

Flanged Type BFR

Double flanged design. Permits installation in a piping system in same manner as any conventional double flanged valve, ie studs and nuts per flange.

Retainerless

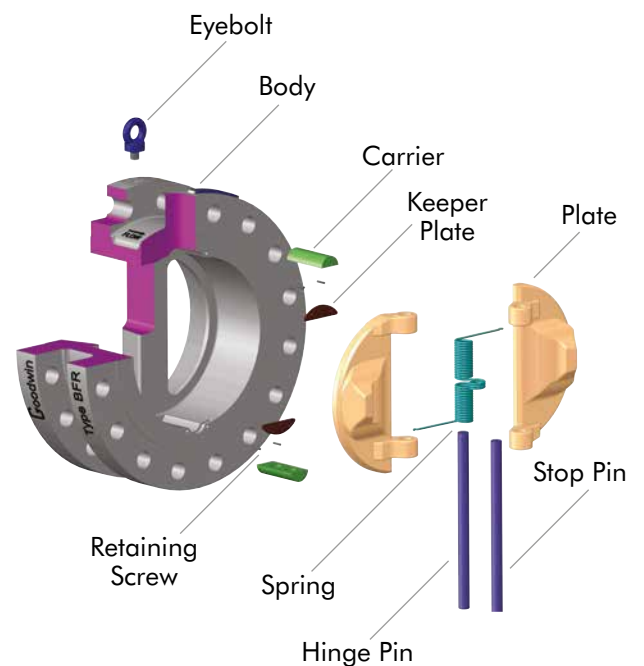
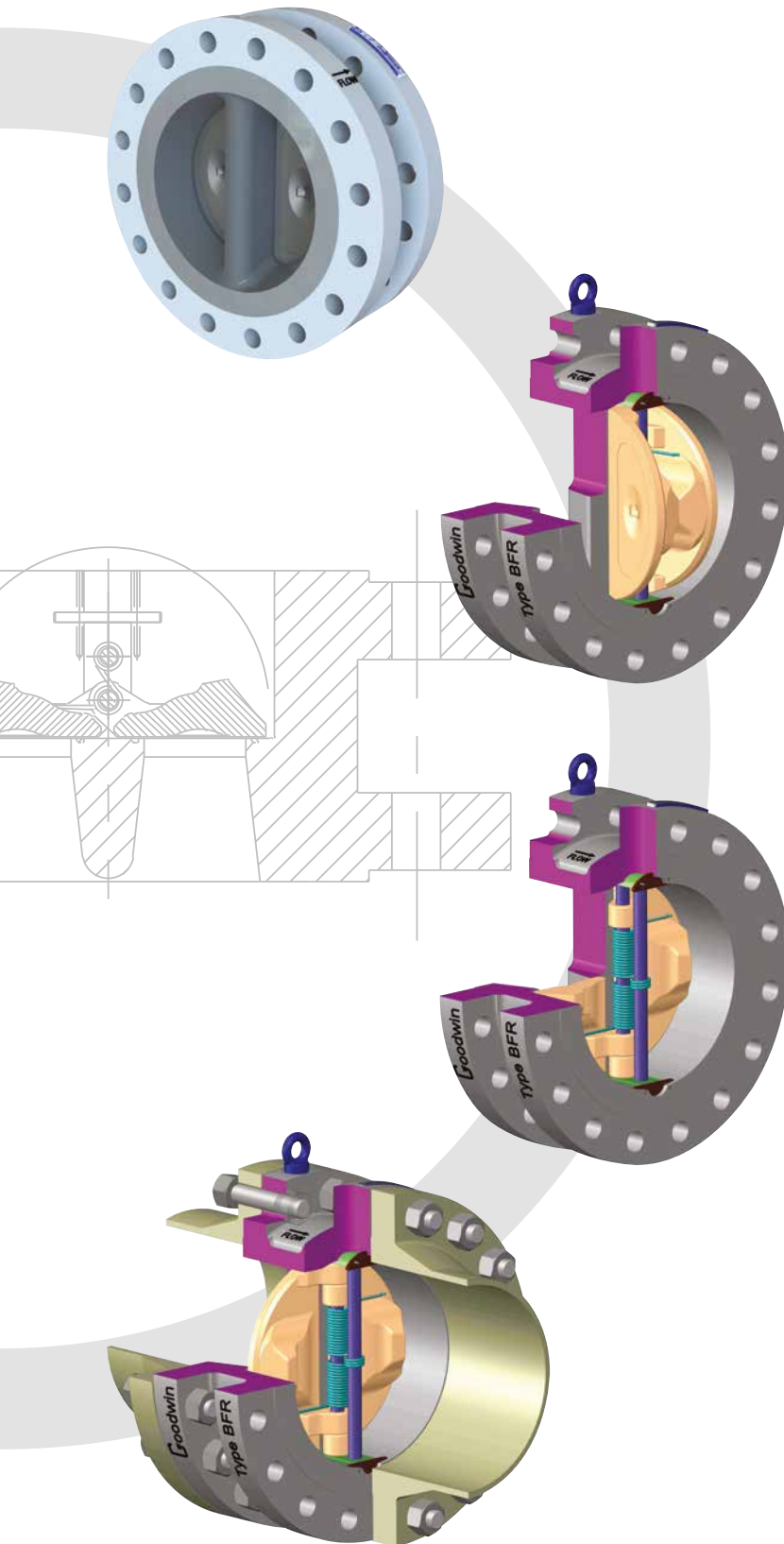
- Retainerless is standard in Goodwin Check Valves

