

CAST STEEL DOUBLE DISC METAL SEAL PARALLEL GATE VALVE

Design

Cast steel gate valve are designed and manufactured to provide maximum service life and dependability. All gate valves are full ported and meet the design requirements of American petroleum Institute Standard API 600 & API 6D, British Standard BS 1414 & BS EN 1984 and generally conform to American Society of Mechanical Engineers Standard ASME B 16.34. Valves are available in a complete range of body/bonnet materials and trims.

Range of Materials

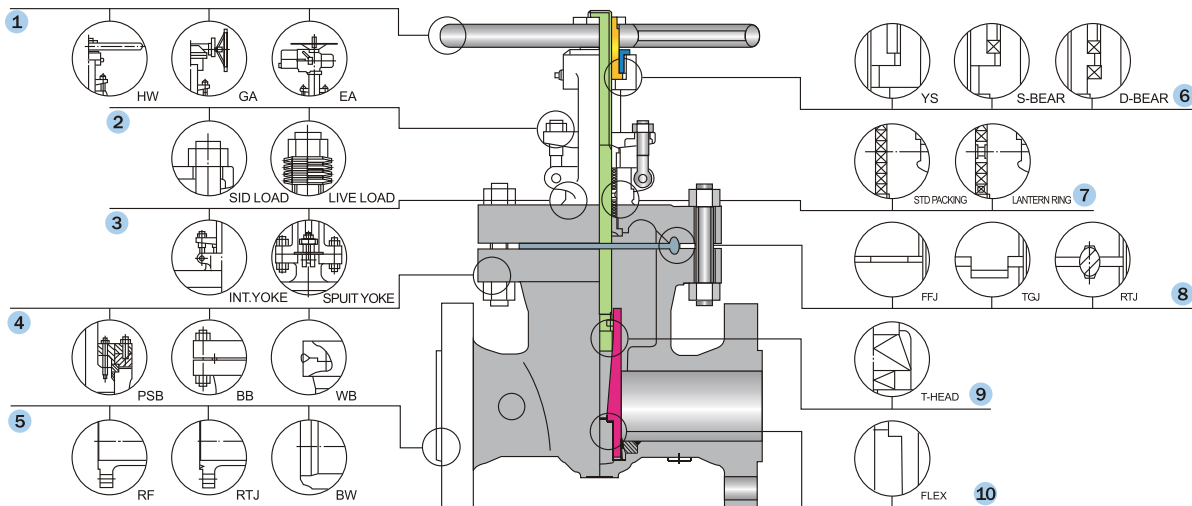
Standard body/bonnet materials include nine grades of carbon, low alloy and stainless steels. For special applications they can be supplied in other grades of alloy and stainless steel. There's a full range of trim materials to match any service. Optional packing and gasket materials are available for a full range of service conditions.

Available Modifications For

- * Trim changes
- * End connection Modifications
- * Packing and Gasket Changes
- * Operator Mounting
- * Handwheel Extensions

Cast Steel Valves

- * Pressure Equalizing
- * By-pass
- * Customer specified Coatings
- * Weld End Bore Changes
- * Oxygen & Chlorine Cleaning & Packaging



1 Operating

Large hand wheels for easy operation. Also available with gearing, motor actuators, pneumatic or hydraulic actuators for more difficult services.

3 OS & Y

Outside Screw and Yoke. Cast steel gate valve yoke. Integral with bonnet for 150Lb-8" , 300Lb-8" , 600Lb-6" , 900Lb-4" & Small.

5 End Connections

A choice of Flanged, RTJ flanged or Butt welding end for piping flexibility

7 Lantern Ring and Double Packing set

Lantern ring with leak-off fitting connection and double packing stack is optionally available for critical services.

9 Stem

All wedge gate valves are provided with upset forged T-head stems. By forging the T-head, the stem at the stem-wedge connection is strengthened. This design also allows the wedge to self-align, eliminating the possibility of a bent stem jamming the wedge.

2 Live Load Packing 4 BB

In services requiring frequent cycling or with high pressure/ temperature variations, live loading extends the service life between maintenance periods by requiring less frequent packing gland adjustments. Belleville springs are employed to provide constant packing gland stress.

6 Yoke Sleeve

Bolted bonnet. Welding bonnet and pressure seal bonnet in services requiring frequent cycling or with high pressure/ temperature variations.

8 Body-to-Bonnet Joint 10 Wedge

Extra long thread engagement between yoke sleeve and stem provide long thread life. Valves of sizes larger than 150Lb-12" , 300Lb-10" , 600Lb-6" , 900Lb/1500Lb/2500Lb-4" are regularly provided with roll bearing yokes.

