47	47	47
	mm	250	250	300	350	500	600	610	610	610	610	810	1000	1000	1000	1000	1200	1200	1200
H	in	19.6	21.5	22.6	26.7	35.4	43.4	53	59.8	74.9	80.7	87	95	108.4	111.5	114.8	118	121.4	128
	mm	498	547	573	678	900	1103	1345	1520	1902	2051	2212	2417	2750	2833	2916	3000	3083	3250
WT(RF)	KG	74	92	101	172	335	640	1100	1360	2250	2850	3870	4860	6100	7300	7600	9800	11950	15000
WT(BW)	KG	54	65	70	110	258	498	810	1228	2009	2563	3300	4050	6120	5500	6900	9000	11000	13500

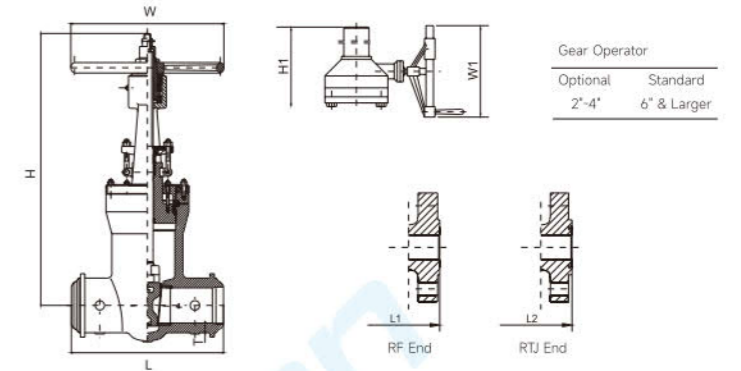
SEDELON reserves the right to change design, materials or specifications without notice and free of obligation to furnish or install such changes on products previously sold.

PRESSURE SEAL GATE VALVE

Dimension

Class 1500 Pressure Seal Gate Valve

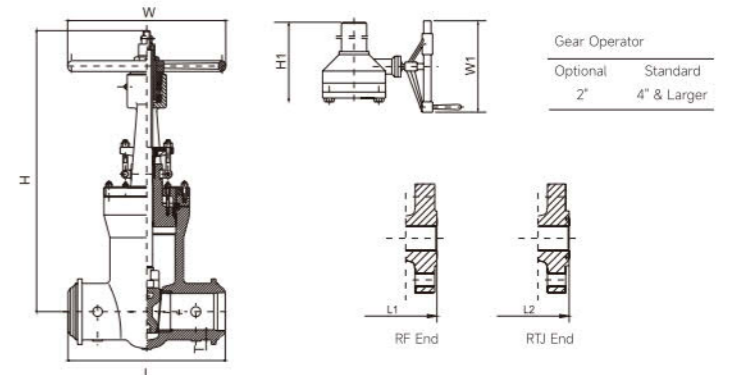
ASME B16.34,
Pressure Seal, OS&Y, Rising Stem,
Non-rising Handwheel,
Flexible Wedge



NPS	in	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L(BW)	in	8.5	10	12	16	22	28	34	36	42	47	53	58	66
	mm	216	254	305	406	559	711	864	991	1067	1194	1346	1473	1676
L1(RF)	in	14.5	16.5	18.5	21.5	27.75	32.75	39	44.5	49.5	54.5	60.5	65.5	76.5
	mm	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	1943
L2(RTJ)	in	14.62	16.62	18.62	21.62	28	33.13	39.38	45.12	50.25	55.38	61.38	66.38	77.63
	mm	371	422	473	549	711	842	1000	1146	1276	1407	1559	1686	1972
W	in	10	12	14	20	24	18	18	24	24	24	40	48	36
	mm	250	300	350	500	600	460	460	610	610	610	1000	1200	900
H	in	23	30	30	34	39	53	58.3	73.6	87	92	111.2	122.2	148.3
	mm	294	753	756	864	994	1349	1480	1870	2216	2331	2823	3102	3766
WT(RF)	KG	65	99	135	205	475	865	1530	2356	2696	4050	5184	6586	-
WT(BW)	KG	38	80	90	150	400	705	1160	1894	2360	3750	4300	5885	-

Class 2500 Pressure Seal Gate Valve

ASME B16.34,
Pressure Seal, OS&Y, Rising Stem,
Non-rising Handwheel,
Flexible Wedge



NPS	in	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L(BW)	in	11	13	14.5	18	24	30	36	41	44	49	55	61	65.5
	mm	279	330	368	457	610	762	914	1041	1118	1245	1397	1549	1664
L1(RF)	in	17.75	20	22.75	26.5	36	40.25	60	56	-	-	-	-	-
	mm	451	508	578	673	914	1022	1270	1422	-	-	-	-	-
L2(RTJ)	in	17.88	20.25	23	26.88	36.5	40.88	50.88	56.88	-	-	-	-	-
	mm	454	514	584	683	927	1038	1292	1445	-	-	-	-	-
W	in	14	18	18	20	24	24	24	24	24	24	31.5	31.5	40
	mm	350	450	450	500	610	610	610	610	610	610	800	800	1000
H	in	23	30	30	34	44	55	69	74	94.13	97.25	116.2	128.8	153.7
	mm	594	753	756	870	1129	1389	1748	1873	2291	2470	2950	3270	3902
WT(RF)	KG	75	98	120	220	631	1046	2205	3495	-	-	-	-	-
WT(BW)	KG	70	80	85	295	492	850	1815	2400	3360	4310	-	-	-

SEDELON reserves the right to change design, materials or specifications without notice and free of obligation to furnish or install such changes on products previously sold.

