



### 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:	API 600
Test:	API 598

Class 900														
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	350 14	400 16
L-L <sub>1</sub> (RF-BW)	216 8.5	229 9	254 10	305 12	368 14.5	419 16.5	381 15	457 18	610 24	737 29	838 33	965 38	1029 40.5	1130 44.5
L <sub>2</sub> (RTJ)	216 8.5	229 9	254 10	305 12	371 14.6	422 16.8	384 15.1	460 18.1	613 24.1	740 29.1	841 33.1	968 38.1	1038 40.9	1140 44.9
H	300 11.8	340 13.4	380 15	490 19.3	620 24.5	706 27.8	685 27.8	825 32.5	1065 42	1320 52	1540 60.6	1840 72.5	2135 84.1	2380 93.8
D <sub>0</sub>	100 3.9	100 3.9	200 8	250 9.5	300 12	350 14	350 14	400 16	500 20	600 24	750 30	850 34	850 34	960 38
RF(kg) BW(kg)	26 21	28 23	30 26	34 30	95 80	128 110	155 125	192 165	378 330	635 520	900 730	1550 1300	2170 1800	3070 2650

# 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	Wedge	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 CF5	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	Bonnet bolt	A193 B7		A320 L7	A193 B16	A320 B8	A193 B8M				
6	Bonnet nut	A194 2H		A194 4	A194 7	A194 8					
7	Gasket	Solid metal serrated gasket			Stainless Steel and graphite spiral wound			Non-metallic gasket			
8	Bonnet	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	
9	Backseat bushing	A182 F6	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	
10	Stem Packing	Graphite									
11	Lantern*	A182 F6	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	
12	Pin	Carbon Steel or Alloy Steel									
13	Gland	A182 F6	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	
14	Gland Flange	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	
15	Gland Eyebolt	A307 B		A307 L7	A193 B7	A193 B8					
16	Gland Nut	A194 2H		A194 4	A194 8						
17	Stem Nut	A439D2		ZCuA110Fe3	(GB standard)						
18	Retaining Nut	Carbon Steel or Alloy Steel									
19	Hand Wheel	Ductile Iron or Carbon Steel									
20	H.W.Lock Nut	Carbon Steel or Alloy Steel									
21	York	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	
22	Nipple	Copper Alloy			Carbon Steel	or Stainless Steel					
23	Sealing face overlay	13Cr and 18Cr-8Ni ou HF(Co-CrA)									

The material is according to ASTM standard.

\* must be stated in contract.