



two-piece body

STANDARDS

Design and manufacture: API 6D, API 608, ANSI B16.34
or BS 5351

Face to face dimensions: ANSI B16.10

Pressure-Temp Ratings: ANSI B16.34

Test: API 6D or API 598

End flange dimensions

NPS 2-24: ANSI B16.5

NPS 28: API 605 or MSS SP-44

CLASS 150														
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	700
NPS	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	28
L(RF)	178	191	203	229	394	457	533	610	686	762	864	914	1067	1245
	7	7.5	8	9	15.5	16	21	24	27	30	34	36	42	49
L(BW)	216	241	283	305	457	521	559	635	762	838	914	991	1143	1346
	8.5	9.5	11.13	12	18	20.5	22	25	30	33	36	39	45.5	53
L ₂ (RTJ)	191	203	216	241	406	470	546	622	699	775	878	927	1080	-
	7.5	8	8.5	9.5	16	18.5	21.5	24.5	27.5	30.5	34.5	36.5	42.5	-
H	153	165	195	213	272	342	495	580	625	720	790	840	1060	1150
	6.05	6.5	7.68	8.39	10.7	13.5	19.5	22.85	24.6	28.35	31	33.1	41.34	45.3
Do(W)	400	400	600	850	1100	1500	*350	*350	*600	*800	*800	*800	*800	*800
	15.74	15.74	23.62	33.46	43.3	59	13.8	13.8	23.6	23.6	31.5	31.5	31.5	31.5
RF(kg)	15	19	38	65	97	160	240	390	510	750	895	1190	2100	3000
BW(kg)	13	17	35	55	92.8	154	227	365	478	711	868	1138	2015	2900

MATERIAL LIST

NO.	Part Name	Carbon Steel		Stainless Steel			
		WCB	LCB	CF8	CF8M	CF3	CF3M
1	Body	A216WCB A105	A352LF2	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2	L-body	A216WCB A105	A352LCB A350LF2	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
3	R-body	A216WCB A105	A352LCB A350LF2	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
4	Ball	A105/Ep.Cr	A182 F304	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
5	Stem	A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
6	Seat	A182 F6	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
7	Seat Ring	PTFE, POM or HF(Co-CrA)					
8	Gasket	PTFE or Flexible Graphite and Stainless Steel					
9	O-Ring	VITON	VITON	VITON	VITON	VITON	VITON
10	Trunnion	A182F6	A182F6	A182F304	A182F316	A182F304L	A182F316L
11	Spring	AISI6150		17-17PH(Inconel for NACE)	Ni-Cr Alloy		
12	Drain plug	A182F6	A182F6	A182F304	A182F316	A182F304L	A182F316L
13	Bolt	A193B7 A320L7		A193B8	A193B8M		
14	Stem bearing	PTFE or Stainless Steel and Graphite					
15	Stem seat	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
16	Small spring	17-17PH(Inconel for NACE)		Ni-Cr Alloy			
17	Small ball	A182 F304		A182 F316			
18	Trunnion bearing	PTFE or Stainless Steel and Graphite					
19	Plug	A105	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
20	Spring seat	A105	A182 F6	A182 F304	A182 F316	A182 F304L	A182 F316L
21	Bonnet Bolt	A193 B7 A320 L7		A320 B8	A193 B8M		
22	Bonnet Nut	A194 2H		A194 4	A194 8		
23	Pin	Carbon Steel or Alloy Steel					
24	Gland	A182F6	A182F6	A182F304	A182F316	A182F304L	A182F316L
25	Gland flange	A216 WCB	A352LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
26	Stem packing	PTFE or Flexible Graphite					
27	Bonnet	A216 WCB A105	A352LCB A350LF2	A351CF8	A351CF8M	A351CF3	A351CF3M

The material is according to ASTM standard.