BELLOW SEALED GATE VALVE

Design Feature

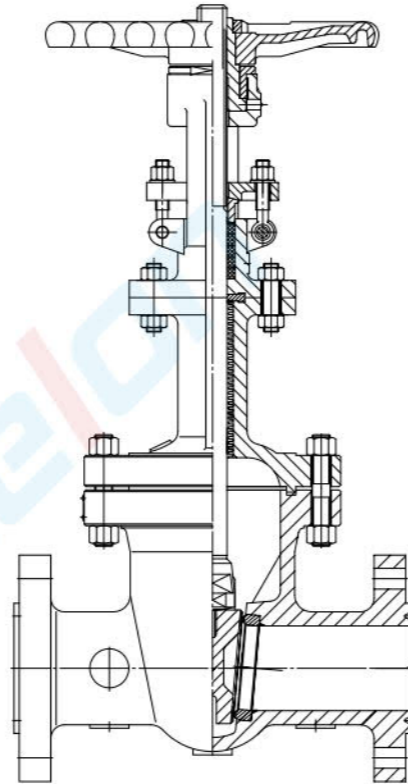
Applicable Standards:

- DESIGN AND MANUFACTURE ON THE BASIS OF API 600, ASME B16.34
- CONNECTION SIZE ON THE BASIS OF ASME B16.5, EN 1092
- STRUCTURAL DIMENSION ON THE BASIS OF ASME B16.10, EN 588-1, DIN 3202
- TEST AND INSPECTION ON THE BASIS OF ISO 5208, API 598, EN 12266

Material list

Body	GS-C25/WCB/CF8M/CF8/CF3M/CF3/CD3MN
Seat	A105/F316/F304/F316L/F304L/F51
Disc	GS-C25/WCB/CF8M/CF8/CF3M/CF3/CD3MN
Bellows	304/316/316L/304L/S31803
Stem	F6a/F304/F316/F304L/F316L/F51/Monel
Bonnet	GS-C25/WCB/CF8M/CF8/CF3M/CF3/CD3MN
Bolt	B7M/B8M/L7M/B16
Nut	2HM/8M/7M/4
Gland	410/304/316/304L/316L
Stem Nut	D2/Copper Alloy
Gasket	Flexible graphite+304/Flexible graphite+316
Packings	Flexible graphite

Materials can be altered according to the customers' requirement and valves' performances.



Product Features:

Bellows gate valve adopts sealed structure. In common valves, the packing seal of the stem ages fast and it is easy to leak, but this design totally eliminates these short comings. Apart from increasing the efficiency of materials and the safety of production equipment, it not only reduces maintenance the costs and frequent maintenance of products but also provides a clean and safe working environment.

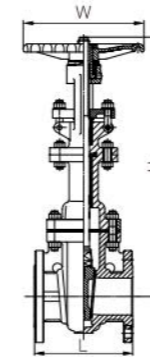
Double seal design(bellows and packings), if the bellows in validates the stem packings will prevent outside leaking. There are no fluid loss, but it reduces the energy loss and improves the equipment safety. Longer service life, less maintenance and lower operating costs. Firm and durable seal design of bellows ensures the zero leakage of stem and provides more reliable performance and no maintenance. Quenched stem and surface nitridation with good performance of corrosion and friction resistance. Excellent performance, graceful outline, and more visiblensness with positon indicating of stem.

BELLOW SEALED GATE VALVE

Dimension

Class 150

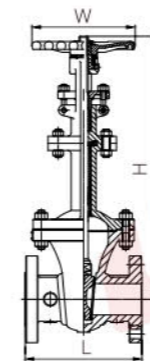
Bellow Sealed Gate Valve



NPS	DN	L	B	H	W	WT	T
in	mm					kg	kg
1/2"	15	79	10	350	100	7	13
3/4"	20	92	13	365	120	8	17
1"	25	111	18	400	125	9	22
1 1/4"	32	120	24	415	160	13	25
1 1/2"	40	120	29	140	160	20	27
2"	50	178	51	645	200	29	31
2 1/2"	65	190	65	725	220	40	32
3"	80	203	76	865	250	53	36
4"	100	229	102	1045	280	68	65
6"	150	267	152	1415	300	142	88
8"	200	292	201	1850	350	188	155
10"	250	330	252	2220	400	255	205
12"	*300	356	303	2645	450	355	319
14"	*350	381	337	2930	500	420	369

