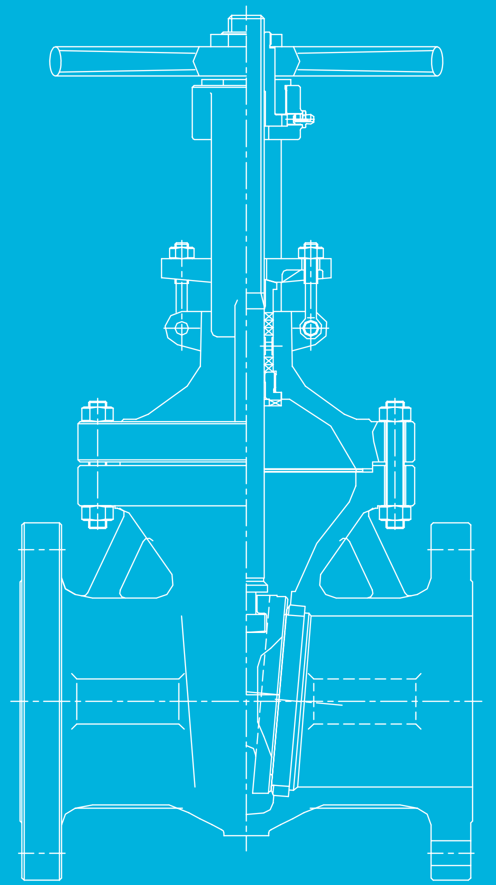

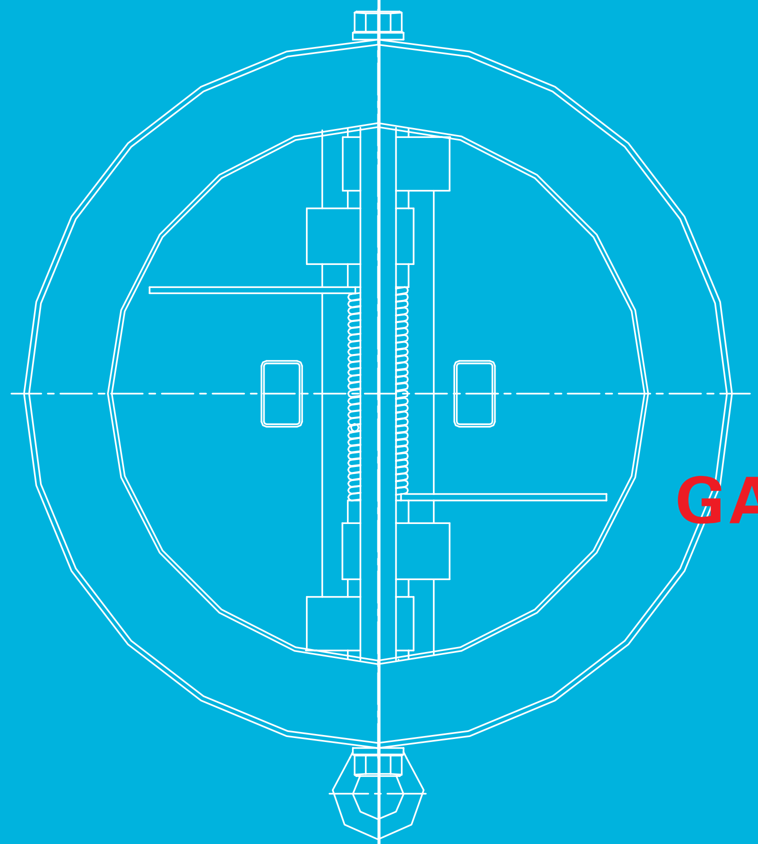

In Line Valve Co., Ltd.

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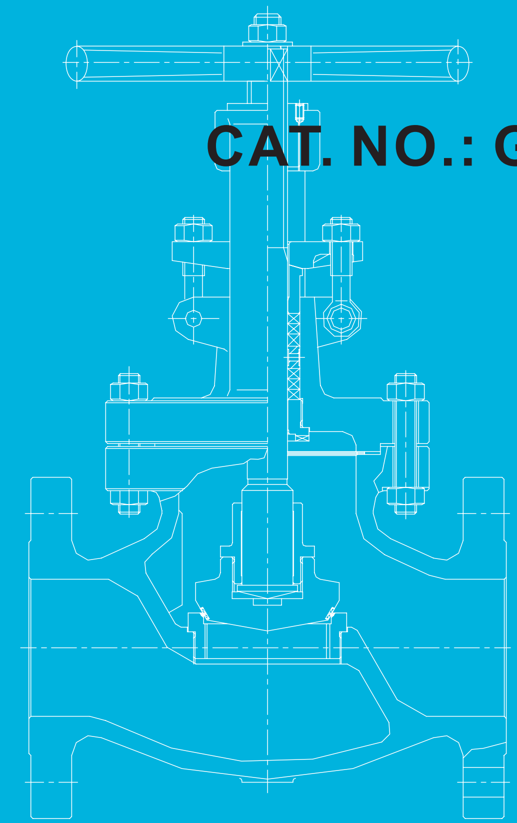
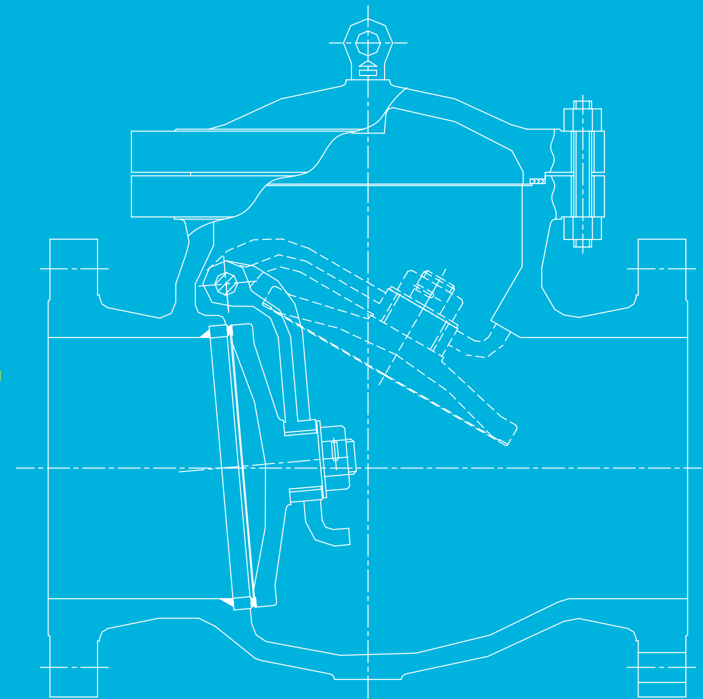
in line valve co ltd

CAT. NO.: GGC-10



GATE/GLOBE/CHECK VALVES

In Line Valve Co., Ltd.



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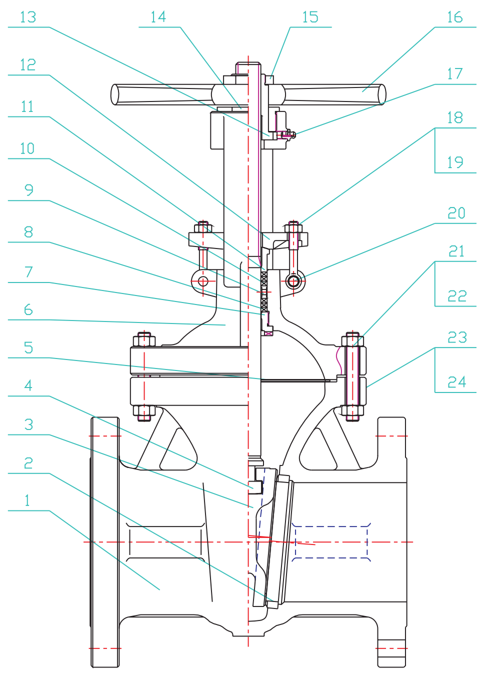

■Main Parts Material

Item	Part Name	Material						
		A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
2	Seat Ring	A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F304	A182 F316
3	Wedge	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
4	Stem	A182 F6	A182 F6	A182 F6	A182 F6	A182 F304	A182 F304	A182 F316
5	Gasket	Reinforced Graphite, or SS304 Spiral Wound W/Graphite						
6	Bonnet	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
7	Back Seat	A276 410	A276 410	A276 410	A276 410	A182 F304	A182 F304	A182 F316
8	Packing	Braided Graphite						
9	Lantern	A276 410	A276 410	A276 410	A276 410	SS304	SS304	SS316
10	Packing	Flexible Graphite						
11	Gland Bushing	A276 410	A276 410	A276 410	A276 410	SS304	SS304	SS316
12	Gland Flange	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
13	Stem Nut	ASTM A439 Gr. D2						
14	Gland Nut	A108 1020						
15	Handwheel Nut	A108 1020						
16	Handwheel	Ductile Iron ASTM A536 60-40-18						
17	Lubricator	Carbon Steel						
18	Eye Bolt	A193 B7	A320 L7	A193 B7	A193 B7	A193 B7	A193 B8	A193 B8
19	Eye Nut	A194 2H	A194 4	A194 2H	A194 2H	A194 2H	A194 8	A194 8
20	Eye Bolt Pin	A108 1035	A108 1035	A108 1035	A108 1035	A108 1035	SS304	SS304
21	Bonnet Bolt	A193 B7	A320 L7	A193 B16	A193 B16	A193 B16	A193 B8	A193 B8
22	Bonnet Nut	A194 2H	A194 4	A194 4	A194 4	A194 4	A194 8	A194 8
23	Rivet	SS304						
24	Nameplate	SS304						

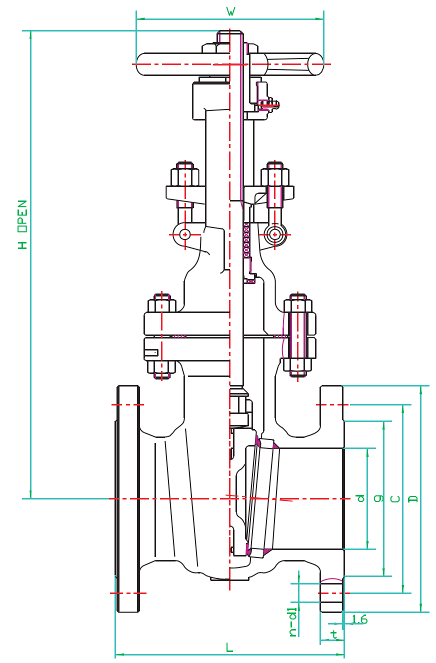

FIG. 5101RF

OS&Y, Rising Stem, Flexible Wedge
Bolted Bonnet, Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: API 600 or ASME B16.34
Face to Face Dimension: ANSI B16.10
End Flange Dimension: 2"~24" to ASME B16.5
26"~48" to MSS SP–44
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

■Dimension and Weight

Figure		5101RF / 5101BW / 5101RJ																				
NPS	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750	800	900	1000	1050	1200
	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	30	32	36	40	42	48
d	mm	51	64	76	102	127	152	203	254	305	337	387	438	489	591	692	743	781	876	978	1022	1168
	in	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00	13.25	15.25	17.25	19.25	23.25	27.25	29.25	30.75	34.50	38.50	40.25	46.00
L	mm	178	190	203	229	254	267	292	330	356	381	406	432	457	508	610	610	660	711	762	787	864
(RF)	in	7.00	7.50	8.00	9.00	10.00	10.50	11.50	13.00	14.00	15.00	16.00	17.00	18.00	20.00	24.00	24.00	26.00	28.00	30.00	31.00	34.00
L	mm	216	241	282	305	381	403	419	457	502	572	610	660	711	813	914	914	965	1016	1067	1143	1372
(BW)	in	8.50	9.50	11.12	12.00	15.00	15.88	16.50	18.00	19.75	22.50	24.00	26.00	28.00	32.00	36.00	36.00	38.00	40.00	42.00	45.00	54.00
L	mm	191	203	216	241	267	279	305	343	368	394	419	445	470	521	622	622	673	724	-	-	-
(RTJ)	in	7.50	8.00	8.50	9.50	10.50	11.00	12.00	13.50	14.50	15.50	16.50	17.50	18.50	20.50	24.50	24.50	26.50	28.50	-	-	-
g	mm	92	105	127	157	185.7	216	270	324	381	413	470	533	584	692	800	857	914.5	1022	1124	1194	1359
	in	3.62	4.13	5.00	6.18	7.32	8.50	10.63	12.75	15.00	16.25	18.50	21.00	23.00	27.25	31.50	33.75	36.00	40.25	44.25	47.00	53.50
C	mm	120.7	139.7	152.5	190.5	216	241.5	298.5	362	432	476	540	578	635	749.5	863.6	914.5	977.9	1086	1200.2	1257	1422.4
	in	4.75	5.50	6.00	7.50	8.50	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	29.50	34.00	36.00	38.50	42.75	47.25	49.50	56.00
D	mm	152	180	190	230	255	280	345	405	485	535	595	635	700	815	927	984	1060	1168	1289	1346	1511
	in	6.00	7.00	7.50	9.00	10.00	11.00	13.50	16.00	19.00	21.00	23.50	25.00	27.50	32.00	36.50	38.75	41.75	46.00	50.75	53.00	59.50
t	mm	19	22	24	24	24	26	29	31	32	35	37	40	43	48	71.5	74.7	81	91	91	97	108
	in	0.75	0.87	0.94	0.94	0.94	1.00	1.13	1.20	1.25	1.38	1.44	1.56	1.69	1.88	2.81	2.94	3.18	3.56	3.56	3.81	4.25
n-d1 (mm)		4-ø19	4-ø19	4-ø19	8-ø19	8-ø22	8-ø22	8-ø22	12-ø26	12-ø26	12-ø29	16-ø29	16-ø32	20-ø32	20-ø35	28-ø35	28-ø35	28-ø42	32-ø42	36-ø42	36-ø42	44-ø42
H OPEN (mm)		386	435	483	587	673	767	955	1146	1328	1519	1721	1900	2116	2480	2245	2313	2507	2680	2998	3285	3623
W		200	200	250	250	300	300	350	400	450	500	560	640	640	720	610*	610*	610*	760*	1016*	1016*	1016*
WT	RF	20	30	36	53	71	85	136	220	323	387	553	660	810	1250	1650	2370	2580	3280	4650	5080	7160
(kg)	BW	17	26	29	46	55	77	116	202	294	350	506	575	720	1130	1510	2033	2360	3010	4010	4300	6200

* Manual Gear Operator is recommended.

Class 300 Cast Steel Gate Valve

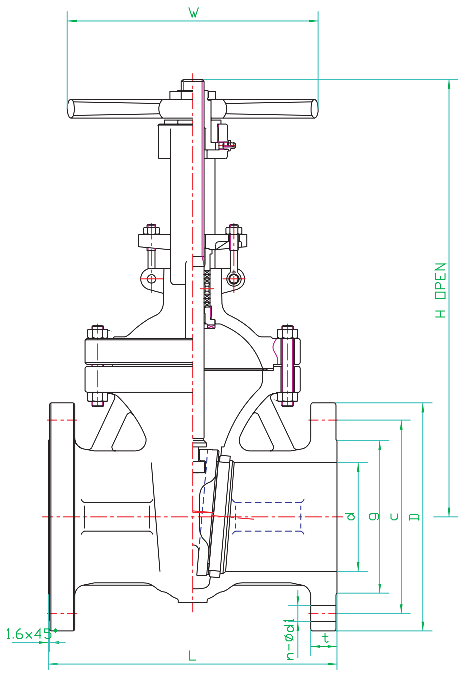

FIG. 5103RF

OS&Y, Rising Stem, Flexible Wedge
Bolted Bonnet, Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: API 600 or ASME B16.34
Face to Face Dimension: ANSI B16.10
End Flange Dimension: 2"~24" to ASME B16.5
26"~36" to MSS SP–44
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

Dimension and Weight

Figure		5103RF / 5103BW / 5103RJ																	
NPS	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750	800	900
	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	30	32	36
d	mm	51	63.5	76	102	127	152	203	254	305	337	387	432	482	584	686	737	781	876
	in	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00	13.25	15.25	17.00	19.00	23.00	27.00	29.00	30.75	34.50
L	mm	216	241	282	305	381	403	419	457	502	762	838	914	991	1143	1346	1397	1524	1727
(RF-BW)	in	8.50	9.50	11.12	12.00	15.00	15.88	16.50	18.00	19.75	30.00	33.00	36.00	39.00	45.00	53.00	55.00	60.00	68.00
L	mm	232	257	298	321	397	419	435	473	518	778	854	930	1010	1165	1371	1422	1552	1755
(RTJ)	in	9.12	10.12	11.74	12.62	15.62	16.50	17.12	18.62	20.37	30.62	33.62	36.62	39.75	45.88	54.00	56.00	61.12	69.12
g	mm	92	105	127	157	185.7	216	270	324	381	413	470	533	584	692	800	857	914.4	1022.3
	in	3.62	4.13	5.00	6.18	7.32	8.50	10.63	12.75	15.00	16.25	18.50	21.00	23.00	27.25	31.50	33.75	36.00	40.25
C	mm	127	149.2	168.3	200	235	269.9	330.2	387.4	450.8	514.4	571.5	628.6	685.8	812.8	939.8	997	1054	1168.4
	in	5.00	5.88	6.62	7.88	9.25	10.62	13.00	15.25	17.75	20.25	22.50	24.75	27.00	32.00	37.00	39.25	41.50	46.00
D	mm	165	190	210	255	280	320	380	445	520	585	650	710	775	915	1035	1092	1149	1270
	in	6.50	7.50	8.25	10.00	11.00	12.50	15.00	17.50	20.50	23.00	25.50	28.00	30.50	36.00	40.75	43.00	45.25	50.00
t	mm	23	26	29	32	35	37	42	48	51	54	58	61	64	70	86	92	98.6	105
	in	0.87	1.00	1.12	1.25	1.37	1.44	1.62	1.87	2.00	2.12	2.25	2.38	2.50	2.75	3.38	3.62	3.88	4.12
n-d1 (mm)		8-ø19	8-ø22	8-ø22	8-ø22	8-ø22	12-ø22	12-ø26	16-ø29	16-ø32	20-ø32	20-ø35	24-ø35	24-ø35	24-ø42	28-ø45	28-ø48	28-ø51	32-ø54
H OPEN (mm)		417	475	526	650	770	829	997	1205	1429	1559	1758	1942	2145	2521	3355	3540	3695	3987
W		200	250	250	250	300	350	400	450	500	560*	640*	640*	720*	760*	760*	760*	863*	863*
WT	RF	30	39	55	83	92	137	240	330	432	680	845	1010	1520	2350	3065	3915	4750	6165
(kg)	BW	26	34	47	68	77	118	195	271	345	545	695	848	1250	1720	2400	3114	4110	4950

* Manual Gear Operator is recommended.

