



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 600

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	450 18	500 20
L-L ₁ (RF-BW)	165 6.5	190 7.5	216 8.5	241 9.5	292 11.5	330 13	356 14	432 17	559 22	660 26	787 31	838 33	889 35	991 39	1092 43	1194 47
L ₂ (RTJ)	165 6.5	190 7.5	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	892 35.1	994 39.1	1095 43.1	1200 47.3
H	280 11	320 12.8	340 13.4	470 18.5	474 18.8	530 20.9	547 21.5	706 27.8	913 36	1077 42.4	1276 50.1	1490 58.8	1658 65.3	1865 73.4	2260 89	2260 89
D ₀	100 3.9	100 3.9	140 5.5	200 8	250 10	250 10	300 12	350 14	450 18	500 20	600 24	680 27	750 30	850 34	960 38	960 38
RF(kg) BW(kg)	11 9	14 11	18 15	26 20	40 32	55 47	70 64	123 103	245 218	426 374	700 570	940 830	1310 1012	1610 1217	2070 1760	2405 2000

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 or HF(Co-CrA)									

The material is according to ASTM standard.

* must be stated in contract.