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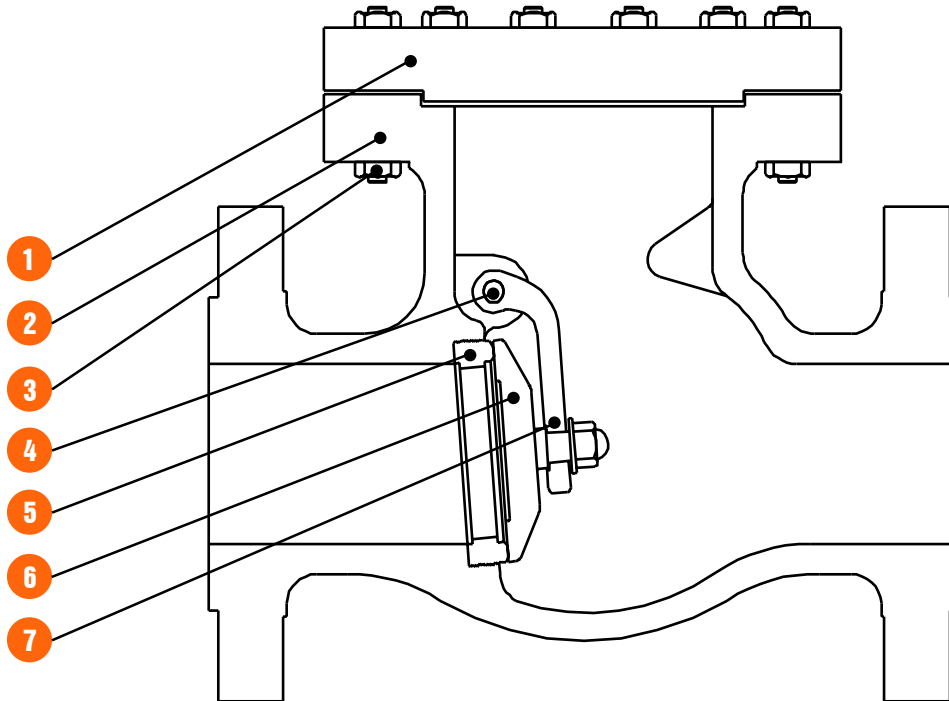
# CHECK VALVES

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## CHECK VALVES

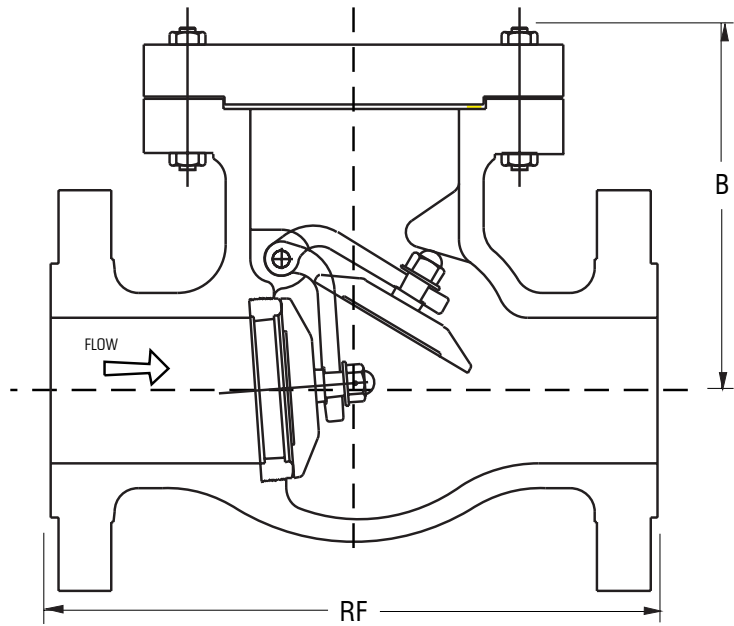
Cast steel, swing type  
disc, bolted body-to-cap  
connection.