Class 300

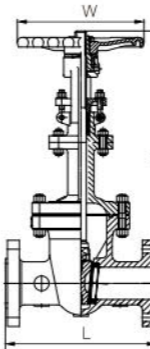
Bellow Sealed Gate Valve



NPS	DN	L	B	H	W	WT	T
in	mm					kg	kg
1/2"	15	79	10	350	100	7	14
3/4"	20	92	13	365	120	8	18
1"	25	111	18	400	125	9	25
1 1/4"	32	120	24	415	160	13	28
1 1/2"	40	120	29	440	160	20	36
2"	50	178	51	675	200	40	40
2 1/2"	65	190	65	755	220	56	45
3"	80	203	76	895	250	78	52
4"	100	229	102	1075	280	95	103
6"	150	267	152	1445	350	185	209
8"	200	292	201	1880	400	230	311
10"	250	330	252	2250	450	360	524
12"	*300	356	303	2675	500	480	706
14"	*350	381	337	2960	560	705	1031

Class 600

Bellow Sealed Gate Valve



NPS	DN	L	B	H	W	WT	T
in	mm					kg	kg
1/2"	15	79	10	350	100	7	17
3/4"	20	92	13	365	120	8	22
1"	25	111	18	400	125	9	28
1 1/4"	32	120	24	415	160	13	32
1 1/2"	40	120	29	440	160	20	49
2"	50	178	51	715	250	452	56
2 1/2"	65	190	65	795	250	71	95
3"	80	203	76	935	280	90	122
4"	100	229	102	1115	350	130	166
6"	150	267	152	1485	450	290	446
8"	200	292	201	1920	560	480	659
10"	250	330	252	2290	600	750	1168
*12"	*300	356	303	2715	460	920	1586
*14"	*350	381	337	3000	460	1120	2412

KNIFE GATE VALVE

Design Feature

Products Range:

- Pressure rate: PN10
- Size: DN50-DN1200
- Body material: Nodular cast iron/WCB/CF8/CF8M
- Operated type: Manual operated



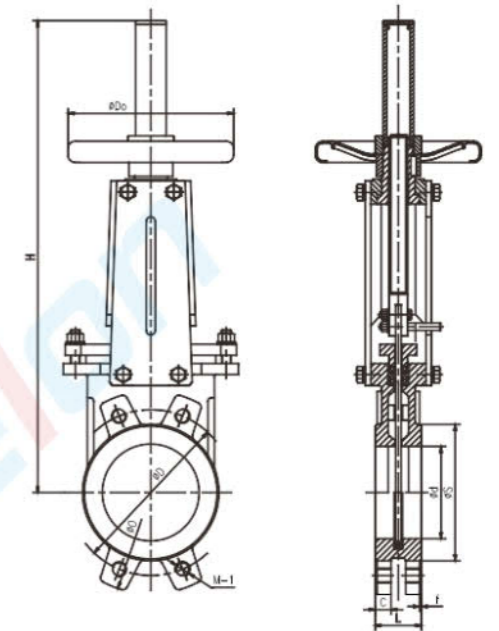
KNIFE GATE VALVE

Dimension

Double Sealing

KNIFE GATE VALVE

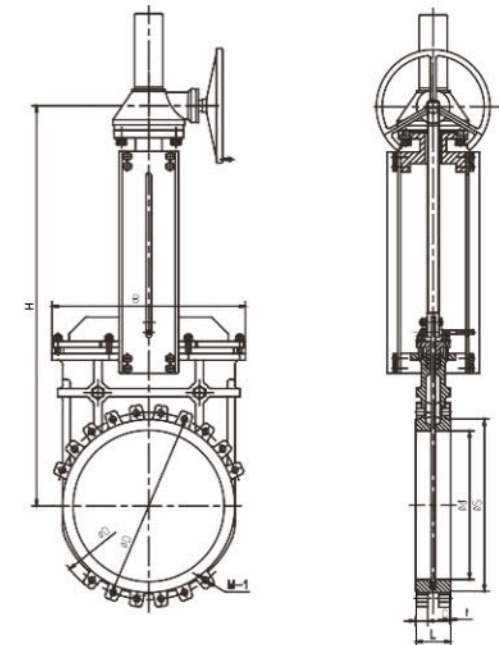
DN	L	O	D	S	C	f	M-1	B	H	Do	(KGS)
50	40	165	125	95	16	2	4-M16	136	375	180	7
65	40	185	145	110	16	2	4-M16	151	420	180	8
80	50	200	160	127	17	2	8-M16	170	450	200	11
100	50	220	180	148	17	2	8-M16	190	512	200	12
125	50	250	210	174	17	2	8-M16	212	570	220	15
150	60	285	240	199	21	2	8-M20	230	665	250	21
200	60	340	295	250	21	2	8-M20	286	825	300	29
250	70	395	350	308	24	2	12-M20	338	1000	350	46
300	70	445	400	360	24	2	12-M20	388	1155	350	66
350	96	505	460	416	33	2	16-M20	460	1310	400	92
400	100	565	515	46	35	2	16-M24	520	1475	500	125



