



Carbon Steel PSB Pressure Seal Bonnet Gate Valve With 1500lbs

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: DEYE
- Certification: ISO9001:2015 PED
- Model Number: DY-V-16
- Minimum Order Quantity: 10PCS
- Price: USD2-USD20000 each
- Packaging Details: carton box+ ply wooden cases or carton+ Pallets
- Delivery Time: 20 days for usual order, 7 days for stocked items
- Payment Terms: T/T, L/C, D/P
- Supply Ability: 1000pcs one month



Product Specification

- Standard: API 6D API600 ANSI B16.34
- Design: Bolted Bonnet, Welded Bonnet, Pressure Seal Bonnet
- Material: Carbon Steel, Stainless Steel, Duplex Stainless Steel
- Trim: Trim No. 1, Trim No. 5, Trim. 8, Trim No. 10, Trim NO. 12, Customized
- Connection: Butt Welded BW, Flange, Threaded, SW Socket Welded
- Pressure: 150LBS-1500LBS
- Highlight: **PSB pressure seal bonnet gate valve, Carbon Steel pressure seal bonnet gate valve, 1500lbs bonnet gate valve**

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Product Description

Gate Valve is a shut-off device to open and close the flow of the fluid conveyed by a piping system (or a pipeline). A gate valve is a bi-directional valve, as the fluid may flow in either direction. The installation of this type of valve creates a modest pressure drop in the pipeline, lower than globe valves. Gate valves have forged bodies for bore sizes below 2 inches (API 602/BS 5352), and cast bodies for larger sizes (API 600, API 603, API 6D).

Product Information/Product Description / Basis Information / Specification

Standard	BS1873/ /BS 5352 cast and forged Globe valve BS1868 check valve API600 Bolted Bonnet Steel Gate Valves for Petroleum and Natural Gas Industries API602 Forged Steel valves API603 Stainless steel valve API6D Gate valve, Plug valve and Ball valve API609 Butterfly valve API594 Wafer, Lug check valve
Types	Butterfly Valves, Ball valves, gate valves, check valves, globe valves, Plug valves, strainers
Size	1/2"-48 DN15-DN1200" globe valve is 1/2" to 16"
End Connection	Flange Ends, RF, FF, RTJ, LM, BW ends, threaded ends NPT, BSPT, BSPP, Socket Welded Ends
Pressure Range	CL150LBS, 300LBS, 600LBS, 800LBS 900LBS, 1500LBS, 2500LBS PN6 PN10 PN16 PN25 PN40. PN64 PN110, PN160, PN250, PN420
Surface	Acid pickling, Polished, Galvanized, Painting, epoxy Power Coated

Material List Grade

Main Ingredients	Standards							
	Castings				Bar or Forgings			
	ASTM	DIN (W.-Nr.)	UNS-No.	JIS	ASTM	DIN (W.-Nr.)	UNS-No.	JIS
Martenstic Stainless Steel								
13Cr-4Ni-0.8Mo	A743 CA6NM	1.4313	J91540	SCS6	A276 S41500	1.4313	S41500	
Austenitic Stainless Steel								
18Cr-8Ni	A351 CF8	1.4308	J92600	SCS1 3A	A276 304	1.4301	S30400	SUS 304
18Cr-8Ni-LS ⁽¹⁾								
18Cr-8Ni-LC ⁽²⁾	A351 CF3	1.4306	J92500	SCS1 9A	A276 304L	1.4306	S30403	SUS 304L
18Cr-9Ni-2Mo	A351 CF8M	1.4408	J92900	SCS1 4A	A276 316	1.4401	S31600	SUS 316
18Cr-9Ni-2Mo-LS ⁽¹⁾								
18Cr-9Ni-2Mo-LC ⁽²⁾	A351 CF3M	1.4404	J92800	SCS1 6A	A276 316L	1.4404	S31603	SUS 316L
18Cr-10Ni-Nb	A351 CF8C	1.4552	J92710	SCS2 1	A276 347	1.455	S34700	SUS 347
18Cr-12Ni-3.5Mo	A351 CG8M		J93000		A276 317	1.4449	S31700	SUS 317
18Cr-12Ni-3.5Mo-LC ⁽²⁾	A351 CG3M		J92999		A276 317L	1.4438	S31703	SUS 317L
18Cr-13Ni-4.5Si								
21Cr-29Ni-2.5Mo-3.5Cu	A351 CN7M	1.4536	J95150	SCS2 3	A473 N08020	2.466	N08020	
21Cr-29Ni-2.7Mo-3.2Cu-LC ⁽²⁾	A990 CN3MCu							
25Cr-20N	A351 CK20		J94202	SCS1 8	A276 310S	1.4845	S31008	SUS 310S
33Ni-20Cr-45Fe-Nb	A351 CT15C	1.4859	N28820		B408 N08800	1.4876	N08800	NCF800
Super Austenitic Stainless Steel								
21Cr-24Ni-6.5Mo-N	A351 CN3MN				B691 N08367		N08367	SUS 836L
25Cr-24Ni-6.5Mo-N	A351 CN3MN mod.							