9 Stem

All wedge gate valves are provided with upset forged T-head stems. By forging the T-head, the stem at the stem-wedge connection is strengthened. This design also allows the wedge to self-align, eliminating the possibility of a bent stem jamming the wedge.

10 Wedge

The sealing construction of Double disc parallel gate valve is adopt the type of "v" with leading to disc, the specil of this type is service to high temperature

CAST STEEL DOUBLE DISC METAL SEAL PARALLEL GATE VALVE

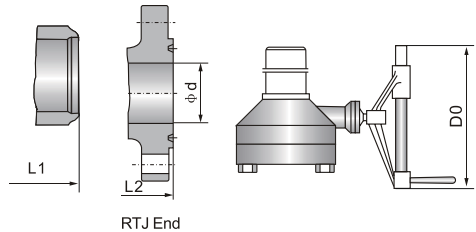
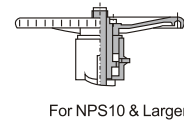
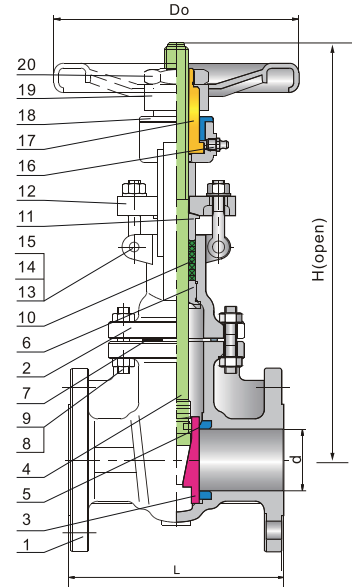
150lb

Applicable standards:

STEEL GATE VALVES, API 600/API 6D
STEEL GATE VALVES, ISO 10434/ISO 14313
STEEL VALVES, ASME B 16.34
FACE TO FACE, ASME B 16.10
END FLANGES, ASME B 16.5
BUTTWELDING ENDS, ASME B 16.25
INSPECTION AND TEST, API 598/API 6D

Design description:

FULL PORT DESIGN
OS & Y, OUTSIDE SCREW AND YOKE
BB, BOLTED BONNET
"V" WITH LEADING TO DISC
CHOICE OF SOLID OR SPLIT WEDGE
RENEWABLE SEAT RINGS
FORGED T-HEAD STEM
RISING STEM AND NON-RISING HANDWHEEL
FLANGED OR BUTTWELDING ENDS
AVAILABLE WITH BG OPERATOR



Materials of parts

No	Part Name	ASTM Material		
		Carbon Steel	1 1/4Cr-1/2Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Wedge	A216-WCB+CR13	A217-WC6+HF	A352-LCB+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+CR13	A182-F11+HF	A350-LF2+CR13
6	Stem Back Seat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Spiral Wound (Graphite+304)		
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Grease Fitting	Brass+Steel		
17	Yokesleeve	Aluminum-Bronze ¹⁾		
18	Yokesleeve Jam Nut	Carbon Steel		
19	Handwheel	Malleable Iron		
20	Handwheel Nut	Carbon Steel		

Note:1).Ductile Ni-Resist optional

2).Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.

Dimensions data

NPS	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36	40	42	48	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200	mm

ANSI Class 150lb

L (RF)	7.00	7.50	8.00	9.00	10.50	11.50	13.00	14.00	15.00	16.00	17.00	18.00	20.00	22.00	24.00	24.00	28.00	28.00	32.00	32.00	42.00	in
	178	191	203	229	267	292	330	356	381	406	432	457	508	559	610	610	711	711	813	813	1067	mm
L1 (BW)	8.5	9.50	11.12	12.00	15.88	16.50	18.00	19.75	22.50	24.00	26.00	28.00	32.00	34.00	36.00	36.00	38.00	40.00	42.00	45.00	53.97	in
	216	241	283	305	403	419	457	502	572	610	660	711	813	864	914	914	965	1016	1067	1143	1371	mm
L2 (RTJ)	7.48	7.99	8.50	9.48	10.98	12.00	13.50	14.48	15.51	16.49	17.51	18.50	20.51	-	-	24.48	-	28.50	-	-	-	in
	190	203	216	241	279	305	343	368	394	419	445	470	521	-	-	622	-	724	-	-	-	mm
H (OPEN)	15.25	17.00	18.88	23.00	30.50	37.62	45.50	53.12	59.38	67.00	74.50	83.50	98.25	110.50	116.50	124.00	129.00	146.50	130.00	136.96	161.70	in
	386	434	480	584	765	956	1149	1350	1508	1703	1892	2119	2500	2806	2960	3150	3280	3720	3302	3479	3962	mm
(d)	50	63	76	100	150	200	250	300	336	387	438	488	590	641	692	743	781	876	-	-	-	mm
D0	8	8	10	12	12	14	16	18	20	22	24	26	29	29	32	32	38	40	40.15	40.15	40.15	in
	200	200	250	300	300	350	400	450	500	550	600	640	720	720	800	800	950	1000	1020	1020	1020	mm
WT (kg)	18	25	32	50	77	121	178	265	363	463	621	792	1190	1521	1838	2261	2490	3310	4650	5100	6500	RF
	15	18	26	41	69	108	156	248	330	424	587	752	1144	1570	1900	3310	2540	3380	-	-	-	BW
Toqure	13	13	15	27	36	63	84	131	151	235	285	341	602	-	-	1079	-	1497	-	-	-	mm