Double Sealing Bevel Gear

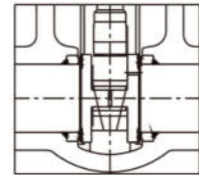
KNIFE GATE VALVE

DN	L	O	D	S	C	f	M-1	B	H
450	106	615	565	525	36	2	20-M24	585	1170
500	110	670	620	574	37	2	20-M24	635	1280
600	110	780	725	664	37	2	20-M27	720	1485
700	110	895	840	1070	38	2	24-M27	807	1670
800	110	1015	950	955	38	2	24-M30	922	1880
900	110	1115	1050	955	38	2	28-M30	1030	2120
1000	110	1230	1160	1080	38	2	28-M33	1140	2270

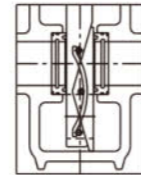


PARALLEL SLIDE GATE VALVE

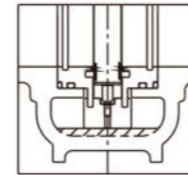
Material List



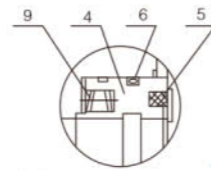
Double disk non-diversion hole structure



Double disk with diversion hole structure



Single disk non-diversion hole structure



Soft sealing structure



Hard sealing structure

Applicable Standards:

- DESIGN AND MANUFACTURE CONFORM WITH: API 6D
- CONNECTION DIMENSION CONFORM WITH: ASME B16.5, DIN EN 1092
- FIRE RESISTANCE DESIGN CONFORM WITH: API 607/ISO 10497
- INSPECTION & TEST CONFORM WITH: API 6D, ISO 5208, API 598
- MATERIAL CONFORM WITH: ISO 15156

Material list

Body	WCB/LCB/CF8M/CF8/CF3M/CF3/WC6/WC9/CD3MN
Bonnet	WCB/LCB/CF8M/CF8/CF3M/CF3WC6WC9/CD3MN
Disc	A105+ENP/LF2+ENP/F304/F316/F304L/F316L/F51
Seat	A105+ENP/LF2+ENP/F304/F316/F304L/F316L/F51
Stem	F6a/F304/F316/F304L/F316L/F51
Seal ring	PTFE/NYLON/PEEK/TEFLON
Sealing surface material	1-12 Trim materia
O-ring	VITON/NBR
Bolt	B7M/B8M/L7M/B16
Nut	2HM/8M/7M/4
Spring	17-4PH/Inconel
Stem nut	D2/Copper Alloy
Gasket	Flexible graphite+304/Flexible graphite+316
Packing	Flexible graphite/PTFE

Materials could be chosen according to customers' requirement & working condition.

PARALLEL SLIDE GATE VALVE

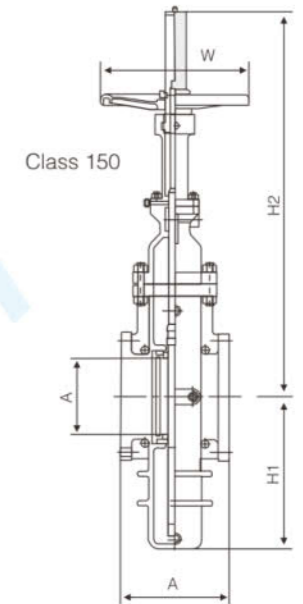
Dimension

Class 150

Parallel Slide Gate Valve

NPS	DN	A	B	H1	H2	W	WT	T
in	mm	mm	mm	mm	mm	mm	kg	N.m
2	50	178	51	125	452	200	25	23
3	80	203	76	175	605	250	43	50
4	100	229	100	202	680	280	65	60
6	150	267	150	282	890	300	95	78
8	200	292	201	355	1128	350	146	143
10	250	330	252	445	1396	400	245	211
12	300	356	303	518	1483	450	343	289
14	350	381	334	606	1668	500	480	403
16	400	406	385	685	1854	560	630	572
18	450	432	436	790	2088	650	836	728
*20	500	457	487	880	2420	460	1190	910
*24	600	508	589	1050	2688	460	1580	1313
*28	700	610	684	1192	3078	460	2400	2028
*30	750	610	735	1268	3252	600	3200	2305
*32	800	711	779	1355	3495	600	3700	2795
*36	900	711	874	1515	3898	600	4600	3783

