

CSW-51 Series

DUAL PLATE CHECK VALVE

Waterworks Product Catalog

RAPHAEL VALVES INDUSTRIES

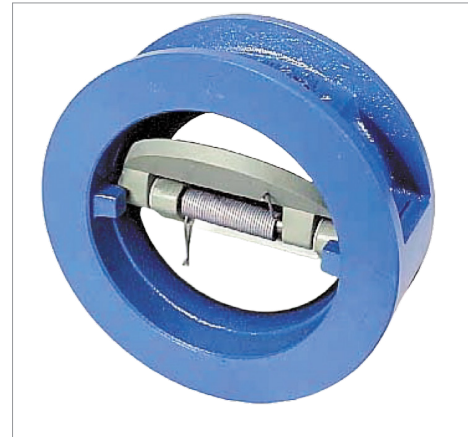
CSW-51 SERIES

CHECK VALVES

A Check Valve is designed to protect your pumps and network against flow inversion.

RAPHAEL provides a wide range of check valves to meet the many factors that determine the choice of a design.

When fluid enters the valve, the pressure causes the doors to open, stretching the spring. When the flow stops, the spring returns to its compressed state, making the plates return to the closed position, ensuring a quick closing.



FEATURES

- Wafer style check valve
- Face to face according DIN 3202, K3
- Spring operated disc action, reducing closing times and pressure surges
- O-ring type seat installed “downstream” of the flow ensuring maintenance free operation
- Internal travel stops prevent the discs from overtravelling
- Easy installation by means of lifting lugs (above DN200)
- Wide range of available seat, spring and disc materials

APPLICATIONS

- Wafer treatment
- Water distribution
- HVAC
- Gas & general industrial systems
- It's spring assisted closing actions allow successful installation where pressure surges can be expected.

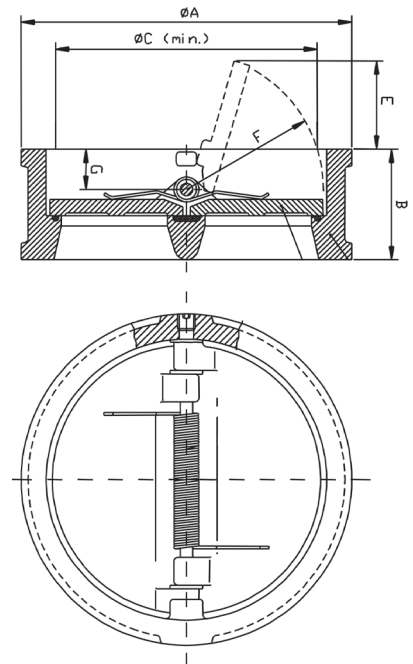


PERFORMANCE

- Sizes: 50-600 mm (larger sizes on request)
Face to face distance: DIN-3202 K-3
Flange accommodation: PN10/16/25 and ANSI 150
Maximum pressure : 25 bar in GGG-40 till DN-400
16 bar in GGG-40 from DN-450 till DN-1200
16 bar in GG-25 till DN-400
10 bar in GG-25 from DN-450 till DN-600
Temperature range for seats : NBR = -20°C to +90°C
EPDM = -40°C to +120°C
FPM = -20°C to +232°C
Max. temperature for springs: AISI 302 = 125°C
Other shaft, spring and seat materials are available on request

DIMENSIONS

DN		A			B	C	E	F	G	Weight (kg)
mm	inch	PN 10/ PN 16	PN25	ANSI 125						
50	2	108	108	104	43	55	12	33	22	1.3
65	2½	128	128	124	46	58,5	12	33	25	2.4
80	3	143	143	136	64	71	18	41	33	3.2
100	4	163	169	169	64	96	28	52	26	4.2
125	5	194	194	194	70	125	35	70	33	7
150	6	219	224	219	76	128	33	70	35	9
200	8	275	284	275	89	192	60	104	36	15
250	10	329	338	338	114	244	81	126	48	27
300	12	380	402	408	114	295	100	153	49	34
350	14	438	458	450	127	320	108	168	54	55
400	16	490	514	514	140	380	137	195	58	70
450	18	540	556	543	152	420	152	217	65	100
500	20	595	618	605	152	480	175	247	65	120
600	24	696	735	716	178	585	222	299	77	180
700	28	807	807	830	229	690	250	352	103	260
800	32	917	912	937	241	780	290	395	107	350
900	36	1015	1009	1046	241	850	332	445	112	520
1000	40	1124	1124	1216	300	940	332	483	152	760
1200	48	1340	1340	1380	350	1150	442	601	159	1200



