

## Applicable Standards

Design & Manufacture: API 6D/API 599  
 Pressure-temperature Rating: ASME B16.34  
 Anti Static: API 599  
 Face to Face: ASME B16.10  
 Flange End: ASME B16.5  
 Butt Welded End: ASME B16.25  
 Inspection & Test: API 598/API 6D

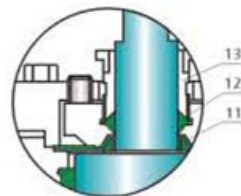
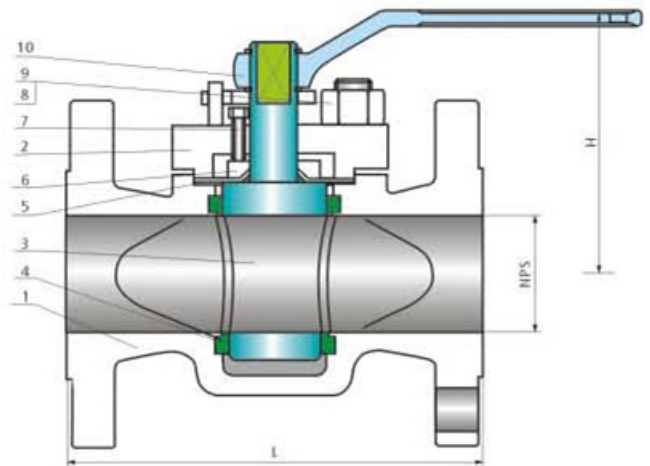
## Design Description

Rugged, Heavy-duty Body  
 BC, Bolted Cover  
 PTFE Sleeved, Tapered Plug  
 Large Port Openings  
 Non-lubricated  
 Stem Integral with Plug  
 In-line Adjustment  
 Anti Static Device  
 Stopper Device  
 Renewable Seat Ring  
 Flanged or Butt Welded End  
 Available with Gear Operator

## Main Parts Materials

NO	Part Name	ASTM Material		
		Carbon Steel	Stainless Steel	Cryogenic Steel
1	Body	A216-WCB	A351-CF8M	A352-LCB
2	Bonnet Cap	A216-WCB	A351-CF8M	A352-LCB
3	Plug	A182-F304 <sup>1)</sup>	A182-F316	A182-F304 <sup>1)</sup>
4	Sleeve	Glass Filled PTFE		
5	Bonnet Gasket	Graphite+304 <sup>2)</sup>	Graphite+316 <sup>2)</sup>	Graphite+304 <sup>2)</sup>
6	Adjusting Gasket	A182-F6a	A182-F316	A182-F6a
7	Adjusting Bolt	A193-B7	A193-B8	A320-L7
8	Bonnet Stud	A193-B7	A193-B8	A320-L7
9	Bonnet Bolt	A194-2H	A194-8	A194-4
10	Handle	Carbon Steel		
11	Diaphragm	A167-304+PTFE	A167-316+PTFE	A167-304+PTFE
12	Packing	Graphite		
13	Gland Flange	A216-WCB	A351-CF8M	A352-LCB

Note: 1) A105 + ENP Optional;  
 2) Jacketed construction.



## Dimensions Data ANSI Class 150LB

Size	in	2	2 1/2	3	4	6	8	10	12
		mm	50	65	80	100	150	200	250
L(RF)	mm	178	190	203	229	267	292	330	356
H	mm	150	165	180	380	520	580	620	680
W	mm	320	350	410	320	320	320	350	380
Weight (Kg)	RF	17	20	25	40	70	135	220	300
	BW	13	14	17.5	29	55	110	185	247

## Dimensions Data ANSI Class 300LB

Size	in	2	2 1/2	3	4	6	8	10	12
		mm	50	65	80	100	150	200	250
L(RF)	mm	216	241	283	305	403	419	457	502
H	mm	150	165	180	380	520	580	620	680
W	mm	320	350	410	320	320	320	350	380
Weight (Kg)	RF	17	20	25	40	70	135	220	300
	BW	13	14	17.5	29	55	110	185	247