Note: * Worm-gear actuator

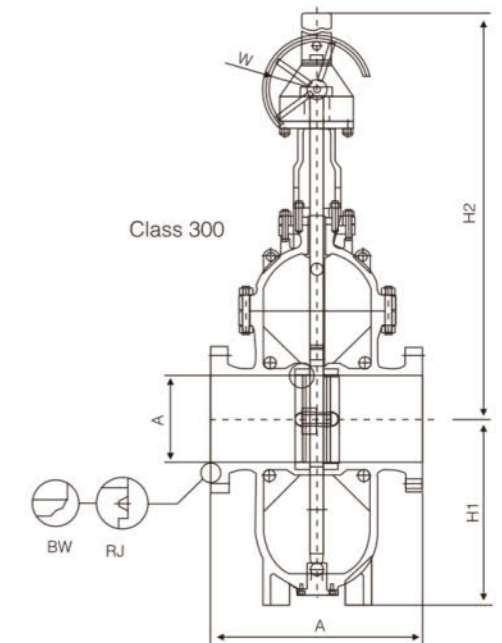


Class 300

Parallel Slide Gate Valve

NPS	DN	A	B	H1	H2	W	WT	T
in	mm	mm	mm	mm	mm	mm	kg	N.m
2	50	292	51	135	456	200	30	25
3	80	356	76	182	618	250	48	71
4	100	406	100	216	713	280	78	95
6	150	495	150	315	903	350	152	117
8	200	597	201	382	1133	400	240	185
10	250	673	252	480	1403	450	420	282
12	300	762	303	545	1582	500	525	366
14	350	826	334	645	1688	560	810	576
16	400	902	385	730	1884	650	1280	735
*18	450	978	436	802	2163	460	1665	988
*20	500	1054	487	935	2420	460	2168	1235
*24	600	1232	589	1103	2810	460	2980	1963
*28	700	1397	684	1262	3203	460	4060	2990
*30	750	1524	735	1342	3412	600	4980	3566
*32	800	1651	779	1422	3646	600	5800	4121
*36	900	1880	874	1513	4055	600	7790	5785

Note: * Worm gear actuator



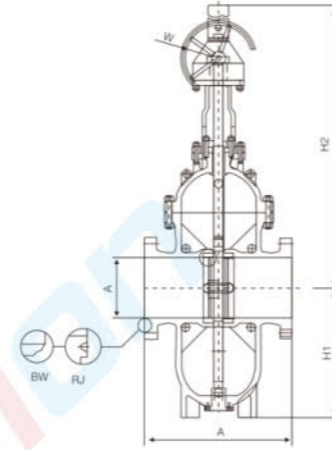
PARALLEL SLIDE GATE VALVE

Dimension

Class 600

Parallel Slide Gate Valve

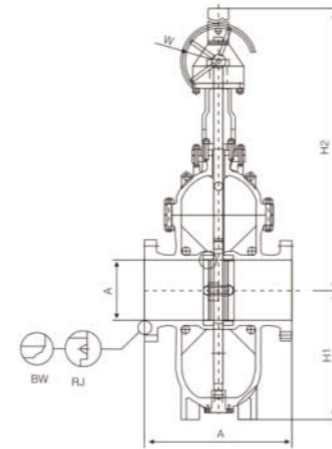
NPS	DN	A	B	H1	H2	W	WT	T
in	mm	mm	mm	mm	mm	mm	kg	N.m
2	50	292	51	160	466	250	60	32
3	80	356	76	228	622	280	106	117
4	100	432	100	258	724	350	160	169
6	150	559	150	332	913	450	395	234
8	200	660	201	411	1148	560	605	319
10	250	787	252	493	1412	600	960	737
12	300	838	303	577	1596	650	1520	1274
*14	350	889	334	654	1745	460	1680	1453
*16	400	991	385	740	1978	460	2230	2103
*18	450	1092	436	812	2268	600	2700	2808
*20	500	1192	487	1040	2509	600	3100	3653
*24	600	1397	589	1160	2820	600	5100	4953
*28	700	1549	684	1288	3233	1000	7050	6253
*30	750	1651	735	1330	3442	1000	8200	7163



Class 900

Parallel Slide Gate Valve

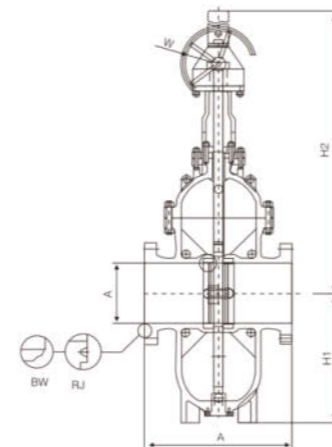
NPS	DN	A	B	H1	H2	W	WT	T
in	mm	mm	mm	mm	mm	mm	kg	N.m
2	50	368	49	162	476	300	133	71
3	80	381	74	230	638	350	198	150
4	100	457	100	262	730	400	260	181
6	150	610	150	336	920	560	565	431
8	200	737	201	415	1152	600	965	767
*10	250	838	252	496	1418	460	1280	1021
12	300	965	303	577	1600	460	1850	1296
14	350	1029	322	660	1755	460	2580	1482
16	400	1130	373	750	2028	600	3500	2139
18	450	1219	423	822	2288	600	4400	2912
20	500	1321	471	1058	2525	600	5560	4486
24	600	1549	589	1176	2850	1000	7480	5195



Class 1500

Parallel Slide Gate Valve

NPS	DN	A	B	H1	H2	W	WT	T
in	mm	mm	mm	mm	mm	mm	kg	N.m
2	50	368	49	162	476	300	133	107
3	80	470	74	230	638	400	235	225
4	100	546	100	270	745	500	398	272
*6	150	705	144	338	930	460	830	618
*8	200	832	192	420	1160	460	1380	1151
*10	250	991	239	500	1428	460	2230	1532



Note: *Turbine drives

SEDELON reserves the right to change design, materials or specifications without notice and free of obligation to furnish or install such changes on products previously sold.