API 594

- Designed in accordance with API 594 / API 6D
- Face-to-face dimensions to API 594

Unique Plate Design

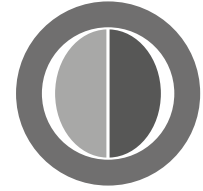
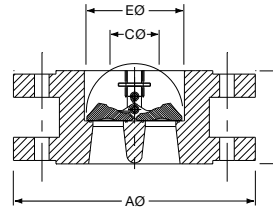
- Pressure sensitive plate
- Improved flow efficiencies
- Total Life Cycle Costs reduced
- Superior metal-to-metal sealing
- High degree of shut-off



Type BFR

Installation Dimensions

ASME B16.5



Size inches	Pressure Rating ASME	End Facing	A	B	C	E	HOLE P.C.D. mm	HOLE DIA. mm	STUD SELECTION			† Valve Weight kg
			mm	mm	mm	mm			No. §	DIA. inches	*Length mm	
8 (200mm)	150	RF	343	127	171	207	298.5	22.2	8	3/4	140	49
	600	RF/RJ-53	508	213	200	260	431.8	34.9	16	1 1/4	245	183
	900	RF/RJ-53	546	241	195	260	469.9	38.1	16	1 3/8	265	203
12 (300mm)	150	RF	483	181	260	300	431.8	25.4	12	7/8	150	115
	300	RF	521	181	260	300	450.8	31.8	16	1 1/8	205	153
	600	RF/RJ-57	559	229	232	300	489.0	34.9	20	1 1/4	255	230
	900	RF/RJ-57	610	292	206	300	533.4	38.1	20	1 3/8	285	354
14 (350mm)	150	RF	533	184	286	339	476.3	28.6	12	1	165	142
	300	RF	584	222	286	339	514.4	31.8	20	1 1/8	210	166
	600	RF/RJ-61	603	273	232	339	527.0	38.1	20	1 3/8	265	313
	900	RF/RJ-62	641	356	0	339	558.8	41.3	20	1 1/2	310	463
16 (400mm)	150	RF	597	191	332	387	539.8	28.6	16	1	170	176
	300	RF	648	232	330	387	571.5	34.9	20	1 1/4	220	301
	600	RF/RJ-65	686	305	330	387	603.2	41.3	20	1 1/2	285	426
	900	RF/RJ-66	705	384	162	387	616.0	44.5	20	1 5/8	325	596
18 (450mm)	150	RF	635	203	395	438	577.9	31.8	16	1 1/8	180	210
	300	RF	711	264	391	438	628.6	34.9	24	1 1/4	230	392
	600	RF/RJ-69	743	362	330	438	654.0	44.5	20	1 5/8	305	565
	900	RF/RJ-70	787	451	244	438	685.8	50.8	20	1 7/8	365	859
20 (500mm)	150	RF	699	219	438	487	635.0	31.8	20	1 1/8	190	284
	300	RF	775	292	438	487	685.8	34.9	24	1 1/4	240	497
	600	RF/RJ-73	813	368	432	487	723.9	44.5	24	1 5/8	325	744
	900	RF/RJ-74	857	451	406	487	749.3	54.0	20	2	385	1045
24 (600mm)	150	RF	813	222	537	579	749.3	35.0	20	1 1/4	205	371
	300	RF	914	318	524	579	812.8	41.3	24	1 1/2	265	777
	600	RF/RJ-77	940	438	510	579	838.2	50.8	24	1 7/8	365	1166
	900	RF/RJ-78	1041	495	445	579	901.7	66.7	20	2 1/2	485	1826