CAST STEEL DOUBLE DISC METAL SEAL PARALLEL GATE VALVE

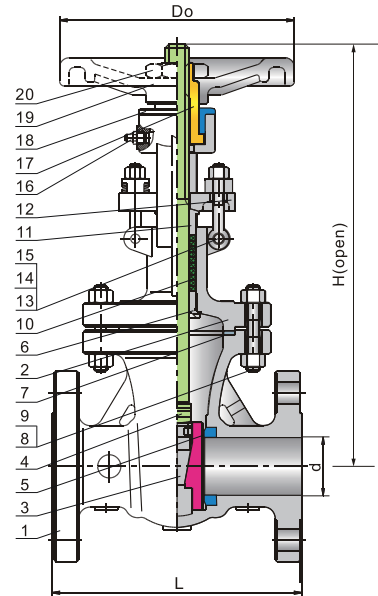
300lb

Applicable standards:

STEEL GATE VALVES, API 600/API 6D
STEEL GATE VALVES, ISO 10434/ISO 14313
STEEL VALVES, ASME B 16.34
FACE TO FACE, ASME B 16.10
END FLANGES, ASME B 16.5
BUTT WELDING ENDS, ASME B 16.25
INSPECTION AND TEST, API 598/API 6D

Design description:

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OS & Y, OUTSIDE SCREW AND YOKE
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"V" WITH LEADING TO DISC
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RISING STEM AND NON-RISING HANDWHEEL
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AVAILABLE WITH BG OPERATOR

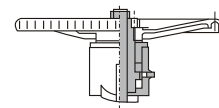


Materials of parts

No	Part Name	ASTM Material		
		Carbon Steel	1 1/4Cr-1/2Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Wedge	A216-WCB+CR13	A217-WC6+HF	A352-LCB+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+CR13	A182-F11+HF	A350-LF2+CR13
6	Stem Back Seat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Spiral Wound (Graphite+304)		
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Grease Fitting	Brass+Steel		
17	Yokesleeve	Aluminum-Bronze ¹⁾		
18	Yokesleeve Jam Nut	Carbon Steel		
19	Handwheel	Malleable Iron		
20	Handwheel Nut	Carbon Steel		

Note: 1). Ductile Ni-Resist optional

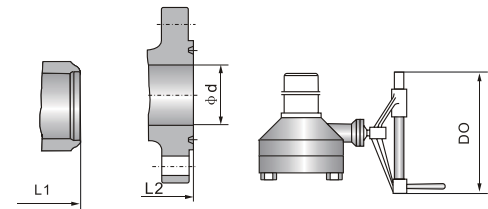
2). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.



For NPS10 & Larger



Yoke For NPS10 & Larger



RTJ End

Dimensions data

NPS	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36	40	42	48	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200	mm

