



STANDARDS

Face to Face Dimensions:	ANSI B16.10
End Flange Dimensions:	ANSI B16.5
Buttwelding Ends:	ANSI B16.25
Shell Wall Thickness:	API 600
Basic Design:	BS 1873
Test:	API 598

Class 1500												
DN NPS	15 1/2	20 3/4	25 1	40 1 1/2	50 2	65 2 1/2	80 3	100 4	150 6	200 8	250 10	300 12
L-L ₁ (RF-BW)	216 8.3	229 9	254 10	305 12	368 14.5	419 16.5	470 18.5	546 21.5	705 27.8	832 32.8	991 39	-
L ₂ (RTJ)	216 8.5	229 9	254 10	305 12	371 14.6	422 16.6	473 18.6	549 21.6	711 28	841 33.1	1000 39.4	-
H	300 11.8	240 13.4	380 15	490 19.3	695 27.4	755 27.8	770 30.3	872 34.8	1092 43	1400 55.1	1600 63	-
Do	100 3.9	100 3.9	200 8	250 9.5	300 12	400 16	400 16	500 20	600 24	750 30	850 34	-
RF(kg) BW(kg)	25 22	27 24	29 26	40 36	75 70	110 100	150 140	210 200	480 440	950 900	1700 1600	-

MATERIAL LIST

NO.	Part Name	Carbon Steel		Alloy Steel			Stainless Steel			
		WCB	LCB	WC6	WC9	C5	CF8	CF8M	CF3	CF3M
1	Body	A216 WCB	A352 LCB	A217 WC9	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2	Seat Ring	A105	A350 LF2	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L
3	Disc	A105	A350 LF2	A217 WC6	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
4	Stem	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L
5	Disc Nut	A182 F6	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L
6	Gasket	Solid metal serrated gasket		Stainless steel and graphite spiral wound			Non-metallic gasket			
7	Bonnet	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
8	Bonnet Bolt	A193 B7		A320 L7	A193B16		A320 B8	A193 B8M		
9	Bonnet Nut	A194 2H		A194 4	A194 7		A194 8			
10	Backseat Bushing	A182 F6	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L
11	Stem Packing	Graphite								
12	Lantern*	A182 F6	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L
13	Pin	Carbon Steel or Alloy Steel								
14	Gland Flange	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
15	Gland	A182 F6	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L
16	Gland Eyebolt	A307 B		A320L7	A193 B7		A193 B8			
17	Gland Nut	A194 2H		A194 4	A194 8					
18	Stem Nut	A439 D2		ZCuAl10Fe3(GB standard)						
19	Handwheel	Ductile Iron or Steel								
20	H.W.Lock Nut	Carbon Steel or Alloy Steel								
21	Sealing face overlay	13Cr and 18Cr-8Ni or HF(Co-CrA)								

The material is according to ASTM standard.

* must be stated in contract.