1. **CAP.** The cap is in cast steel. The connection sealing surfaces are raised face or ring joint to suit the valve rating, as noted below.
2. **BODY.** The body is in cast steel and is carefully designed to keep pressure drops to a minimum. A wide opening on top of the body permits easy inspection and maintenance. The basic dimensions, i.e. wall thickness, face to face and flanges, comply with the relevant API and ANSI standards. The body-to-cap flange is circular. The seating surfaces for connection to the cap are recessed in the 150 and 300 lb. Class and ring joint in class 600 lb. and above. The body has an integral over-travel stop incorporated for the disc. Two threaded bosses are incorporated to ensure correct alignment of the hinge pin. Bosses are provided for drain taps or by-pass piping.
3. **BONNET BOLTING.** Bonnet studs and nuts are manufactured from alloy steel to the relevant ASTM standard.
4. **HINGE PIN.** The hinge pin which is part of the trim, is forged stainless steel and is machined from ground bar. The hinge pin is centered in the body between two threaded plugs and sealed by metallic gaskets. The pin can be easily removed for maintenance of the valve.
5. **SEAT RING.** The ring is in forged stainless steel and is part of the trim. They are seal welded in place. Special attention is given to the seating face which is ground and lapped, for a perfectly tight seal. Threaded-in seat ring may be supplied upon request.
6. **DISC.** The disc is part of the trim and is in forged stainless steel in diameters up to 6" and in cast steel for larger valves. On the back face there is a threaded stud for attachment to the hinge arm by a nut and split pin. The seating face is ground and lapped.
7. **HINGE.** The hinge is the same material as the valve body.

**150 LB.**

**300 LB.**



**VALVE DIMENSIONS AND WEIGHTS**

		2"	2.5"	3"	4"	5"	6"	8"	10"	12"	14"
<b>150 LB.</b>	End to End <b>RF-BW</b>	8.0	8.5	9.5	11.5	13.0	14.0	19.5	24.5	27.5	31.0
	<b>B- Center to Top</b>	6.45	6.8	7.71	8.03	-	10.19	11.81	13.85	15.11	17.20
	<b>WEIGHTS</b>										
	<b>RF</b>	42.99	50.71	72.75	101.4	136.7	185.2	315.3	496.0	723.1	989.9
	<b>BW</b>	31.96	35.27	50.71	79.36	-	152.1	273.4	438.6	637.2	870.8
		<b>16"</b>	<b>18"</b>	<b>20"</b>	<b>24"</b>	<b>30"</b>	<b>34"</b>	<b>36"</b>	<b>40"</b>	<b>42"</b>	
End to End <b>RF-BW</b>	34.0	38.5	38.5	51.0	60.0	65.0	77.0	77.0	82.0		
<b>B- Center to Top</b>	18.89	20.98	21.85	24.21	30.74	39.4	36.57	-	37.4		
<b>WEIGHTS</b>											
<b>RF</b>	1281	1556	1896	2875	4696	7716	6724	10912	10803		
<b>BW</b>	1128.7	1402	1695	2590	4366	-	-	-	-		
		2"	2.5"	3"	4"	6"	8"	10"	12"		
<b>300 LB.</b>	End to End <b>RF-BW</b>	10.5	11.5	12.5	14.0	17.5	21.0	24.5	28.0		
	End to End <b>RTJ</b>	11.125	12.125	13.125	14.625	18.125	21.625	25.125	28.625		
	<b>B- Center to Top</b>	7.4	7.4	9.17	10.31	11.96	13.70	16.14	17.63		
	<b>WEIGHTS</b>										
	<b>RF</b>	52.91	74.96	99.21	156.5	275.6	463.0	716.5	1056		
	<b>BW</b>	39.68	55.12	72.76	114.6	20.5	379.2	590.9	868.4		
	<b>14"</b>	<b>16"</b>	<b>18"</b>	<b>20"</b>	<b>24"</b>	<b>30"</b>	<b>36"</b>				
End to End <b>RF-BW</b>	33.0	34.0	38.5	40.0	53.0	62.75	82.0				
End to End <b>RTJ</b>	33.625	34.625	39.125	40.75	53.875	-	-				
<b>B- Center to Top</b>	18.66	21.45	23.38	24.37	27.59	37.32	42.99				
<b>WEIGHTS</b>											
<b>RF</b>	1323	1819	2359	2718	4541	8080	11574				
<b>BW</b>	1072	1504	2019	2233	3851	-	-				