Type BFR (Small Diameter - Extended Body - Non API 594) ASME B16.5

Size inches	Pressure Rating ASME	End Facing	A	B	C	E	HOLE P.C.D. mm	HOLE DIA. mm	STUD SELECTION			† Valve Weight kg
			mm	mm	mm	mm			No. §	DIA. inches	*Length mm	
2 (50mm)	150	RF	152	114	0	57	120.7	19.1	4	5/8	105	7
	300	RF	165	114	0	57	127.0	19.1	8	5/8	110	9
3 (80mm)	150	RF	191	121	51	87	152.4	19.1	4	5/8	110	11
	300	RF	210	121	51	87	168.3	22.2	8	3/4	130	15
4 (100mm)	150	RF	229	121	89	113	190.5	19.1	8	5/8	110	16
	300	RF	254	121	89	113	200.0	22.2	8	3/4	135	18
6 (150mm)	150	RF	279	130	140	166	241.3	22.2	8	3/4	120	21
	300	RF	318	130	140	166	269.9	22.2	12	3/4	145	27
8 (200mm)	300	RF	381	152	171	207	330.2	25.4	12	7/8	160	48
10 (250mm)	300	RF	445	178	235	260	387.4	28.6	16	1	175	68

* Where Ring Joint Facing shown in End Facing, Stud lengths based on Ring Joint flange connection.

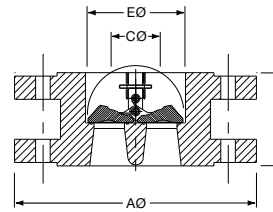
† Weights are for valve only and exclude mating flanges and bolting. Weight will vary according to corrosion allowance specification.

§ Number of studs is per flange, therefore, double the amount for valve installation purposes

Type BFR

Installation Dimensions

ASME B16.47 SERIES A (MSS SP44)