Class 600 Cast Steel Gate Valve

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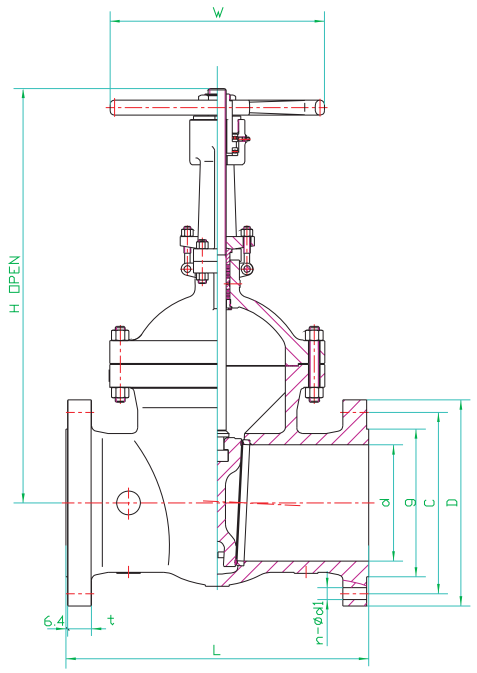

FIG. 5106RF

OS&Y, Rising Stem, Flexible Wedge
Bolted Bonnet, Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: API 600 or ASME B16.34
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: 2"~24" to ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

Dimension and Weight

Figure		5106RF / 5106BW / 5106RJ													
NPS	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
d	mm	51	63.5	76	102	127	152	200	248	298.5	327	375	419	464	559
	in	2.00	2.50	3.00	4.00	5.00	6.00	7.87	9.75	11.75	12.87	14.75	16.50	18.25	22.00
L	mm	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397
(RF-BW)	in	11.50	13.00	14.00	17.00	20.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00
L	mm	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407
(RTJ)	in	11.62	13.12	14.12	17.12	20.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38
g	mm	92	105	127	157	185.7	216	270	324	381	413	470	533	584	692
	in	3.62	4.13	5.00	6.18	7.32	8.50	10.63	12.75	15.00	16.25	18.50	21.00	23.00	27.25
C	mm	127	149.2	168.3	216	267	292	349	432	489	527	603	654	724	838
	in	5.00	5.88	6.62	8.50	10.50	11.50	13.75	17.00	19.25	20.75	23.75	25.75	28.50	33.00
D	mm	165	190	210	275	330	356	419	508	559	603	686	743	813	940
	in	6.50	7.50	8.25	10.75	13.00	14.00	16.50	20.00	22.00	23.75	27.00	29.25	32.00	37.00
t	mm	26	29	32	38	44.5	48	56	64	67	70	77	83	89	102
	in	1.00	1.12	1.25	1.50	1.75	1.88	2.19	2.50	2.62	2.75	3.00	3.25	3.50	4.00
n-d1 (mm)		8-ø19	8-ø22	8-ø22	8-ø25	8-ø29	12-ø29	12-ø32	16-ø35	20-ø35	20-ø38	20-ø41	20-ø44	24-ø44	24-ø52
H OPEN(mm)		427	495	538	657	720	950	1110	1296	1478	1648	1803	2190	2410	2912
W		250	250	300	350	450	450	500	640	640	610*	610*	610*	760*	760*
WT	RF	41	58	88	131	181	253	413	623	784	1288	1735	2050	2675	3880
(kg)	BW	35	50	68	104	154	208	328	496	637	1120	1400	1728	2350	3190

* Manual Gear Operator is recommended.

Class 900 Cast Steel Gate Valve

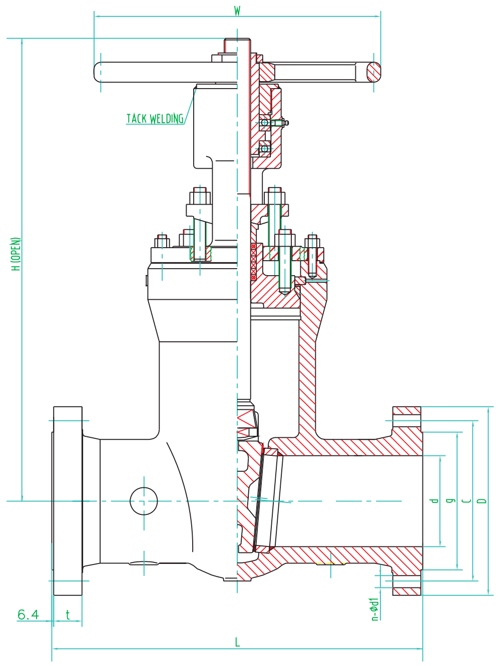

FIG. P5109RF

OS&Y, Rising Stem, Flexible Wedge
Bolted or Pressure Seal Bonnet, Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: API 600 or ASME B16.34
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: 2"~16" to ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

Dimension and Weight

Figure		P5109RF / P5109BW / P5109RJ									
NPS	mm	50	65	80	100	150	200	250	300	350	400
	in	2	2 1/2	3	4	6	8	10	12	14	16
d	mm	47.5	57.2	72.9	98.3	146.1	190.5	238	282.4	311.2	355.6
	in	1.87	2.25	2.87	3.87	5.75	7.50	9.37	11.12	12.25	14.00
L (RF)	mm	368	419	381	457	610	737	838	965	1029	1130
	in	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00	40.50	44.50
L (BW)	mm	216	254	305	356	508	660	787	914	991	1092
	in	8.50	10.00	12.00	14.00	20.00	26.00	31.00	36.00	39.00	43.00
L (RTJ)	mm	371	422	384	460	613	740	841	968	1039	1140
	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88
g	mm	91.9	104.6	127	157.2	215.9	269.7	323.8	381	412.7	469.9
	in	3.62	4.12	5.00	6.19	8.50	10.62	12.75	15.00	16.25	18.50
C	mm	165.1	190.5	190.5	234.9	317.5	393.7	469.9	533.4	558.8	615.9
	in	6.50	7.50	7.50	9.25	12.50	15.50	18.50	21.00	22.00	24.25
D	mm	215.9	244.3	241.3	292.1	381	469.9	546.1	609.6	641.3	704.8
	in	8.50	9.62	9.50	11.50	15.00	18.50	21.50	24.00	25.25	27.75
t	mm	38.1	41.1	38.1	44.4	55.6	63.5	69.8	79.2	85.8	88.9
	in	1.50	1.62	1.50	1.75	2.19	2.50	2.75	3.12	3.38	3.50
n-d1 (mm)		8-ø25	8-ø29	8-ø25	8-ø32	12-ø32	12-ø38	16-ø38	20-ø38	20-ø41	20-ø45
H OPEN(mm)		547	637	680	800	1085	1375	1500	1750	1950	2170
W		300	350	400	450	560	460*	610*	610*	760*	760*
WT (kg)	RF	55	90	100	160	355	645	1050	1395	1850	2500
	BW	45	70	85	120	280	560	875	1195	1480	2130

* Manual Gear Operator is recommended.

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Class 1500 Cast Steel Gate Valve

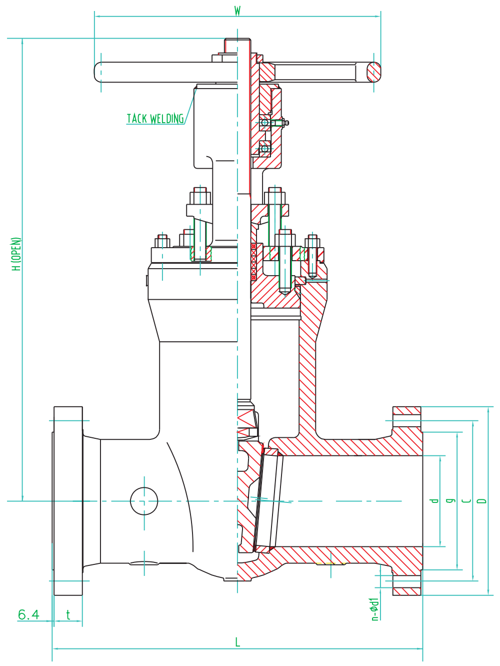


FIG. P5115RF

OS&Y, Rising Stem, Flexible Wedge
Bolted or Pressure Seal Bonnet, Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: API 600 or ASME B16.34
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: 2"~16" to ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

Dimension and Weight

Figure		P5115RF / P5115BW / P5115RJ									
NPS	mm	50	65	80	100	150	200	250	300	350	400
	in	2	2 1/2	3	4	6	8	10	12	14	16
d	mm	47.5	57.2	69.9	91.9	136.4	177.8	222.3	263.4	288.8	330.2
	in	1.87	2.25	2.75	3.62	5.37	7.00	8.75	10.37	11.37	13.00
L (RF)	mm	368	419	470	546	705	832	991	1130	1257	1384
	in	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50	49.50	54.50
L (BW)	mm	216	254	305	406	559	711	864	991	1067	1194
	in	8.50	10.00	12.00	16.00	22.00	28.00	34.00	39.00	42.00	47.00
L (RTJ)	mm	371	422	473	549	711	842	1000	1146	1276	1407
	in	14.62	16.62	18.62	21.62	28.00	33.13	39.38	45.12	50.25	55.38
g	mm	91.9	104.6	127	157.2	215.9	269.7	323.8	381	412.7	469.9
	in	3.62	4.12	5.00	6.19	8.50	10.62	12.75	15.00	16.25	18.50
C	mm	165.1	190.5	203.2	241.3	317.5	393.7	482.6	571.5	635	704.8
	in	6.50	7.50	8.00	9.50	12.50	15.50	19.00	22.50	25.00	27.75
D	mm	215.9	244.3	266.7	311.1	393.7	482.6	584.2	673.1	749.3	825.5
	in	8.50	9.62	10.50	12.25	15.50	19.00	23.00	26.50	29.50	32.50
t	mm	38.1	41.1	47.7	53.8	82.5	91.9	107.9	123.9	133.3	146
	in	1.50	1.62	1.88	2.12	3.25	3.62	4.25	4.88	5.25	5.75
n-d1 (mm)		8-ø25	8-ø29	8-ø32	8-ø35	12-ø38	12-ø45	12-ø51	16-ø54	16-ø61	16-ø67
H OPEN(mm)		547	637	770	875	1095	1380	1655	1830	2150	2250
W		300	450	450	560	305*	460*	610*	610*	760*	760*
WT (kg)	RF	65	95	130	180	390	785	1350	2100	2750	3700
	BW	50	75	85	130	295	590	950	1600	1950	2800

* Manual Gear Operator is recommended.

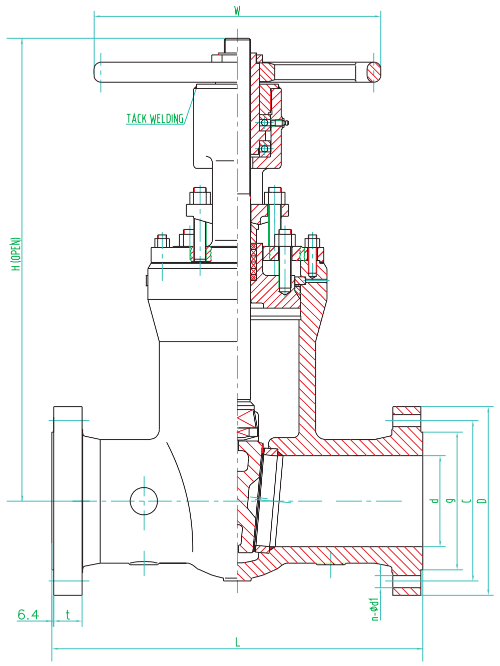


FIG. P5125RF

OS&Y, Rising Stem, Flexible Wedge
Bolted or Pressure Seal Bonnet, Welded Seat Ring

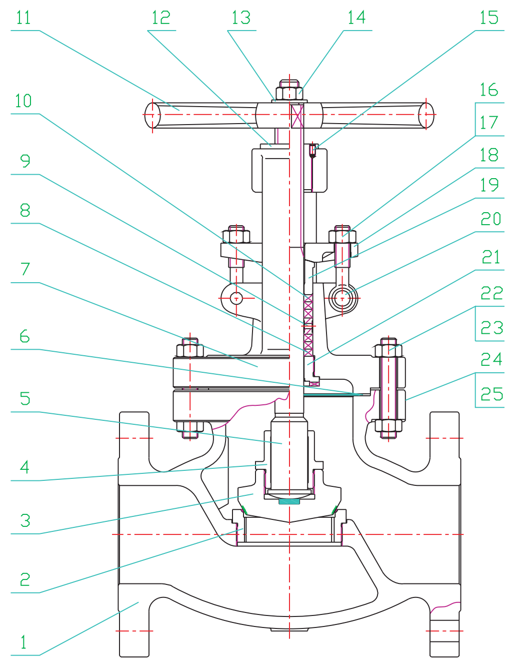
STANDARD COMPLIANCE:
Basic Design: API 600 or ASME B16.34
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: 2"~12" to ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

Dimension and Weight

Figure		P5125RF / P5125BW / P5125RJ									
NPS	mm	50	65	80	100	150	200	250	300	350	400
	in	2	2 1/2	3	4	6	8	10	12	14	16
d	mm	38.1	47.5	57.2	72.9	111	146.1	184.2	218.9	241.3	276.1
	in	1.50	1.87	2.25	2.87	4.37	5.75	7.25	8.62	9.50	10.87
L (RF)	mm	451	508	578	673	914	1022	1270	1422	-	-
	in	17.75	20.00	22.75	26.50	36.00	40.25	50.00	56.00	-	-
L (BW)	mm	279	330	368	457	610	762	914	1041	1118	1245
	in	11.00	13.00	14.50	18.00	24.00	30.00	36.00	41.00	44.00	49.00
L (RTJ)	mm	454	514	584	683	927	1038	1292	1444	-	-
	in	17.87	20.25	23.00	26.88	36.50	40.87	50.88	56.88	-	-
g	mm	91.9	104.6	127	157.2	215.9	269.7	323.9	381	-	-
	in	3.62	4.12	5.00	6.19	8.50	10.62	12.75	15.00	-	-
C	mm	171.5	196.9	228.6	273.1	368.3	438.2	539.8	619.3	-	-
	in	6.75	7.75	9.00	10.75	14.50	17.25	21.25	24.38	-	-
D	mm	235	266.7	304.8	355.6	482.6	552.5	673.1	762	-	-
	in	9.25	10.50	12.00	14.00	19.00	21.75	26.50	30.00	-	-
t	mm	50.8	57.2	66.5	76.2	108	127	165.1	184.2	-	-
	in	2.00	2.25	2.62	3.00	4.25	5.00	6.50	7.25	-	-
n-d1 (mm)		8-⌀29	8-⌀32	8-⌀35	8-⌀41	8-⌀54	12-⌀54	12-⌀67	12-⌀73	-	-
H OPEN(mm)		610	698	803	910	1298	1493	1650	1810	1981	2108
W		500	500	600	600	460*	460*	610*	760*	760*	1016*
WT (kg)	RF	125	185	205	240	735	1315	2250	3450	-	-
	BW	90	145	154	169	510	910	1550	2350	3300	4300

* Manual Gear Operator is recommended.



Main Parts Material

Item	Part Name	Material						
		A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
2	Seat Ring	A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F304	A182 F316
3	Disc	A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F304	A182 F316
4	Disc Cover	A276 410	A276 410	A276 410	A276 410	A182 F304	A182 F304	A182 F316
5	Stem	A182 F6	A182 F6	A182 F6	A182 F6	A182 F304	A182 F304	A182 F316
6	Gasket	Reinforced Graphite, or SS304 Spiral Wound W/Graphite						
7	Bonnet	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
8	Packing	Braided Graphite						
9	Lantern	A276 410	A276 410	A276 410	A276 410	SS304	SS304	SS316
10	Packing	Flexible Graphite						
11	Handwheel	Ductile Iron ASTM A536 60-40-18						
12	Stem Nut	ASTM A439 Gr. D2						
13	Washer	Carbon Steel						
14	Handwheel Nut	A108 1020						
15	Screw	Carbon Steel						
16	Eye Bolt	A193 B7	A320 L7	A193 B7	A193 B7	A193 B7	A193 B8	A193 B8
17	Eye Nut	A194 2H	A194 4	A194 2H	A194 2H	A194 2H	A194 8	A194 8
18	Gland Flange	A105	A350 LF2	A105	A105	A105	SS304	SS316
19	Gland Bushing	A276 410	A276 410	A276 410	A276 410	SS304	SS304	SS316
20	Eye Bolt Pin	A108 1035	A108 1035	A108 1035	A108 1035	A108 1035	SS304	SS304
21	Backseat	A276 410	A276 410	A276 410	A276 410	SS304	SS304	SS316
22	Bonnet Nut	A194 2H	A194 4	A194 4	A194 4	A194 4	A194 8	A194 8
23	Bonnet Bolt	A193 B7	A320 L7	A193 B16	A193 B16	A193 B16	A193 B8	A193 B8
24	Nameplate	SS304						
25	Rivet	SS304						

Class 150 Cast Steel Globe Valve

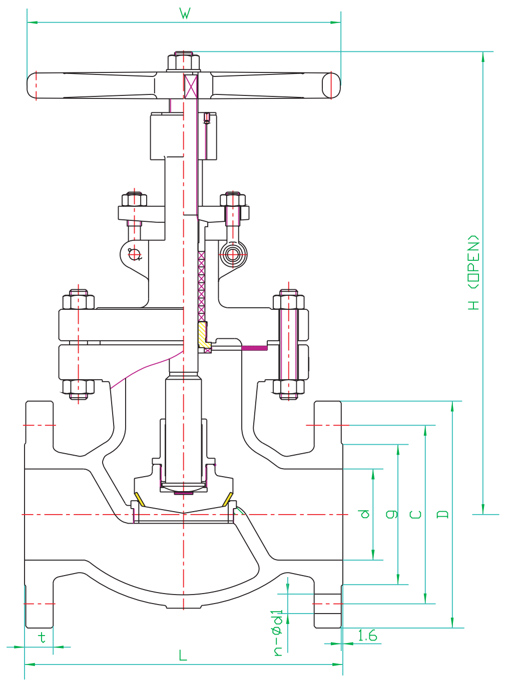


FIG. 6101RF

OS&Y, Rising Stem, Plug Type Disc
Bolted Bonnet, Threaded Seat Ring

STANDARD COMPLIANCE:
Basic Design: BS1873
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

Dimension and Weight

Figure		6101RF / 6101BW / 6101RJ										
NPS	mm	50	65	80	100	125	150	200	250	300	350	400
	in	2	2 1/2	3	4	5	6	8	10	12	14	16
d	mm	51	64	76	102	127	152	203	254	305	337	387
	in	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00	13.25	15.25
L (RF-BW)	mm	203	216	241	292	356	406	495	622	698	787	914
	in	8.00	8.50	9.50	11.50	14.00	16.00	19.50	24.50	27.50	31.00	36.00
L (RTJ)	mm	216	229	254	305	369	419	508	635	711	800	927
	in	8.50	9.00	10.00	12.00	14.50	16.50	20.00	25.00	28.00	31.50	36.50
g	mm	92	105	127	157	185.7	216	270	324	381	413	470
	in	3.62	4.13	5.00	6.18	7.32	8.50	10.63	12.75	15.00	16.25	18.50
C	mm	120.7	139.7	152.5	190.5	216	241.5	298.5	362	432	476	540
	in	4.75	5.50	6.00	7.50	8.50	9.50	11.75	14.25	17.00	18.75	21.25
D	mm	152	180	190	230	255	280	345	405	485	535	595
	in	6.00	7.00	7.50	9.00	10.00	11.00	13.50	16.00	19.00	21.00	23.50
t	mm	19	22	24	24	24	26	29	31	32	35	37
	in	0.75	0.87	0.94	0.94	0.94	1.00	1.13	1.20	1.25	1.38	1.44
n-d1 (mm)		4-ø19	4-ø19	4-ø19	8-ø19	8-ø22	8-ø22	8-ø22	12-ø26	12-ø26	12-ø29	16-ø29
H OPEN(mm)		341	360	375	483	500	517	590	754	963	1085	1105
W		200	250	250	300	300	350	400	450	560	560*	640*
WT (kg)	RF	20	29	42	57	77	98	154	288	507	617	810
	BW	19	25	34	42	65	82	131	249	430	580	763

* Manual Gear Operator is recommended.

Class 300 Cast Steel Globe Valve

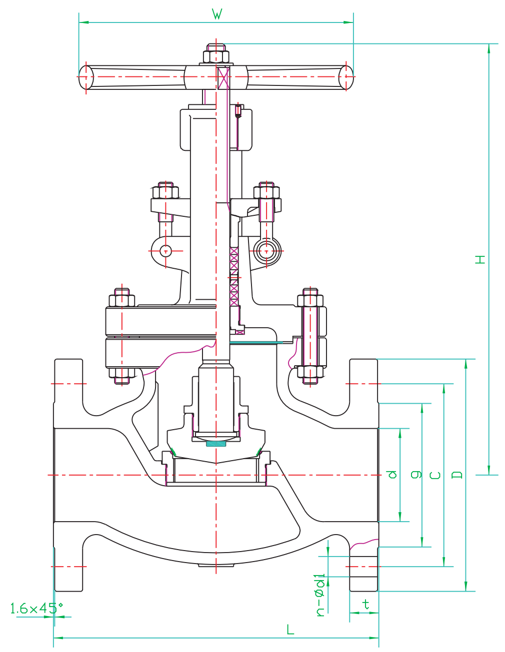


FIG. 6103RF

OS&Y, Rising Stem, Plug Type Disc
Bolted Bonnet, Threaded Seat Ring

STANDARD COMPLIANCE:
Basic Design: BS1873
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

Dimension and Weight

Figure		6103RF / 6103BW / 6103RJ								
NPS	mm	50	65	80	100	125	150	200	250	300
	in	2	2 1/2	3	4	5	6	8	10	12
d	mm	51	63.5	76	102	127	152	203	254	305
	in	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00
L (RF-BW)	mm	267	292	318	356	400	444	559	622	711
	in	10.50	11.50	12.50	14.00	15.75	17.50	21.00	24.50	28.00
L (RTJ)	mm	283	308	334	372	416	460	575	638	727
	in	11.12	12.12	13.12	14.62	16.37	18.12	21.62	25.12	28.62
g	mm	92	105	127	157	185.7	216	270	324	381
	in	3.62	4.13	5.00	6.18	7.32	8.50	10.63	12.75	15.00
C	mm	127	149.2	168.3	200	235	269.9	330.2	387.4	450.8
	in	5.00	5.88	6.62	7.88	9.25	10.62	13.00	15.25	17.75
D	mm	165	190	210	255	280	320	380	445	520
	in	6.50	7.50	8.25	10.00	11.00	12.50	15.00	17.50	20.50
t	mm	23	26	29	32	35	37	42	48	51
	in	0.87	1.00	1.12	1.25	1.37	1.44	1.62	1.87	2.00
n-d1 (mm)		8-ø19	8-ø22	8-ø22	8-ø22	8-ø22	12-ø22	12-ø26	16-ø29	16-ø32
H OPEN(mm)		349	376	430	486	519	553	937	949	995
W		200	250	250	350	400	400	450	560	460*
WT (kg)	RF	31	43	57	86	130	168	280	385	724
	BW	26	38	44	68	110	138	228	329	618

* Manual Gear Operator is recommended.