20Cr-18Ni-6.5Mo-N-Cu	A351 CK3MCuN		J93254		A276 S31254		S31254	
Duplex Stainless Steel								
22Cr-5Ni-3Mo-N	A995 Gr.4A CD3MN		J92205		A276 UNS32205	1.4462	S32205	SUS 329J3L
25Cr-5Ni-Mo-Cu	A890 Gr.1A CD4MCu		J93370		A790 UNS31260		S31260	
Super Duplex Stainless Steel								
25Cr-7Ni-3Mo-N				SCS10	A479 S32750	1.446	S32750	SUS 329J4L
28Cr-7Ni-4Mo-N				SCS10 mod.				
25Cr-7Ni-3Mo-Cu-N-W	A890 Gr.6A CD3MWCuN	1.4468	J93380		A479 S32750	1.446	S32750	
25Cr-7Ni-4Mo-N	A890 Gr.5A CE3MN		J93404		A479 S32750	1.446	S32750	

High Temperature Material CF8, 304, 304H CF8M, 316, 316H CK-20, 310, 310H WC4, WC5, F2, WC6, F11C1.2, F12C1.2, WC9, F22C1.3, C5, F5, WC4, WC5, F2, WC6, F11C1.2, F12C1.2, WC9, F22C1.3, C5, F5

Low Temperature Material A352 LCB, LCC, LC1 LC2, LC3, LC4, CF8M, CF8, CF3M
Alloy Material: Bronze, IN Conoy, DUPLEX SS, Alloy 20, Hastelloy C 276, Hastelloy B

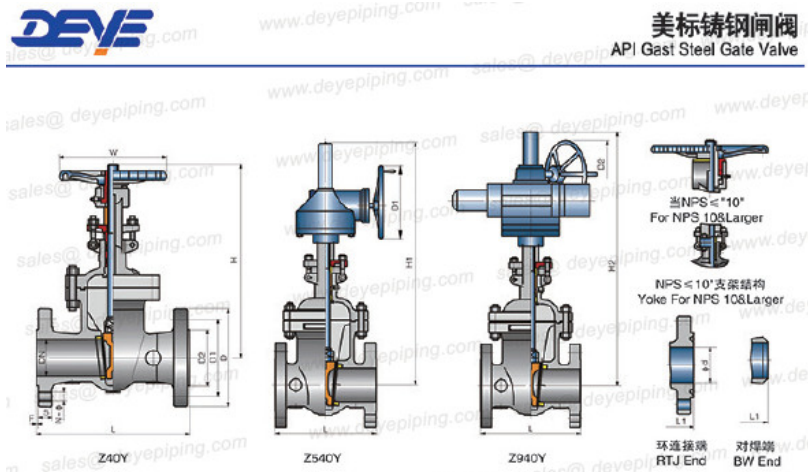
Technical Pressure Test

Shell Test	1.5xworking pressure				
Seal Test	1.1x Working Pressure				
air test for seal	0.6Mpa by air				
Valve Size	Minimum Test Duration (Seconds)				
DN	NPS	Shell , 夕	Backseat (for Valves with Backseat Featu_re)	Closure Check Valves (API 594)	Closure Other Valves
≤50	≤ 2"	15	15	60	15
65 to 150	2 1/2" to 6"	60	60	60	60
200 to 300	8"-12"	120	60	120	120
≥350	≥14"	300	60	120	120
a The test duration is the period of inspection aft the valve is fully prepared and is unde full pressure.					

