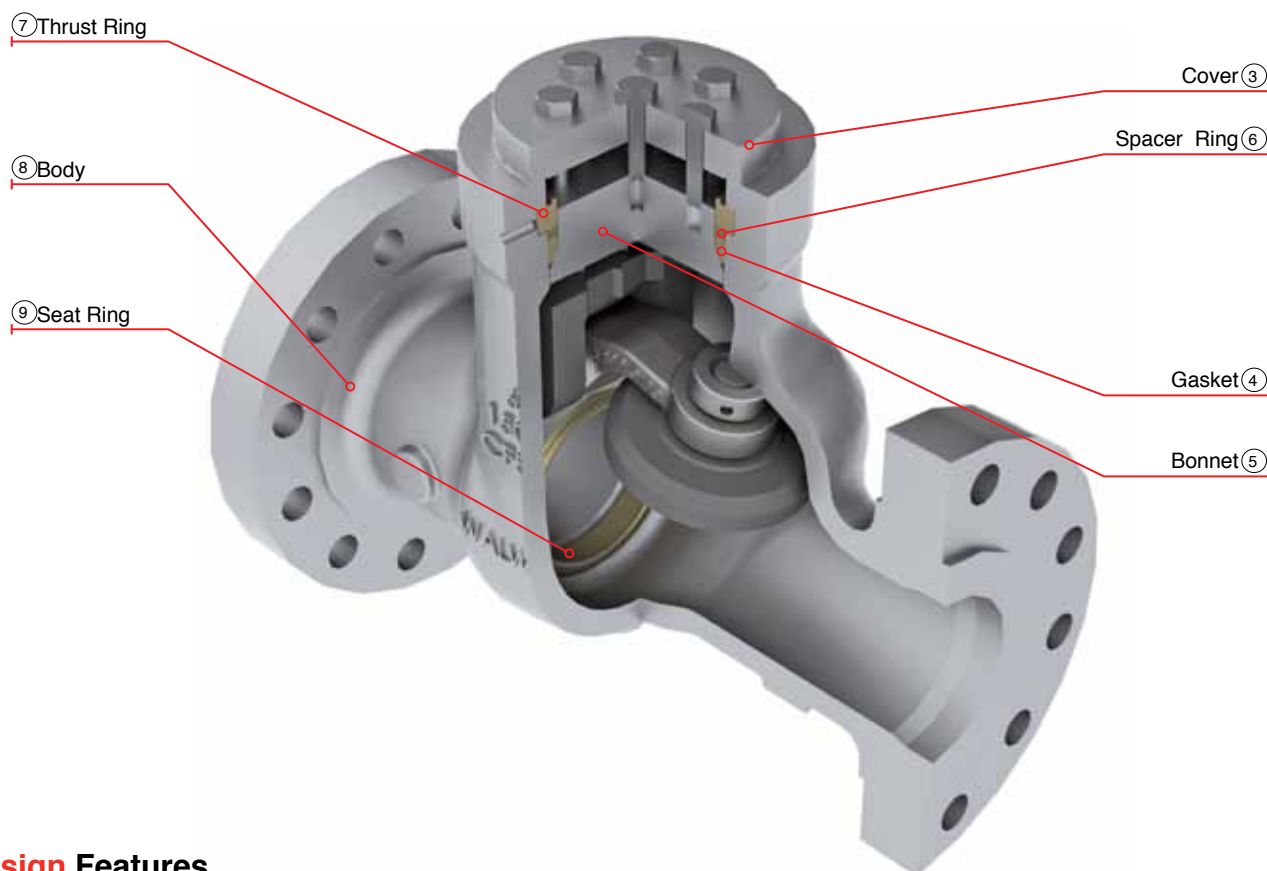


WALWORTH PRESSURE SEAL SWING CHECK VALVES

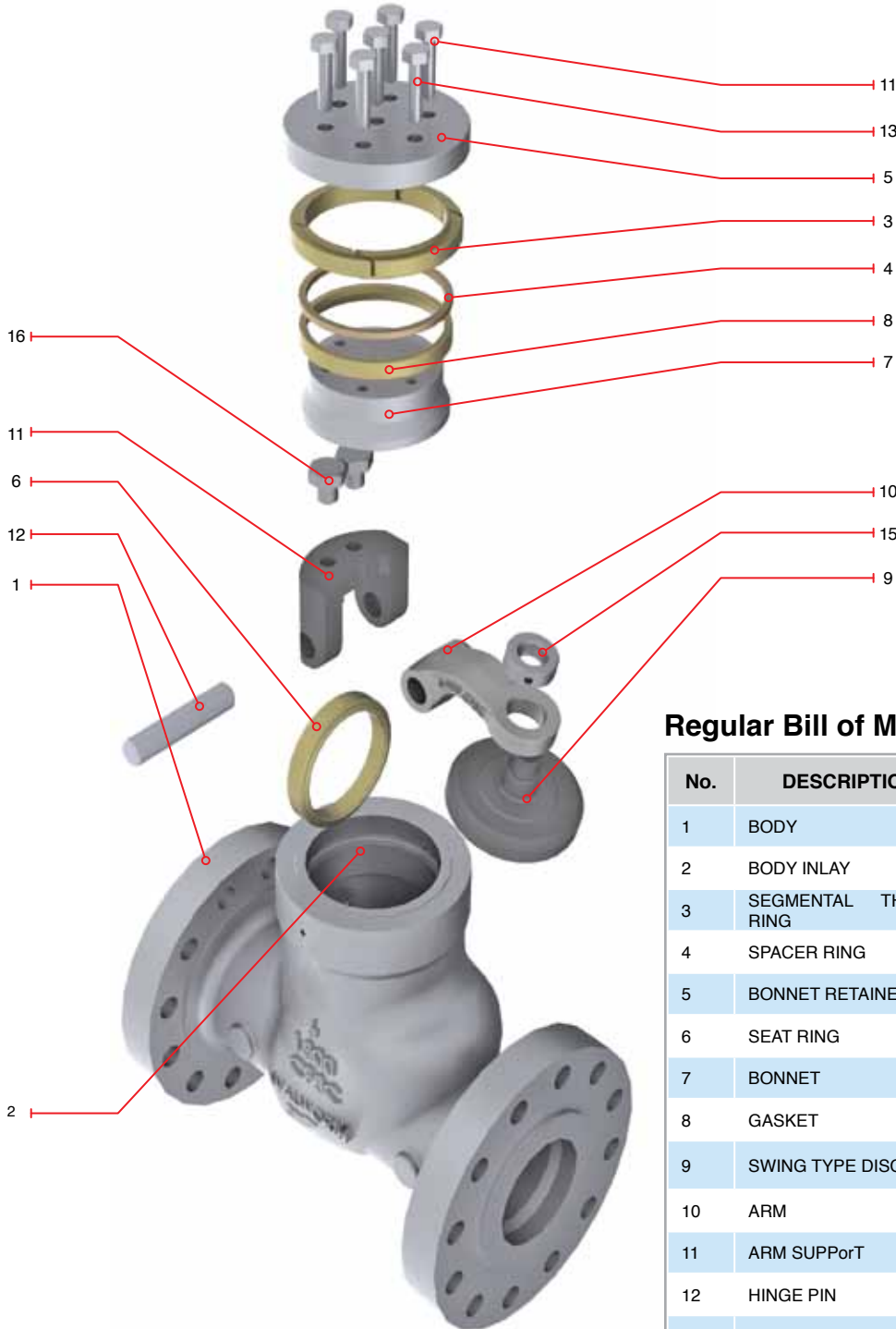


Design Features

- ① Design in accordance with ASME B16.34.
- ② Designed to close quickly and quietly.
- ③ Cover retainer is used to help by tightening the retainer bolt/nuts to seal bonnet-bonnet gasket against body inlay.
- ④ Pressure seal gasket made from soft carbon steel (silver plated) or stainless steel for corrosion resistance and avoid galling. The angular relationship in between pressure seal gasket and body utilize forces generated by pressure line to increase gasket sealing effect and long life service. Graphite gasket is available upon request.
- ⑤ Bonnet encapsulated inside the upper side of the body is designed with precision machined sealing surfaces to fit against pressure seal gasket surface to utilize forces coming from line pressure to seal the complete set body-bonnet-gasket. Bonnet retains the packing system and incorporate also integral back seat system.
- ⑥ Segmented thrust ring made from hardened steel absorb all internal forces coming from the internal pressure and hold the complete set bonnet-gasket-spacer ring.