Class 600 Cast Steel Globe Valve

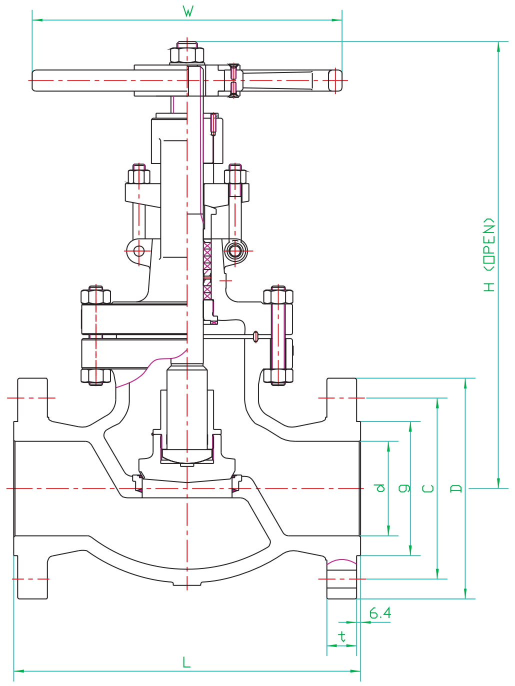


FIG. 6106RF

OS&Y, Rising Stem, Plug Type Disc
Bolted Bonnet, Threaded Seat Ring

STANDARD COMPLIANCE:
Basic Design: BS1873
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

■Dimension and Weight

Figure		6106RF / 6106BW / 6106RJ								
NPS	mm	50	65	80	100	125	150	200	250	300
	in	2	2 1/2	3	4	5	6	8	10	12
d	mm	51	63.5	76	102	127	152	200	248	298.5
	in	2.00	2.50	3.00	4.00	5.00	6.00	7.87	9.75	11.75
L (RF-BW)	mm	292	330	356	432	508	559	660	787	838
	in	11.50	13.00	14.00	17.00	20.00	22.00	26.00	31.00	33.00
L (RTJ)	mm	295	333	359	435	511	562	663	790	841
	in	11.62	13.12	14.12	17.12	20.12	22.12	26.12	31.12	33.12
g	mm	92	105	127	157	185.7	216	270	324	381
	in	3.62	4.13	5.00	6.18	7.32	8.50	10.63	12.75	15.00
C	mm	127	149.2	168.3	216	267	292	349	432	489
	in	5.00	5.88	6.62	8.50	10.50	11.50	13.75	17.00	19.25
D	mm	165	190	210	275	330	356	419	508	559
	in	6.50	7.50	8.25	10.75	13.00	14.00	16.50	20.00	22.00
t	mm	26	29	32	38	44.5	48	56	64	67
	in	1.00	1.12	1.25	1.50	1.75	1.88	2.19	2.50	2.62
n-d1 (mm)		8-ø19	8-ø22	8-ø22	8-ø25	8-ø29	12-ø29	12-ø32	16-ø35	20-ø35
H OPEN(mm)		402	465	485	572	650	703	923	992	1127
W		250	300	350	400	450	500	460*	610*	760*
WT (kg)	RF	39	58	73	120	203	327	482	700	900
	BW	33	48	61	95	178	261	385	588	795

* Manual Gear Operator is recommended.

Class 900 Cast Steel Globe Valve

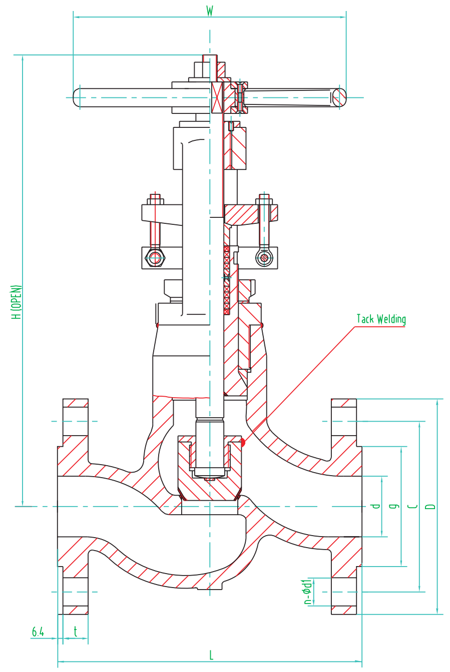


FIG. P6109RF

OS&Y, Rising Stem, Plug Type Disc
Bolted or Pressure Seal Bonnet, Threaded Seat Ring

STANDARD COMPLIANCE:
Basic Design: BS1873 or ASME B16.34
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

■Dimension and Weight

Figure		P6109RF / P6109BW / P6109RJ					
NPS	mm	50	65	80	100	150	200
	in	2	2 1/2	3	4	6	8
d	mm	47.5	57.2	72.9	98.3	146.1	190.5
	in	1.87	2.25	2.87	3.87	5.75	7.50
L (RF-BW)	mm	368	419	381	457	610	737
	in	14.50	16.50	15.00	18.00	24.00	29.00
L (RTJ)	mm	371	422	384	460	613	740
	in	14.62	16.62	15.12	18.12	24.12	29.12
g	mm	91.9	104.6	127	157.2	215.9	269.7
	in	3.62	4.12	5.00	6.19	8.50	10.62
C	mm	165.1	190.5	190.5	234.9	317.5	393.7
	in	6.50	7.50	7.50	9.25	12.50	15.50
D	mm	215.9	244.3	241.3	292.1	381	469.9
	in	8.50	9.62	9.50	11.50	15.00	18.50
t	mm	38.1	41.1	38.1	44.4	55.6	63.5
	in	1.50	1.62	1.50	1.75	2.19	2.50
n-d1 (mm)		8-ø25	8-ø29	8-ø25	8-ø32	12-ø32	12-ø38
H OPEN(mm)		550	605	680	800	930	1260
W		350	350	400	450	560	610*
WT (kg)	RF	78	108	102	142	400	960
	BW	66	90	87	125	355	860

* Manual Gear Operator is recommended.

Class 1500 Cast Steel Globe Valve

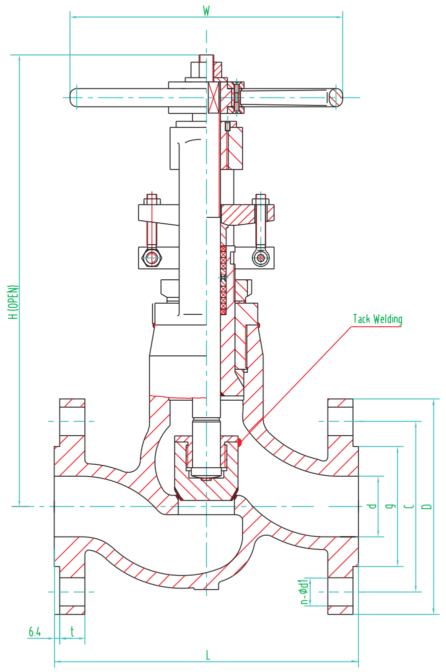


FIG. P6115RF

OS&Y, Rising Stem, Plug Type Disc
Bolted or Pressure Seal Bonnet, Threaded Seat Ring

STANDARD COMPLIANCE:
Basic Design: BS1873 or ASME B16.34
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

■Dimension and Weight

Figure		P6115RF / P6115BW / P6115RJ					
NPS	mm	50	65	80	100	150	200
	in	2	2 1/2	3	4	6	8
d	mm	47.5	57.2	69.9	91.9	136.4	177.8
	in	1.87	2.25	2.75	3.62	5.37	7.00
L (RF-BW)	mm	368	419	470	546	705	832
	in	14.50	16.50	18.50	21.50	27.75	32.75
L (RTJ)	mm	371	422	473	549	711	842
	in	1.99	2.37	2.87	3.74	5.62	7.38
g	mm	91.9	104.6	127	157.2	215.9	269.7
	in	3.62	4.12	5.00	6.19	8.50	10.62
C	mm	165.1	190.5	203.2	241.3	317.5	393.7
	in	6.50	7.50	8.00	9.50	12.50	15.50
D	mm	215.9	244.3	266.7	311.1	393.7	482.6
	in	8.50	9.62	10.50	12.25	15.50	19.00
t	mm	38.1	41.1	47.7	53.8	82.5	91.9
	in	1.50	1.62	1.88	2.12	3.25	3.62
n-d1 (mm)		8-⌀25	8-⌀29	8-⌀32	8-⌀35	12-⌀38	12-⌀45
H OPEN(mm)		550	605	865	955	1250	1265
W		400	400	450	560	610*	610*
WT (kg)	RF	85	110	135	230	660	1590
	BW	77	100	122	210	590	1440

* Manual Gear Operator is recommended.

Class 2500 Cast Steel Globe Valve

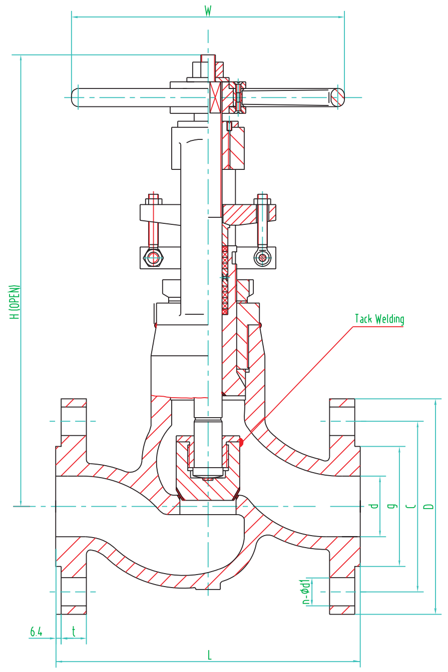


FIG. P6125RF

OS&Y, Rising Stem, Plug Type Disc
Bolted or Pressure Seal Bonnet, Threaded Seat Ring

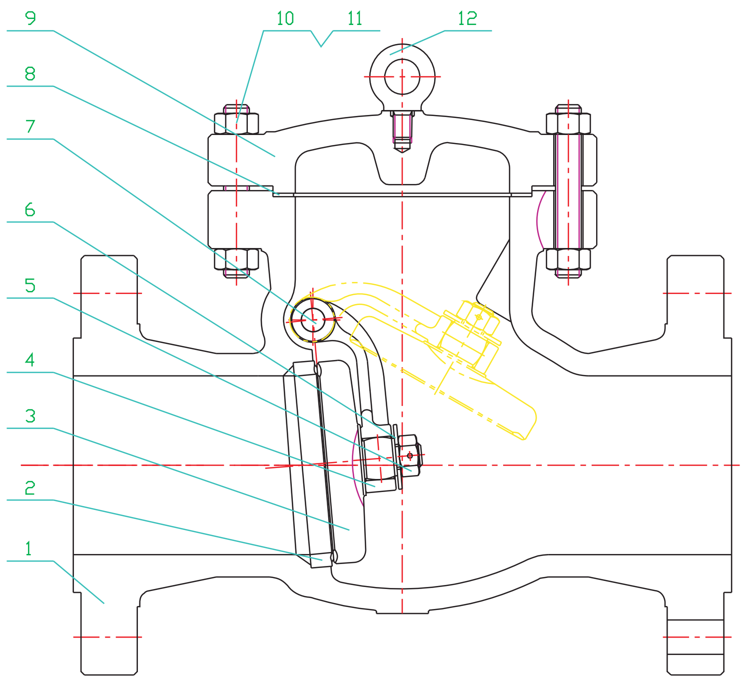
STANDARD COMPLIANCE:
Basic Design: BS1873 or ASME B16.34
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

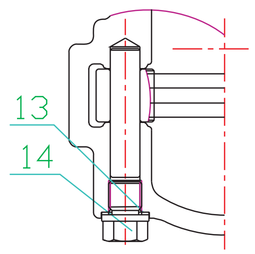
Other Special Requirements shall be on request

■Dimension and Weight

Figure		P6125RF / P6125BW / P6125RJ					
NPS	mm	50	65	80	100	150	200
	in	2	2 1/2	3	4	6	8
d	mm	38.1	47.5	57.2	72.9	111	146.1
	in	1.50	1.87	2.25	2.87	4.37	5.75
L (RF-BW)	mm	451	508	578	673	914	1022
	in	17.75	20.00	22.75	26.50	36.00	40.25
L (RTJ)	mm	454	514	584	683	927	1038
	in	1.62	20.25	23.00	26.88	36.50	40.87
g	mm	91.9	104.6	127	157.2	215.9	269.7
	in	3.62	4.12	5.00	6.19	8.50	10.62
C	mm	171.5	196.9	228.6	273.1	368.3	438.2
	in	6.75	7.75	9.00	10.75	14.50	17.25
D	mm	235	266.7	304.8	355.6	482.6	552.5
	in	9.25	10.50	12.00	14.00	19.00	21.75
t	mm	50.8	57.2	66.5	76.2	108	127
	in	2.00	2.25	2.62	3.00	4.25	5.00
n-d1 (mm)		8-⌀29	8-⌀32	8-⌀35	8-⌀41	8-⌀54	12-⌀54
H OPEN(mm)		560	720	755	1230	1790	2085
W		400	450	560	310*	610*	760*
WT (kg)	RF	140	168	245	620	1500	3200
	BW	100	118	180	440	1150	2600

* Manual Gear Operator is recommended.





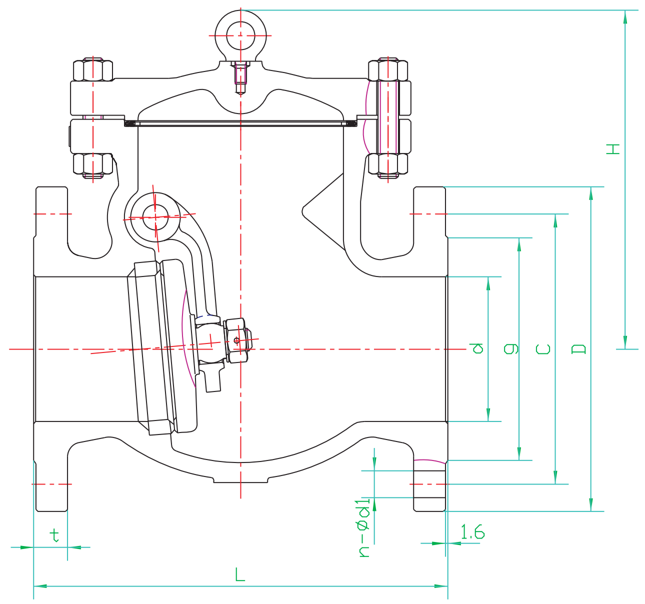


FIG. 7101RF

Bolted Cover, Swing Type Disc
Threaded or Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: BS1868
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

■ Main Parts Material

Item	Part Name	Material						
		A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
1	Body	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
2	Seat Ring	A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F304	A182 F316
3	Disc	A105/WCB	LF2/LCB	F11/WC6	F22/WC9	F5/C5	304/CF8	316/CF8M
4	Hinge	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
5	Disc Nut	A276 410	A276 410	A276 410	A276 410	SS304	SS304	SS316
6	Washer	A276 410	A276 410	A276 410	A276 410	SS304	SS304	SS316
7	Pin	A276 410	A276 410	A276 410	A276 410	SS304	SS304	SS316
8	Gasket	SS304 Spiral Wound W/Graphite						
9	Cap	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M
10	Bolt	A193 B7	A320 L7	A193 B16	A193 B16	A193 B16	A193 B8	A193 B8
11	Nut	A194 2H	A194 4	A194 4	A194 4	A194 4	A194 8	A194 8
12	Eyebolt	A108 1020						
13	Washer	A276 410	A276 410	A276 410	A276 410	SS304	SS304	SS316
14	Plug	A276 410	A276 410	A276 410	A276 410	SS304	SS304	SS316

■ Dimension and Weight

Figure		7101RF / 7101BW / 7101RJ													
NPS	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
d	mm	51	64	76	102	127	152	203	254	305	337	387	438	489	591
	in	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00	13.25	15.25	17.25	19.25	23.25
L	mm	203	216	241	292	330	356	495	622	698	787	864	978	978	1295
(RF-BW)	in	8.00	8.50	9.50	11.50	13.00	14.00	19.50	24.50	27.50	31.00	34.00	38.50	38.50	51.00
L	mm	216	229	254	305	343	369	508	635	711	800	877	991	991	1308
(RTJ)	in	8.15	8.65	9.65	11.65	13.15	14.15	19.65	24.65	27.65	31.15	34.15	38.65	38.65	51.15
g	mm	92	105	127	157	185.7	216	270	324	381	413	470	533	584	692
	in	3.62	4.13	5.00	6.18	7.32	8.50	10.63	12.75	15.00	16.25	18.50	21.00	23.00	27.25
C	mm	120.7	139.7	152.5	190.5	216	241.5	298.5	362	432	476	540	578	635	749.5
	in	4.75	5.50	6.00	7.50	8.50	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	29.50
D	mm	152	180	190	230	255	280	345	405	485	535	595	635	700	815
	in	6.00	7.00	7.50	9.00	10.00	11.00	13.50	16.00	19.00	21.00	23.50	25.00	27.50	32.00
t	mm	19	22	24	24	24	26	29	31	32	35	37	40	43	48
	in	0.75	0.87	0.94	0.94	0.94	1.00	1.13	1.20	1.25	1.38	1.44	1.56	1.69	1.88
n-d1 (mm)		4-ø19	4-ø19	4-ø19	8-ø19	8-ø22	8-ø22	8-ø22	12-ø26	12-ø26	12-ø29	16-ø29	16-ø32	20-ø32	20-ø35
H (mm)		135	155	168	235	249	277	339	398	525	556	584	668	712	740
WT	RF	17	23	29	42	59	74	108	177	215	282	570	665	900	1359
(kg)	BW	15	20	22	35	49	59	95	139	176	235	483	548	782	1150

Class 300 Cast Steel Swing Check Valve

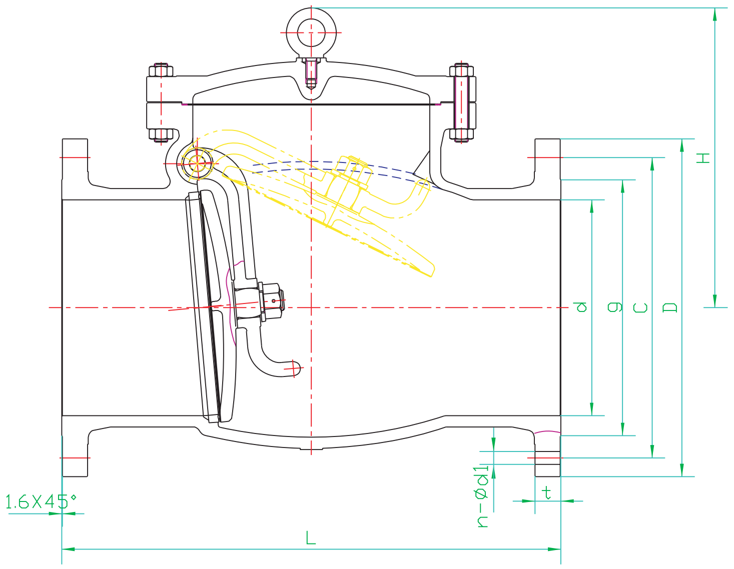


FIG. 7103RF

Bolted Cover, Swing Type Disc
Threaded or Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: BS1868
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