### Applicable Standards

Design & Manufacture: API 6D/API 599  
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 Inspection & Test: API 598/API 6D

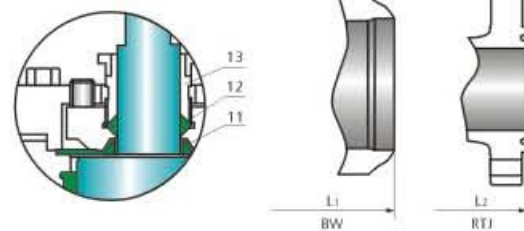
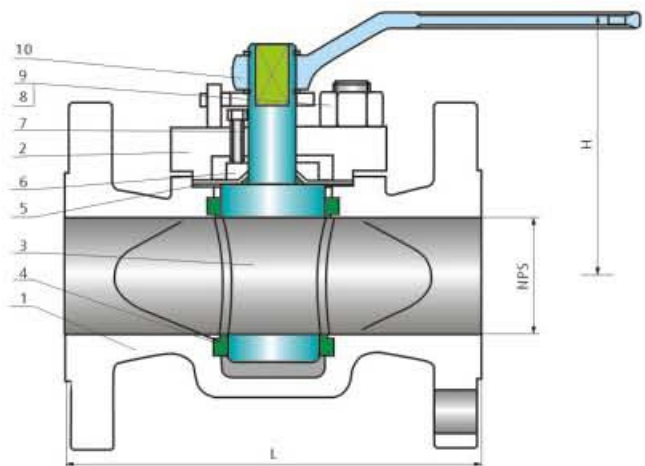
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 BC, Bolted Cover  
 PTFE Sleeved, Tapered Plug  
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 Flanged or Butt Welded End  
 Available with Gear Operator

### Main Parts Materials

NO	Part Name	ASTM Material		
		Carbon Steel	Stainless Steel	Cryogenic Steel
1	Body	A216-WCB	A351-CF8M	A352-LCB
2	Bonnet Cap	A216-WCB	A351-CF8M	A352-LCB
3	Plug	A182-F304 <sup>1)</sup>	A182-F316	A182-F304 <sup>1)</sup>
4	Sleeve	Glass Filled PTFE		
5	Bonnet Gasket	Graphite+304 <sup>2)</sup>	Graphite+316 <sup>2)</sup>	Graphite+304 <sup>2)</sup>
6	Adjusting Gasket	A182-F6a	A182-F316	A182-F6a
7	Adjusting Bolt	A193-B7	A193-B8	A320-L7
8	Bonnet Stud	A193-B7	A193-B8	A320-L7
9	Bonnet Bolt	A194-2H	A194-8	A194-4
10	Handle	Carbon Steel		
11	Diaphragm	A167-304+PTFE	A167-316+PTFE	A167-304+PTFE
12	Packing	Graphite		
13	Gland Flange	A216-WCB	A351-CF8M	A352-LCB

Note: 1) A105+ENP Optional;  
 2) Jacketed construction.



### Dimensions Data ANSI Class 600LB

Size	in mm	2	2 1/2	3	4	6	8	10	12
		50	65	80	100	150	200	250	300
L/L1 (RF/BW)	mm	292	330	356	432	559	660	787	838
L2(RTJ)	mm	295	333	359	435	562	664	791	841
H	mm	155	170	185	390	530	590	630	690
W	mm	350	410	320	320	320	350	380	380
Weight (Kg)	RF/RFJ	28	33	37	75	142	250	365	515
	BW	21	23.5	23	46	97	167	227	354

