

Wafer Dual Check Valves Series C22

GENERAL INFORMATION

Series C22 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

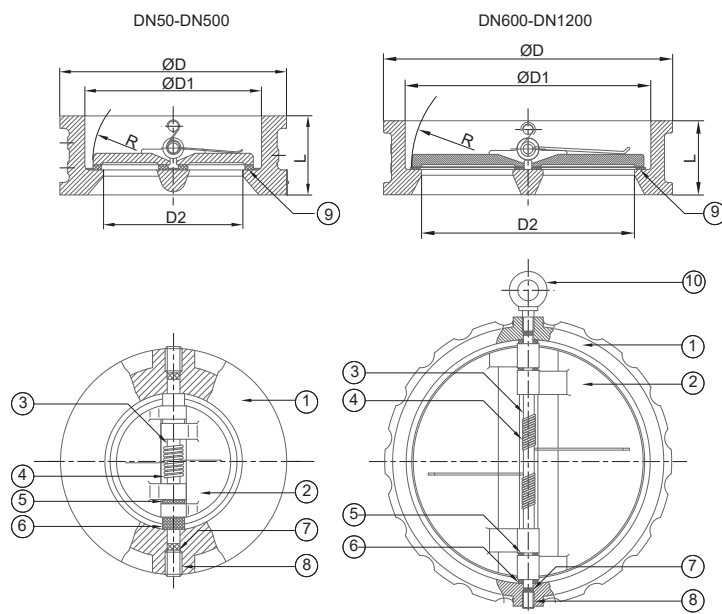
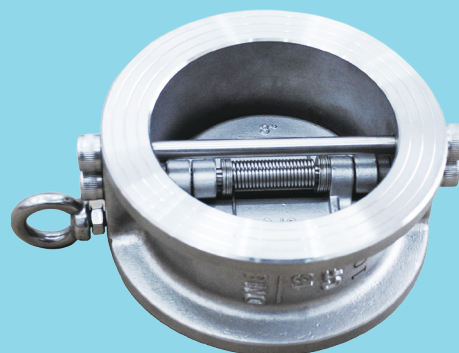
- Short face-to-face dimension
- Lighter weight than conventional full-body check valves
- Low cracking pressure because of double disc design
- The stop shaft stabilizes the plates under high flow rates
- Long leaf springs prevent rubbing of plates on seat

TECHNICAL DATA

Connection	Wafer
Nominal diameter	DN50-DN1200
Pressure rating	PN10, PN16, PN25 ANSI CLASS150
Face to face	EN558 series 16 for rubber seat, API 594 for metal seat
Coating on steel body	Painting system B

PARTS LIST AND MATERIAL SPECIFICATION

No.	Part name	Material
1	Body	WCB, CF8, CF8M
2	Disc	CF8, CF8M
3	Stem	SS304, SS316
4	Spring	SS301, SS321
5	Bearing	PTFE for rubber seat, SS316 for metal seat
6	Bearing	PTFE for rubber seat, SS316 for metal seat
7	O-Ring	Same as rubber seat, Graphite for metal seat
8	Hex Screw	SS304, SS316
9	Seat	NBR, EPDM, FPM, Metal seat
10	Eye Bolt	SS304, SS316