ANSI Class 300Lb

L/L1 (RF/BW)	8.50	9.50	11.12	12.00	15.88	16.50	18.00	19.75	30.00	33.00	36.00	39.00	45.00	49.00	53.00	55.00	60.00	68.00	76.96	80.00	90.00	in
	216	241	283	305	403	419	457	502	762	838	914	991	1143	1245	1346	1397	1524	1727	1955	2032	2286	mm
L2 (RTJ)	9.12	10.12	11.75	12.62	16.50	17.12	18.62	20.38	30.62	33.62	36.62	39.75	45.88	50.00	54.00	56.00	61.12	69.12	-	-	-	in
	232	257	298	321	419	435	473	518	778	854	930	1010	1165	1270	1372	1422	1553	1756	-	-	-	mm
H (OPEN)	16.12	17.88	20.00	24.00	31.75	59.38	47.62	55.75	62.25	67.88	77.12	86.38	102.00	117.00	122.00	126.00	130.00	152.00	146.18	154.17	177.20	in
	410	453	509	612	805	1000	1210	1415	1580	1725	1960	2195	2590	2975	3100	3200	3300	3860	3713	3916	4501	mm
(d)	50	63	76	100	150	200	250	300	336	387	431	482	584	635	686	737	781	876	-	-	-	mm
D0	8	8	10	12	14	16	18	20	22	22	24	26	29	29	32	32	38	40	28.34	28.34	28.34	in
	200	200	250	300	350	400	450	500	550	550	600	640	720	720	800	800	950	1000	720	720	720	mm
WT (kg)	23	35	50	71	144	209	322	482	683	950	1145	1635	2660	3090	3310	3595	3720	3985	8100	9750	13050	RF/RTJ
	17	26	39	53	113	164	256	390	565	805	965	1410	2305	2540	2725	3055	3360	3630	-	-	-	BW
Toqure	16	18	21	42	86	128	215	289	423	537	649	1009	1451	-	-	3140	-	4239	-	-	-	mm

CAST STEEL DOUBLE DISC METAL SEAL PARALLEL GATE VALVE

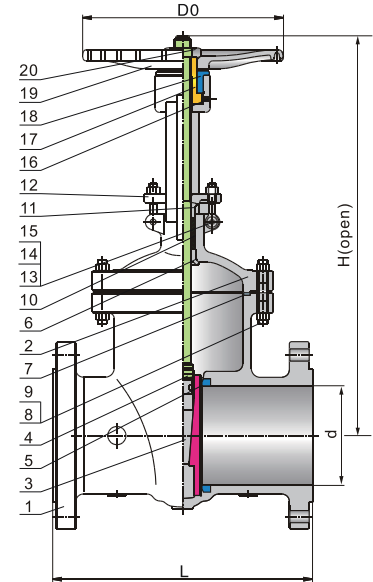
600Lb

Applicable standards:

STEEL GATE VALVES, API 600/API 6D
STEEL GATE VALVES, ISO 10434/ISO 14313
STEEL VALVES, ASME B 16.34
FACE TO FACE, ASME B 16.10
END FLANGES, ASME B 16.5
BUTTWELDING ENDS, ASME B 16.25
INSPECTION AND TEST, API 598/API 6D

Design description:

FULL PORT DESIGN
OS & Y, OUTSIDE SCREW AND YOKE
BB, BOLTED BONNET
"V" WITH LEADING TO DISC
CHOICE OF SOLID OR SPLIT WEDGE
RENEWABLE SEAT RINGS
FORGED T-HEAD STEM
RISING STEM AND NON-RISING HANDWHEEL
FLANGED OR BUTTWELDING ENDS
AVAILABLE WITH BG OPERATOR

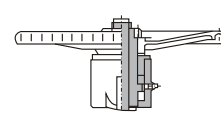


Materials of parts

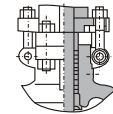
No	Part Name	ASTM Material		
		Carbon Steel	1 1/4Cr-1/2Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Wedge	A216-WCB+CR13	A217-WC6+HF	A352-LCB+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+CR13	A182-F11+HF	A350-LF2+CR13
6	Stem Back Seat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Spiral Wound (Graphite+304)		
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Grease Fitting	Brass+Steel		
17	Yokesleeve	Aluminum-Bronze ¹⁾		
18	Yokesleeve Jam Nut	Carbon Steel		
19	Handwheel	Malleable Iron		
20	Handwheel Nut	Carbon Steel		

Note: 1) Ductile Ni-Resist optional

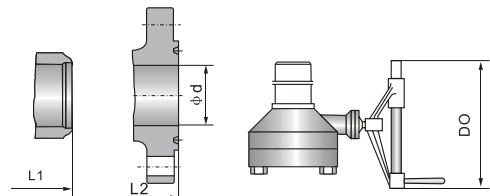
2) Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.



For NPS10 & Larger



Yoke For NPS10 & Larger



RTJ End

Dimensions data

NPS	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36	40	42	48	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200	mm