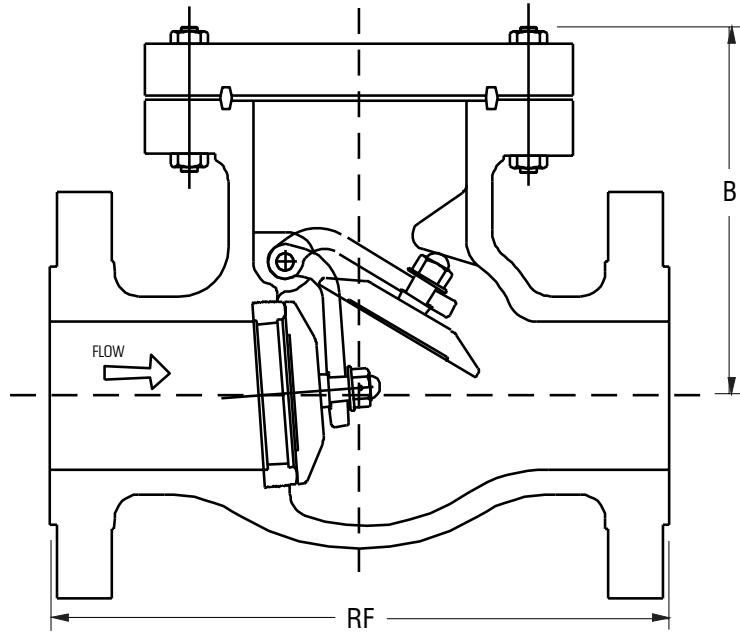
Materials and trim specifications Page 60  
All dimensions are in inches, all weights are in pounds.

End to end dimensions are per ANSI/ASME B16.10 where applicable.

**600 LB.**

**900 LB.**

**1500 LB.**



**VALVE DIMENSIONS AND WEIGHTS**

		2"	2.5"	3"	4"	6"	8"	10"				
<b>600 LB.</b>	End to End <b>RF-BW</b>	11.5	13.0	14.0	17.0	22.0	26.0	31.0				
	End to End <b>RTJ</b>	11.625	13.125	14.125	17.125	22.125	26.125	31.125				
	<b>B</b> - Center to Top	7.95	8.5	9.84	11.85	14.29	17.0	19.60				
	<b>WEIGHTS</b>	74.96	105.8	143.3	253.5	474.0	881.8	1323				
	<b>RF BW</b>	52.92	83.78	119.0	200.6	365.9	736.3	1067.7				
		12"	14"	16"	18"	20"	24"	30"	36"			
<b>900 LB.</b>	End to End <b>RF-BW</b>	33.0	35.0	39.0	43.0	47.0	55.0	65.0	82.0			
	End to End <b>RTJ</b>	33.125	35.125	39.125	43.125	47.25	53.37	-	82.6			
	<b>B</b> - Center to Top	18.0	22.75	25.98	31.14	31.69	35.39	41.1	51.06			
	<b>WEIGHTS</b>	1737	2337	3155	4409	5412	8444	12434	20525			
	<b>RF BW</b>	1448	1995	2624	3818	4596	7414	10560	-			
		3"	4"	6"	8"	10"	12"	14"	16"			
<b>1500 LB.</b>	End to End <b>RF-BW</b>	15.0	18.0	24.0	29.0	33.0	38.0	40.5	44.5			
	End to End <b>RTJ</b>	15.125	18.125	24.125	29.125	33.125	38.125	40.875	44.875			
	<b>B</b> - Center to Top	11.18	13.62	16.3	19.21	22.48	24.05	24.05	32.72			
	<b>WEIGHTS</b>	196.2	359.3	701.1	1208	2138	2822	4104	5071			
	<b>RF BW</b>	152.1	52.9	167.5	229.5	1807	2403	-	-			
		2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"
<b>1500 LB.</b>	End to End <b>RF-BW</b>	14.5	16.5	18.5	21.5	27.75	32.75	39.0	44.5	49.5	54.5	60.5
	End to End <b>RTJ</b>	14.625	16.625	18.625	21.625	28.0	33.125	39.375	45.125	50.25	55.375	61.375
	<b>B</b> - Center to Top	10.0	11.2	13.0	15.7	19.76	23.27	26.97	32.75	31.1	33.5	40.5
	<b>WEIGHTS</b>	158.7	242.5	372.6	661.4	1318	2187	3574	5842	-	7959	10075
	<b>RF BW</b>	121.3	189.6	315.3	579.9	1168.3	1861	3022	5033	-	6449	-

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All dimensions are in inches, all weights are in pounds.

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