- ⑦ Spacer ring prevent deformation when pressures push the complete set bonnet-gasket against segmented thrust ring.
- ⑧ Body made from carbon steel or alloy steel are manufactured with overlay made from stainless steel in a band inside the body where contact is made in between gasket and body to improve a better seal and increase life of sealing area due provided corrosion resistance.
- ⑨ Seat ring with stellite 6 overlay for better sealing service provide wear, abrasion and erosion resistance. Seat ring is welded to the body to provide tight joint.
- ⑩ Sealing areas of the disc with stellite 6 overlay for better operation service. Other sealing surfaces materials can be provided upon request.
- ⑪ Damper and counterweight options also available as per Customer request.
- ⑫ Test in accordance with API-598.
- ⑬ Caution: install this valve in a horizontal position only. Contact Walworth for other installation orientations.

WALWORTH PRESSURE SEAL SWING CHECK VALVES

Following table shows the most common bill of materials for a pressure seal Swing Check valve. There are many other combinations of base material and trim, please refer to other sections of this catalog for additional information.



Regular Bill of Materials

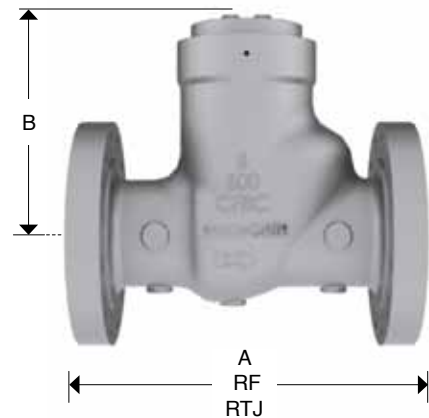
No.	DESCRIPTION	316 STAINLESS STEEL
1	BODY	ASTM A351 GR. CF8M
2	BODY INLAY	INTEGRAL
3	SEGMENTAL THRUST RING	AISI 316
4	SPACER RING	AISI 316
5	BONNET RETAINER	ASTM A-515 GR. 70
6	SEAT RING	INTEGRAL
7	BONNET	ASTM A-351 GR. CF8M
8	GASKET	ASTM A-182 GR. F316
9	SWING TYPE DISC	ASTM A-351 GR. CF8M Co-Cr-W OVERLAY
10	ARM	ASTM A351 GR. CF8M
11	ARM SUPPORt	ASTM A351 GR. CF8M
12	HINGE PIN	ASTM A276 GR 316
13	BONNET STUD	ASTM A-193 GR. B8 CLASS 2
14	BONNET NUT	ASTM A-194 GR. 8
15	DISC NUT	ASTM A-276 GR. 316
16	HEX SCREW	ASTM A-276 GR. 316

WALWORTH PRESSURE SEAL SWING CHECK VALVES CLASS 600

Design Features

- Design in accordance with ASME B16.34.
- WE short pattern; RF & RTJ long pattern as per ASME B16.10.
- Swing type disc.
- End to end dimensions as per ASME B16.10.
- Flange dimensions as per ASME B16.5.
- Weld end dimensions as per ASME B16.25.