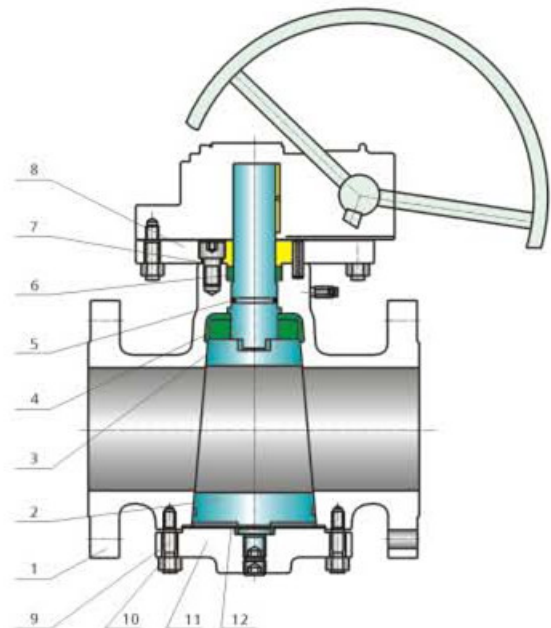
### Dimensions Data ANSI Class 900LB

Size	in mm	2	2 1/2	3	4	6	8	10	12
		50	65	80	100	150	200	250	300
L/L1 (RF/BW)	mm	368	419	381	457	610	737	838	965
L2(RTJ)	mm	371	422	384	460	613	740	841	968
H	mm	155	170	185	390	530	590	630	690
W	mm	350	410	320	320	320	350	380	380
Weight (Kg)	RF/RFJ	52	60	70	92	195	320	455	625
	BW	32	34	47	55	120	197	277	405

## Applicable Standards

Design & Manufacture: API 599/API 6D  
 Connection Dimension: ASME B16.5/B16.25  
 Face to Face: ASME B16.10/API 6D  
 Inspection & Test: API 598/API 6D

Main Parts Materials				
NO	Part Name	ASTM Material		
		Carbon Steel	Stainless Steel	Cryogenic Steel
1	Body	A216-WCB	A351-CF8M	A352-LCB
2	Plug	A216-WCB	A351-CF8M	A351-CF8
3	Stem	A182-F6a	A182-F316	A182-F6a
4	Joint	A182 F304	A182 F316	A182 F304
5	O-ring	VITON/NBR		
6	Packing	Flexible Graphite		
7	Bolt	A193-B7	A193-B8	A320-L7
8	Top Flange	A216-WCB	A351-CF8M	A352-LCB
9	Stud	A193-B7	A193-B8	A320-L7
10	Nut	A194-2H	A194-8	A194-4
11	Lower Cover	A216-WCB	A351-CF8M	A352-LCB
12	Gasket	Spiral Wound ( Graphite/PTFE+ 304 or 316 )		



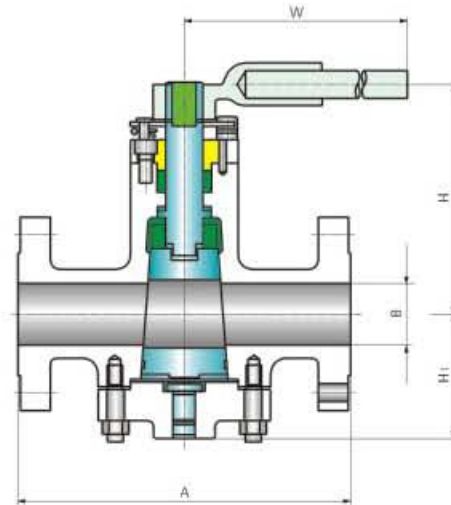
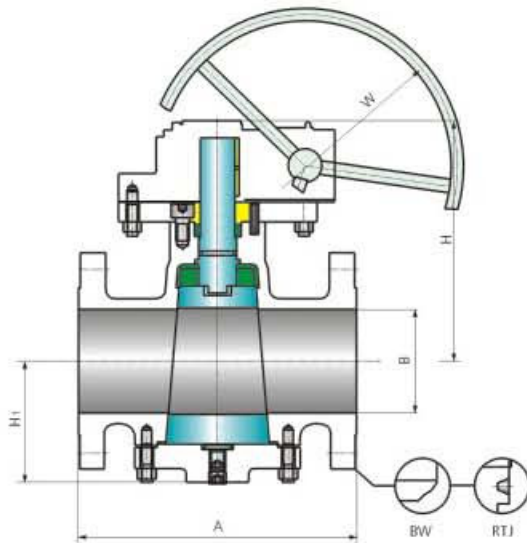
## Plug Valve Introduction

### 1 Purpose

API balance type plug valve suit to nominal pressure class 150 to 1500, work temperature -29℃ to 121℃. It's used to be services hut off or trun on in the pipeline of oil, chemical industries, pharmacy, chemical fertiltzer, power sector etc. It can be remote control by assembly the motor actuator.

