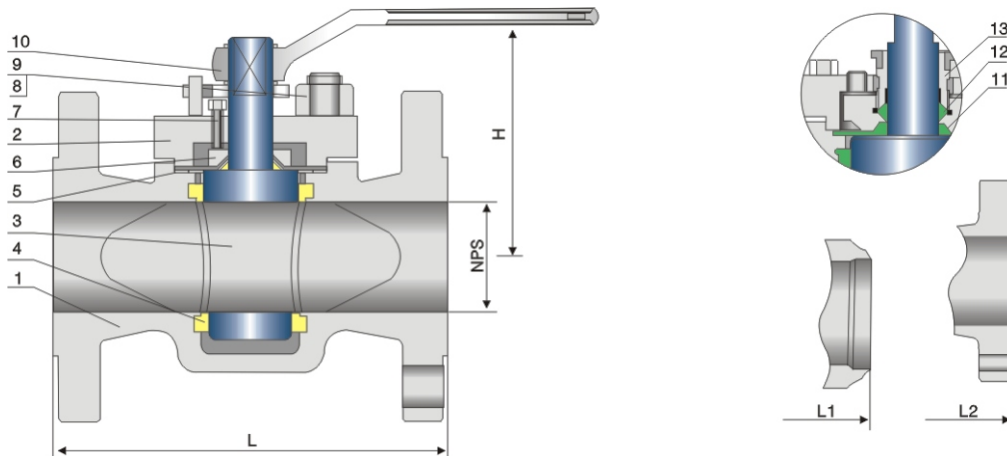


Applicable Standards:

- STEEL PLUG VALVES API 599/API 6D
- STEEL PLUG VALVES ISO 14313
- FIRE SAFE, API 607
- ANTI STATICS, API 599
- STEEL VALVES, ASME B16.34
- FACE TO FACE ASME B16.10
- END FLANGES, ASME B16.5
- BUTTWELDING ENDS ASME B16.25
- INSPECTION AND TEST, API 598/ API 6D

Design description

- RUGGED, HEAVY-DUTY BODY
- BOLTED BONNET CAP
- PTFE SLEEVED, TAPERED PLUG
- LARGE PORT OPENINGS
- NON-LUBRICATED
- STEM INTEGRAL WITH PLUG
- IN-LINE ADJUSTMENT
- FIRE SAFE CONSTRUCTION
- ANTI STATIC DEVICE
- STOPPER DEVICE
- RENEWABLE SEAT RING
- FLANGED OR BUTTWELDING ENDS
- AVAILABLE WITH WG OPERATOR



Standard Material Specifications

No	Part Name	Carbon Steel	ASTM Material 18Cr-9Ni-2Mo	Carbon Steel
1	Body	A216-WCB	A351-CF8M	A352-LCB
2	Bonnet	A216-WCB	A351-CF8M	A352-LCB
3	Plug	A182-F3041)	A182-F316	A182-F304 ¹⁾
4	Sleeve		Glass Filled PTFE	
5	Bonnet Gasket	Graphite+304 ²⁾	Graphite+316 ²⁾	Graphite+304 ²⁾
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	A217-WC6	A352-LCB

Note: 1) A105+ENP optional

2) Jacketed construction

Notes: The major parts of the valves can be designed and selected according to actual work condition or customers' specific requirement

Main Outline Dimensions & Weight Class 150Lb

NPS DN	2 50	2½ 65	3 80	4 100	6 150	8 200	10 250	12 300	in mm
L	7.00	7.50	8.00	9.00	10.50	11.50	13.00	14.00	in
(RF)	178	191	203	229	267	292	330	356	mm
L1	10.50	12.00	13.00	14.00	18.00	20.50	22.00	25.00	in
(BW)	267	305	330	356	457	521	559	635	mm
H	6.00	6.50	7.12	15.00	20.50	22.88	24.50	26.75	in
	150	165	180	380	520	580	620	680	mm
W	13	14	16	13	13	13	14	15	in
	320	350	410	320	320	320	350	380	mm
Weight(kg)	17	20	25	40	70	135	220	300	RF
	13	14	17.5	29	55	110	182	247	BW