FORGED STEEL GATE VALVE

Material List



Materials of parts

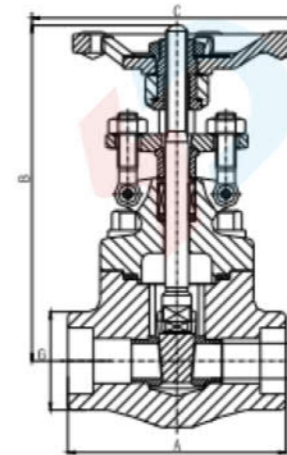
No	Part Name	ASTM Materials		
1	Body	A105	A182-F316	A182-F11
2	Bonnet	A105	A182-F316	A182-F11
3	Wedge	A182-F6a	A182-F316	A182-F6a+HF
4	Stem	A276-410	A276-316	A276-410
5	Seat Ring	A276-410	A182-F316	A276-410+HF
6	Bonnet Gasket	Graphite+304	Graphite+316	Graphite+304
7	Bonnet Stud	A193-B7	A193-B8M	A193-B16
8	Packing	Graphite		
9	Gland	A276-410	A276-316	A276-410
10	Gland Flange	A105	A182-F316	A182-F11
11	Eyebolt Pin	A276-410	A276-316	A276-410
12	Eyebolt	A193-B7	A193-B8M	A193-B16
13	Eyebolt Nut	A194-2H	A194-8M	A194-4
14	Yoke sleeve	A276-410		
15	Handwheel	Malleable Iron		
16	Handwheel nut	Carbon Steel		

Applicable Standards:

- DESIGN OF GATE VALVES: API 602
- DESIGN OF GATE VALVES: ASME B16.34
- FACE TO FACE LENGTH: MANUFACTURER STANDARD
- FACE TO FACE LENGTH, FLANGED: ASME B16.10
- FLANGES END: ASME B16.5
- BUTT WELDING ENDS: ASME B16.25
- SOCKET-WELDING ENDS: ASME B16.11
- SCREWED ENDS: ASME B1.20.1
- INSPECTION AND TEST: API 598

Design descriptions:

- OUTSIDE SCREW AND YOKE (OS&Y)
- BOLTED BONNET
- CHOICE OF WELDED BONNET
- RENEWABLE SEAT RINGS
- YOKE INTEGRAL WITH BONNET
- RISING STEM AND NON-RISING HANDWHEEL
- SW SOCKET-WELDING ENDS
- SC SCREWED ENDS
- BW BUTT WELDING ENDS
- FLANGED ENDS



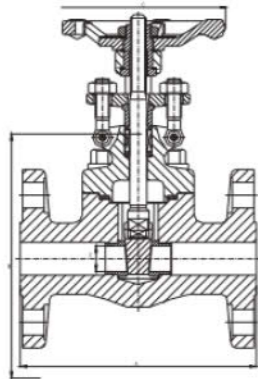
SEDELON reserves the right to change design, materials or specifications without notice and free of obligation to furnish or install such changes on products previously sold.

FORGED STEEL GATE VALVE

Dimension

Class 150-300-600 BOLTED BONNET-Reduced bore

Applicable standards and specifications: API 602-BS 5352
Face to face according to ANSI B 16.10
Flanges according to ANSI B 16.5
Outside Screw and Yoke(OS&Y)
Self-aligning packing gland in two parts
Spiral-wound gasket retained type
Integral backseat
Integral body flanges



REDUCED BORE

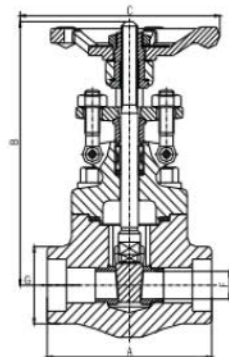
150 LB	SIZE	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
	A	108	117	127	140	165	178
B(OPEN)	153	153	185	222	240	279	
C	100	100	120	160	160	180	
F	13	13	18	24	29	36.8	
WEIGHT(kg)	3.0	3.5	5.5	6.8	10.4	14.4	

300 LB	SIZE	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
	A	140	152	165	178	190	216
B(OPEN)	153	153	185	222	240	279	
C	100	100	120	160	160	180	
F	13	13	18	24	29	36.8	
WEIGHT(kg)	3.6	4.9	7.0	9.4	13.3	18.0	

600 LB	SIZE	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
	A	165	190	216	229	241	292
B(OPEN)	153	153	185	222	240	279	
C	100	100	120	160	160	180	
F	13	13	18	24	29	36.8	
WEIGHT(kg)	4.2	5.8	8.8	12.1	15.6	19.5	