■Dimension and Weight

Figure		7103RF / 7103BW / 7103RJ													
NPS	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
d	mm	51	63.5	76	102	127	152	203	254	305	337	387	432	482	584
	in	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00	13.25	15.25	17.00	19.00	23.00
L	mm	267	292	318	356	400	444	533	622	711	838	864	978	1016	1346
(RF-BW)	in	10.50	11.50	12.50	14.00	15.75	17.50	21.00	24.50	28.00	33.00	34.00	38.50	40.00	53.00
L	mm	283	308	334	372	416	460	549	638	727	854	880	994	1035	1368
(RTJ)	in	11.12	12.12	13.12	14.62	16.37	18.12	21.62	25.12	28.62	33.62	34.62	39.12	40.75	53.88
g	mm	92	105	127	157	185.7	216	270	324	381	413	470	533	584	692
	in	3.62	4.13	5.00	6.18	7.32	8.50	10.63	12.75	15.00	16.25	18.50	21.00	23.00	27.25
C	mm	127	149.2	168.3	200	235	269.9	330.2	387.4	450.8	514.4	571.5	628.6	685.8	812.8
	in	5.00	5.88	6.62	7.88	9.25	10.62	13.00	15.25	17.75	20.25	22.50	24.75	27.00	32.00
D	mm	165	190	210	255	280	320	380	445	520	585	650	710	775	915
	in	6.50	7.50	8.25	10.00	11.00	12.50	15.00	17.50	20.50	23.00	25.50	28.00	30.50	36.00
t	mm	23	26	29	32	35	37	42	48	51	54	58	61	64	70
	in	0.87	1.00	1.12	1.25	1.37	1.44	1.62	1.87	2.00	2.12	2.25	2.38	2.50	2.75
n-d1 (mm)		8-ø19	8-ø22	8-ø22	8-ø22	8-ø22	12-ø22	12-ø26	16-ø29	16-ø32	20-ø32	20-ø35	24-ø35	24-ø35	24-ø42
H (mm)		158	178	188	259	281	319	401	483	555	585	615	643	681	782
WT	RF	21	33	43	61	84	131	213	384	449	680	840	1025	1320	1870
(kg)	BW	18	28	35	48	69	111	156	295	359	580	710	825	1090	1470

Class 600 Cast Steel Swing Check Valve

— in line valve co ltd —

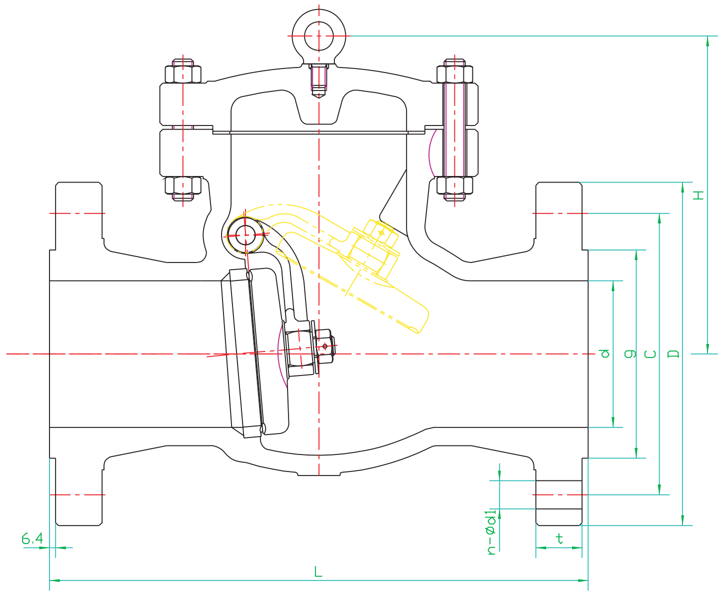


FIG. 7106RF

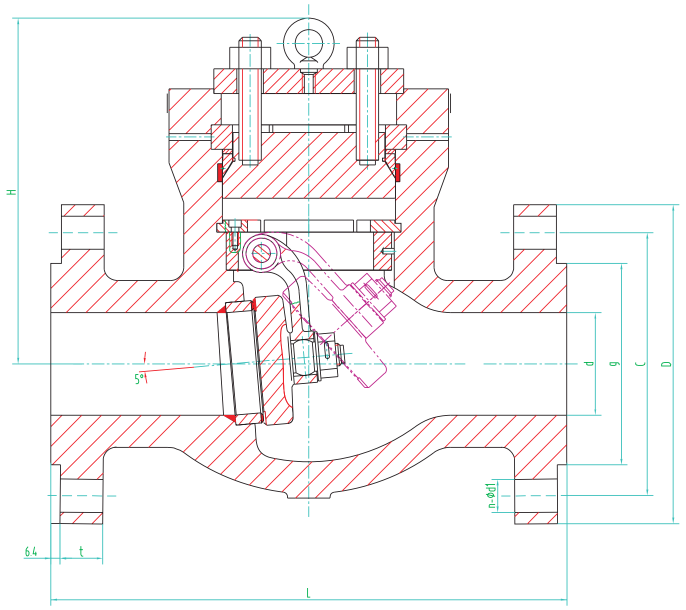
Bolted Cover, Swing Type Disc
Threaded or Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: BS1868
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

■Dimension and Weight

Figure		7106RF / 7106BW / 7106RJ													
NPS	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
d	mm	51	63.5	76	102	127	152	200	248	298.5	327	375	419	464	559
	in	2.00	2.50	3.00	4.00	5.00	6.00	7.87	9.75	11.75	12.87	14.75	16.50	18.25	22.00
L	mm	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397
(RF-BW)	in	11.50	13.00	14.00	17.00	20.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00
L	mm	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407
(RTJ)	in	11.62	13.12	14.12	17.12	20.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38
g	mm	92	105	127	157	185.7	216	270	324	381	413	470	533	584	692
	in	3.62	4.13	5.00	6.18	7.32	8.50	10.63	12.75	15.00	16.25	18.50	21.00	23.00	27.25
C	mm	127	149.2	168.3	216	267	292	349	432	489	527	603	654	724	838
	in	5.00	5.88	6.62	8.50	10.50	11.50	13.75	17.00	19.25	20.75	23.75	25.75	28.50	33.00
D	mm	165	190	210	275	330	356	419	508	559	603	686	743	813	940
	in	6.50	7.50	8.25	10.75	13.00	14.00	16.50	20.00	22.00	23.75	27.00	29.25	32.00	37.00
t	mm	26	29	32	38	44.5	48	56	64	67	70	77	83	89	102
	in	1.00	1.12	1.25	1.50	1.75	1.88	2.19	2.50	2.62	2.75	3.00	3.25	3.50	4.00
n-d1 (mm)		8-ø19	8-ø22	8-ø22	8-ø25	8-ø29	12-ø29	12-ø32	16-ø35	20-ø35	20-ø38	20-ø41	20-ø44	24-ø44	24-ø52
H (mm)		197	207	231	281	295	362	437	490	528	572	660	720	746	960
WT	RF	30	39	55	100	120	200	380	620	805	1050	1220	1840	2230	2890
(kg)	BW	26	30	45	68	80	168	305	501	700	850	1040	1560	1950	2480



Bolted or Pressure Seal Cover, Swing Type Disc
Threaded or Welded Seat Ring

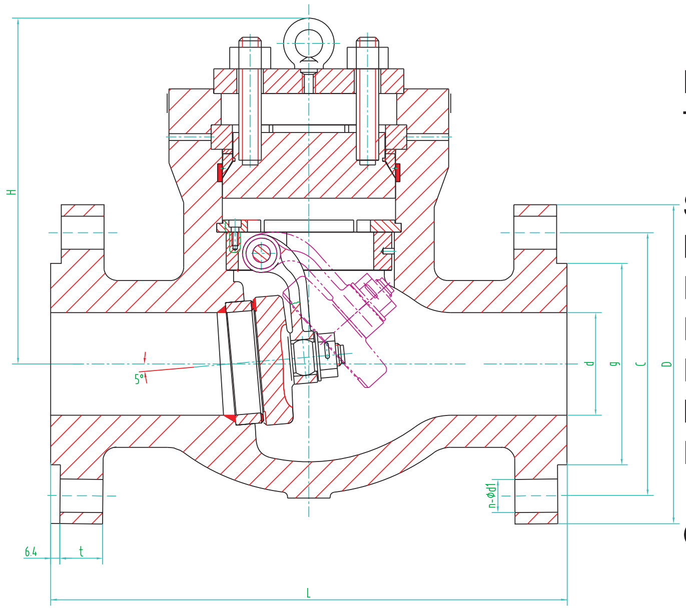
STANDARD COMPLIANCE:
Basic Design: BS1868 or ASME B16.34
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: 2"~16" to ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

FIG. P7109RF

■Dimension and Weight

Figure		P7109RF / P7109BW / P7109RJ									
NPS	mm	50	65	80	100	150	200	250	300	350	400
	in	2	2 1/2	3	4	6	8	10	12	14	16
d	mm	47.5	57.2	72.9	98.3	146.1	190.5	238	282.4	311.2	355.6
	in	1.87	2.25	2.87	3.87	5.75	7.50	9.37	11.12	12.25	14.00
L	mm	368	419	381	457	610	737	838	965	1029	1130
(RF)	in	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00	40.50	44.50
L	mm	216	254	305	356	508	660	787	914	991	1092
(BW)	in	8.50	10.00	12.00	14.00	20.00	26.00	31.00	36.00	39.00	43.00
L	mm	371	422	384	460	613	740	841	968	1039	1140
(RTJ)	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88
g	mm	91.9	104.6	127	157.2	215.9	269.7	323.8	381	412.7	469.9
	in	3.62	4.12	5.00	6.19	8.50	10.62	12.75	15.00	16.25	18.50
C	mm	165.1	190.5	190.5	234.9	317.5	393.7	469.9	533.4	558.8	615.9
	in	6.50	7.50	7.50	9.25	12.50	15.50	18.50	21.00	22.00	24.25
D	mm	215.9	244.3	241.3	292.1	381	469.9	546.1	609.6	641.3	704.8
	in	8.50	9.62	9.50	11.50	15.00	18.50	21.50	24.00	25.25	27.75
t	mm	38.1	41.1	38.1	44.4	55.6	63.5	69.8	79.2	85.8	88.9
	in	1.50	1.62	1.50	1.75	2.19	2.50	2.75	3.12	3.38	3.50
n-d1 (mm)		8-ø25	8-ø29	8-ø25	8-ø32	12-ø32	12-ø38	16-ø38	20-ø38	20-ø41	20-ø45
H (mm)		190	210	210	220	368	512	615	705	740	760
WT	RF	50	65	62	125	255	510	940	1450	1725	1835
(kg)	BW	35	46	44	78	178	385	700	1130	1355	1465



Bolted or Pressure Seal Cover, Swing Type Disc
Threaded or Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: BS1868 or ASME B16.34
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: 2"~16" to ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

FIG. P7115RF

■Dimension and Weight

Figure		P7115RF / P7115BW / P7115RJ									
NPS	mm	50	65	80	100	150	200	250	300	350	400
	in	2	2 1/2	3	4	6	8	10	12	14	16
d	mm	47.5	57.2	69.9	91.9	136.4	177.8	222.3	263.4	288.8	330.2
	in	1.87	2.25	2.75	3.62	5.37	7.00	8.75	10.37	11.37	13.00
L	mm	368	419	470	546	705	832	991	1130	1257	1384
(RF)	in	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50	49.50	54.50
L	mm	216	254	305	406	559	711	864	991	1067	1194
(BW)	in	8.50	10.00	12.00	16.00	22.00	28.00	34.00	39.00	42.00	47.00
L	mm	371	422	473	549	711	842	1000	1146	1276	1407
(RTJ)	in	14.62	16.62	18.62	21.62	28.00	33.13	39.38	45.12	50.25	55.38
g	mm	91.9	104.6	127	157.2	215.9	269.7	323.8	381	412.7	469.9
	in	3.62	4.12	5.00	6.19	8.50	10.62	12.75	15.00	16.25	18.50
C	mm	165.1	190.5	203.2	241.3	317.5	393.7	482.6	571.5	635	704.8
	in	6.50	7.50	8.00	9.50	12.50	15.50	19.00	22.50	25.00	27.75
D	mm	215.9	244.3	266.7	311.1	393.7	482.6	584.2	673.1	749.3	825.5
	in	8.50	9.62	10.50	12.25	15.50	19.00	23.00	26.50	29.50	32.50
t	mm	38.1	41.1	47.7	53.8	82.5	91.9	107.9	123.9	133.3	146
	in	1.50	1.62	1.88	2.12	3.25	3.62	4.25	4.88	5.25	5.75
n-d1 (mm)		8-ø25	8-ø29	8-ø32	8-ø35	12-ø38	12-ø45	12-ø51	16-ø54	16-ø61	16-ø67
H (mm)		265	265	270	370	475	570	630	770	795	825
WT	RF	60	75	73	130	330	585	1020	1510	1850	2050
(kg)	BW	42	53	51	86	230	455	720	1150	1400	1550

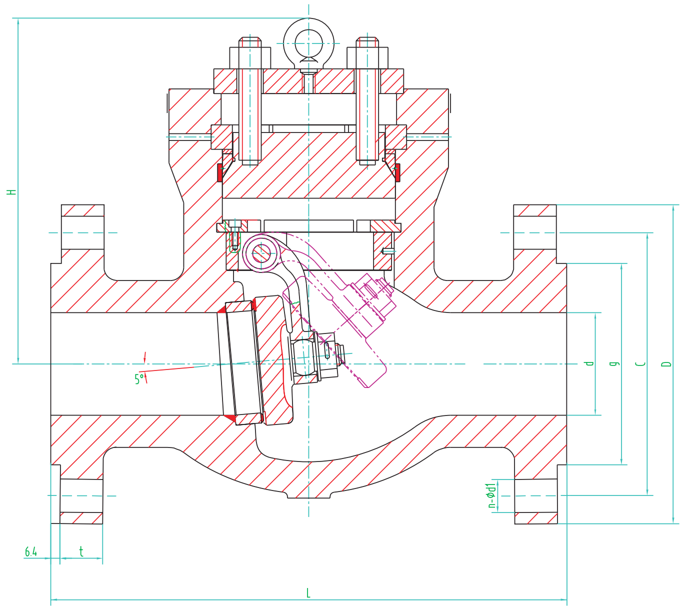


FIG. P7125RF

Bolted or Pressure Seal Cover, Swing Type Disc
Threaded or Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: BS1868 or ASME B16.34
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: 2"~12" to ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API598

Other Special Requirements shall be on request

■ **Dimension and Weight**

Figure		P7125RF / P7125BW / P7125RJ									
NPS	mm	50	65	80	100	150	200	250	300	350	400
	in	2	2 1/2	3	4	6	8	10	12	14	16
d	mm	38.1	47.5	57.2	72.9	111	146.1	184.2	218.9	241.3	276.1
	in	1.50	1.87	2.25	2.87	4.37	5.75	7.25	8.62	9.50	10.87
L (RF)	mm	451	508	578	673	914	1022	1270	1422	-	-
	in	17.75	20.00	22.75	26.50	36.00	40.25	50.00	56.00	-	-
L (BW)	mm	279	330	368	457	610	762	914	1041	1118	1245
	in	11.00	13.00	14.50	18.00	24.00	30.00	36.00	41.00	44.00	49.00
L (RTJ)	mm	454	514	584	683	927	1038	1292	1444	-	-
	in	17.87	20.25	23.00	26.88	36.50	40.87	50.88	56.88	-	-
g	mm	91.9	104.6	127	157.2	215.9	269.7	323.9	381	-	-
	in	3.62	4.12	5.00	6.19	8.50	10.62	12.75	15.00	-	-
C	mm	171.5	196.9	228.6	273.1	368.3	438.2	539.8	619.3	-	-
	in	6.75	7.75	9.00	10.75	14.50	17.25	21.25	24.38	-	-
D	mm	235	266.7	304.8	355.6	482.6	552.5	673.1	762	-	-
	in	9.25	10.50	12.00	14.00	19.00	21.75	26.50	30.00	-	-
t	mm	50.8	57.2	66.5	76.2	108	127	165.1	184.2	-	-
	in	2.00	2.25	2.62	3.00	4.25	5.00	6.50	7.25	-	-
n-d1 (mm)		8 - ⌀ 9	8 - ⌀ 2	8 - ⌀ 35	8 - ⌀ 41	8 - ⌀ 54	12 - ⌀ 54	12 - ⌀ 7	12 - ⌀ 3	-	-
H (mm)		280	305	310	370	485	545	710	800	905	945
WT (kg)	RF	88	115	135	215	550	900	1600	2300	-	-
	BW	80	90	95	160	385	640	1200	1725	3000	3750

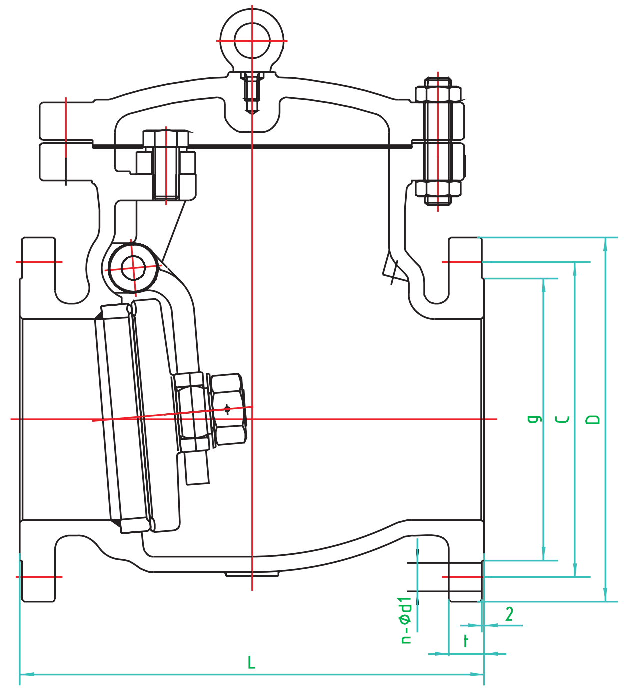


FIG. 7501RF

Bolted Cover, Swing Type Disc
Threaded or Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: API6D
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API6D

Other Special Requirements shall be on request

■ **Dimension and Weight**

Figure		7501RF / 7501BW / 7501RJ													
NPS	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
d	mm	51	64	76	102	127	152	203	254	305	337	387	438	489	591
	in	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00	13.25	15.25	17.25	19.25	23.25
L (RF-BW)	mm	203	216	241	292	330	356	495	622	698	787	864	978	978	1295
	in	8.00	8.50	9.50	11.50	13.00	14.00	19.50	24.50	27.50	31.00	34.00	38.50	38.50	51.00
L (RTJ)	mm	216	229	254	305	343	369	508	635	711	800	877	991	991	1308
	in	8.15	8.65	9.65	11.65	13.15	14.15	19.65	24.65	27.65	31.15	34.15	38.65	38.65	51.15
g	mm	92	105	127	157	185.7	216	270	324	381	413	470	533	584	692
	in	3.62	4.13	5.00	6.18	7.32	8.50	10.63	12.75	15.00	16.25	18.50	21.00	23.00	27.25
C	mm	120.7	139.7	152.5	190.5	216	241.5	298.5	362	432	476	540	578	635	749.5
	in	4.75	5.50	6.00	7.50	8.50	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	29.50
D	mm	152	180	190	230	255	280	345	405	485	535	595	635	700	815
	in	6.00	7.00	7.50	9.00	10.00	11.00	13.50	16.00	19.00	21.00	23.50	25.00	27.50	32.00
t	mm	19	22	24	24	24	26	29	31	32	35	37	40	43	48
	in	0.75	0.87	0.94	0.94	0.94	1.00	1.13	1.20	1.25	1.38	1.44	1.56	1.69	1.88
n-d1 (mm)		4-⌀19	4-⌀19	4-⌀19	8-⌀19	8-⌀22	8-⌀22	8-⌀22	12-⌀26	12-⌀26	12-⌀29	16-⌀29	16-⌀32	20-⌀32	20-⌀35
H (mm)		135	155	168	235	249	277	339	398	525	556	584	668	712	740
WT (kg)	RF	20	27	34	49	68	85	125	204	248	325	656	765	1035	1563
	BW	18	23	26	41	57	68	110	160	203	270	556	630	900	1323