MATERIALS OF CONSTRUCTION

Code	Body	Plates	Shaft	TRIM		Notes
				Spring	Seat	
711	Cast Iron	Kematal	Stainless AISI 304	Stainless AISI 302	NBR	Kematal: Copolymer Acetate. Max. Working Temp. 70C
716	Cast Iron	Brass	Stainless AISI 304	Stainless AISI 302	NBR	
100	Cast Iron	Ductile GGG 40	Stainless AISI 304	Stainless AISI 302	NBR	Plates in DN50-DN100 in Brass
105	Cast Iron	Stainless AISI 316	Stainless AISI 304	Stainless AISI 302	NBR	
731	Ductile Iron	Brass	Stainless AISI 304	Stainless AISI 302	NBR	
107	Ductile Iron	Ductile GGG 40	Stainless AISI 304	Stainless AISI 302	NBR	
177	Ductile Iron	Stainless AISI 316	Stainless AISI 304	Stainless AISI 302	NBR	Plates in DN50-DN100 in Brass
133	Ductile Iron	Carbon, 216 WCB	Stainless AISI 304	Stainless AISI 302	NBR	Plates in DN50-DN100 in AISI 316
732	Cast Iron	Kematal	Stainless AISI 304	Stainless AISI 302	FPM	Kematal: Copolymer Acetate. Max. Working Temp. 70C
102	Cast Iron	Brass	Stainless AISI 304	Stainless AISI 302	FPM	
196	Cast Iron	Ductile GGG 40	Stainless AISI 304	Stainless AISI 302	FPM	Plates in DN50-DN100 in Brass
174	Cast Iron	Stainless AISI 316	Stainless AISI 304	Stainless AISI 302	FPM	
734	Ductile Iron	Brass	Stainless AISI 304	Stainless AISI 302	FPM	
721	Ductile Iron	Ductile GGG 40	Stainless AISI 304	Stainless AISI 302	FPM	
720	Ductile Iron	Stainless AISI 316	Stainless AISI 304	Stainless AISI 302	FPM	Plates in DN50-DN100 in Brass
163	Ductile Iron	Carbon, 216 WCB	Stainless AISI 304	Stainless AISI 302	FPM	Plates in DN50-DN100 in AISI 316
733	Cast Iron	Kematal	Stainless AISI 304	Stainless AISI 302	EPDM	Kematal: Copolymer Acetate. Max. Working Temp. 70C
131	Cast Iron	Brass	Stainless AISI 304	Stainless AISI 302	EPDM	
147	Cast Iron	Ductile GGG 40	Stainless AISI 304	Stainless AISI 302	EPDM	Plates in DN50-DN100 in Brass
701	Cast Iron	Stainless AISI 316	Stainless AISI 304	Stainless AISI 302	EPDM	
735	Ductile Iron	Brass	Stainless AISI 304	Stainless AISI 302	EPDM	
707	Ductile Iron	Ductile GGG 40	Stainless AISI 304	Stainless AISI 302	EPDM	
718	Ductile Iron	Stainless AISI 316	Stainless AISI 304	Stainless AISI 302	EPDM	Plates in DN50-DN100 in Brass
164	Ductile Iron	Carbon, 216 WCB	Stainless AISI 304	Stainless AISI 302	EPDM	Plates in DN50-DN100 in AISI 316

RAPHAEL, founded in 1949, is the first Israeli manufacturer of water control valves. RAPHAEL's research department constantly strives to introduce new and innovative products and solutions for water control systems including water works, fire-protection and irrigation systems.



Waterworks



Fire Protection



Irrigation



Smart Solutions



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