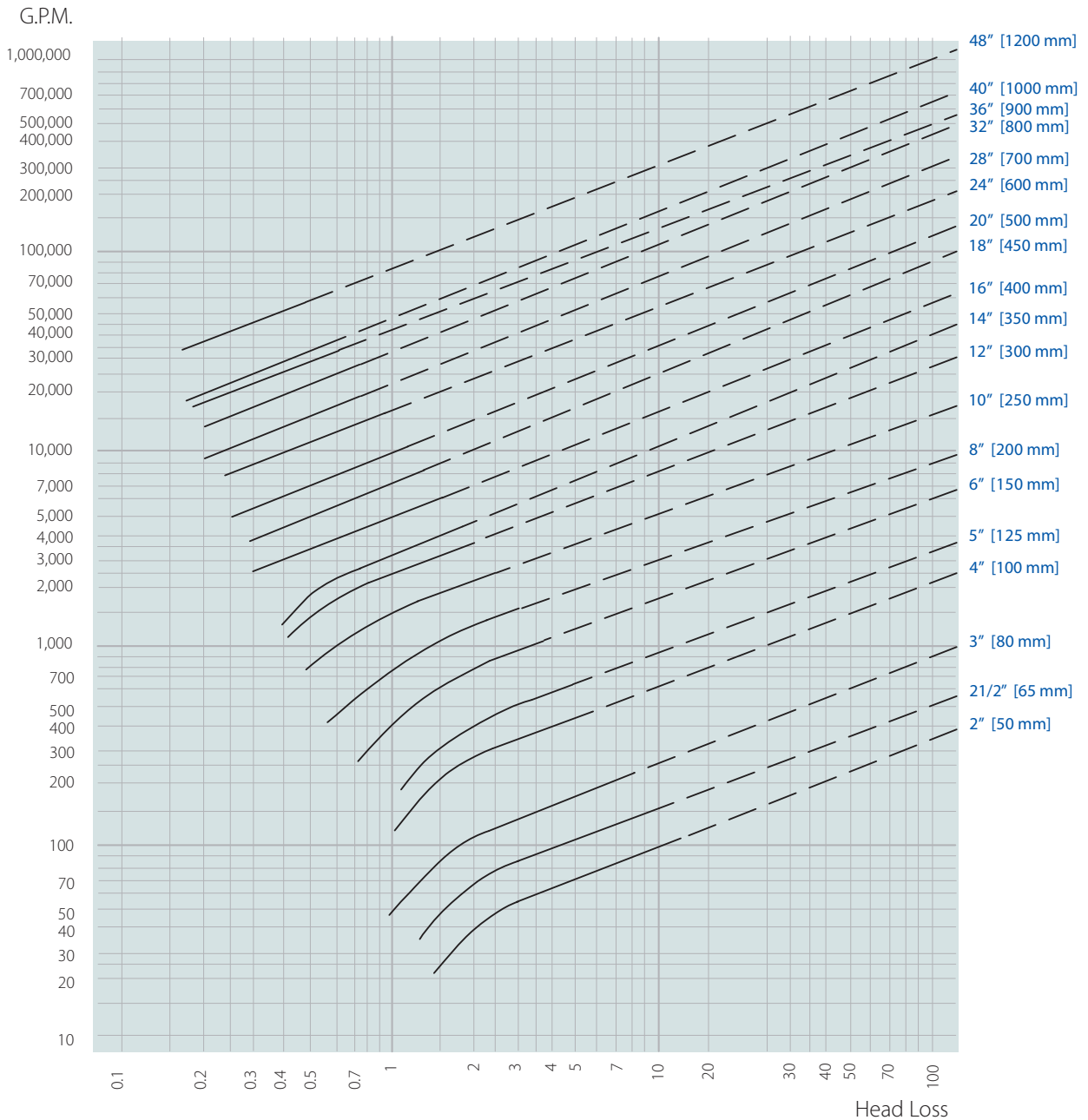
DIMENSIONS (mm)

SIZE		D				Rubber seat			Metal seat			WT (kg)
DN	INCH	PN10	PN16	PN25	Class150	D1	D2	L	D1	D2	L	
50	2"	109	109	109	104	66	46	43	56	46	60	2
65	2 1/2"	129	129	129	123	81	60	46	73	60	67	3
80	3"	144	144	144	136	95	75	64	88	75	73	4
100	4"	164	164	164	174	118	97	64	108	97	73	6
125	5"	194	194	196	196	146	122	70	132	122	86	8
150	6"	220	220	226	222	171	147	76	160	147	98	13
200	8"	275	275	286	279	228	199	89	210	198	127	24
250	10"	330	330	343	339	266	244	114	266	249	146	35
300	12"	380	386	403	409	312	295	114	310	300	181	48
350	14"	440	446	460	450	362	340	127	355	340	184	78
400	16"	491	494	517	514	406	390	140	405	390	191	106
450	18"	541	558	567	549	450	440	152	455	440	203	135
500	20"	596	620	627	606	505	490	152	505	490	219	165
600	24"	698	737	734	717	624	590	178	605	590	222	260
700	28"	813	807	836	831	700	680	229	700	675	305	360
800	32"	920	914	945	939	800	776	241	800	776	305	540
900	36"	1020	1014	1045	1047	910	878	241	903	878	368	620
1000	40"	1127	1131	1158	1162	1055	1030	300	1055	1030	432	880
1200	48"	1344	1344		1384	1205	1180	350	1205	1180	524	1380



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WATER STANDARD CONDITIONS



Cv AND CRACKING PRESSURE

SIZE	DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
	INCH	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"
Cv	G.P.M.	51	83	136	278	459	744	1445	2668	3976	5099	7478	10312	12795	21005	30925	49235	60010	72800	123900
Cracking Pressure	PSI	0.21	0.21	0.21	0.18	0.19	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