ANSI Class 600Lb

L/L1 (RF/BW)	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00	57.00	61.00	65.00	70.00	82.00	84.60	88.97	105.00	in
	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1448	1549	1651	1778	2083	2149	2260	2667	mm
L2 (RTJ)	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38	57.50	61.50	65.50	70.62	82.62	-	-	-	in
	295	333	359	435	562	664	791	841	892	994	1095	1200	1407	1461	1562	1664	1794	2099	-	-	-	mm
H (OPEN)	16.50	18.75	20.38	25.50	33.00	40.38	48.38	57.00	62.00	70.62	76.00	87.00	101.50	105.00	109.50	114.00	124.00	140.00	141.73	155.51	181.10	in
	418	476	518	646	840	1025	1230	1450	1575	1795	1930	2210	2580	2665	2780	2895	3150	3560	3600	3950	4600	mm
(d)	50	63	76	100	150	199	247	298	326	374	419	463	558	603	648	695	781	876	-	-	-	mm
D0	8	10	10	12	18	20	24	24	24	24	26	26	29	29	32	32	38	40	28.34	28.34	28.34	in
	200	250	250	300	450	500	600	600	600	600	640	640	720	720	800	800	950	1000	720	720	720	mm
WT (kg)	36	52	67	112	170	393	610	890	1245	1530	1965	2450	2995	3475	3725	4045	4185	4480	14300	16400	22900	RF/RTJ
	29	42	53	83	125	310	472	730	1055	1240	1625	2030	2590	2855	3065	3440	3780	4085	-	-	-	BW
Toqure	23	-	50	68	183	270	479	650	988	1243	1512	2185	3053	-	-	5452	-	7675	-	-	-	mm

PRESSURE SEAL CAST STEEL DOUBLE DISC METAL SEAL PARALLEL GATE VALVE 900Lb

Applicable standards:

STEEL GATE VALVES, API 600/API 6D
STEEL GATE VALVES, ISO 10434/ISO 14313
STEEL VALVES, ASME B 16.34
FACE TO FACE, ASME B 16.10
END FLANGES, ASME B 16.5
BUTTWELDING ENDS, ASME B 16.25
INSPECTION AND TEST, API 598/API 6D

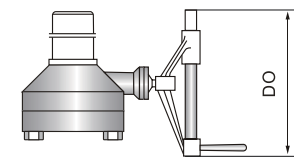
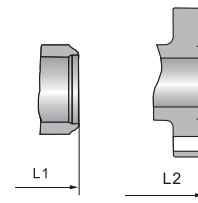
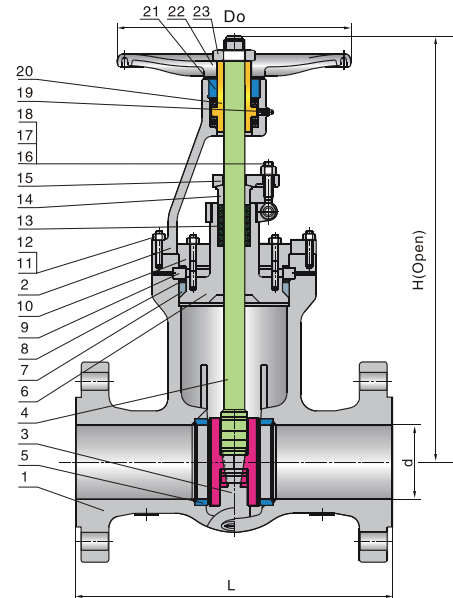
Design description:

PSB, PRESSURE SEAL BONNET
"V" WITH LEADING TO DISC
RENEWABLE SEAT RINGS
FORGED T-HEAD STEM
RISING STEM AND NON-RISING HANDWHEEL
FLANGED OR BUTTWELDING ENDS
AVAILABLE WITH BG OPERATOR

Materials of parts

No	Part Name	Carbon Steel	ASTM Material 1 ¹ / ₄ Cr- ¹ / ₂ Mo	18Cr-9Ni-2Mo
1	Body	A216-WCB	A217-WC6	A351-CF8M
2	Yoke	A216-WCB	A217-WC6	A351-CF8M
3	Wedge	A216-WCB+HF	A217-WC6+HF	A351-CF8M+HF
4	Stem	A182-F6a	CR-MO-V	A182-316
5	Seat Ring	A105+HF	A182-F11+HF	A240-316+HF
6	Bonnet	A105	A182-F11	A240-316
7	Bonnet Gasket ¹⁾	Steel Ring	304SS Ring	316SS Ring
8	Adapter Ring	Carbon Steel	A276-420	A276-316
9	Retainer	Carbon Steel	A276-420	A276-316
10	Yoke Cap	Carbon Steel	Alloy Steel	Stainless Steel
11	Bonnet Stud	A193-B7	A193-B16	A193-B8M
12	Bonnet Stud Nut	A194-2H	A194-7	A194-8M
13	Packing		Graphite	
14	Gland	A276-420	A276-304	A276-316L
15	Gland Flange	A216-WCB	A217-WC6	A351-CF8M
16	Eyebolt Pin	Carbon Steel	A276-420	A276-316
17	Eyebolt	Carbon Steel	A193-B7	A193-B8
18	Eyebolt Nut	Carbon Steel	A194-2H	A194-8
19	Grease Fitting		Brass+Steel	
20	Yokesleeve		Aluminum-Bronze ²⁾	
21	Yokesleeve Jam Nut		Carbon Steel	
22	Handwheel		Malleable Iron	
23	Handwheel Nut		Carbon Steel	

Note: 1). Graphite optional
2). Ductile Ni-Resist optional
3). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.



