



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 300																	
DN NPS	15 1/2	25 1	40 1 1/2	50 2	65 2 1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24
L-L ₁ (RF-BW)	140 5.5	185 6.5	191 7.5	218 8.5	241 9.5	283 11.13	305 12	381 15	403 15.9	419 16.5	457 18	502 19.8	762 30	838 33	914 36	991 39	1143 45
L ₂ (RTJ)	151 5.9	178 7	203 8	232 9.13	257 10.13	298 11.8	321 12.63	397 15.63	419 16.5	435 17.13	473 18.63	518 20.4	778 30.63	854 33.63	930 36.63	1010 39.8	1165 45.9
H	240 9.5	320 12.6	450 17.8	470 18.5	525 20.8	533 21	633 24.9	800 31.5	805 31.8	1024 40.3	1232 48.5	1460 57.5	1645 64.8	1841 72.5	1988 78.3	2238 86.4	2623 102.5
D ₀	100 3.9	140 5.5	200 8	200 8	200 8	250 10	300 12	350 14	350 14	400 16	450 18	500 20	600 24	600 24	680 27	720 28.4	800 31.8
RF(kg) BW(kg)	8 5	12 9	20 16	24 20	44 35	50 37	74 54	124 100	137 110	217 174	337 285	580 495	715 615	1050 940	1235 1090	1655 1500	2320 2100

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.