Catalog figure No.	ID plant figure No.	Type of ends
5350PSSCWE	5350PSSCWE	Buttweld
5350PSSCRF	5350PSSCF	Flanged raised face
5350PSSCRTJ	5350PSSCRJ	Flanged ring type joint



Dimensions and Weights

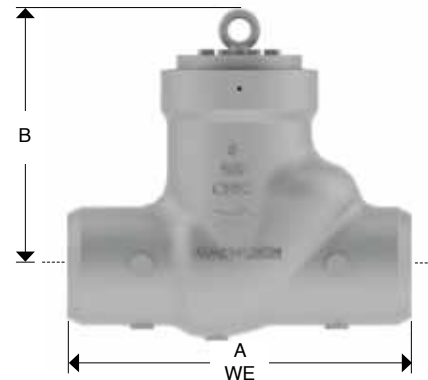
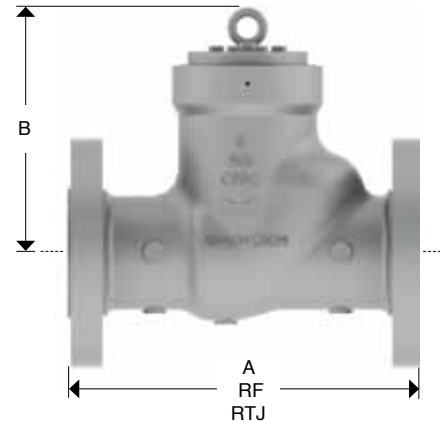
D Nominal diameter		in	2	2.5	3	4	6	8	10	12	14	16	18	20	24
		mm	51	63	76	102	152	203	254	305	356	406	457	508	607
A	End to end WE	in	8.5	8.5	10	12	18	23	28	32	35	39	43	47	55
		mm	216	216	254	305	457	584	711	813	889	991	1092	1194	1397
A	Face to face RF	in	11.5	13	14	17	22	26	31	33	35	39	43	47	55
		mm	292	330	356	432	559	660	787	838	889	991	1092	1194	1397
A	Face to face RTJ	in	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38
		mm	295	333	359	435	562	663	790	841	892	994	1095	1200	1407
B	Center to top (open)	in	7.5	7.5	7.5	8.5	9.5	12	15	17	18	16	24	26	31
		mm	191	191	191	216	241	305	381	432	457	406	610	660	787
WE	Weight	lbs	68	73	77	130	271	508	810	1294	PCR	PCR	PCR	PCR	PCR
		Kg	31	33	35	59	123	231	368	588	PCR	PCR	PCR	PCR	PCR
RF or RTJ	Weight	lbs	86	99	110	205	431	737	1164	1723	PCR	PCR	PCR	PCR	PCR
		Kg	39	45	50	93	196	335	529	783	PCR	PCR	PCR	PCR	PCR
Cv	Flow coefficient		106	170	248	454	1019	1800	2808	3936	4767	6323	7989	9079	13396

WALWORTH PRESSURE SEAL SWING CHECK VALVES CLASS 900

Catalog figure No.	ID plant figure No.	Type of ends
5353PSSCWE	5353PSSCWE	Buttweld
5353PSSCRF	5353PSSCF	Flanged raised face
5353PSSCRTJ	5353PSSCRJ	Flanged ring type joint

Design Features

- Design in accordance with ASME B16.34.
- WE short pattern; RF & RTJ long pattern as per ASME B16.10.
- Swing type disc.
- End to end dimensions as per ASME B16.10.
- Flange dimensions as per ASME B16.5.
- Weld end dimensions as per ASME B16.25.



