

Wafer Dual Check Valves

Series C23

GENERAL INFORMATION

Series C23 wafer dual check valve is a self-operating check valve that is desirable to permit flow in one direction and prevent backflow in the opposite direction. The plates open in case that the upstream pressure exceeds the downstream pressure and the spring elasticity. When the flow velocity upstream decreases or ceases, the spring will automatically close the dual plates prior to flow reversal. This creates a positive shutoff against flow reversal and eliminates system surges and water hammer.

FEATURES

- Short face-to-face dimension
- Lighter weight than conventional full-body check valves
- Low cracking pressure because of double disc design
- The stop shaft stabilizes the plates under high flow rates
- Long leaf springs prevent rubbing of plates on seat

★ Retainerless design eliminates the potential leak path to atmosphere and meets industry fugitive emissions control requirements.

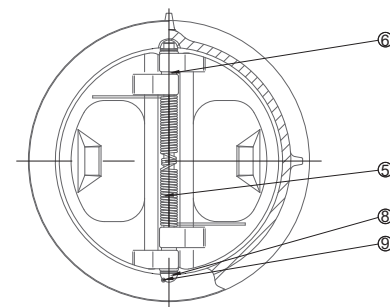
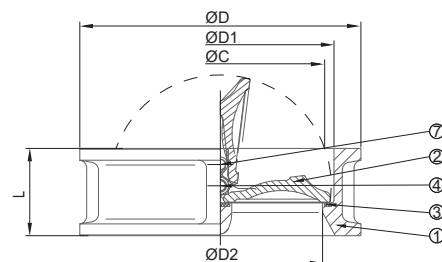


TECHNICAL DATA

Connection	Wafer
Nominal diameter	DN50-DN600
Pressure rating	ANSI CLASS300, ANSI CLASS600, ANSI CLASS900, ANSI CLASS1500
Face to face	API 594
Coating on steel body	Painting system B

PARTS LIST AND MATERIAL SPECIFICATION

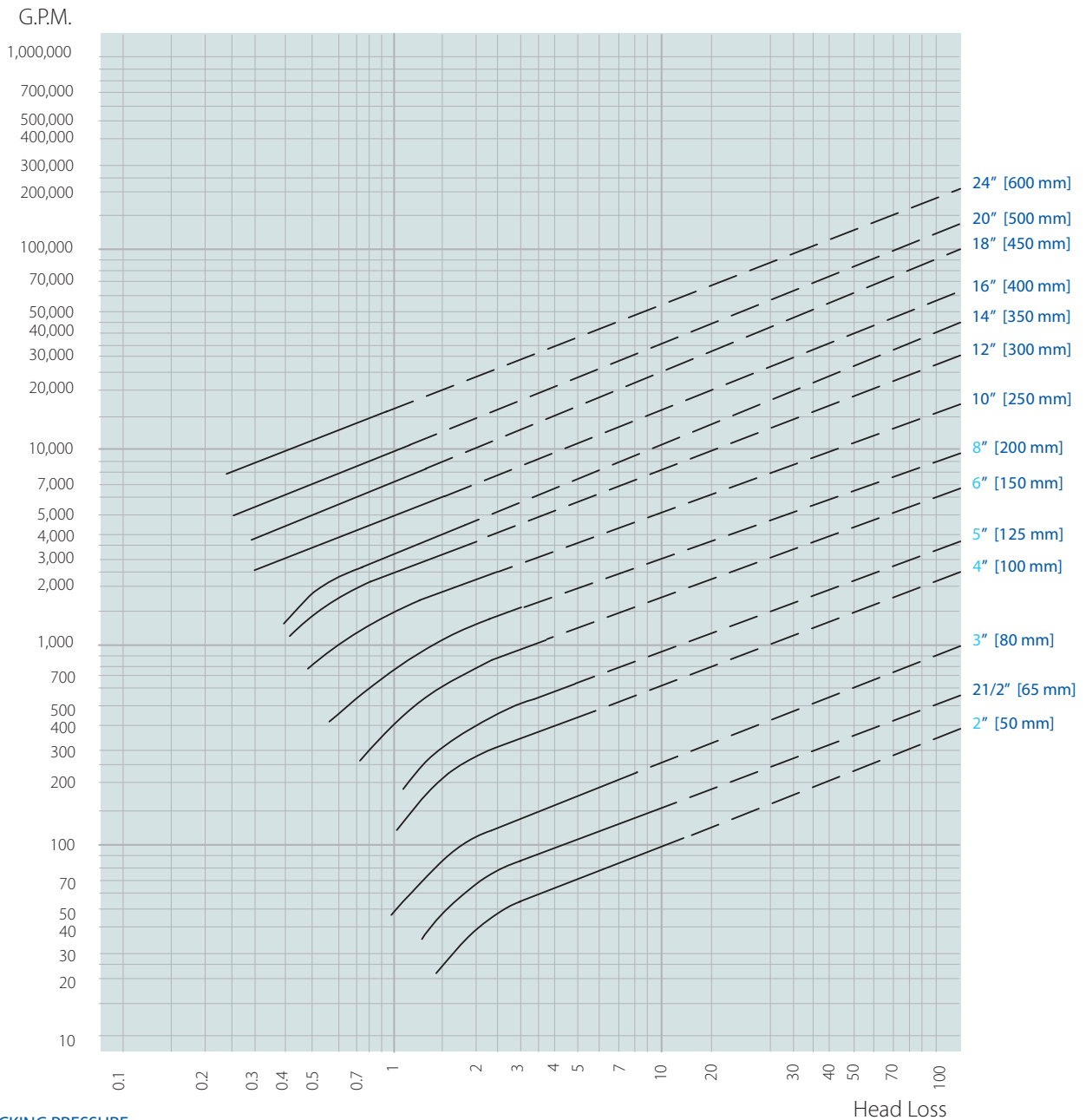
No.	Body	WCB, CF8, CF8M
1	Disc	CF8, CF8M
2	Seat	Cr13, Stellite
3	Stem	SS304, SS316
4	Spring	SS301, SS321
5	Bearing	SS316 for metal seat
6	Stop Pin	SS304, SS316
7	Guide	SS304, SS316
8	Set Screw	SS304, SS316
9	Eye Bolt	SS304, SS316
10	Eye Bolt	SS304, SS316