Size inches	Pressure Rating ASME	End Facing	A	B	C	E	HOLE P.C.D. mm	HOLE DIA. mm	STUD SELECTION			† Valve Weight kg
			mm	mm	mm	mm			No. §	DIA. inches	*Length mm	
26 (650mm)	150	RF	870	356	597	629	806.5	34.9	24	1 1/4	245	463
	300	RF	972	356	597	629	876.3	44.5	28	1 5/8	290	1238
	600	RF/RJ-93	1016	457	578	629	914.4	50.8	28	1 7/8	390	977
	900	RF/RJ-100	1086	533	559	629	952.5	73.0	20	2 3/4	510	1991
28 (700mm)	150	RF	927	381	648	680	863.6	35.0	28	1 1/4	255	1025
	300	RF	1035	381	648	680	939.8	44.5	28	1 5/8	305	1120
	600	RF/RJ-93	1073	483	629	680	965.2	54.0	28	2	405	1467
	900	RF/RJ-100	1168	572	610	680	1022.4	79.4	20	3	525	2426
30 (750mm)	150	RF	984	305	641	735	914.4	35.0	28	1 1/4	260	747
	300	RF	1092	368	641	735	997.0	47.6	28	1 3/4	325	1206
	600	RF/RJ-95	1130	505	584	735	1022.4	54.0	28	2	410	1908
	900	RF/RJ-102	1232	635	584	735	1085.9	79.4	20	3	540	3829
32 (800mm)	150	RF	1060	356	641	784	977.9	41.3	28	1 1/2	290	1032
	300	RF	1149	406	641	784	1054.1	50.8	28	1 7/8	345	1615
	600	RF/RJ-96	1194	533	610	784	1079.5	60.3	28	2 1/4	430	1977
	900	RF/RJ-103	1314	660	610	784	1155.7	85.7	20	3 1/4	570	3425
36 (900mm)	150	RF	1168	368	648	865	1085.9	41.3	32	1 1/2	305	1318
	300	RF	1270	483	648	865	1168.4	54.0	32	2	360	1957
	600	RF/RJ-98	1314	635	527	865	1193.8	60.3	28	2 1/2	455	2885
	900	RF/RJ-105	1461	718	356	865	1289.1	92.1	20	3 1/2	615	4354
40 (1000mm)	150	RF	1289	432	883	987	1200.2	41.3	36	1 1/2	305	1560
	300	RF	1238	546	749	909	1155.7	44.5	32	1 5/8	360	3073
	600	RF	1321	660	743	909	1212.9	60.3	32	2 1/4	490	3152
	900	RF	1511	762	737	909	1339.9	92.1	24	3 1/2	630	6688
42 (1050mm)	150	RF	1346	432	935	1062	1257.3	41.3	36	1 1/2	320	2149
	300	RF	1289	568	837	1015	1206.5	44.5	32	1 5/8	370	2876
	600	RF	1403	702	648	972	1282.7	66.7	28	2 1/2	520	3965
	900	RF	1562	787	584	972	1390.7	92.1	24	3 1/2	650	**
48 (1200mm)	150	RF	1511	524	1037	1193	1422.4	41.3	44	1 1/2	340	2904
	300	RF	1467	629	965	1136	1371.6	50.8	32	1 7/8	410	3722
	600	RF	1594	787	889	1136	1460.5	73.0	32	2 3/4	575	5450
54 (1350mm)	150	RF	1683	591	1092	1281	1593.9	47.6	44	1 3/4	380	2790
	300	RF	1657	718	1092	1281	1549.4	60.3	28	2 1/4	470	**
60 (1500mm)	150	RF	1854	660	1207	1422	1759.0	47.6	52	1 3/4	400	6065
	300	RF	1810	838	1207	1422	1701.8	60.3	32	2 1/4	490	**

* Where Ring Joint Facing shown in End Facing, Stud lengths based on Ring Joint flange connection.

† Weights are for valve only and exclude mating flanges and bolting. Weight will vary according to corrosion allowance specification.

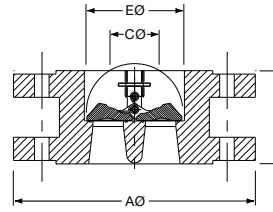
§ Number of studs is per flange, therefore, double the amount for valve installation purposes.