Maximum allowable Leakage Rates for Closure Test							
Valve Size		All Resilient Seated Valves	Metal Seated Valves Except Check		Metal Seated Check Valves		
DN (mm)	NPS		Liquid Test (drops/minute)	Gas. Test (bubbles/minute)	Liquid Test (cc/min)	Gas Test (m3/h)	Gas Test (ft3/h)
≤50	≤2	0	0	0	6	0.08	3
65	2 1/2	0	5	10	7.5	0.11	3.75
80	3	0	6	12	9	0.13	4.5
100	4	0	8	16	12	0.17	6
125	5	0	10	20	15	0.21	7.5
150	6	0	12	24	18	0.25	9
200	8	0	16	32	24	0.34	12
250	10	0	20	40	30	0.42	15
300	12	0	24	48	36	0.5	18
350	14	0	28	56	42	0.59	21
400	16	0	32	64	48	0.67	24
450	18	0	36	72	54	0.76	27
500	20	0	40	80	60	0.84	30
600	24	0	48	96	72	1.01	36
650	26	0	52	104	78	1.09	39
700	28	0	56	112	84	1.18	42
750	30	0	60	120	90	1.26	45
800	32	0	64	128	96	1.34	48
900	36	0	72	144	108	1.51	54
1000	40	0	80	160	120	1.68	60
1050	42	0	84	168	126	1.76	63
1200	48	0	96	192	144	2.02	72

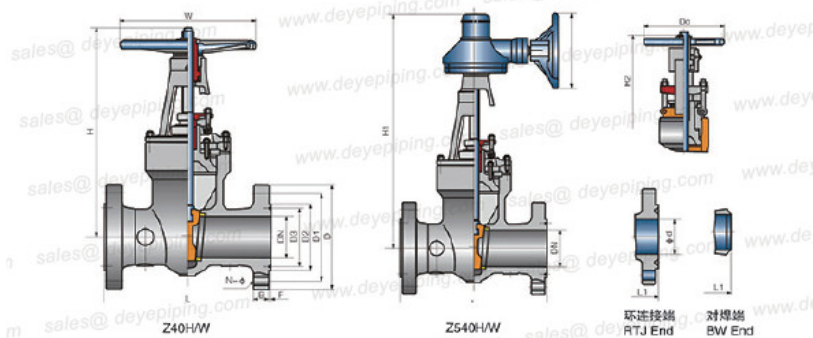
- a For the liquid test, 1 ml is considered equivalent to 16 drops.
- b There shall be no leakage for the minimum specified test duration . For liquid test, 0 drops means no visible leakage per minimum specified test duration. For gas test, 0 bubbles means less than 1 bubble per minimum specified test duration.

Gate Valves catalogue pages/Dimension List



美标600Lb、900Lb铸钢闸阀 Class 600 & Class 900 Cast Steel Gate Valve

压力等级 Class	规格Size			尺寸Dimensions(mm)							重量 Weight(kg)	
	NPS	DN	RF	RTJ	BW	d	H	H1	W	W1	H.W	G.O
600LBS	2	50	292	295	292	51	444	-	200	-	32	-
	2 1/2	65	330	333	330	64	500	-	250	-	52	-
	3	80	356	359	356	76	558	585	280	310	60	87
	4	100	432	435	432	102	665	695	300	310	107	134
	5	125	508	511	508	127	760	790	350	310	175	227
	6	150	559	562	559	152	868	900	450	310	216	268
	8	200	660	664	660	203	1073	1110	500	310	399	451
	10	250	787	791	787	254	1263	1300	650	460	605	657
	12	300	838	841	838	305	1600	1650	700	460	851	893
	14	350	889	892	889	337	1705	1750	900	460	1177	1232
	16	400	991	994	991	387	1835	1900	900	460	1513	1568
	18	450	1092	1095	1092	438	-	2020	-	600	-	1980
900LBS	20	500	1194	1200	1194	489	-	2172	-	600	-	2480
	24	600	1397	1407	1397	591	-	2650	-	600	-	3650
	2	50	368	371	368	51	500	-	280	-	70	-
	2 1/2	65	419	422	419	64	550	-	280	-	110	-
	3	80	381	384	381	76	610	660	300	310	140	167
	4	100	457	460	457	102	702	750	350	310	200	227
	5	125	559	562	559	127	850	900	400	310	258	265
	6	150	610	613	610	152	980	1050	500	460	358	410
	8	200	737	740	737	203	1100	1140	650	460	650	600
	10	250	838	841	838	254	1320	1370	700	460	1000	1100
	12	300	965	968	965	305	1500	1560	900	460	1215	1310
	14	350	1029	1038	1029	322	1900	1950	900	600	1600	1700
	16	400	1130	1140	1130	373	2050	2100	900	600	2150	2330