Dimensions and Weights

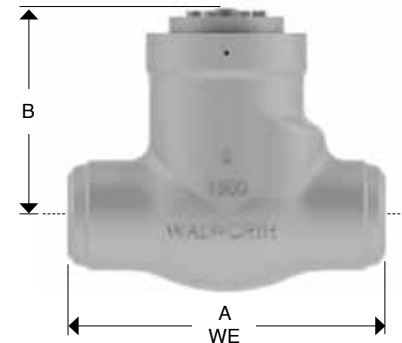
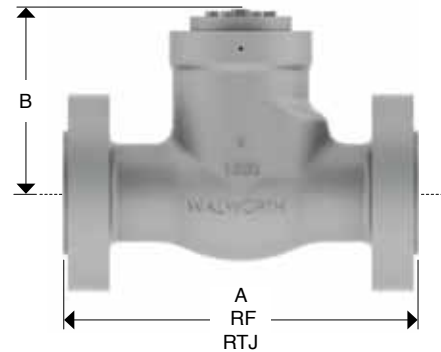
D Nominal diameter		in	2	2.5	3	4	6	8	10	12	14	16	18	20	24
		mm	51	63	76	102	152	203	254	305	356	406	457	508	607
A	End to end WE	in	10	10	12	14	20	26	31	36	39	43	48	52	61
		mm	254	254	305	356	508	660	787	914	991	1092	1219	1321	1549
A	Face to face RF	in	14.5	16.5	15	18	24	29	33	38	40.5	44.5	48	52	61
		mm	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549
A	Face to face RTJ	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88	48.5	52.5	61.75
		mm	371	422	384	460	613	740	841	968	1038	1140	1232	1334	1568
B	Center to top (open)	in	8	8	8	9	11	14	16	18	20	22	25	29	33
		mm	203	203	203	229	279	356	406	457	508	559	635	737	838
WE	Weight	lbs	79	90	95	161	385	711	1283	1848	PCR	PCR	PCR	PCR	PCR
		Kg	36	41	43	73	175	323	583	840	PCR	PCR	PCR	PCR	PCR
RF or RTJ	Weight	lbs	123	152	167	266	605	1054	1771	2499	PCR	PCR	PCR	PCR	PCR
		Kg	56	69	76	121	275	479	805	1136	PCR	PCR	PCR	PCR	PCR
Cv	Flow coefficient		106	170	219	410	933	1624	2271	3242	3959	5227	6681	8320	10527

WALWORTH PRESSURE SEAL SWING CHECK VALVES CLASS 1500

Catalog figure No.	ID plant figure No.	Type of ends
5356PSSCWE	5356PSSCWE	Buttweld
5356PSSCRF	5356PSSCF	Flanged raised face
5356PSSCRTJ	5356PSSCRJ	Flanged ring type joint

Design Features

- Design in accordance with ASME B16.34.
- WE short pattern; RF & RTJ long pattern as per ASME B16.10.
- Swing type disc.
- End to end dimensions as per ASME B16.10.
- Flange dimensions as per ASME B16.5.
- Weld end dimensions as per ASME B16.25.