DIMENSIONS (mm)

SIZE		C				D				D1	D2	L				WT(kg)			
DN	INCH	Class 300	Class 600	Class 900	Class 1500	Class 300	Class 600	Class 900	Class 1500			Class 300	Class 600	Class 900	Class 1500	Class 300	Class 600	Class 900	Class 1500
50	2"					111.1	111.1	142.9	142.9	60	51	60	60	70	70	3	3	8	8
65	2 1/2"					130.2	130.2	165.1	165.1	73	65	67	67	83	83	4	4	10	10
80	3"	52	52	60	60	149.3	149.3	168.3	174.6	89	80	73	73	83	83	6	6	12	12
100	4"	90	90	84	84	181.0	193.7	206.4	209.6	114	102	73	79	102	102	8	12	19	20
150	6"	140	90	90	90	250.9	266.7	288.9	282.6	168	152	98	136	159	159	20	36	50	54
200	8"	172	170	130	130	308.0	320.6	358.8	352.4	215	200	127	165	206	206	35	73	116	123
250	10"	235	200	195	185	362.0	400.1	435.0	435.0	265	250	146	213	241	248	57	118	197	204
300	12"	260	232	210	210	422.2	457.3	498.5	520.7	315	300	181	229	292	305	91	164	293	375
350	14"	286	232	208	208	485.8	492.1	520.7	577.9	355	340	222	273	356	356	177	186	396	485
400	16"	330	330	162	162	539.8	565.1	574.7	641.3	405	390	232	305	384	384	208	330	533	588
450	18"	392	330	245	185	596.9	612.7	638.2	704.9	455	440	264	362	451	468	295	395	610	793
500	20"	440	432	406	210	654.1	682.6	698.5	755.6	505	490	292	368	451	533	365	544	639	1278
600	24"	525	525	445	392	774.7	790.6	838.2	901.7	605	590	318	438	495	559	526	819	1233	2712

WATER STANDARD CONDITIONS



Cv AND CRACKING PRESSURE

SIZE	DN	50	65	80	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
	INCH	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"
Cv (G.P.M)	Class300	51	83	136	278	744	1445	2668	3976	5099	7478	10312	12795	21005	30925	49235	60010	72800	123900
	Class600	51	83	136	278	744	1445	2668	3976	4844	7104	9796	12155	19955	29379	46773	57010	69160	117705
	Class900	51	83	136	278	707	1373	2535	3777	4602	6749	9307	11547	18957	27910	44435	54159	65702	111820
	Class1500	48	79	129	264	671	1304	2408	3588	4372	6411	8841	10970	18009	26514	42213	51451	62417	106229
Cracking Pressure	Pressure	0.21	0.21	0.21	0.18	0.21	0.15	0.21	0.21	0.21	0.21	0.15	0.12	0.09	0.09	0.09	0.09	0.08	0.08