Dimensions data

NPS	2	2 ¹ / ₂	3	4	6	8	10	12	14	16	18	20	24	26	28	32	34	36	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	800	850	900	mm

ANSI Class 900Lb

L1 (BW)	8.50 216	10.00 254	12.00 305	14.00 356	20.00 508	26.00 660	31.00 787	36.00 914	39.00 991	43.00 1092	47.99 1219	52.00 1321	60.98 1549	61.96 1574	65.47 1663	70.00 1778	72.99 1854	80.00 2032	in mm
L (RF)	14.50 368	16.50 419	15.00 381	18.00 457	24.00 610	29.00 737	33.00 838	38.00 965	40.50 1029	44.50 1130	47.99 1219	52.00 1321	60.98 1549	61.96 1574	65.47 1663	70.00 1778	72.99 1854	80.00 2032	in mm
L2 (RTJ)	14.62 371	16.62 422	15.12 384	18.12 460	24.12 613	29.12 740	33.12 841	38.12 968	40.88 1038	44.88 1140	48.50 1232	52.51 1334	61.73 1568	-	-	-	-	-	in mm
H (OPEN)	17.62 448	17.62 448	19.5 495	22.88 580	32.62 830	67.62 955	45.5 1155	53.12 1350	59 1500	70.5 1790	93.74 2381	96.49 2451	116.96 2971	131.96 3352	145.47 3695	157.48 4000	163.97 4165	180.98 4597	in mm
Do	14 350	14 350	14 350	14 350	18 450	24 600	28 700	34 850	34 850	34 850	29.92 760	29.92 760	35.43 900	35.43 900	35.43 900	35.43 900	35.43 900	35.43 900	in mm
WT (kg)	39 69	39 69	48 72	69 110	158 253	289 430	482 710	710 1025	998 1452	1390 1960	2340 2750	2800 3400	3420 4400	4270 5500	5454 6900	7392 9000	9042 11000	10874 13500	BW RF/RT

CAST STEEL DOUBLE DISC METAL SEAL PARALLEL GATE VALVE 1500lb

Applicable standards:

STEEL GATE VALVES, API 600/API 6D
STEEL GATE VALVES, ISO 10434/ISO 14313
STEEL VALVES, ASME B 16.34
FACE TO FACE, ASME B 16.10
END FLANGES, ASME B 16.5
BUTTWELDING ENDS, ASME B 16.25
INSPECTION AND TEST, API 598/API 6D

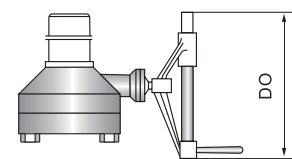
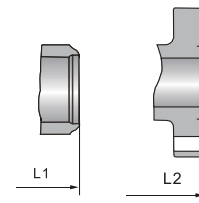
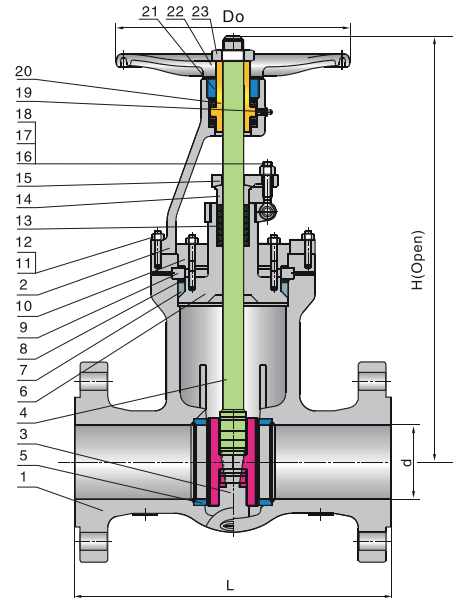
Design description:

PSB, PRESSURE SEAL BONNET
"V" WITH LEADING TO DISC
RENEWABLE SEAT RINGS
FORGED T-HEAD STEM
RISING STEM AND NON-RISING HANDWHEEL
FLANGED OR BUTTWELDING ENDS
AVAILABLE WITH BG OPERATOR