Dimensions and Weights

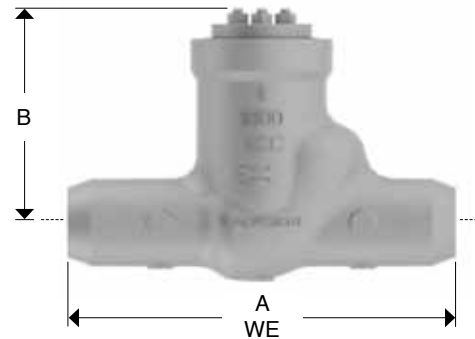
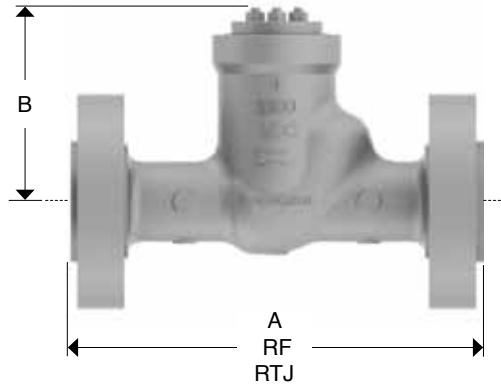
D Nominal diameter		in	2	2.5	3	4	6	8	10	12	14	16	18	20	24
		mm	51	63	76	102	152	203	254	305	356	406	457	508	607
A	End to end WE	in	8.5	10	12	16	22	28	34	39	42	47	52	56	58
		mm	216	254	305	406	559	711	864	991	1067	1194	1321	1422	1473
A	Face to face RF	in	14.5	16.5	18.5	21.5	27.75	32.75	39	44.5	49.5	54.5	60.5	65.5	76.5
		mm	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	1943
A	Face to face RTJ	in	14.62	16.62	18.62	21.62	28	33.13	39.38	45.12	50.25	55.38	61.38	66.38	77.62
		mm	371	422	473	549	711	842	1000	1146	1276	1407	1559	1686	1972
B	Center to top (open)	in	8	8	8	9	11	14	16	19	21	23	26	30	35
		mm	203	203	203	229	279	356	406	483	533	584	660	762	889
WE	Weight	lbs	81	90	95	167	396	748	1434	2053	PCR	PCR	PCR	PCR	PCR
		Kg	37	41	43	76	180	340	652	933	PCR	PCR	PCR	PCR	PCR
RF or RTJ	Weight	lbs	130	163	189	312	726	1267	2306	3386	PCR	PCR	PCR	PCR	PCR
		Kg	59	74	86	142	330	576	1048	1539	PCR	PCR	PCR	PCR	PCR
Cv	Flow coefficient		118	181	244	456	1037	1804	2524	3603	4399	5809	7424	9245	11697

WALWORTH PRESSURE SEAL SWING CHECK VALVES CLASS 2500

Catalog figure No.	ID plant figure No.	Type of ends
5566PSSCWE	5566PSSCWE	Buttweld
5566PSSCRF	5566PSSCF	Flanged raised face
5566PSSCRTJ	5566PSSCRJ	Flanged ring type joint

Design Features

- Design in accordance with ASME B16.34.
- WE short pattern; RF & RTJ long pattern as per ASME B16.10.
- Swing type disc.
- End to end dimensions as per ASME B16.10.
- Flange dimensions as per ASME B16.5.
- Weld end dimensions as per ASME B16.25.



Dimensions and Weights

D Nominal diameter		in	2	2.5	3	4	6	8	10	12	14	16	18	20	24
		mm	51	63	76	102	152	203	254	305	356	406	457	508	607
A	End to end WE	in	11	13	14.5	18	24	30	36	41	44	48	53	56	58
		mm	279	330	368	457	610	762	914	1041	1118	1219	1346	1422	1473
A	Face to face RF	in	8.5	8.5	8.5	11.5	13	16	18	21	23.5	26	29	32	36
		mm	216	216	216	292	330	406	457	533	597	660	737	813	914
A	Face to face RTJ	in	110	118.8	125.4	189.2	479.6	829.4	1399.2	2316.6	2873.2	4510	5011.6	5108.4	11880
		mm	50	54	57	86	218	377	636	1053	1306	2050	2278	2322	5400
B	Center to top (open)	in	106	131	131	218	526	933	1513	2172	2660	3087	3959	4847	7130
		mm	191	191	191	216	241	305	381	432	457	406	610	660	787
WE	Weight	lbs	114	123	130	196	499	862	1454	2409	PCR	PCR	PCR	PCR	PCR
		Kg	52	56	59	89	227	392	661	1095	PCR	PCR	PCR	PCR	PCR
RF or RTJ	Weight	lbs	191	233	295	449	920	1507	2422	4257	PCR	PCR	PCR	PCR	PCR
		Kg	87	106	134	204	418	685	1101	1935	PCR	PCR	PCR	PCR	PCR
Cv	Flow coefficient		101	162	237	433	971	1715	2675	3749	4540	6022	7609	8647	12759