### 2 Features.

- 1)Rational construction, reliable seal, nice-feature, attractive appearance.
- 2)Inverted pressure balance construction, will be easy for on-off.
- 3)Without oil scupper between body and seal face, the sealed grease can be injected through the lubricating nipple to plug at anytime, strengthen the seal property.
- 4)Plug valve with the anti-static device will be more safer for user.
- 5)Parts materials and flange dimension can be selected according to the actual conditions or client's requirements, to meet various requirement of project.



### Dimensions Data

### ANSI Class 150LB

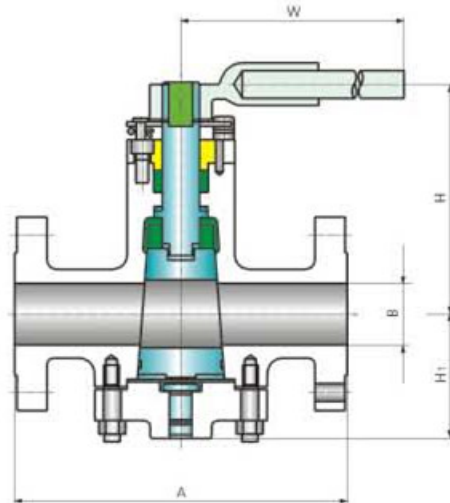
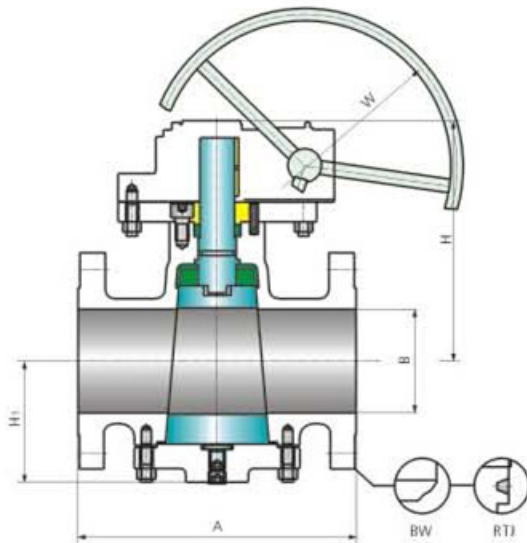
NPS Inch	DN	A mm	B mm	H mm	H <sub>1</sub> mm	W mm	M(RF) kg	T N.m	NPS inch	DN	A mm	B mm	H mm	H <sub>1</sub> mm	W mm	M(RF) kg	T N.m
Short Series Type ANSI Class 150LB									Venturi Type ANSI Class 150LB								
2	50	178	51	175	106	350	18	98	★10	250	533	252	420	255	600	375	2166
3	80	203	76	190	127	600	31	180	★12	300	610	303	492	316	600	420	3199
4	100	229	102	214	158	700	50	302	★14	350	686	334	498	320	600	480	4849
★6	150	267	152	270	185	900	93	628	★16	400	762	385	645	368	700	590	6032
★8	200	292	201	370	220	600	250	2032	★18	450	864	436	687	426	760	713	9142
★10	250	330	252	420	250	600	330	2166	★20	500	914	487	742	477	760	880	12022
★12	300	356	303	490	310	600	360	3199	★24	600	1067	589	798	522	760	1203	19424