Materials of parts

No	Part Name	Carbon Steel	ASTM Material 1 1/4Cr-1/2Mo	18Cr-9Ni-2Mo
1	Body	A216-WCB	A217-WC6	A351-CF8M
2	Yoke	A216-WCB	A217-WC6	A351-CF8M
3	Wedge	A216-WCB+HF	A217-WC6+HF	A351-CF8M+HF
4	Stem	A182-F6a	CR-MO-V	A182-316
5	Seat Ring	A105+HF	A182-F11+HF	A240-316+HF
6	Bonnet	A105	A182-F11	A240-316
7	Bonnet Gasket ¹⁾	Steel Ring	304SS Ring	316SS Ring
8	Adapter Ring	Carbon Steel	A276-420	A276-316
9	Retainer	Carbon Steel	A276-420	A276-316
10	Yoke Cap	Carbon Steel	Alloy Steel	Stainless Steel
11	Bonnet Stud	A193-B7	A193-B16	A193-B8M
12	Bonnet Stud Nut	A194-2H	A194-7	A194-8M
13	Packing		Graphite	
14	Gland	A276-420	A276-304	A276-316L
15	Gland Flange	A216-WCB	A217-WC6	A351-CF8M
16	Eyebolt Pin	Carbon Steel	A276-420	A276-316
17	Eyebolt	Carbon Steel	A193-B7	A193-B8
18	Eyebolt Nut	Carbon Steel	A194-2H	A194-8
19	Grease Fitting		Brass+Steel	
20	Yokesleeve		Aluminum-Bronze ²⁾	
21	Yokesleeve Jam Nut		Carbon Steel	
22	Handwheel		Malleable Iron	
23	Handwheel Nut		Carbon Steel	

Note: 1). Graphite optional
2). Ductile Ni-Resist optional
3). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.



Dimensions data

NPS	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	32	34	36	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	800	850	900	mm

ANSI Class 1500Lb

L1 (BW)	8.50 216	10.00 254	12.00 305	16.00 406	22.00 559	28.00 711	34.00 864	39.00 991	42.00 1067	47.00 1194	52.99 1346	57.99 1473	76.49 1943	80.00 2033	86.96 2209	90.00 2286	95.00 2413	100.98 2565	in mm
L (RF)	14.50 368	16.50 419	18.50 470	21.50 546	27.75 705	32.75 832	39.00 991	44.50 1130	49.50 1257	54.50 1384	60.51 1537	65.51 1664	76.49 1943	80.00 2033	86.96 2209	90.00 2286	95.00 2413	100.98 2565	in mm
L2 (RTJ)	14.62 371	16.62 422	18.62 473	21.62 549	28.00 711	33.12 841	39.38 1000	45.12 1146	50.25 1276	55.38 1407	61.37 1559	66.37 1686	77.63 1972	-	-	-	-	-	in mm
H (OPEN)	17.62 448	17.62 448	21.62 550	25.25 640	33.5 850	38.62 980	46.5 1180	62.25 1580	70.5 1790	78 1980	86.96 2209	93.97 2387	110.00 2794	121.96 3098	133.97 3403	147.48 3746	120.00 3048	127.99 3251	in mm
D0	14 350	14 350	14 350	18 450	24 600	28 700	34 850	34 850	34 850	34 850	33.85 860	33.85 860	33.85 860	40.15 1020	40.15 1020	40.15 1020	-	-	in mm
WT (kg)	39 69	45 80	55 95	77 123	175 283	323 481	540 795	795 1148	1115 1626	1556 2195	4000 5225	4800 6310	7500 9050	8900 9934	10000 11174	13500 14852	16000 17443	18900 21246	BW RF/RTJ

CAST STEEL DOUBLE DISC METAL SEAL PARALLEL GATE VALVE 2500lb

Applicable standards:

STEEL GATE VALVES, API 600/API 6D
STEEL GATE VALVES, ISO 10434/ISO 14313
STEEL VALVES, ASME B 16.34
FACE TO FACE, ASME B 16.10
END FLANGES, ASME B 16.5
BUTTWELDING ENDS, ASME B 16.25
INSPECTION AND TEST, API 598/API 6D

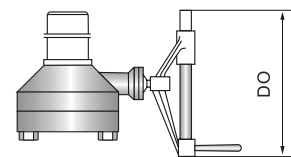
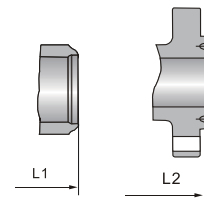
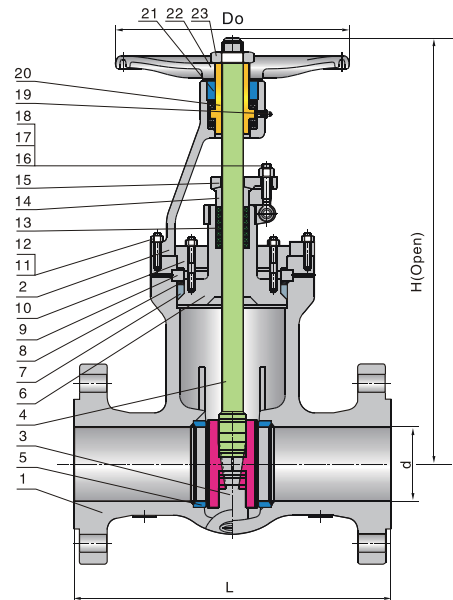
Design description:

