

Figure Numbers



Example:

12	GA	9	R	CB	5	Ga	-B
1	2	3	4	5	6	7	8

i.e. 12" OS&Y BB Gate Valve, Class 900, Raised Face Flange End, ASTM A216 WCB Body/Bonnet, Trim5, Bevel Gear Type A Actuator, with By Pass.

1 Valve Size

NPS	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	700	750	800	900
Symbol	2	2.5	3	4	6	8	10	12	14	16	18	20	24	28	30	32	36

2 Valve Type

Type	Gate	Globe	Swing Check	Y-Strainer
Symbol	GA	GL	CH	ST

3 Nominal Pressure

Class	150	300	600	900	1500	2500
Symbol	1	3	6	9	15	25

PN	16	25	40	63	100	160
Symbol	16	25	40	63	100	160

4 End Type

Type	Raised Face Flange	Ring Joint Flange	Groove Face Flange	Butt Welding End	Socket Welding End	Screwed End
Symbol	R	J	G	B	S	N

5 Body/Bonnet Material

Material		WCB	WC1	WC6	WC9	C5	C12	LCB	LCC	LC2	LC3	CF8	CF8M	CF3	CF3M	CF8C	CN7M
Symbol		CB	C1	C6	C9	C5	C12	LB	LC	L2	L3	F8	8M	F3	3M	8C	7M
Symbol Temperature	°C	-29 to 427	-29 to 468	-29 to 593		-29 to 649		-46 to 343		-73 to 343	-101 to 343	-254 to 649	-254 to 649	-254 to 427	-254 to 454	-29 to 649	-29 to 316
	°F	-20 to 800	-20 to 875	-20 to 1100		-20 to 1200		-50 to 650		-100 to 650	-150 to 650	-425 to 1200	-425 to 1200	-425 to 800	-425 to 850	-20 to 1200	-20 to 600
ASTM		A216	A217					A352					A351				
Standard	150-600#	8	8					2,10,12					2,10,12				
Trim No.	900-2500#	5	5					16					16				

6 Trim Material

Trim Number	1	2	5	8	9	10	12	13	16	17	20
Symbol	1	2	5	8	9	10	12	13	16	17	20
Seat Surface	13Cr	304	HF	HF	Monel	316	HF	Alloy 20	HF	HF	Bronze
Disc Surface	13Cr	304	HF	13Cr	Monel	316	316	Alloy 20	HF	HF	Bronze
Stem	F6	F304	F6	F6	Monel	F316	F316	B473	F316	F347	Bronze
Back Seat Ring	410	304	410	410	Monel	316	316	B473	316	347	Bronze

Note:

- Trim number 1 to 17 are same as API 600 table 3.
- HF: Hardfaced with Stellite 6 (Co-Cr-W alloy) or equivalent.
- B473 : ASTM B473 N08020.
- The trim Symbol of Y-Strainer is none.

7 Valve Actuator

Type	Handwheel	Bevel Gear Type A	Bevel Gear Type B	Spur Gear Type C	Spur Gear Type D	Electrical Actuator	Pneumatic	Bare Stem
Symbol	None	Ga	Gb	Gc	Gd	E	P	B

8 Special Code

Description	Gate/Globe: OS&Y BB, Swing Check Type 1	Angel Type Globe	Swing Check Type2	Piston Check	Non Rising Stem	Pressure Seal
Symbol	None	A	T	I	N	P

Description	By Pass	Locking device	Stem Protection	Water Seal	Bellows Seal	Extended Bonnet	Reduce Bore	Other
Symbol	B	L	S	W	G	E	R	O

Note: If one valve has two or more special codes, the symbol shall sort by letter.