Class 800-1500 BOLTED BONNET-Reduced bore

Design construction: API 602-S 5352
Testing according to API 598
Marking MSS SP 25
Outside Screw and Yoke(OS&Y)
Self-aligning packing gland in two parts
Spiral-wound gasket retained type
Integral backseat
Socket weld Ends to ANSI B 16.11
Screwed Ends(NPT) to ANSI B 1.20.1
Butt welding Ends to ANSI B.16.25



800 LB

SIZE	REDUCED BORE								FULL BORE							
	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"		
A	79	79	79	92	111	120	120	140	92	111	120	120	140	160		
B(OPEN)	149	149	153	153	185	222	240	279	153	185	222	240	279	333		
C	100	100	100	100	120	160	160	180	100	120	160	160	180	200		
F	8	14	13	13	18	29	29	26.5	13	18	24	29	36.8	48		
G	34	34	34	40	49	64	64	78	40	49	58	64	78	82		
WEIGHT(kg)	1.9	1.9	2.0	2.2	3.6	6.2	6.2	9.7	3.3	3.8	5.8	6.7	10.3	15.2		

1500 LB

SIZE	REDUCED BORE								FULL BORE							
	1/4"	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"		
A	79	97	92	111	120	120	140	160	111	120	120	140	160	210		
B(OPEN)	175	178	181	181	218	218	274	319	181	218	237	274	319	345		
C	100	100	125	125	160	160	180	200	125	160	160	180	200	200		
F	8	13	13	13	18	18	29	36.8	13	18	24	29	36.8	48		
G	34	40	42	49	58	58	78	88	49	58	64	78	88	88		
WEIGHT(kg)	3.0	3.2	3.5	4.0	6.0	6.0	10.8	15.5	4.3	6.3	7.3	11.2	15.9	16.5		

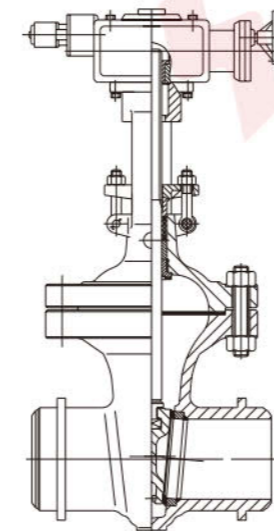
Special Design Feature

For servicing H S-containing environments in oil and gas production, FLOWORK offers NACE valve made of the component metal materials specially heat-treated and hardness-controlled in compliance with NACE standard Mr0175 or 0103, so as to resist all mechanisms of cracking that can be caused by H S, including sulfide stress cracking (SSC), stress corrosion cracking (SCC), and other hydrogen-induced cracking. Below table show typical Nace material configuration for FLOWORK cast steel gate valves:

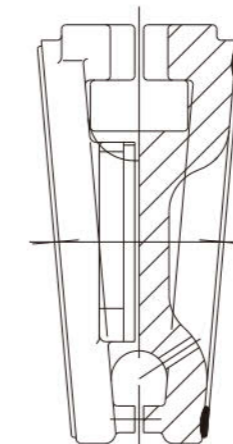
NACE Valves Compared to API 600 Valves

Valve Parts	ASTM Specification	API 600 Valves	Nace Valves
Body/Bonnet	A216 Gr. WCB	≤ 22HRC	≤ 22HRC
Wedge	A216 Gr. WCB or A217 CA15	Quenching + High Temperature Tempering 25-30HRC	Quenching + Double Tempering ≤ 22HRC
Seating Ring	A105 + Stellite 6 Overlayed	Stress Relieving Tempering Overlay hardness ≥ 38HRC	Stress Relieving Tempering Overlay hardness ≥ 38HRC
Stem	A182 F6a	Quenching + High Temperature Tempering 17-22HRC	Quenching + Double Tempering ≤ 22HRC
Gland	ANSI 420	Quenching + High Temperature Tempering 31-35HRC	Quenching + Double Tempering ≤ 22HRC
Backseat Bushing	ANSI 420	Quenching + High Temperature Tempering 31-35HRC	Quenching + Double Tempering ≤ 22HRC
Body/Bonnet Studs		ASTM A193 Grade B7	ASTM A193 Grade B7M
Body/Bonnet Nuts		ASTM A194 Grade 2H	ASTM A194 Grade 2HM

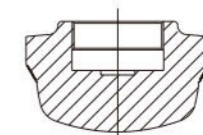
Special Design Feature



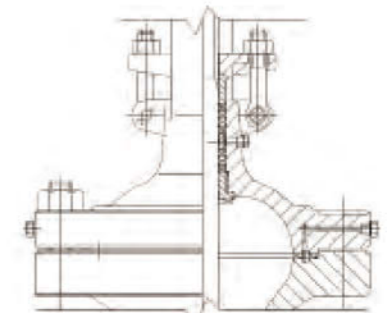
All gate and globe valves can be equipped with electric, Pneumatic or hydraulic actuator, per customer's specification.