** Apply to Goodwin for details.

Type BFR

Installation Dimensions

ASME B16.47 SERIES B (API 605)



Size inches	Pressure Rating ASME	End Facing	A	B	C	E	HOLE P.C.D. mm	HOLE DIA. mm	STUD SELECTION			† Valve Weight kg
			mm	mm	mm	mm			No. §	DIA. inches	*Length mm	
26 (650mm)	150	RF	786	356	597	629	744.5	22.2	36	3/4	165	906
	300	RF	867	356	597	629	803.3	34.9	32	1 1/4	290	1114
	600	RF/RJ-93	889	457	578	629	806.5	44.5	28	1 5/8	380	1276
	900	RF/RJ-100	1022	533	559	629	901.7	66.7	20	2 1/2	480	1792
28 (700mm)	150	RF	837	381	648	680	795.3	22.2	40	3/4	175	923
	300	RF	921	381	648	680	857.3	34.9	36	1 1/4	290	1008
	600	RF/RJ-94	953	483	629	680	863.6	47.6	28	1 3/4	395	1320
	900	RF/RJ-101	1105	572	610	680	971.6	73.0	20	2 3/4	515	2183
30 (750mm)	150	RF	887	305	641	735	846.1	22.2	44	3/4	175	714
	300	RF	991	368	641	735	920.8	38.1	36	1 3/8	305	1155
	600	RF/RJ-95	1022	505	584	735	927.1	50.8	28	1 7/8	420	1418
	900	RF/RJ-102	1181	635	584	735	1035.1	79.4	20	3	545	3446
32 (800mm)	150	RF	941	356	641	784	900.2	22.2	48	3/4	175	855
	300	RF	1054	406	641	784	977.9	41.3	32	1 1/2	330	**
	600	RF/RJ-96	1086	533	610	784	984.3	54.0	28	2	440	2642
	900	RF/RJ-103	1238	660	610	784	1092.2	79.4	20	3	555	2642
36 (900mm)	150	RF	1057	368	648	865	1009.7	25.4	44	7/8	195	1033
	300	RF	1172	483	648	865	1089.2	44.5	32	1 5/8	340	1794
	600	RF/RJ-98	1213	635	527	865	1104.9	60.3	28	2 1/4	480	2589
	900	RF/RJ-105	1346	718	356	865	1200.2	79.4	24	3	585	**
40 (1000mm)	150	RF	1175	432	883	987	1120.6	28.6	44	1	210	1364
	300	RF	1273	546	749	909	1190.6	44.5	40	1 5/8	365	3380
42 (1050mm)	150	RF	1226	432	935	948	1171.4	28.6	48	1	215	1953
	300	RF	1334	568	837	1015	1244.6	47.6	36	1 3/4	375	4872
48 (1200mm)	150	RF	1392	524	1037	1193	1335.0	31.8	44	1 1/8	235	2475
	300	RF	1511	629	965	1136	1416.1	50.8	40	1 7/8	400	5511
54 (1350mm)	150	RF	1549	591	1092	1281	1492.3	31.8	56	1 1/8	245	2790
	300	RF	1673	718	1092	1281	1577.8	50.8	48	1 7/8	415	**
60 (1500mm)	150	RF	1726	660	1207	1422	1662.2	34.9	52	1 1/4	260	**
	300	RF	1878	838	1207	1422	1763.8	60.3	40	2 1/4	465	**

LARGE DIAMETER VALVES

Size inches	Pressure Rating ASME	End Facing	A	B	C	E	HOLE P.C.D. mm	HOLE DIA. mm	STUD SELECTION			† Valve Weight kg
			mm	mm	mm	mm			No.	DIA. inches	Length mm	
66 - 144 (1650mm - 3600mm)	150	FF	GOODWIN SUPPLY TYPE BFR VALVES IN SIZES 66" TO 144" TO EITHER AWWA C207 FLANGE STANDARD OR CUSTOMER AGREED FLANGE DESIGN									

* Where Ring Joint Facing shown in End Facing, Stud lengths based on Ring Joint flange connection.

† Weights are for valve only and exclude mating flanges and bolting. Weight will vary according to corrosion allowance specification.

§ Number of studs is per flange, therefore, double the amount for valve installation purposes.

** Apply to Goodwin for details.