Class 300 Full Port Swing Check Valve

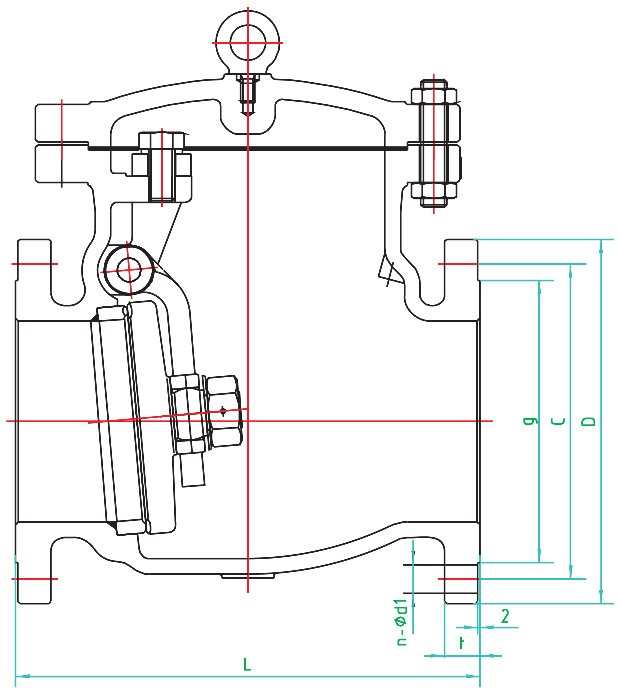


FIG. 7503RF

Bolted Cover, Swing Type Disc
Threaded or Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: API6D
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API6D

Other Special Requirements shall be on request

■Dimension and Weight

Figure		7503RF / 7503BW / 7503RJ													
NPS	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
d	mm	51	63.5	76	102	127	152	203	254	305	337	387	432	482	584
	in	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00	13.25	15.25	17.00	19.00	23.00
L	mm	267	292	318	356	400	444	533	622	711	838	864	978	1016	1346
(RF-BW)	in	10.50	11.50	12.50	14.00	15.75	17.50	21.00	24.50	28.00	33.00	34.00	38.50	40.00	53.00
L	mm	283	308	334	372	416	460	549	638	727	854	880	994	1035	1368
(RTJ)	in	11.12	12.12	13.12	14.62	16.37	18.12	21.62	25.12	28.62	33.62	34.62	39.12	40.75	53.88
g	mm	92	105	127	157	185.7	216	270	324	381	413	470	533	584	692
	in	3.62	4.13	5.00	6.18	7.32	8.50	10.63	12.75	15.00	16.25	18.50	21.00	23.00	27.25
C	mm	127	149.2	168.3	200	235	269.9	330.2	387.4	450.8	514.4	571.5	628.6	685.8	812.8
	in	5.00	5.88	6.62	7.88	9.25	10.62	13.00	15.25	17.75	20.25	22.50	24.75	27.00	32.00
D	mm	165	190	210	255	280	320	380	445	520	585	650	710	775	915
	in	6.50	7.50	8.25	10.00	11.00	12.50	15.00	17.50	20.50	23.00	25.50	28.00	30.50	36.00
t	mm	23	26	29	32	35	37	42	48	51	54	58	61	64	70
	in	0.87	1.00	1.12	1.25	1.37	1.44	1.62	1.87	2.00	2.12	2.25	2.38	2.50	2.75
n-d1 (mm)		8-⌀19	8-⌀22	8-⌀22	8-⌀22	8-⌀22	12-⌀22	12-⌀26	16-⌀29	16-⌀32	20-⌀32	20-⌀35	24-⌀35	24-⌀35	24-⌀42
H (mm)		158	178	188	259	281	319	401	483	555	585	615	643	681	782
WT	RF	24	38	50	70	97	151	245	442	517	782	966	1179	1518	2151
(kg)	BW	21	32	40	55	80	128	180	340	413	667	817	949	1254	1691

Class 600 Full Port Swing Check Valve

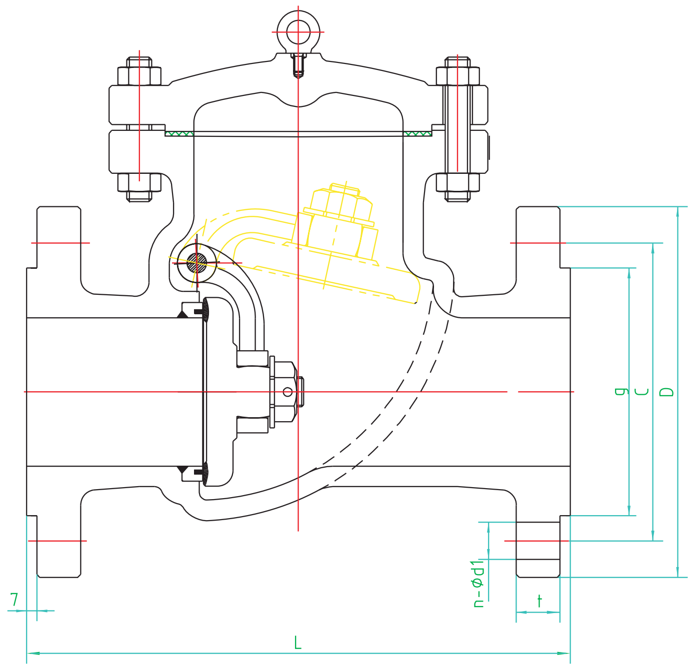


FIG. 7506RF

Bolted Cover, Swing Type Disc
Threaded or Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: API6D
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API6D

Other Special Requirements shall be on request

■Dimension and Weight

Figure		7506RF / 7506BW / 7506RJ													
NPS	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
d	mm	51	63.5	76	102	127	152	200	248	298.5	327	375	419	464	559
	in	2.00	2.50	3.00	4.00	5.00	6.00	7.87	9.75	11.75	12.87	14.75	16.50	18.25	22.00
L	mm	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397
(RF-BW)	in	11.50	13.00	14.00	17.00	20.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00
L	mm	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407
(RTJ)	in	11.62	13.12	14.12	17.12	20.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38
g	mm	92	105	127	157	185.7	216	270	324	381	413	470	533	584	692
	in	3.62	4.13	5.00	6.18	7.32	8.50	10.63	12.75	15.00	16.25	18.50	21.00	23.00	27.25
C	mm	127	149.2	168.3	216	267	292	349	432	489	527	603	654	724	838
	in	5.00	5.88	6.62	8.50	10.50	11.50	13.75	17.00	19.25	20.75	23.75	25.75	28.50	33.00
D	mm	165	190	210	275	330	356	419	508	559	603	686	743	813	940
	in	6.50	7.50	8.25	10.75	13.00	14.00	16.50	20.00	22.00	23.75	27.00	29.25	32.00	37.00
t	mm	26	29	32	38	44.5	48	56	64	67	70	77	83	89	102
	in	1.00	1.12	1.25	1.50	1.75	1.88	2.19	2.50	2.62	2.75	3.00	3.25	3.50	4.00
n-d1 (mm)		8-⌀19	8-⌀22	8-⌀22	8-⌀25	8-⌀29	12-⌀29	12-⌀32	16-⌀35	20-⌀35	20-⌀38	20-⌀41	20-⌀44	24-⌀44	24-⌀52
H (mm)		197	207	231	281	295	362	437	490	528	572	660	720	746	960
WT	RF	35	45	64	115	138	230	437	713	926	1208	1403	2116	2565	3324
(kg)	BW	30	40	52	78	92	193	351	576	805	978	1196	1794	2243	2852

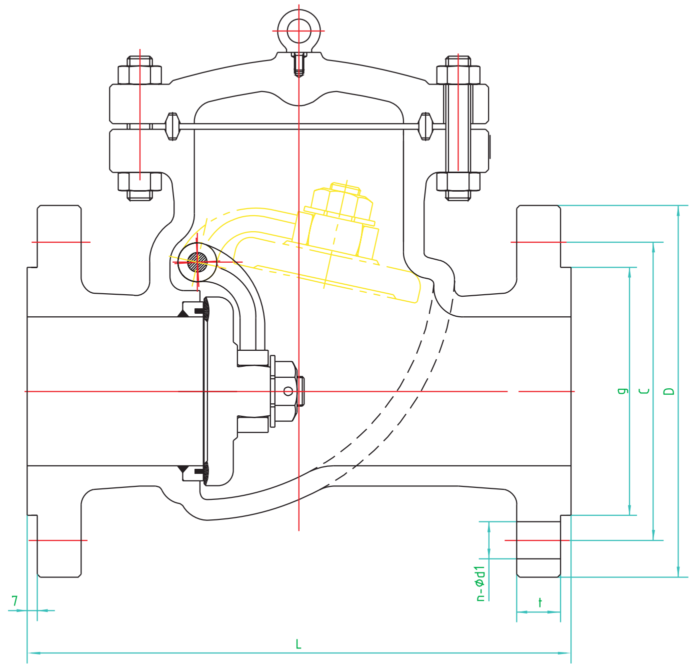


FIG. 7509RF

Bolted Cover, Swing Type Disc
Threaded or Welded Seat Ring

STANDARD COMPLIANCE:
Basic Design: API6D
Face to Face Dimension: ANSI B16.10
End to End Dimension: ANSI B16.10
End Flange Dimension: ASME B16.5
B.W. Ends: ASME B16.25
Inspection & Test: API6D

Other Special Requirements shall be on request

■ Dimension and Weight

Figure		7509RF / 7509BW / 7509RJ									
NPS	mm	50	65	80	100	150	200	250	300	350	400
	in	2	2 1/2	3	4	6	8	10	12	14	16
d	mm	47.5	57.2	72.9	98.3	146.1	190.5	238	282.4	311.2	355.6
	in	1.87	2.25	2.87	3.87	5.75	7.50	9.37	11.12	12.25	14.00
L	mm	368	419	381	457	610	737	838	965	1029	1130
(RF)	in	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00	40.50	44.50
L	mm	216	254	305	356	508	660	787	914	991	1092
(BW)	in	8.50	10.00	12.00	14.00	20.00	26.00	31.00	36.00	39.00	43.00
L	mm	371	422	384	460	613	740	841	968	1039	1140
(RTJ)	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	44.88	44.88
g	mm	91.9	104.6	127	157.2	215.9	269.7	323.8	381	412.7	469.9
	in	3.62	4.12	5.00	6.19	8.50	10.62	12.75	15.00	16.25	18.50
C	mm	165.1	190.5	190.5	234.9	317.5	393.7	469.9	533.4	558.8	615.9
	in	6.50	7.50	7.50	9.25	12.50	15.50	18.50	21.00	22.00	24.25
D	mm	215.9	244.3	241.3	292.1	381	469.9	546.1	609.6	641.3	704.8
	in	8.50	9.62	9.50	11.50	15.00	18.50	21.50	24.00	25.25	27.75
t	mm	38.1	41.1	38.1	44.4	55.6	63.5	69.8	79.2	85.8	88.9
	in	1.50	1.62	1.50	1.75	2.19	2.50	2.75	3.12	3.38	3.50
n-d1(mm)		8-⌀25	8-⌀29	8-⌀25	8-⌀32	12-⌀32	12-⌀38	16-⌀38	20-⌀38	20-⌀41	20-⌀45
H (mm)		190	210	210	220	368	512	615	705	740	760
WT	RF	58	75	72	144	294	587	1081	1668	1984	2110
(kg)	BW	41	53	51	90	205	443	805	1300	1558	1685

Example: 16 – 5103 RF 01 C – G X

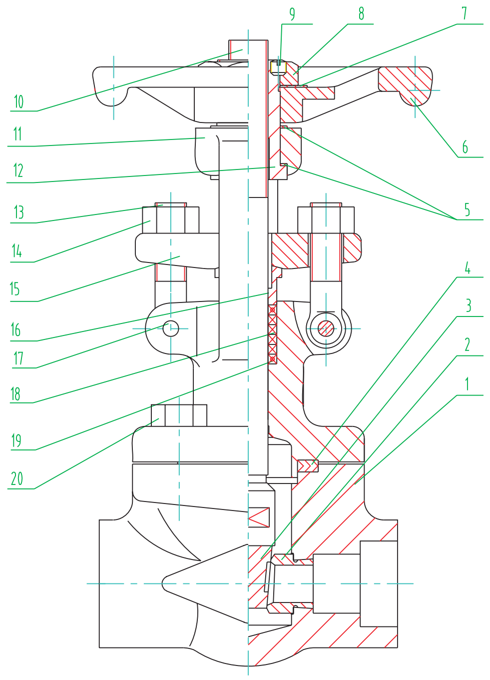
1 2 3 4 5 6 7

7 — Special Requirements
6 — Operation
5 — Basic Material
4 — Trim
3 — Ends
2 — Model No.
1 — Nominal Size

Description: API600 Gate Valve, 16"ANSI Class 300, RF Flanged Ends, OS&Y, Bolted Bonnet, Body ASTM A216 WCB, Trim API NO.1(13%Cr/13%Cr), Gear Operated, Other special requirements indicated in PO.

1	2	3	4	5	6	7
Size	Model	Ends	Trim	Basic Material	Operation	Special Requirements
02-2"	5101(API600 Gate Valve,class 150)	RF(Raised Face)	01(API No.1-13%Cr)	A-A216 WCC	G-Gear Operator	X-Special Requirements should be indicated in the purchase order
25-21/2"	5103(API600 Gate Valve,class 300)	RJ(Ring Type Joint)	02(API No.2-SS304)	B-A352 LCB	C-Chian Operator	
03-3"	5106(API600 Gate Valve,class 600)	BW(Butt Welded)	05(API No.5-HF)	C-A216 WCB	E-Electric Actuator	
04-4"	5109(API600 Gate Valve,class 900)	FF(Flat Face)	06(API No.6-Monel/410)	D-A352 LCC	P-Pneumatic Actuator	
05-5"	5115(API600 Gate Valve,class 1500)	SW(Socket Weld)	08(API No.8-HF/410)	E-A217 WC1	B-Bare Stem	
06-6"	5125(API600 Gate Valve,class 2500)	TR(Threaded)	09(API No.9-Monel)	F-A217 C5		
08-8"	6101(BS1873 Globe Valve,class 150)	TW(NPTxSW)	10(API No.10-SS316)	H-A217 WC6	* Hand Operation is not necessary for this column	
10-10"	6103(BS1873 Globe Valve,class 300)		12(API No.12-316/HF)	J-A217 C12		
12-12"	6106(BS1873 Globe Valve,class 600)		14(304L/304L)	K-A217 C12A		
14-14"	6109(BS1873 Globe Valve,class 900)		15(316L/316L)	L-A351 CF3M		
16-16"	6115(BS1873 Globe Valve,class 1500)		16(304L/HF)	M-MONEL		
18-18"	6125(BS1873 Globe Valve,class 2500)		17(316L/HF)	P-A351 CF8		
20-20"	7101(BS1868 Swing Check Valve,class 150)		20(Metal/Soft)	Q-A351 CF3		
24-24"	7103(BS1868 Swing Check Valve,class 300)			R-A351 CF8M		
28-28"	7106(BS1868 Swing Check Valve,class 600)			V-A217 WC9		
30-30"	7109(BS1868 Swing Check Valve,class 900)			X-A351 CD4MCu		
32-32"	7115(BS1868 Swing Check Valve,class 1500)					
36-36"	7125(BS1868 Swing Check Valve,class 2500)					
40-40"	7501(API6D Full Port Swing Check Valve,class 150)					
42-42"	7503(API 6D Full Port Swing Check Valve,class 300)					
48-48"	7506(API6D Full Port Swing Check Valve,class 600)					
	7509(API 6D Full Port Swing Check Valve,class 900)					

Notes: The above model number are for bolted bonnet; If pressure seal bonnet, plus "P" before model number.



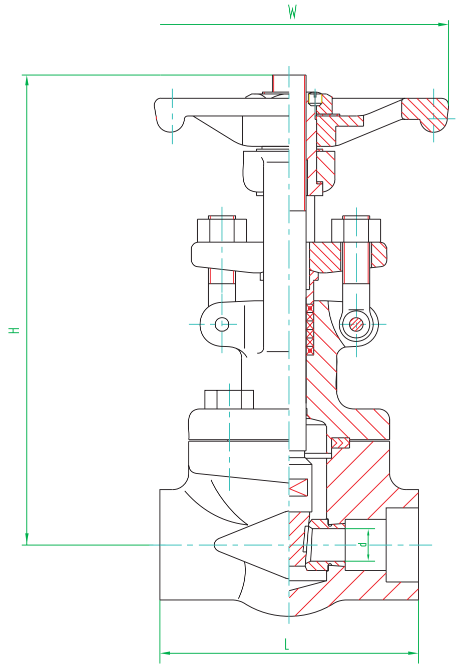


FIG. B5308

OS&Y, Rising Stem, Solid Wedge
Bolted Bonnet, Rolled–in Seat Ring

STANDARD COMPLIANCE:
Basic Design: API 602
Face to Face Dimension: Manufacturer's Standard
Socket Welded Ends: ASME B16.11
Threaded Ends: ASME B1.20.1 NPT
Inspection & Test: API598

Other Special Requirements shall be on request

■Main Parts Material

Item	Part Name	Material					
		ASTM A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F316
1	Body	ASTM A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F316
2	Seat	A276 420	A276 304	A276 304	A276 304	A276 304	A276 316
3	Wedge	A276 410	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316
4	Gasket	SS304 SPIRAL WOUND W/GRAPHITE					
5	Gasket	STAINLESS STEEL					
6	Handwheel	DUCTILE IRON ASTM A536 60-40-18					
7	Nameplate	SS304					
8	Lock Nut	A194 2H	A194 4	A194 4	A194 4	A194 8	A194 8M
9	Screw	A276 420	SS 304	SS 304	SS 304	SS 304	SS 316
10	Stem	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316
11	Bonnet	ASTM A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F316
12	Stem Nut	A276 420					
13	Gland Eye Bolt	A193 B7	A320 L7	A193 B16	A193 B16	A193 B8	A193 B8M
14	Gland Nut	A194 2H	A194 4	A194 4	A194 4	A194 8	A194 8M
15	Gland Flange	ASTM A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F316
16	Gland	A276 410	A276 410	A276 410	A276 410	A182 F304	A182 F316
17	Pin	A108 1035	A108 1035	A108 1035	A108 1035	A276 304	A276 304
18	Packing	FLEXIBLE GRAPHITE					
19	Packing	BRAIDED GRAPHITE					
20	Stud	A193 B7	A320 L7	A193 B16	A193 B16	A194 8	A194 8M

■Dimension and Weight

NPS	Regular Port	mm(in)	15 (1/2")	20 (3/4")	25(1")	32 (11/4")	40 (11/2")	50 (2")	
	Full Port	mm(in)	10 (3/8")	15 (1/2")	20 (3/4")	25 (1")	32 (11/4")	40 (11/2")	50 (2")
d		mm	10	13	18	24	29	36.5	46.5
L		mm	79	92	111	120	120	140	178
H		mm	158	164	194	221	244	282	330
W		mm	100	100	125	160	160	180	200
Weight		kg	2.1	2.3	4	5.9	6.9	11.2	15.8

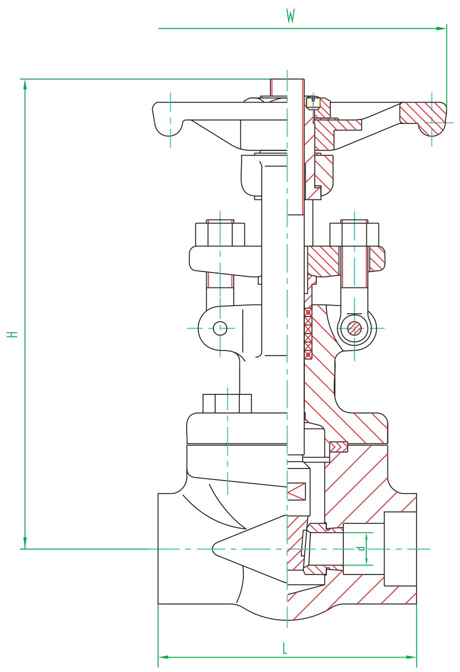


FIG. B5315

OS&Y, Rising Stem, Solid Wedge
Bolted Bonnet, Rolled–in Seat Ring

STANDARD COMPLIANCE:
Basic Design: API 602
Face to Face Dimension: Manufacturer's Standard
Socket Welded Ends: ASME B16.11
Threaded Ends: ASME B1.20.1 NPT
Inspection & Test: API598