美标1500Lb 2500Lb铸钢闸阀 Class 1500 & Class 2500 Cast Steel Gate Valve

压力等级 Class	规格Size		尺寸Dimensions(mm)								重量 Weight(kg)	
	NPS	DN	RF	RTJ	BW	d	H	H1	W	W1	H.W	G.O
1500LBS	2	50	368	371	368	51	510	-	280	-	70	-
	2 1/2	65	419	422	419	64	560	-	300	-	110	-
	3	80	470	473	470	76	620	670	350	310	175	202
	4	100	546	549	546	102	728	770	400	310	270	300
	5	125	673	676	673	127	870	920	450	310	378	405
	6	150	705	711	705	144	1000	1070	500	460	520	575
	8	200	832	841	832	192	1130	1160	750	460	820	915
	10	250	991	1000	991	239	1360	1410	900	600	1560	1750
	12	300	1130	1146	1130	287	-	1620	-	600	-	2120
	14	350	1257	1276	1257	315	-	2020	-	600	-	2600
2500LBS	16	400	1384	1407	1384	360	-	2180	-	600	-	3450
	2	50	451	454	451	42	530	580	280	310	100	130
	2 1/2	65	508	514	508	52	560	630	300	310	150	180
	3	80	578	584	578	62	650	700	350	310	245	275
	4	100	673	683	673	87	750	800	400	310	390	420
	5	125	794	807	794	96	900	950	500	460	550	580
	6	150	914	927	914	131	1040	1100	600	460	780	835
	8	200	1022	1038	1022	179	1150	1200	750	460	1260	1355
	10	250	1270	1292	1270	223	1400	1460	900	600	2380	2565
	12	300	1422	1445	1422	265	-	1660	-	600	-	3250

Application:

Valve is a universal component industrial product that is widely used in many industries, such as petroleum, petrochemical, chemical, metallurgy, power, water conservancy, urban construction, machinery, coal, food, Sea water, Oil Refining, environment, energy.

Reference Standard:

API 600: cast carbon and alloy valves
 API 603: stainless steel valves
 API 602/BS 5352: forged valves
 API 6D: slab and through conduit valves for pipelines
 API 598 and BS EN 12266-1: valves testing
 ASME B16.10: face to face dimensions for valves
 ASME B16.5 and ASME B16.47: flanged connections
 ASME B16.25: butt weld connections design
 ASME B16.34: Pressure ratings pressure and temperature ratings by material grade
 ISO 7-1:1994, Pipe threads where pressure-tight joints are made on the threads — Part 1: Dimensions, tolerances and designation.
 ISO 4200:1991, Plain end steel tubes, welded and seamless — Dimensions.
 ISO 5208:1993, Industrial valves — Pressure testing of valves.
 ISO 5209:1977, General purpose industrial valves — Marking.
 ISO 5210:1991, Industrial valves — multi-turn valve actuator attachments.
 ISO 5752: — 1), Metal valves for use in flanged pipe systems — Face-to-face and center-to-face dimensions.
 ISO 6708:1995, Pipework components — Definition and selection of DN (nominal size) .
 ISO 7005-1:1992, Metallic flanges — Part 1: Steel flanges.
 ISO 7268:1983, Pipe components — Definition of nominal pressure.
 ASME B1.1:1989, Unified inch screw threads (UN and UNR thread form) .
 ASME B1.5:1988 (R1994), Acme screw threads.
 ASME B1.8:1988 (R1994), Stub Acme screw threads.
 ASME B1.12:1987 (R1992), Screw threads — Class 5 interference — Fit thread.
 ASME B1.20.1:1983 (R1992), Pipe threads, general purpose (inch) .
 ASME B16.5:1996, Pipe flanges and flanged fittings.

ASME B16.34:1996, Valves — Flanged, threaded and welding end.
ASME B18.2.2:1987 (R1993), Square and hex nuts (inch series) .
ASTM A193:1996, Specification for alloy steel and stainless-steel bolting materials for high-temperature service.
ASTM A194:1996, Specification for carbon and alloy steel nuts for bolts for high-pressure and high-temperature service.
ASTM A307:1994, Specification for carbon steel bolts and studs, 60 000 psi tensile strength.
MSS SP-55:1985 (R1990), Quality standard for steel castings, visual surface examination.
1) To be published. (Revision of ISO 5752:1982)



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