Main Outline Dimensions & Weight Class 300Lb

NPS DN	2 50	2½ 65	3 80	4 100	6 150	8 200	10 250	12 300	in mm
L	8.5	9.5	11.0	12.0	16.0	16.5	18.00	20.0	in
(RF)	216	241	283	305	403	419	457	502	mm
L1	10.50	12.00	13.00	14.00	18.00	20.50	22.00	25.00	in
(BW)	267	305	330	356	457	521	559	635	mm
H	6.00	6.50	7.12	15.00	20.50	22.88	24.50	26.75	in
	150	165	180	380	520	580	620	680	mm
W	13	14	16	13	13	13	14	15	in
	320	350	410	320	320	320	350	380	mm
Weight(kg)	17	20	25	40	70	135	220	300	RF
	13	14	17.5	29	55	110	182	247	BW

Main Outline Dimensions & Weight Class 600Lb

NPS DN	2 50	2½ 65	3 80	4 100	6 150	8 200	10 250	12 300	in mm
L	11.50	13.00	14.00	16.00	19.50	23.50	26.50	30.00	in
(RF)	292	330	356	432	559	660	787	838	mm
L1	11.62	13.12	14.12	16.12	19.62	23.62	26.62	30.12	in
(BW)	295	333	359	435	562	664	791	841	mm
H	6.12	6.75	7.25	15.38	20.88	23.25	24.88	27.12	in
	155	170	185	390	530	590	630	690	mm
W	14	16	13	13	13	14	15	15	in
	350	410	320	320	320	350	350	380	mm
Weight(kg)	28	33	387	75	142	250	365	515	RF
	21	23.5	23	46	97	167	227	354	BW

Main Outline Dimensions & Weight Class 900Lb

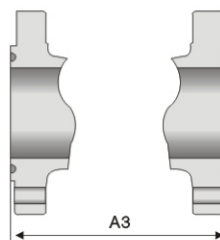
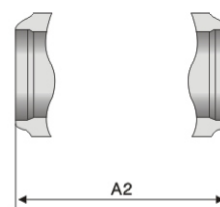
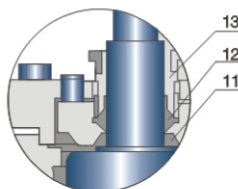
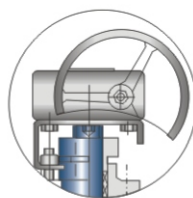
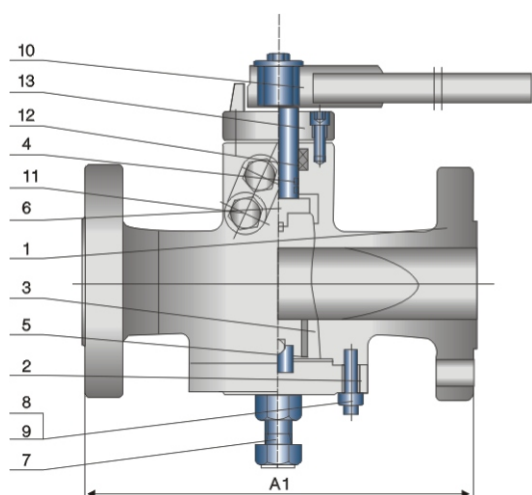
NPS DN	2 50	2½ 65	3 80	4 100	6 150	8 200	10 250	12 300	in mm
L	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00	in
(RF)	368	419	381	457	610	737	838	965	mm
L1	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	in
(BW)	371	422	384	460	613	740	841	968	mm
H	6.12	6.75	7.25	15.38	20.88	23.25	24.88	27.12	in
	155	170	185	390	530	590	630	690	mm
W	14	16	13	13	13	14	15	15	in
	350	410	320	350	320	350	380	380	mm
Weight(kg)	52	60	70	92	195	320	455	625	RF
	32	34	47	55	120	197	277	405	BW

Applicable Standards

- STEEL PLUG VALVES API 599/API 6D
- STEEL PLUG VALVES ISO 14313
- FIRE DURABLE, API 607
- ANTI STATICS, API 599
- STEEL VALVES, ASME B16.34
- FACE TO FACE ASME B16.10
- END FLANGES, ASME B16.5
- BUTTWELDING ENDS ASME B16.25
- INSPECTION AND TEST, API 598/ API 6D

Design Description

- RUGGED, HEAVY-DUTY BODY
- BOLTED BONNET CAP
- PTFE SLEEVED, TAPERED PLUG
- LARGE PORT OPENINGS
- NON-LUBRICATED
- STEM INTEGRAL WITH PLUG
- IN-LINE ADJUSTMENT
- FIRE SAFE CONSTRUCTION
- ANTI STATIC DEVICE
- STOPPER DEVICE
- RENEWABLE SEAT RING
- FLANGED OR BUTTWELDING ENDS
- AVAILABLE WITH WG OPERATOR