Other Special Requirements shall be on request

■Dimension and Weight

NPS	Regular Port	mm(in)	15 (1/2")	20 (3/4")	25(1")	32 (11/4")	40 (11/2")	50 (2")	
	Full Port	mm(in)	10 (3/8")	15 (1/2")	20 (3/4")	25 (1")	32 (11/4")	40 (11/2")	50 (2")
d		mm	13.6	13.6	18	24	29	36.5	46.5
L		mm	111	111	114	120	140	162	210
H		mm	197	197	218	237	274	310	354
W		mm	125	125	160	160	180	200	240
Weight		kg	3.5	4.3	6.3	8.7	12.1	17.2	23.5

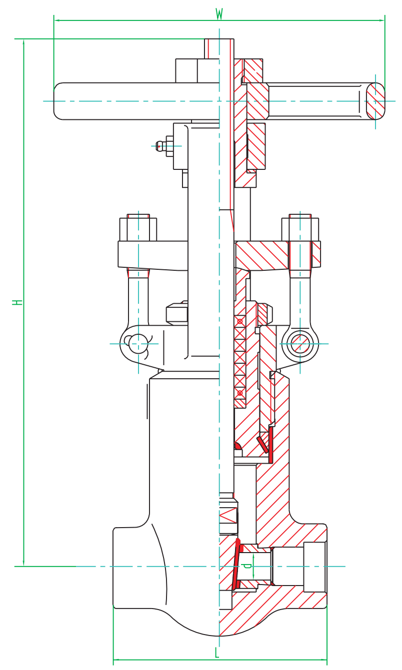


FIG. P5325

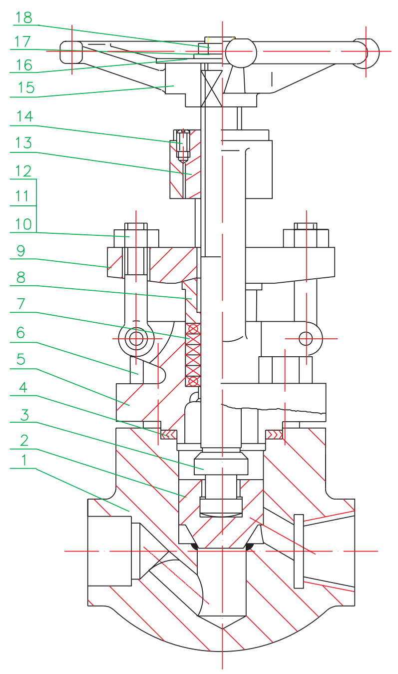
OS&Y, Rising Stem, Solid Wedge
Pressure Seal Bonnet, Rolled–in Seat Ring

STANDARD COMPLIANCE:
Basic Design: API 602
Face to Face Dimension: Manufacturer's Standard
Socket Welded Ends: ASME B16.11
Threaded Ends: ASME B1.20.1 NPT
Inspection & Test: API598

Other Special Requirements shall be on request

■Dimension and Weight

NPS	Regular Port	mm	15	20	25	32	40	50
		in	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
d		mm	13	13	18	24	29	36.8
L		mm	186	186	186	232	232	279
H		mm	321	321	321	380	414	502
W		mm	200	200	200	300	300	300
Weight		kg	10.8	11	12.3	26	28.4	60



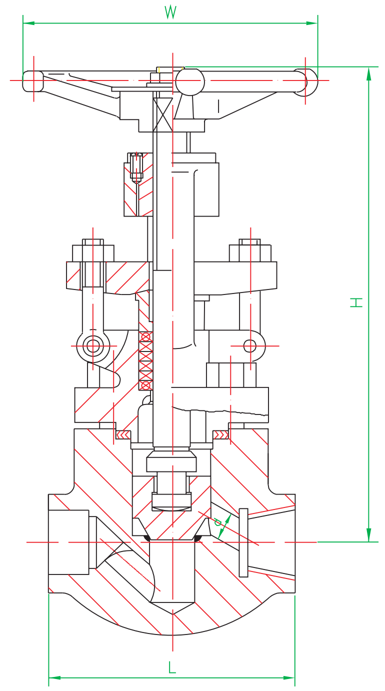


FIG. B6308

OS&Y, Rising Stem
Bolted Bonnet, Integral Seat

STANDARD COMPLIANCE:
Basic Design: API 602
Face to Face Dimension: Manufacturer's Standard
Socket Welded Ends: ASME B16.11
Threaded Ends: ASME B1.20.1 NPT
Inspection & Test: API598

Other Special Requirements shall be on request

■Main Parts Material

Item	Part Name	Material					
		ASTM A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F316
1	Body	ASTM A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F316
2	Disc	A276 420	A276 304	A276 304	A276 304	A276 304	A276 316
3	Stem	A182 F6	A182 F304	A182 F304	A182 F304	A182 F304	A182 F316
4	Gasket	SS304 SPIRAL WOUND W/GRAPHITE					
5	Bonnet	ASTM A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F316
6	Handwheel	DUCTILE IRON ASTM A536 60-40-18					
7	Packing	FLEXIBLE GRAPHITE					
8	Gland	A276 410	A276 410	A276 410	A276 410	A182 F304	A182 F316
9	Gland Flange	ASTM A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F316
10	Gland Eye Bolt	A193 B7	A320 L7	A193 B16	A193 B16	A193 B8	A193 B8M
11	Gland Nut	A194 2H	A194 4	A194 4	A194 4	A194 8	A194 8M
12	Pin	A108 1035	A108 1035	A108 1035	A108 1035	A276 304	A276 304
13	Stem Nut	ASTM A439 Gr. D2					
14	Set Screw	A276 420	SS 304	SS 304	SS 304	SS 304	SS 316
15	Handwheel	DUCTILE IRON ASTM A536 60-40-18					
16	Nameplate	SS304					
17	Washer	A108 1035	A108 1035	A108 1035	A108 1035	A276 304	A276 304
18	Lock Nut	A194 2H	A194 4	A194 4	A194 4	A194 8	A194 8M

■Dimension and Weight

NPS									
NPS	Regular Port	mm(in)	15 (1/2")	20 (3/4")	25(1")	32 (11/4")	40 (11/2")	50 (2")	
	Full Port	mm(in)	10 (3/8")	15 (1/2")	20 (3/4")	25 (1")	32 (11/4")	40 (11/2")	50 (2")
d		mm	10	13	17.5	23	28.5	35	46
L		mm	79	92	111	120	152	172	200
H		mm	158	167	192	227	240	279	329
W		mm	100	100	125	160	160	180	200
Weight		kg	2	2.2	3.8	5.5	7	11.5	16

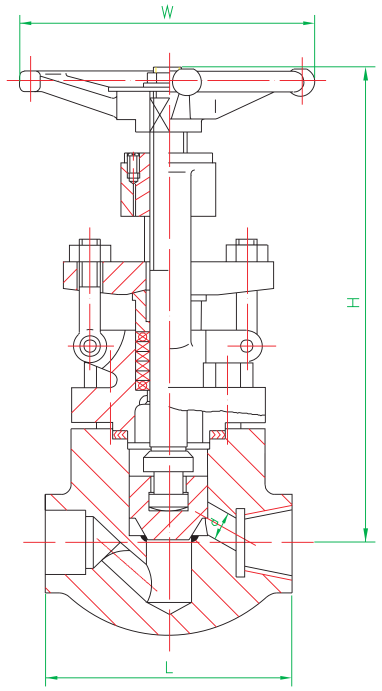


FIG. B6315

OS&Y, Rising Stem
Bolted Bonnet, Integral Seat

STANDARD COMPLIANCE:
Basic Design: API 602
Face to Face Dimension: Manufacturer's Standard
Socket Welded Ends: ASME B16.11
Threaded Ends: ASME B1.20.1 NPT
Inspection & Test: API598

Other Special Requirements shall be on request

■ **Dimension and Weight**

NPS	Regular Port	mm(in)	15 (1/2")	20 (3/4")	25(1")	32 (11/4")	40 (11/2")	50 (2")	
	Full Port	mm(in)	10 (3/8")	15 (1/2")	20 (3/4")	25 (1")	32 (11/4")	40 (11/2")	50 (2")
d		mm	10	13	17.5	23	28.5	35	35
L		mm	92	111	120	152	172	220	250
H		mm	187	187	227	242	278	325	355
W		mm	125	125	160	160	180	200	200
Weight		kg	3.5	4	6.3	8	12.5	19.5	21

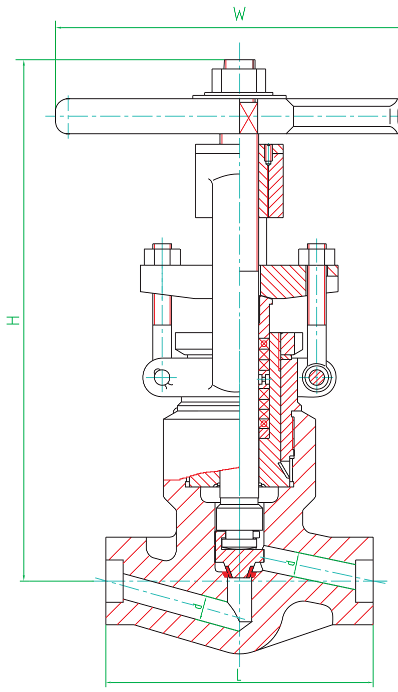


FIG. P6325

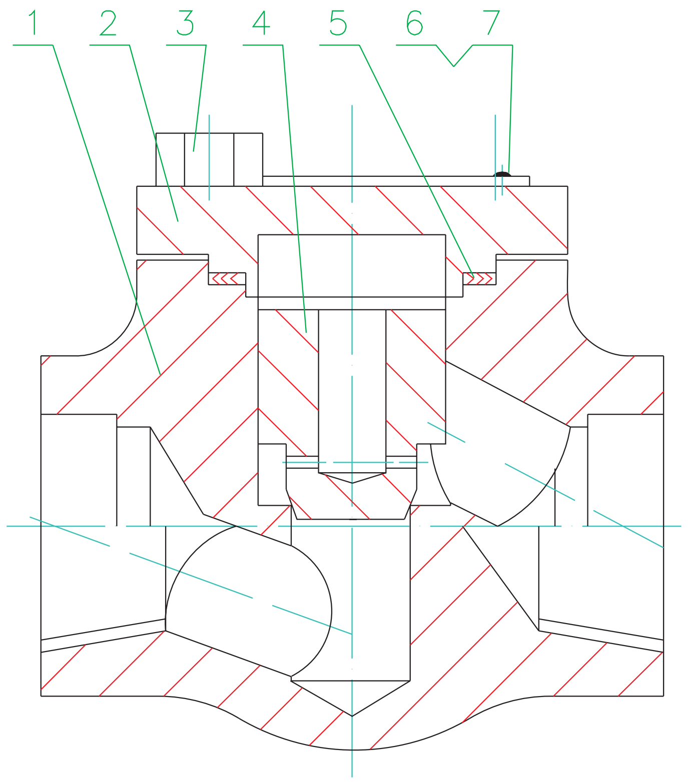
OS&Y, Rising Stem
Pressure Seal Bonnet, Integral Seat

STANDARD COMPLIANCE:
Basic Design: API 602
Face to Face Dimension: Manufacturer's Standard
Socket Welded Ends: ASME B16.11
Threaded Ends: ASME B1.20.1 NPT
Inspection & Test: API598

Other Special Requirements shall be on request

■ **Dimension and Weight**

NPS	Regular Port	mm	15	20	25	32	40	50
		in	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
d		mm	10	13	18	23	28.5	35
L		mm	186	186	186	232	232	279
H		mm	333	333	333	408	408	524
W		mm	200	200	200	300	300	300
Weight		kg	10.8	11.6	12.3	26	28.4	43.8



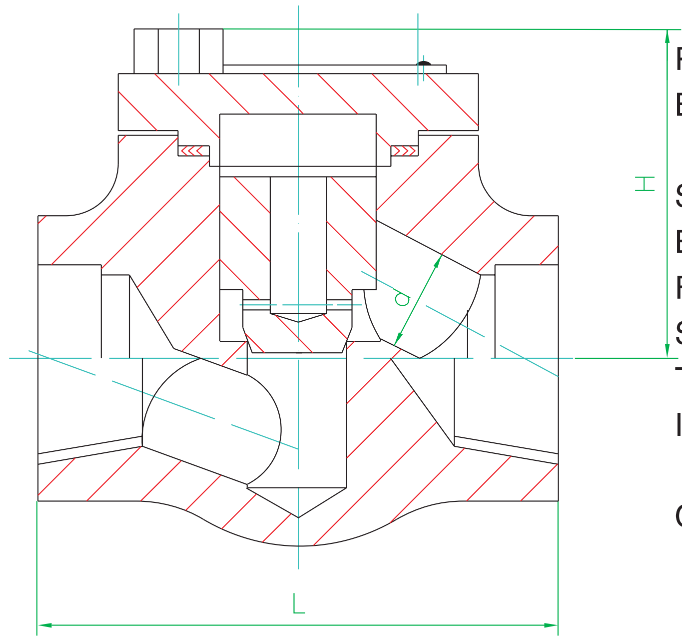


FIG. B7408

Piston Type Disc or Spring Loaded Disc
Bolted Bonnet, Integral Seat

STANDARD COMPLIANCE:
Basic Design: API 602
Face to Face Dimension: Manufacturer's Standard
Socket Welded Ends: ASME B16.11
Threaded Ends: ASME B1.20.1 NPT
Inspection & Test: API598

Other Special Requirements shall be on request

■Main Parts Material

Item	Part Name	Material					
		ASTM A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F316
1	Body	ASTM A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F316
2	Cover	ASTM A105	A350 LF2	A182 F11	A182 F22	A182 F304	A182 F316
3	Bolt	A193 B7	A320 L7	A193 B16	A193 B16	A193 B8	A193 B8M
4	Disc	A276 410	A182 F304	A276 410	A276 410	A182 F304	A182 F316
5	Gasket	SS304 SPIRAL WOUND W/GRAPHITE					
6	Rivet	SS304					
7	Nameplate	SS304					

■Dimension and Weight

NPS	Regular Port	mm(in)	15 (1/2")	20 (3/4")	25(1")	32 (11/4")	40 (11/2")	50 (2")	
	Full Port	mm(in)	10 (3/8")	15 (1/2")	20 (3/4")	25 (1")	32 (11/4")	40 (11/2")	50 (2")
d		mm	10	13	17.5	23	28.5	35	46
L		mm	79	92	111	120	152	172	200
H		mm	54.5	54.5	72	81	94	112	132
Weight		kg	1.4	1.9	2.6	4.2	5.3	9	15.6

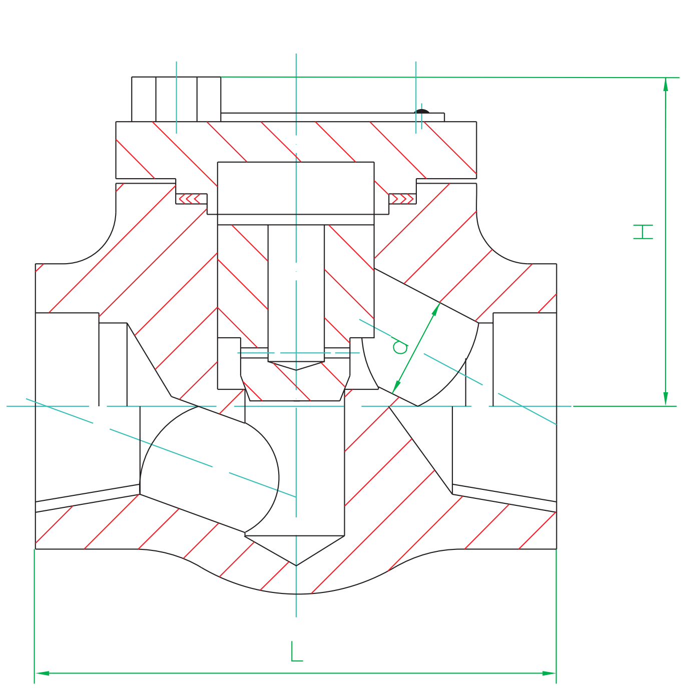


FIG. B7415

Piston Type Disc or Spring Loaded Disc
Bolted Bonnet, Integral Seat

STANDARD COMPLIANCE:
Basic Design: API 602
Face to Face Dimension: Manufacturer's Standard
Socket Welded Ends: ASME B16.11
Threaded Ends: ASME B1.20.1 NPT
Inspection & Test: API598

Other Special Requirements shall be on request

■ **Dimension and Weight**

NPS	Regular Port	mm(in)	15 (1/2")	20 (3/4")	25(1")	32 (11/4")	40 (11/2")	50 (2")	
	Full Port	mm(in)	10 (3/8")	15 (1/2")	20 (3/4")	25 (1")	32 (11/4")	40 (11/2")	50 (2")
d		mm	10	13	17.5	23	28.5	35	46
L		mm	92	111	120	152	172	220	250
H		mm	73	73	84	97	115	132	132
Weight		kg	2.4	2.9	4.6	6.5	10.5	15.5	17

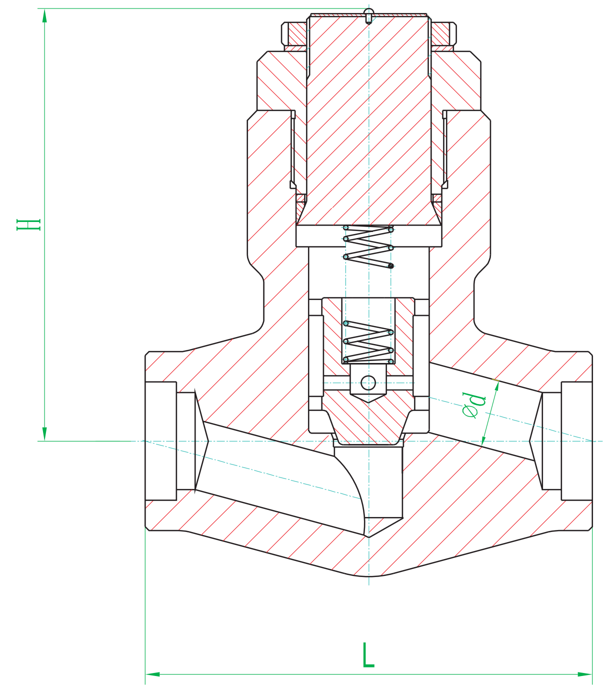


FIG. P7425

Piston Type Disc or Spring Loaded Disc
Pressure Seal Bonnet, Integral Seat

STANDARD COMPLIANCE:
Basic Design: API 602
Face to Face Dimension: Manufacturer's Standard
Socket Welded Ends: ASME B16.11
Threaded Ends: ASME B1.20.1 NPT
Inspection & Test: API598

Other Special Requirements shall be on request

■ **Dimension and Weight**

NPS	Regular Port	mm	15	20	25	32	40	50
		in	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
d		mm	10	13	17.5	23	28.5	35
L		mm	150	150	170	200	200	200
H		mm	145	145	164	192	192	214
Weight		kg	6.5	7	7.5	9.5	10.5	14

Class 800 Forged Steel Swing Check Valve

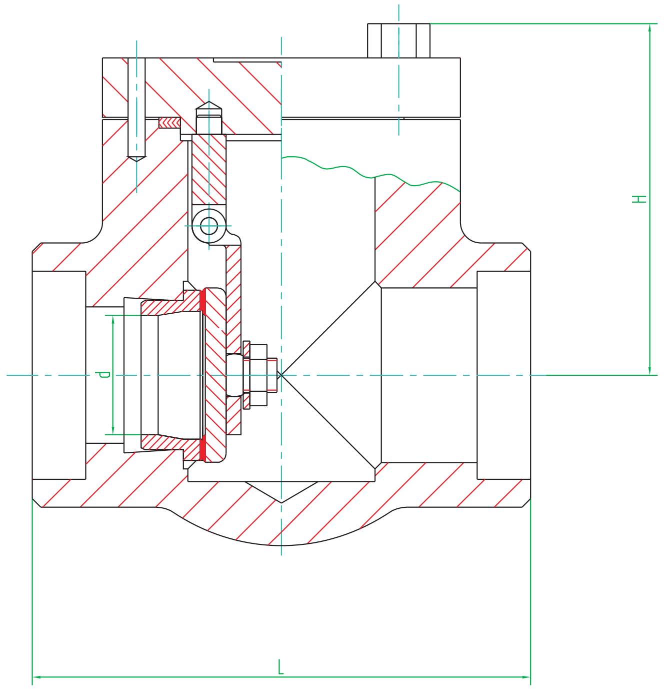


FIG. B7308

Swing Type Disc
Bolted Bonnet, Integral Seat

STANDARD COMPLIANCE:
Basic Design: API 602
Face to Face Dimension: Manufacturer's Standard
Socket Welded Ends: ASME B16.11
Threaded Ends: ASME B1.20.1 NPT
Inspection & Test: API598

Other Special Requirements shall be on request

■Dimension and Weight

NPS									
NPS	Regular Port	mm(in)	15 (1/2")	20 (3/4")	25(1")	32 (11/4")	40 (11/2")	50 (2")	
	Full Port	mm(in)	10 (3/8")	15 (1/2")	20 (3/4")	25 (1")	32 (11/4")	40 (11/2")	50 (2")
d		mm	10	13	18	24	29	36.8	48
L		mm	79	92	111	120	120	140	160
H		mm	54.5	54.5	72	81	94	112	132
Weight		kg	1.2	1.7	2.3	3.9	5	8.7	15.3

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Forged Steel Valve – How To Order

Example: 01 – B5308 SW 01 C1 – _ X

1 2 3 4 5 6 7

- 7 — Special Requirements
- 6 — Operation
- 5 — Basic Material
- 4 — Trim
- 3 — Ends
- 2 — Model No.
- 1 — Nominal Size

Description: API602 Gate Valve, 1" ANSI Class 800, Socket Welded Ends, OS&Y, Bolted Bonnet, Body ASTM A105, Trim API No.1(13%Cr/13%Cr), Handwheel Operated, Other special requirements indicated in PO.