PSB, PRESSURE SEAL BONNET
"V" WITH LEADING TO DISC
RENEWABLE SEAT RINGS
FORGED T-HEAD STEM
RISING STEM AND NON-RISING HANDWHEEL
FLANGED OR BUTTWELDING ENDS
AVAILABLE WITH BG OPERATOR

Materials of parts

No	Part Name	Carbon Steel	ASTM Material 1¼Cr-½Mo	18Cr-9Ni-2Mo
1	Body	A216-WCB	A217-WC6	A351-CF8M
2	Yoke	A216-WCB	A217-WC6	A351-CF8M
3	Wedge	A216-WCB+HF	A217-WC6+HF	A351-CF8M+HF
4	Stem	A182-F6a	CR-MO-V	A182-316
5	Seat Ring	A105+HF	A182-F11+HF	A240-316+HF
6	Bonnet	A105	A182-F11	A240-316
7	Bonnet Gasket ¹⁾	Steel Ring	304SS Ring	316SS Ring
8	Adapter Ring	Carbon Steel	A276-420	A276-316
9	Retainer	Carbon Steel	A276-420	A276-316
10	Yake Cap	Carbon Steel	Alloy Steel	Stainless Steel
11	Bonnet Stud	A193-B7	A193-B16	A193-B8M
12	Bonnet Stud Nut	A194-2H	A194-7	A194-8M
13	Packing		Graphite	
14	Gland	A276-420	A276-304	A276-316L
15	Gland Flange	A216-WCB	A217-WC6	A351-CF8M
16	Eyebolt Pin	Carbon Steel	A276-420	A276-316
17	Eyebolt	Carbon Steel	A193-B7	A193-B8
18	Eyebolt Nut	Carbon Steel	A194-2H	A194-8
19	Grease Fitting		Brass+Steel	
20	Yokesleeve		Aluminum-Bronze ²⁾	
21	Yokesleeve Jam Nut		Carbon Steel	
22	Handwheel		Malleable Iron	
23	Handwheel Nut		Carbon Steel	

Note: 1). Graphite optional
2). Ductile Ni-Resist optional
3). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.



Dimensions data

NPS	2	2½	3	4	6	8	10	12	14	16	18	20	24	26	28	32	34	36	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	800	850	900	mm

ANSI Class 2500Lb

L1 (BW)	11.00	13.00	14.50	18.00	24.00	30.00	36.00	41.00	44.01	49.01	55.00	55.00	63.97	70.00	75.00	80.00	85.98	95.00	in
	279	330	368	457	610	762	914	1041	1118	1245	1397	1397	1625	1778	1905	2032	2184	2413	mm
L (RF)	17.75	20.00	22.75	26.50	36.00	40.25	50.00	56.00	-	-	-	-	-	-	-	-	-	-	in
	451	508	578	673	914	1022	1270	1422	-	-	-	-	-	-	-	-	-	-	mm
L2 (RTJ)	17.88	20.50	23.00	26.88	36.50	40.88	50.88	56.88	-	-	-	-	-	-	-	-	-	-	in
	454	514	584	683	927	1038	1292	1445	-	-	-	-	-	-	-	-	-	-	mm
H (OPEN)	22.5	22.5	25.62	30	36.62	41.38	44.88	60.25	54.29	58.30	65.00	71.29	75.00	80.00	82.99	92.99	96.96	120.59	in
	570	570	650	760	930	1050	1140	1530	1379	1481	1651	1811	1905	2032	2108	2362	2463	3063	mm
D0	14	14	18	24	28	34	34	34	40.15	40.15	40.15	40.15	-	-	-	-	-	-	in
	350	350	450	600	700	850	850	850	1020	1020	1020	1020	-	-	-	-	-	-	mm
WT (kg)	110	110	150	175	380	575	980	1570	3200	4100	5200	6800	9500	11000	13100	17200	19300	25000	BW
	165	195	235	316	635	910	1780	2680	-	-	-	-	-	-	-	-	-	-	RF/RTJ