### Dimensions Data

### ANSI Class 300LB

NPS Inch	DN	A mm	B mm	H mm	H <sub>1</sub> mm	W mm	M(RF) kg	T N.m	NPS inch	DN	A mm	B mm	H mm	H <sub>1</sub> mm	W mm	M(RF) kg	T N.m
Short Series Type ANSI Class 300LB									Venturi Type ANSI Class 300LB								
2	50	216	51	184	108	500	25	172	6	150	403	152	307	200	900	144	1080
2½	70	241	62	190	115	550	33	198	★8	200	419	303	390	230	600	280	3208
3	80	283	76	195	137	600	40	218	★10	250	457	252	433	255	600	370	3258
4	100	305	102	265	168	700	70	536	★12	300	502	303	500	320	700	408	5202
★6	150	403	152	307	200	900	144	1080	★14	350	762	334	630	340	700	510	8486
★8	200	419	201	390	230	600	280	3208	★16	400	838	385	740	376	762	630	10696
★10	250	457	252	433	255	600	370	3258	★18	450	914	436	788	436	762	750	15940
★12	300	502	303	500	320	700	408	5202	★20	500	991	487	833	497	762	890	21040
-	-	-	-	-	-	-	-	-	★24	600	1143	589	889	543	762	1035	24082

Note: ★Gear Operator



## Dimensions Data

## ANSI Class 600LB

NPS inch	DN	A mm	B mm	H mm	H <sub>1</sub> mm	W mm	M(RF) kg	T N.m	NPS inch	DN	A mm	B mm	H mm	H <sub>1</sub> mm	W mm	M(RF) kg	T N.m
Reduced Bore Type ANSI Class 600LB									Venturi Type ANSI Class 600LB								
2	50	292	51	194	108	500	30	292	6	150	403	152	307	200	900	144	1080
2½	70	330	62	200	115	550	40	322	★8	200	419	303	390	230	600	280	3208
3	80	356	76	205	137	780	48	380	★10	250	457	252	433	255	600	370	3258
4	100	432	102	270	168	1100	85	918	★12	300	502	303	500	320	700	408	5202
★6	150	559	152	340	200	600	194	1814	★14	350	762	334	630	340	700	510	8486
★8	200	660	201	405	230	600	305	5114	★16	400	838	385	740	376	762	630	10696
★10	250	787	252	460	255	700	625	6088	★18	450	914	436	788	436	762	750	15940
-	-	-	-	-	-	-	-	-	★20	500	991	487	833	497	762	890	21040
-	-	-	-	-	-	-	-	-	★24	600	1143	589	889	543	762	1035	24082

## Dimensions Data

## ANSI Class 900LB

NPS inch	DN	A mm	B mm	H mm	H <sub>1</sub> mm	W mm	M(RF) kg	T N.m	NPS inch	DN	A mm	B mm	H mm	H <sub>1</sub> mm	W mm	M(RF) kg	T N.m
Reduced Bore Type ANSI Class 900LB									Venturi Type ANSI Class 900LB								
2	50	368	51	215	120	700	50	417	★6	150	610	152	365	210	600	240	2548
3	80	381	76	250	145	800	70	540	★8	200	737	201	405	240	600	410	9022
4	100	457	102	300	180	1100	116	1258	★10	250	838	252	460	265	762	860	8516
★6	150	610	152	365	210	600	240	2548	★12	300	965	303	510	335	762	1150	11986
★8	200	737	201	405	240	700	410	7022	★16	400	1130	373	600	390	762	1960	20326
★10	250	838	252	460	265	762	860	8516	-	-	-	-	-	-	-	-	-

## Dimensions Data

## ANSI Class 1500LB

NPS inch	DN	A mm	B mm	H mm	H <sub>1</sub> mm	W mm	M(RF) kg	T N.m	NPS inch	DN	A mm	B mm	H mm	H <sub>1</sub> mm	W mm	M(RF) kg	T N.m
Reduced Bore Type ANSI Class 900LB									Venturi Type ANSI Class 900LB								
2	50	368	51	215	120	700	50	654	★6	150	705	144	390	220	600	325	4022
3	80	470	76	60	150	1000	88	862	★8	200	832	192	415	260	762	520	10848
4	100	546	102	320	185	600	160	2064	★10	250	911	239	480	280	762	970	13388
★6	150	705	144	390	220	600	325	4022	★12	300	1130	287	540	360	762	1450	18792
★8	200	832	192	415	260	762	520	10848	-	-	-	-	-	-	-	-	-

Note: ★ Gear Operator