1	2		3	4	5	6	7
Size	Body/Bonnet Connection	Model	Ends	Trim(Disc/Seat)	Basic Material	Operation	Special Requirements
3/8-3/8"	B(Bolted Bonnet)	5308(API602 Forged Gate Valve,Class 800)	RF(Raised Face)	01(API No.1-13%Cr)	B1-A350 LF2	G-Gear Operator	X-Special Requirements should be indicated in the purchase order
1/2-1/2"	W(Welded Bonnet)	5315(API602 Forged Gate Valve,Class 1500)	RJ(Ring Type Joint)	02(API No.2-SS304)	C1-ASTM A105	C-Chian Operator	
3/4-3/4"	P(Pressure Seal Bonnet)	5325(API602 Forged Gate Valve,Class 2500)	BW(Butt Welded)	05(API No.5-HF)	F1-A182 F5	E-Electric Actuator	
01-1"		6308(BS5352 Forged Globe Valve,Class 800)	FF(Flat Face)	06(API No.6-Monel/410)	H1-A182 F11	P-Pneumatic Actuator	
11/4-11/4"		6315(BS5352 Forged Globe Valve,Class 1500)	SW(Socket Weld)	08(API No.8-HF/410)	P1-A182 F304	B-Bare Stem	
11/2-11/2"		6325(BS5352 Forged Globe Valve,Class 2500)	TR(Threaded)	09(API No.9-Monel)	R1-A182 F316		
02-2"		7308(BS5352 Forged Swing Check Valve,Class 800)	TW(NPTxSW)	10(API No.10-SS316)	V1-A182 F22	* Hand/Lever Operation is not necessary for this column	
		7315(BS5352 Forged Swing Check Valve,Class 1500)		12(API No.12-316/HF)	Q1-A182 F304L		
*If Full Port Please Add "F" After Size.		7325(BS5352 Forged Swing Check Valve,Class 2500)		14(SS304/HF)	L1-A182 F316L		
		7408(BS5352 Forged Piston Check Valve,Class 800)					
		7415(BS5352 Forged Piston Check Valve,Class 1500)					
		7425(BS5352 Forged Piston Check Valve,Class 2500)					

Class 125 Cast Iron Gate Valve (Rising Stem)

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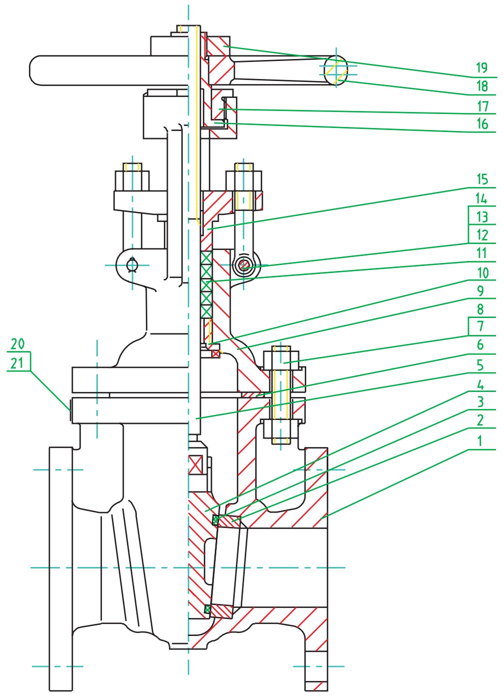

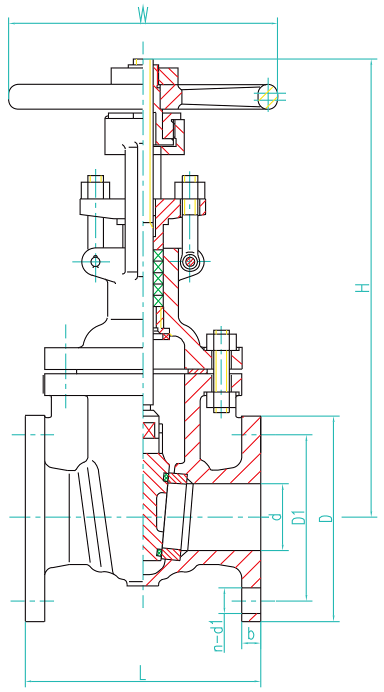

FIG. 5712FF

OS&Y, Rising Stem, Solid Wedge
Bolted Bonnet, Rolled–in Wedge Ring

STANDARD COMPLIANCE:
Basic Design: MSS SP–70
Face to Face Dimension: ANSI B16.10
End Flange Dimension: ANSI B16.1
Inspection & Test: MSS SP–70

Other Special Requirements shall be on request

■Main Parts Material

Item	Part Name	Material			
		GREY IRON		DUCTILE IRON	
1	Body	ASTM A126 CL B	ASTM A126 CL B	ASTM A536	ASTM A536
2	Seat Ring	ASTM B62	13CR	ASTM B62	13CR
3	Wedge Ring	ASTM B62	13CR	ASTM B62	13CR
4	Wedge	ASTM A126 CL B	ASTM A126 CL B	ASTM A536	ASTM A536
5	Stem	ASTM B16	13CR	ASTM B16	13CR
6	Bonnet Gasket	GRAPHITE + STEEL			
7	Bonnet Bolt	ASTM A307			
8	Bonnet Nut	CARBON STEEL			
9	Bonnet	ASTM A126 CL B	ASTM A126 CL B	ASTM A536	ASTM A536
10	Back Seat	ASTM B16	13CR	ASTM B16	13CR
11	Packing	GRAPHITE			
12	Gland Eye Bolt	CARBON STEEL			
13	Gland Nut	CARBON STEEL			
14	Pin	CARBON STEEL			
15	Packing Gland	ASTM A536			
16	Stem Nut	Mn-BRASS			
17	Screw	CARBON STEEL			
18	Handwheel	ASTM A126 CL B			
19	Handwheel Nut	ASTM A536			
20	Nameplate	STAINLESS STEEL			
21	River	STAINLESS STEEL			

■Dimension and Weight

Figure		5712FF															
NPS	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	750	900
	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	30	36
d	mm	51	63.5	76	102	127	152	203	254	305	356	406	457	508	610	762	914
	in	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	24.00	30.00	36.00
L	mm	178	190	203	229	254	267	292	330	356	381	406	432	457	508	610	711
(FF)	in	7.00	7.50	8.00	9.00	10.00	10.50	11.50	13.00	14.00	15.00	16.00	17.00	18.00	20.00	24.00	28.00
D1	mm	120.7	139.7	152.4	190.5	215.9	241.3	298.5	362	431.8	476.3	539.8	577.9	635	749.3	914.4	1086
	in	4.75	5.50	6.00	7.50	8.50	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	29.50	36.00	42.75
D	mm	152	178	191	229	254	279	343	406	483	533	597	635	699	813	984	1168
	in	6.00	7.00	7.50	9.00	10.00	11.00	13.50	16.00	19.00	21.00	23.50	25.00	27.50	32.00	38.75	46.00
b	mm	15.8	17.5	19	23.9	23.9	25.4	28.5	30.2	31.8	35	36.6	39.6	42.9	47.8	53.9	60.5
	in	0.62	0.69	0.75	0.94	0.94	1.00	1.12	1.19	1.25	1.38	1.44	1.56	1.69	1.88	2.12	2.38
n-d1 (mm)		4-⌀19	4-⌀19	4-⌀19	8-⌀19	8-⌀22	8-⌀22	8-⌀22	12-⌀25	12-⌀25	12-⌀29	16-⌀29	16-⌀32	20-⌀32	20-⌀35	28-⌀35	32-⌀41
H (mm)		320	345	387	490	576	680	808	1010	1080	1258	1385	1545	1688	2342	2535	2690
W		200	200	200	254	300	300	345	400	450	505	556	610	610	700	700	800
WT (kg)		20	26	32	50	70	89	141	218	315	457	570	735	990	1341	2630	4180

Class 125 Cast Iron Gate Valve (Non-Rising Stem)

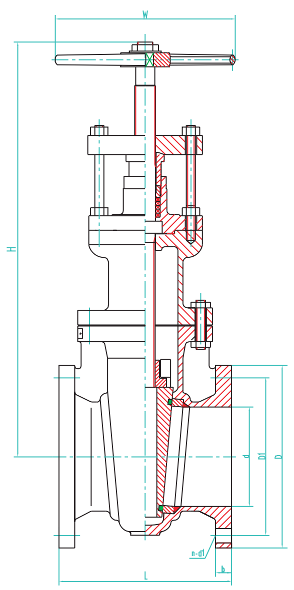

FIG. N5712FF

Non–Rising Stem, Solid Wedge
Bolted Bonnet, Rolled–in Wedge Ring

STANDARD COMPLIANCE:
Basic Design: MSS SP–70
Face to Face Dimension: ANSI B16.10
End Flange Dimension: ANSI B16.1
Inspection & Test: MSS SP–70

Other Special Requirements shall be on request

■Dimension and Weight

Figure		N5712FF															
NPS	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	750	900
	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	30	36
d	mm	51	63.5	76	102	127	152	203	254	305	356	406	457	508	610	762	914
	in	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	24.00	30.00	36.00
L	mm	178	190	203	229	254	267	292	330	356	381	406	432	457	508	610	711
(FF)	in	7.00	7.50	8.00	9.00	10.00	10.50	11.50	13.00	14.00	15.00	16.00	17.00	18.00	20.00	24.00	28.00
D1	mm	120.7	139.7	152.4	190.5	215.9	241.3	298.5	362	431.8	476.3	539.8	577.9	635	749.3	914.4	1086
	in	4.75	5.50	6.00	7.50	8.50	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	29.50	36.00	42.75
D	mm	152	178	191	229	254	279	343	406	483	533	597	635	699	813	984	1168
	in	6.00	7.00	7.50	9.00	10.00	11.00	13.50	16.00	19.00	21.00	23.50	25.00	27.50	32.00	38.75	46.00
b	mm	15.8	17.5	19	23.9	23.9	25.4	28.5	30.2	31.8	35	36.6	39.6	42.9	47.8	53.9	60.5
	in	0.62	0.69	0.75	0.94	0.94	1.00	1.12	1.19	1.25	1.38	1.44	1.56	1.69	1.88	2.12	2.38
n-d1 (mm)		4-ø19	4-ø19	4-ø19	8-ø19	8-ø22	8-ø22	8-ø22	12-ø25	12-ø25	12-ø29	16-ø29	16-ø32	20-ø32	20-ø35	28-ø35	32-ø41
H (mm)		313	334	370	425	454	544	667	754	879	1002	1100	1210	1380	1455	2140	2385
W		200	200	200	254	300	300	345	400	450	505	556	610	610	700	700	800
WT (kg)		18	25	30	47	65	80	140	202	291	437	538	635	947	1280	2440	3908

Class 250 Cast Iron Gate Valve (Rising Stem)

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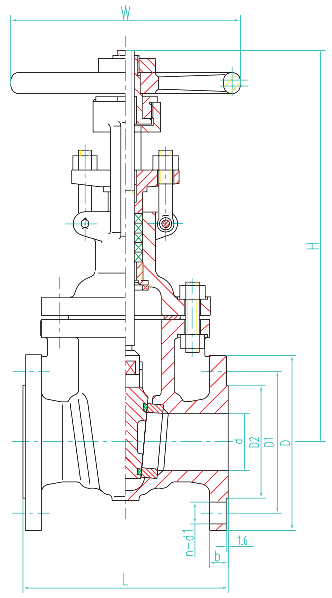


FIG. 5725RF

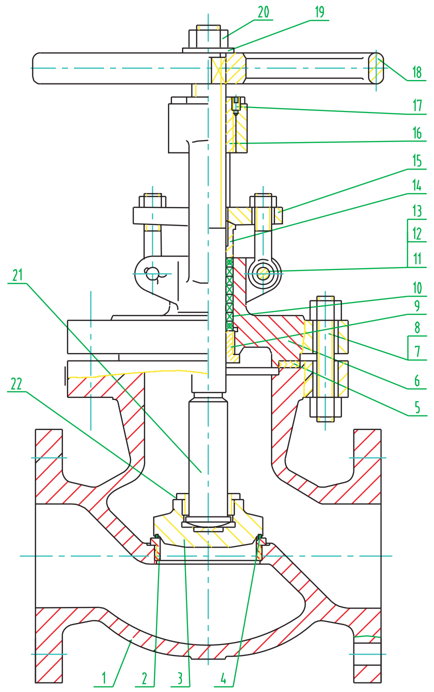
OS&Y, Rising Stem, Solid Wedge
Bolted Bonnet, Rolled–in Wedge Ring

STANDARD COMPLIANCE:
Basic Design: MSS SP–70
Face to Face Dimension: ANSI B16.10
End Flange Dimension: ANSI B16.1
Inspection & Test: MSS SP–70

Other Special Requirements shall be on request

■Dimension and Weight

Figure		5725RF								
NPS	mm	50	65	80	100	125	150	200	250	300
	in	2	2 1/2	3	4	5	6	8	10	12
d	mm	51	64	76	102	127	152	203	254	305
	in	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00
L	mm	216	241	283	305	381	403	419	459	502
(RF)	in	8.50	9.50	11.13	12.00	15.00	15.87	16.50	18.07	19.76
D2	mm	106.5	125.5	144.5	176.5	211.5	246.5	303.3	357.5	418
	in	4.19	4.94	5.69	6.94	8.31	9.69	11.94	14.06	16.44
D1	mm	127	149	168	200	235	270	330	387	451
	in	5.00	5.88	6.62	7.88	9.25	10.62	13.00	15.25	17.75
D	mm	165	191	210	254	279	318	381	445	521
	in	6.50	7.50	8.25	10.00	11.00	12.50	15.00	17.50	20.50
b	mm	22.3	25.4	28.6	31.8	35	36.6	41.3	47.6	50.8
	in	0.88	1.00	1.12	1.25	1.38	1.44	1.62	1.88	2.00
n-d1 (mm)		8-ø19	8-ø22	8-ø22	8-ø22	8-ø22	12-ø22	12-ø25	16-ø29	16-ø32
H (mm)		342	392	435	495	580	664	842	1034	1130
W		200	200	250	300	300	350	400	450	505
WT (kg)		27	39	50	74	92	128	211	314	433



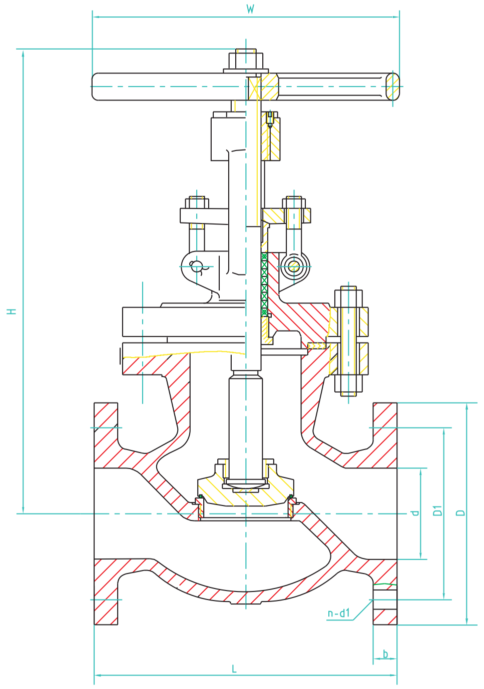


FIG. 5725RF

OS&Y, Rising Stem, Plug Disc
Bolted Bonnet, Rolled–in Disc Ring

STANDARD COMPLIANCE:
Basic Design: MSS SP–85
Face to Face Dimension: ANSI B16.10
End Flange Dimension: ANSI B16.1
Inspection & Test: MSS SP–85

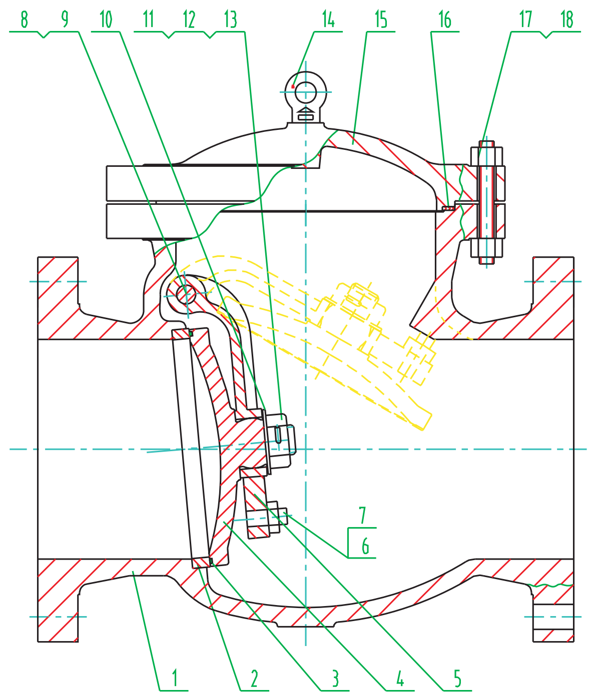
Other Special Requirements shall be on request

■Main Parts Material

Item	Part Name	Material			
		GREY IRON		DUCTILE IRON	
1	Body	ASTM A126 CL B	ASTM A126 CL B	ASTM A536	ASTM A536
2	Seat Ring	ASTM B62	13CR	ASTM B62	13CR
3	Disc	ASTM A126 CL B	ASTM A126 CL B	ASTM A536	ASTM A536
4	Disc Seal Ring	ASTM B62	13CR	ASTM B62	13CR
5	Gasket	GRAPHITE + STEEL			
6	Bonnet	ASTM A126 CL B	ASTM A126 CL B	ASTM A536	ASTM A536
7	Bonnet Bolt	ASTM A307			
8	Bonnet Nut	CARBON STEEL			
9	Back Seat	ASTM B16	13CR	ASTM B16	13CR
10	Packing	GRAPHITE			
11	Gland Eye Bolt	CARBON STEEL			
12	Gland Nut	CARBON STEEL			
13	Pin	CARBON STEEL			
14	Packing Gland	ASTM A307			
15	Gland Follower	ASTM A536			
16	Stem Nut	Mn-BRASS			
17	Screw	CARBON STEEL			
18	Handwheel	ASTM A126 CL B			
19	Washer	CARBON STEEL			
20	Handwheel Nut	ASTM A536			
21	Stem	ASTM B16	13CR	ASTM B16	13CR
22	Disc Cover	CARBON STEEL			

■Dimension and Weight

Figure		6712FF								
NPS	mm	50	65	80	100	125	150	200	250	300
	in	2	2 1/2	3	4	5	6	8	10	12
d	mm	51	64	76	102	127	152	203	254	305
	in	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00
L	mm	203	216	241	292	330	356	495	622	699
(FF)	in	8.00	8.50	9.50	11.50	13.00	14.00	19.50	24.50	27.50
D1	mm	120.7	139.7	152.4	190.5	215.9	241.3	298.5	362	431.8
	in	4.75	5.50	6.00	7.50	8.50	9.50	11.75	14.25	17.00
D	mm	152	178	191	229	254	279	343	406	483
	in	6.00	7.00	7.50	9.00	10.00	11.00	13.50	16.00	19.00
b	mm	15.8	17.5	19	23.9	23.9	25.4	28.5	30.2	31.8
	in	0.62	0.69	0.75	0.94	0.94	1.00	1.12	1.19	1.25
n-d1 (mm)		4-⌀19	4-⌀19	4-⌀19	8-⌀19	8-⌀22	8-⌀22	8-⌀22	12-⌀25	12-⌀25
H (mm)		298	314	333	353	388	427	476	539	612
W		200	200	200	250	300	300	360	450	500
WT (kg)		17	21	28	42	66	80	165	290	402