Pressure relief hole

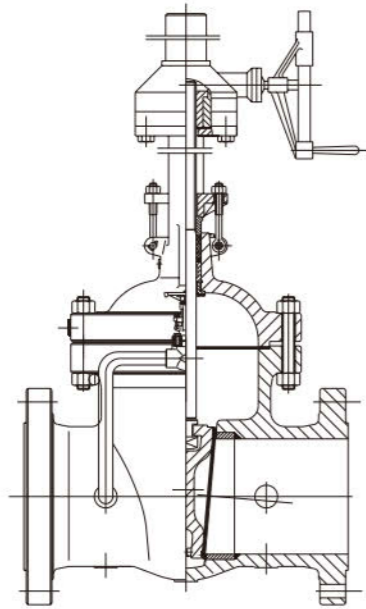


Parabola disc

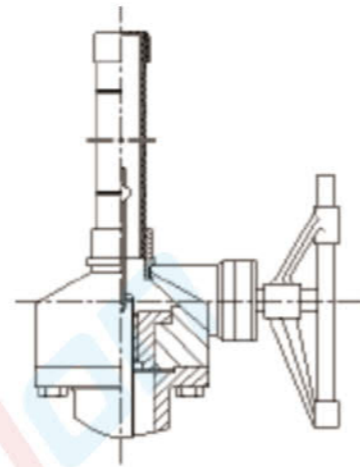


Double sealing gasket and packing with intermediate leak detection

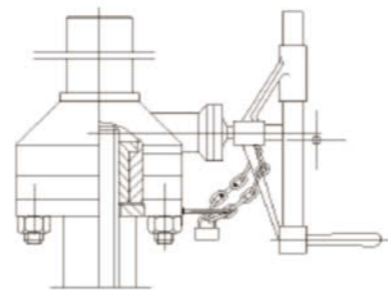
Special Design Feature



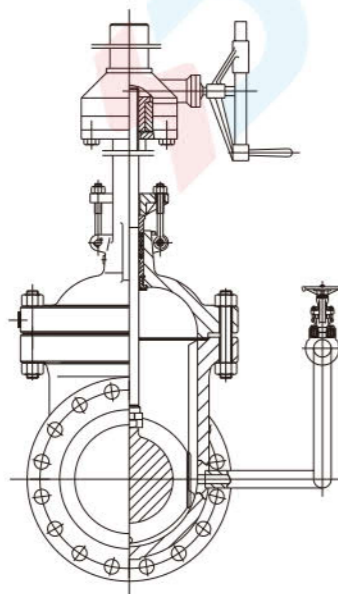
Special by-pass application



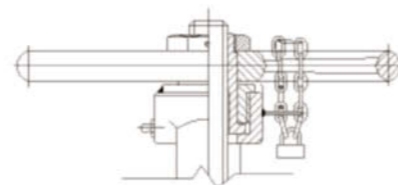
Locking device on the gear box



Position indicator on gear box



Special by-pass application



Locking device on the handwheel

Low Fugitive Emission Control

With the enhancement of people ecological awareness since 1960's, especially under the background of nowadays quick economic globalization, protecting environment is becoming common understanding in present global development, whether developed or developing countries, and had led to born associated law and regulation in different fields, including modern process industries. Industrial valves are one of main pollution sources in modern process industries because of fugitive emission. To minimize the risk of process media leaked through valves to human health, safety and environment, FLOWORK developed low emission technology for all series valves, which featured the essential function of controlling effectively the fugitive emission leakage of various media from valves in virtue of emission defense material using and special structure design, and these valves are measured and tested in accordance with ISO 15848 or Shell SPE 77/312.



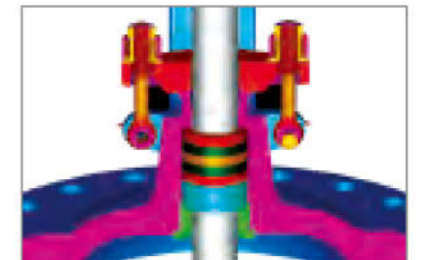
Design Features

Low Emission Packing

FLOWORK actively works with reputable and industry leading sealing solution companies to create low emission solutions that can cover valves from cryogenic to extreme high temperature in variety of endurance range down to 10ppm without usage of bellow seal.

Stuffing box and stem finish

All surface finish for FLOWORK valve's stem and stuffing boxes are tightly controlled to achieve optimized surface finish for the designated sealing solution.



Optional live-loaded eye bolt

Live-loaded eye bolt is optional on customer request. The special structure can maintain a permanent packing stress in virtue of a set of Belleville spring, and extend the low emission service life. FLOWORK standard Belleville springs are protected by a weatherproof cap to keep them from environmental contamination so as to ensure a long and continual stable work life.



Fugitive Emission Valve Test

FLOWORK offers production testing capabilities to ISO 15848-2, Shell MESC 77/312 or other customized testing standards. The table below presents typical test parameters.

Test Standard	ISO 15848	FLOWORK Acceptable Level	
		Test Medium	97% Helium
Test Pressure	Valve body pressure equals to the one specified in ASME B16.34 at selected temperature	Mechanical Cycles	100
Test Equipment	Helium Spectrometer	Temperature	-196 ~ 450°C