



### 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 600													
DN NPS	15 1/2	25 1	40 1 1/2	50 2	65 2 1/2	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16
L-L <sub>1</sub> (RF-BW)	165 6.5	216 8.5	241 9.5	292 11.5	330 13	356 14	432 17	559 22	660 26	787 31	838 33	-	-
L <sub>2</sub> (RTJ)	163.4 6.4	216 8.5	241 9.5	295 11.6	333 13.1	359 14.1	435 17.1	562 22.1	664 26.1	790 31.1	841 33.1	-	-
H	385 15.2	398 15.7	415 16.3	475 18.8	515 20.3	585 23	675 26.5	913 36	1077 42.4	1276 50.1	1490 58.8	-	-
D <sub>o</sub>	200 8	200 8	200 8	250 10	250 10	300 12	350 14	450 18	500 20	600 24	680 27	-	-
RF(kg) BW(kg)	22 20	25 22	28 24	39 35	56 44	68 59	121 97	250 230	450 380	720 580	950 830	-	-

# 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.