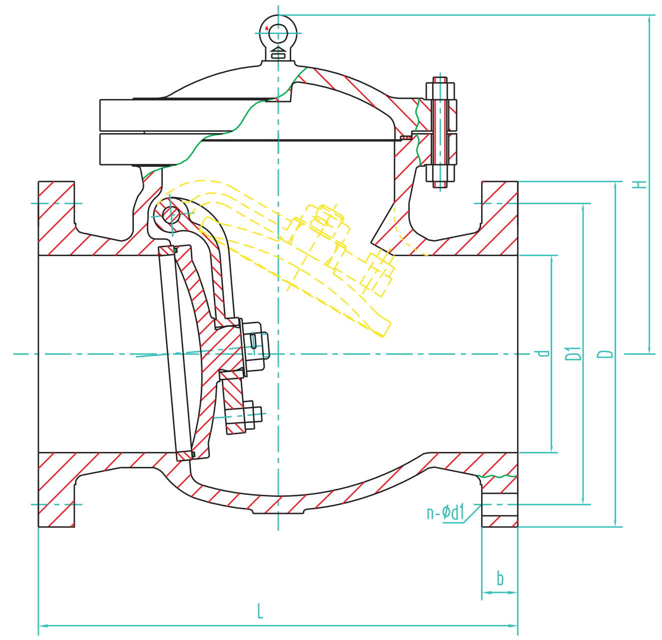


FIG. 7712FF

Swing Disc, Bolted Cover
Rolled–in Disc Ring

STANDARD COMPLIANCE:
Basic Design: MSS SP–71
Face to Face Dimension: ANSI B16.10
End Flange Dimension: ANSI B16.1
Inspection & Test: MSS SP–71

Other Special Requirements shall be on request

■Main Parts Material

Item	Part Name	Material			
		GREY IRON		DUCTILE IRON	
1	Body	ASTM A126 CL B	ASTM A126 CL B	ASTM A536	ASTM A536
2	Seat Ring	ASTM B62	13CR	ASTM B62	13CR
3	Disc Seal Ring	ASTM B62	13CR	ASTM B62	13CR
4	Disc	ASTM A126 CL B	ASTM A126 CL B	ASTM A536	ASTM A536
5	Hinge	ASTM A216 WCB			
6	Adjusting Screw	CARBON STEEL			
7	Nut	CARBON STEEL			
8	Hinge Pin	13CR			
9	Plug	ASTM A536			
10	Washer	CARBON STEEL			
11	Disc Nut	CARBON STEEL			
12	Disc Stud	CARBON STEEL			
13	Split Pin	SS304			
14	Eye Screw	CARBON STEEL			
15	Cover	ASTM A126 CL B	ASTM A126 CL B	ASTM A536	ASTM A536
16	Gasket	GRAPHITE+STEEL			
17	Bolt	ASTM A307			
18	Nut	CARBON STEEL			

■Dimension and Weight

Figure		7712FF															
NPS	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	750	800
	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	30	32
d	mm	51	63.5	76	102	127	152	203	254	305	356	406	457	508	610	762	800
	in	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	24.00	30.00	36.00
L (FF)	mm	203	216	241	292	330	356	495	622	699	787	914	914	1016	1219	1327	1359
	in	8.00	8.50	9.50	11.50	13.00	14.00	19.50	24.50	27.50	31.00	36.00	36.00	40.00	48.00	52.25	53.50
D1	mm	120.7	139.7	152.4	190.5	215.9	241.3	298.5	362	431.8	476.3	539.8	577.9	635	749.3	914.4	977.9
	in	4.75	5.50	6.00	7.50	8.50	9.50	11.75	14.25	17.00	18.75	21.25	22.75	25.00	29.50	36.00	38.50
D	mm	152	178	191	229	254	279	343	406	483	533	597	635	699	813	984	1060
	in	6.00	7.00	7.50	9.00	10.00	11.00	13.50	16.00	19.00	21.00	23.50	25.00	27.50	32.00	38.75	41.75
b	mm	15.8	17.5	19	23.9	23.9	25.4	28.5	30.2	31.8	35	36.6	39.6	42.9	47.8	53.9	60
	in	0.62	0.69	0.75	0.94	0.94	1.00	1.12	1.19	1.25	1.38	1.44	1.56	1.69	1.88	2.12	2.36
n-d1 (mm)		4-ø19	4-ø19	4-ø19	8-ø19	8-ø22	8-ø22	8-ø22	12-ø25	12-ø25	12-ø29	16-ø29	16-ø32	20-ø32	20-ø35	28-ø35	28-ø41
H (mm)		153	162	176	220	226	256	298	376	410	444	501	698	742	844	890	940
WT (kg)		17.6	20.5	28	45	60	77	128	199	308	500	680	780	1000	1600	2300	2600

— in line valve co ltd —

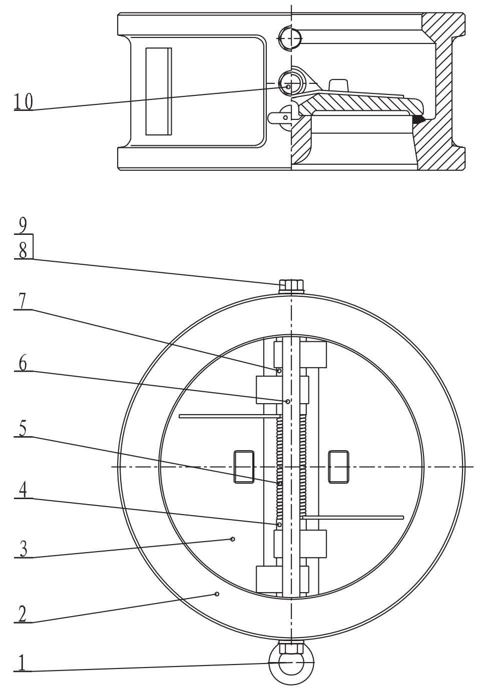
Example: 12 – N5712 FF 03 CI – _ X

1 2 3 4 5 6 7

- 7 — Special Requirements
- 6 — Operation
- 5 — Basic Material
- 4 — Trim
- 3 — Ends
- 2 — Model No.
- 1 — Nominal Size

Description: MSS SP-70 Cast Iron Gate Valve, 12" ANSI Class 125, FF Flanged Ends, Body ASTM A126 CL B, Trim BRONZE ASTM B62, Solid Wedge, Non-Rising Stem, Other special requirements indicated in PO.

1	2	3	4	5	6	7
Size	Model	Ends	Trim	Basic Material	Operation	Special Requirements
02-2"	5712(Cast Iron Gate Valve,Class 125, Rising Stem)	FF(Flat Face)	01(13CR/13CR)	CI-A126 CL B	G-Gear Operator	
25-21/2"	5725(Cast Iron Gate Valve,Class 250, Rising Stem)	RF(Raised Face)	03(BRONZE)	DI-A536	C-Chian Operator	X-Special Requirements should be indicated in the purchase order
03-3"	N5712(Cast Iron Gate Valve,Class 125, Non-Rising)	TR(Threaded)			E-Electric Actuator	
04-4"	6712(Cast Iron Globe Valve, Class 125)				P-Pneumatic Actuator	
05-5"	7712(Cast Iron Swing Check Valve, Class 125)				B-Bare Stem	
06-6"						
08-8"						
10-10"					* Hand Operation is not necessary for this column	
12-12"						
14-14"						
16-16"						
18-18"						
20-20"						
24-24"						
28-28"						
30-30"						
36-36"						



■Main Parts Material

Item	Part Name	Material				
		A216 WCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
1	Hock Bolt	Carbon Steel	SS 304	SS 316	SS 304L	SS 316L
2	Body	A216 WCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
3	Disc	A217 CA15	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
4	Spring Seat	A276 420	SS 304	SS 316	SS 304L	SS 316L
5	Spring	INCONEL X-750				
6	Stop Pin	A276 420	SS 304	SS 316	SS 304L	SS 316L
7	Plate-lug Bearing	A276 420	SS 304	SS 316	SS 304L	SS 316L
8	Retainer	A276 420	SS 304	SS 316	SS 304L	SS 316L
9	Gasket	A276 420	SS 304	SS 316	SS 304L	SS 316L
10	Hinge Pin	A276 420	SS 304	SS 316	SS 304L	SS 316L

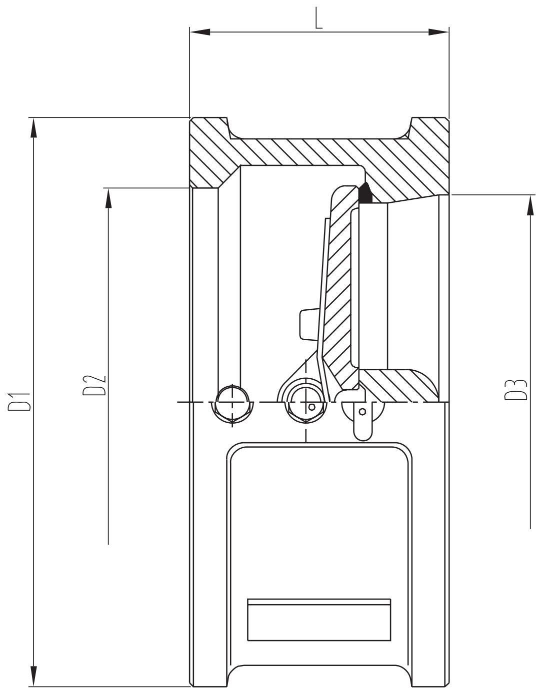


FIG. DH7901

■**Dimension and Weight**

FIGURE NO.	DH7901						
PRESSURE RATE	SIZE		DIMENSION (mm)				WEIGHT (KG)
	NPS	DN	L	D1	D2	D3	
CLASS 150LB	2	50	60	103	56	51	2
	2 1/2	65	67	122	73	65	3
	3	80	73	135	88	80	4
	4	100	73	173	108	102	6
	5	125	86	195	132	127	8
	6	150	98	220	160	152	13
	8	200	127	277	210	203	25
	10	250	146	337	266	254	39
	12	300	181	407	310	305	54
	14	350	184	448	355	350	80
	16	400	191	512	405	400	117
	18	450	203	547	455	450	138
	20	500	219	604	505	500	163
	24	600	222	715	605	600	331
	28	700	305	773	700	700	380
	30	750	305	824	750	746	425
	32	800	305	878	800	796	560
	36	900	368	983	910	898	640
	42	1050	432	1142	1055	1050	960
	48	1200	524	1302	1205	1200	1400

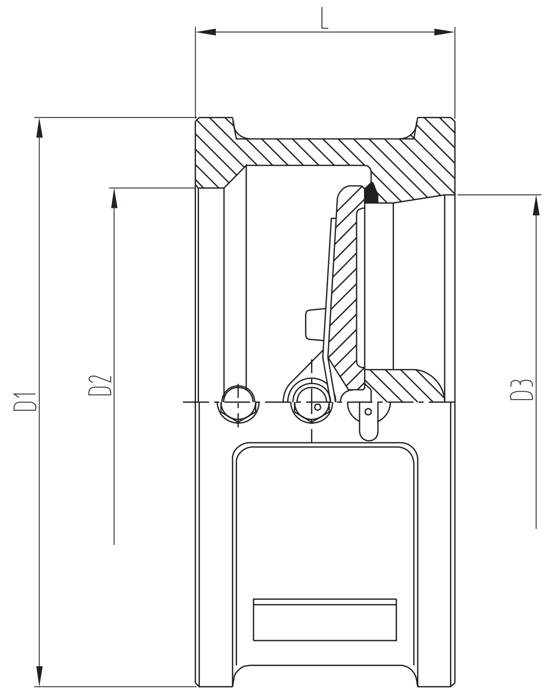


FIG. DH7903

■**Dimension and Weight**

FIGURE NO.	DH7903						
PRESSURE RATE	SIZE		DIMENSION (mm)				WEIGHT (KG)
	NPS	DN	L	D1	D2	D3	
CLASS 300LB	2	50	60	110	58	51	3
	2 1/2	65	67	128	73	65	4
	3	80	73	147	88	80	6
	4	100	73	179	108	102	8
	5	125	86	214	132	127	15
	6	150	98	249	160	152	18
	8	200	127	305	210	203	31
	10	250	146	359	266	254	51
	12	300	181	420	310	305	77
	14	350	222	483	355	350	117
	16	400	232	537	405	400	190
	18	450	264	594	455	450	200
	20	500	292	652	505	500	265
	24	600	318	772	608	600	410
	30	750	368	882	740	735	660
	36	900	483	1044	880	873	1020
	42	1050	568	1196	1045	1035	1540
	48	1200	629	1365	1190	1179	2260

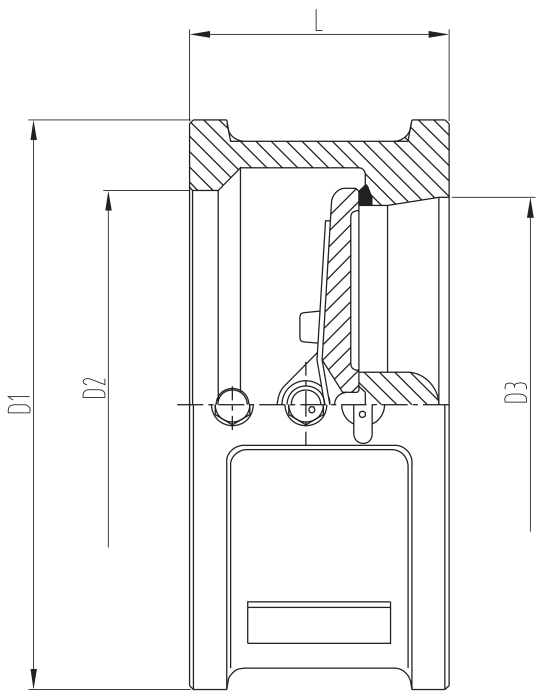


FIG. DH7906

■Dimension and Weight

FIGURE NO.	DH7906						
PRESSURE RATE	SIZE		DIMENSION (mm)				WEIGHT (KG)
	NPS	DN	L	D1	D2	D3	
CLASS 600LB	2	50	60	110	58	51	4
	2 1/2	65	67	128	73	65	5
	3	80	73	147	88	80	8
	4	100	79	191	108	102	11
	5	125	105	239	136	127	20
	6	150	136	264	162	152	26
	8	200	165	318	212	200	55
	10	250	213	398	266	250	95
	12	300	229	455	312	305	140
	14	350	273	490	355	337	223
	16	400	305	562	400	387	360
	18	450	362	610	450	438	395
	20	500	368	680	500	489	518
	24	600	438	786	600	591	836

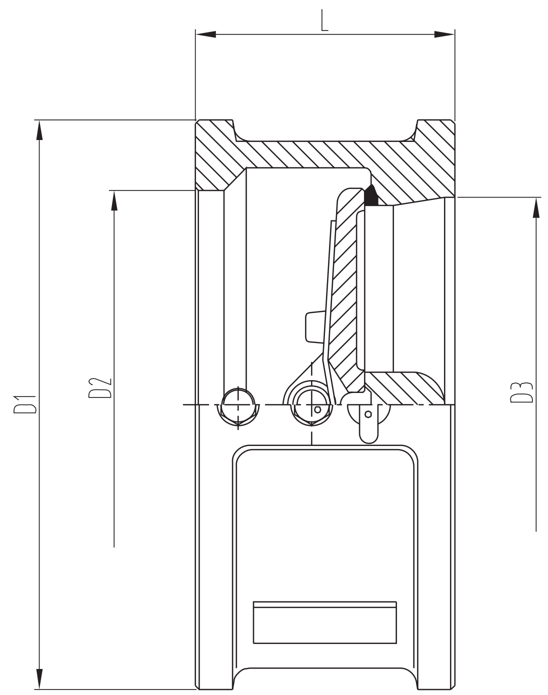


FIG. DH7909

■Dimension and Weight

FIGURE NO.	DH7909						
PRESSURE RATE	SIZE		DIMENSION (mm)				WEIGHT (KG)
	NPS	DN	L	D1	D2	D3	
CLASS 900LB	2	50	70	140	58	51	8
	2 1/2	65	83	162	73	65	11
	3	80	83	165	90	80	14
	4	100	102	204	108	102	20
	5	125	110	245	136	127	30
	6	150	159	286	162	150	42
	8	200	206	356	212	200	84
	10	250	241	432	266	250	145
	12	300	292	495	312	305	220
	14	350	356	518	355	337	350
	16	400	384	572	400	387	470
	18	450	451	635	450	438	605
	20	500	451	695	496	487	820
	24	600	495	835	600	591	1050

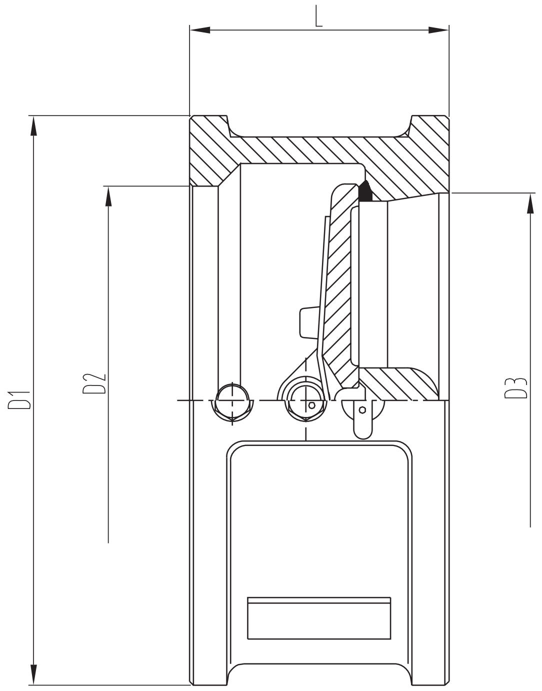


FIG. DH7915

Example: 12 – DH7903 RF 02 C – X

1 2 3 4 5 6

- 6 — Special Requirements
- 5 — Basic Material
- 4 — Trim
- 3 — Ends
- 2 — Model No.
- 1 — Nominal Size

Description: API594 Wafer Check Valve, 12" ANSI Class 300, RF Flanged Ends, Body ASTM A216 WCB, Disc ASTM A351 CF8, Seat SS304, Other special requirements indicated in PO.

■**Dimension and Weight**

FIGURE NO.	DH7915						
PRESSURE RATE	SIZE		DIMENSION (mm)				WEIGHT (KG)
	NPS	DN	L	D1	D2	D3	
CLASS 1500LB	2	50	70	140	58	51	8
	2 1/2	65	83	162	73	65	11
	3	80	83	172	90	80	19
	4	100	102	207	108	102	26
	5	125	110	252	136	127	51
	6	150	159	280	162	150	68
	8	200	206	350	212	200	130
	10	250	248	433	266	254	210
	12	300	305	518	312	305	384
	14	350	356	576	355	337	550
	16	400	384	639	400	387	635

1	2	3	4	5	6
Size	Model	Ends	Trim(Disc/Seat)	Basic Material	Special Requirements
02-2"	DH7901(API 594 Wafer Check Valve, Class 150)	RF(Raised Face)	01(13%Cr/13%Cr)	C-A216 WCB	X-Special Requirements should be indicated in the purchase order
25-21/2"	DH7903(API 594 Wafer Check Valve, Class 300)	RJ(Ring Type Joint)	02(CF8/SS304)	P-A351 CF8	
03-3"	DH7906(API 594 Wafer Check Valve, Class 600)	FF(Flat Face)	04(CF3/SS304L)	Q-A351 CF3	
04-4"	DH7909(API 594 Wafer Check Valve, Class 900)		06(CF3M/SS316L)	L-A351 CF3M	
05-5"	DH7915(API 594 Wafer Check Valve, Class 1500)		08(13%Cr/HF)	R-A351 CF8M	
06-6"			10(CF8M/SS316)		
08-8"			11(CF8/HF)		
10-10"			12(CF8M/HF)		
12-12"			20(Metal/Soft)		
14-14"					
16-16"					
18-18"					
20-20"					
24-24"					
28-28"					
30-30"					
32-32"					
36-36"					
42-42"					
48-48"					