Standard Material Specifications

NO	Part Name	ASTM Material					
		Carbon steel	304 Type	316 Type	304L Type	316L Type	20 Alloy
1	Body	A216 WCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CN7M
2	Bonnet	A216 WCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CN7M
3	Plug	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	20 Alloy
4	O–Ring	Viton					
5	Bonnet Gasket	304+graphite	304+graphite	316+graphite	304L+graphite	316L+graphite	316+graphite
6	Adjusting Gasket	A182 F6a	A182 F304	A182 F316	A182 F304L	A182 F316L	20–Alloy
7	Adjusting Bolt	A193 B7	A276 304	A276 316	A276 304L	A276 316L	20–Alloy
8	Bonnet Bolt	A193 B7	A193 B8	A193 B8M	A193 B8	A193 B8M	A193 B8
9	Bonnet Nut	A194 2H	A194 8	A194 8M	A194 8	A194 8M	A194 8
10	Handle	Carbon steel	Carbon steel+Zn				
11	Nipple	Commercial					
12	Packing	Graphite	Graphite *1	Graphite *1	Graphite *1	Graphite *1	Graphite *1
13	Gland Flange	A216 WCB	A351 CF8	A351 CF8	A351 CF8	A351 CF8	A351 CF8
*1		PTFE Optional					

Notes: The major parts of the valves can be designed and selected according to actual work condition or customers' specific requirement

Main Outline Dimensions & Weight Class 150Lb

NPS DN	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350
A1	108	117	127	140	165	178	190	203	229	245	267	292	330	356	381
A2	152	178	203	216	229	267	305	330	356	381	394	457	533	610	686
H	110	115	225	135	140	150	165	180	380	460	520	580	260	680	760
W	175	175	175	220	280	305	350	405	300	300	320	320	350	380	450
Weight(kg)	8.5	9.5	10	12	14	22	22	26	40	60	70	130	219	381	570

4"or above with worm gear

Main Outline Dimensions & Weight Class 300Lb

NPS DN	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350
A1	140	152	165	178	190	216	241	283	305	381	403	419	457	502	762
A2	152	178	203	216	229	267	305	330	356	381	457	521	559	635	762
H	110	115	115	135	140	150	165	180	380	460	520	580	620	680	760
W	175	175	175	220	280	305	350	405	300	300	320	320	350	380	450
Weight(kg)	9.5	10.5	12	14	16	20	24	29	53	75	85	185	230	390	550

4"or above with worm gear

Main Outline Dimensions & Weight Class 600Lb

NPS DN	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350
A1/A2	165	190	216	229	214	292	330	356	432	508	559	660	787	838	889
H	110	115	115	135	140	150	165	180	380	460	520	580	620	680	760
W	175	175	175	220	280	305	350	405	300	300	320	320	350	380	450
Weight(kg)	11	13	17	20	23	27	31	36	72	98	141	245	330	515	710

4"or above with worm gear

Main Outline Dimensions & Weight Class 900Lb

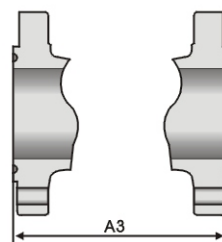
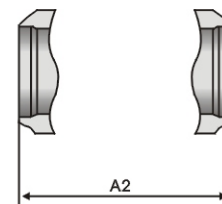
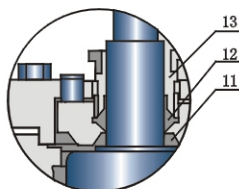
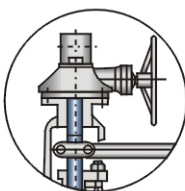
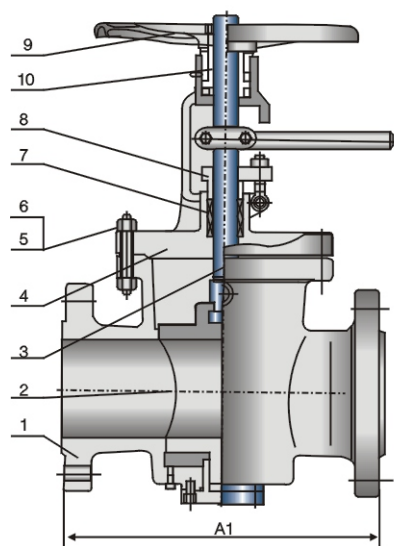
NPS DN	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350
A1/A2	229	229	254	279	305	368	419	381	457	559	610	737	838	965	1029
H	110	115	115	135	140	150	165	180	380	460	520	580	620	680	760
W	175	175	175	220	280	305	350	405	300	300	320	320	350	380	450
Weight(kg)	131	16	21	24	28	325	40	47	91	117	165	285	420	610	860

Applicable Standards

- STEEL PLUG VALVES API 599/API 6D
- STEEL PLUG VALVES ISO 14313
- FIRE DURABLE, API 607
- ANTI STATICS, API 599
- STEEL VALVES, ASME B16.34
- FACE TO FACE ASME B16.10
- END FLANGES, ASME B16.5
- BUTTWELDING ENDS ASME B16.25
- INSPECTION AND TEST, API 598/ API 6D

Design Description

- RUGGED, HEAVY-DUTY BODY
- BOLTED BONNET CAP
- PTFE SLEEVED, TAPERED PLUG
- LARGE PORT OPENINGS
- NON-LUBRICATED
- STEM INTEGRAL WITH PLUG
- IN-LINE ADJUSTMENT
- FIRE SAFE CONSTRUCTION
- ANTI STATIC DEVICE
- STOPPER DEVICE
- RENEWABLE SEAT RING
- FLANGED OR BUTTWELDING ENDS
- AVAILABLE WITH WG OPERATOR



Standard Material Specifications

NO	Part Name	ASTM Material					
		Carbon steel	304 Type	316 Type	304L Type	316L Type	20 Alloy
1	Body	A216 WCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CN7M
2	Plug	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	20 Alloy
3	Bonnet Gasket	304+graphite	304+graphite	316+graphite	304L+graphite	316L+graphite	316+graphite
4	Bonnet	A216 WCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CN7M
5	Bonnet Bolt	A193 B7	A193 B8	A193 B8M	A193 B8	A193 B8M	A193 B8
6	Bonnet Nut	A194 2H	A194 8	A194 8M	A194 8	A194 8M	A194 8
7	Packing	Graphite	Graphite *1	Graphite *1	Graphite *1	Graphite *1	Graphite *1
8	Gland Flange	A216 WCB	A351 CF8	A351 CF8	A351 CF8	A351 CF8	A351 CF8
9	Hand wheel	Carbon steel	Carbon steel+Zn				
10	Sleeve	Class Filled PTFE					
*1		PTFE Optional					

Notes: The major parts of the valves can be designed and selected according to actual work condition or customers' specific requirement

Main Outline Dimensions & Weight Class 150Lb

NPS DN	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350
A1	108	117	127	140	165	178	190	203	229	245	267	292	330	356	381
A2	152	178	203	216	229	267	305	330	356	381	394	457	533	610	686
H	190	195	225	160	280	310	340	395	435	470	535	590	630	680	720
W	120	140	140	180	200	220	260	280	300	340	400	450	450	500	500
Weight(kg)	9	10	11	17	19	23	25	30	55	82	98	130	178	250	380

Main Outline Dimensions & Weight Class 300Lb

NPS DN	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350
A1	108	152	165	178	190	216	241	283	305	381	403	419	457	502	762
A2	152	178	203	216	229	267	305	330	356	381	457	521	559	635	762
H	190	195	225	260	280	310	340	395	435	470	535	590	630	680	720
W	120	140	140	180	200	220	260	280	300	340	400	450	450	500	500
Weight(kg)	9	12	14	19	21	28	34	39	75	95	135	200	255	415	650

Main Outline Dimensions & Weight Class 600Lb

NPS DN	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350
A1/A2	165	190	216	229	229	241	330	356	432	508	559	660	787	838	889
H	190	195	225	260	260	280	340	395	435	470	535	590	630	680	720
W	120	140	140	180	180	200	260	280	300	340	400	450	450	500	500
Weight(kg)	13	14	19	23	23	25	40	55	105	139	300	440	730	1150	1570

Main Outline Dimensions & Weight Class 900Lb

NPS DN	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50	2 1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350
A1/A2	229	229	254	279	305	368	419	381	457	559	610	737	838	965	1029
H	190	195	225	260	280	310	340	395	435	470	535	590	630	680	720
W	120	140	140	180	200	220	260	280	300	340	400	450	450	500	500
Weight(kg)	16	17	26	30	33	39	50	70	137	181	397	590	860	1470	1880