



CHAMPION VALVES INC

MODEL SCW™ AXIAL DISC WAFER SILENT CHECK VALVE

FEATURES

- Designed to positively close before a reversal of flow takes place to facilitate silent operation.
- Closure at approximately ½ psi positive head on the inlet of the valve minimizes water hammer.
- All internal support hardware, including disc, spring, braces, brackets and screws, are manufactured of corrosion-resistant 316 Stainless Steel.
- 2" through 12" body sizes available in Class 150 and Class 300 ratings
- 316 Stainless Steel, Carbon Steel and Ductile Iron body designs available with metal or resilient seat sealing options.
- The one-piece body design eliminates leak paths to ensure superior performance.
- All SCW Silent Wafer Check Valves are thoroughly tested and inspected to meet our strict ISO 9001 system standards.
- Economical, space-saving design with high-quality performance.



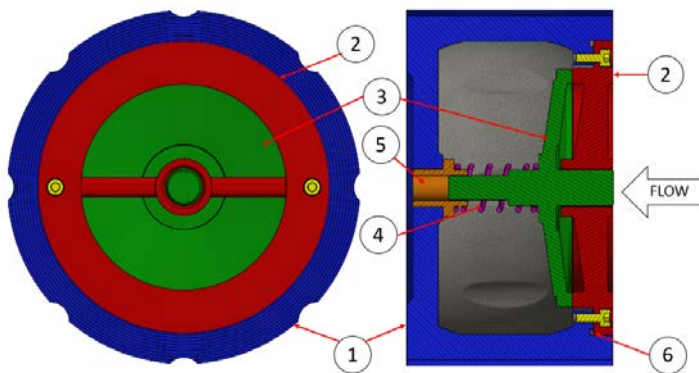
SELECTION CHART

Size	Body	Disc	Seat	Pressure Class
2" – 12"	Ductile Iron	316 SS	Metal RPTFE Resilient	125/250*
	Carbon Steel			150/300**
	316 Stainless Steel			150/300**

* Ductile Iron valves dual rated through 6" size; ** – 12" sizes Class 125 only
** 10" – 12" steel valves offered in Class 150 only

PARTS DESCRIPTION

Materials of Construction



Component	Material	Grade
(1) Body	Ductile Iron	ASTM A395 Gr. 60-40-18
	Carbon Steel	ASTM A216 Gr. WCB
	316 Stainless Steel	ASTM A351 Gr. CF8M
(2) Seat/ Retainer	316 Stainless Steel	ASTM A351 Gr. CF8M
	RPTFE or Resilient/ 316 Stainless Steel	
(3) Disc	316 Stainless Steel	ASTM A351 Gr. CF8M
(4) Spring	316 Stainless Steel	ASTM A351 Gr. CF8M
(5) Bushing	316 Stainless Steel	ASTM A351 Gr. CF8M
(6) O-Ring	Various	Resilient



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AXIAL DISC WAFER
SILENT CHECK VALVE

FIGURE NUMBER INFORMATION

Order Example: Specifications for 4" Champion Valves Model SCW Silent Wafer Check Valve, ASME Class 150, Ductile Iron Body with 316 Stainless Steel Disc; EPDM Seat; 316 Stainless Steel Spring; Plain Face End Connection

SIZE	MODEL	PRESSURE CLASS		BODY	DISC	SEAT	SPRING		END CONNECTION
4	SCW	15	-	L	S	E	S	-	P

SIZE RANGE
2" through 12"
MODEL
SCW
PRESSURE CLASS
12/25 - Class 125/250
15 - Class 150
15/30 - Class 150/300
30 - Class 300
BODY MATERIAL
L - Ductile Iron, ASTM A395 Gr. 60-40-18
C - Carbon Steel, ASTM A216 Gr. WCB
S - 316 Stainless Steel, ASTM A351 Gr. CF8M
DISC MATERIAL
S - 316 Stainless Steel, ASTM A351 Gr. CF8M
SEAT MATERIAL
B - Buna-N
E - EPDM
S - 316 Stainless Steel Overlay
T - RPTFE
V - Viton®
SPRING MATERIAL
S - 316 Stainless Steel, ASTM A351 Gr. CF8M
END CONNECTION
P - Plain Face
R - Serrated Raised Face

RATINGS AND DIMENSIONS

Class 125/250 Ductile Iron

Size	Dimensions				Ratings			
	Face to Face		Weight		C _v	P _c	GPM	PSI
	IN	MM	LBS	KGS				
2	50	2 5/8	67	6	2.7	46	1.17	
2 1/2	65	2 7/8	73	7	3.2	77	0.91	
3	80	3 1/8	79	9	4.8	110	0.65	
4	100	4	102	17	7.7	186	1.82	
5	125	4 11/16	118	25	11	273	1.24	
6	150	5 1/2	141	37	17	371	1.03	
8	200	6 1/2	165	82	37	600	1.01	
10	250	8 3/4	210	140	64	874	1.15	
12	300	11 5/16	287	215	98	1193	1.22	

Class 150/300 Carbon Steel

Size	Dimensions				Ratings			
	Face to Face		Weight		C _v	P _c	GPM	PSI
	IN	MM	LBS	KGS				
2	50	2 5/8	67	6	2.7	46	1.17	
2 1/2	65	2 7/8	73	7	3.2	77	0.91	
3	80	3 1/8	79	9	4.8	110	0.65	
4	100	4	102	17	7.7	186	1.82	
5	125	4 11/16	118	25	11	273	1.24	
6	150	5 1/2	141	37	17	371	1.03	
8	200	6 1/2	165	82	37	600	1.01	
10	250	8 3/4	210	140	64	874	1.15	
12	300	11 5/16	287	215	98	1193	1.22	

Class 150/300 Stainless Steel

Size	Dimensions				Ratings			
	Face to Face		Weight		C _v	P _c	GPM	PSI
	IN	MM	LBS	KGS				
2	50	2 5/8	67	6	2.7	46	1.17	
2 1/2	65	2 7/8	73	7	3.2	77	0.91	
3	80	3 1/8	79	9	4.8	110	0.65	
4	100	4	102	17	7.7	186	1.82	
5	125	4 11/16	118	25	11	273	1.24	
6	150	5 1/2	141	37	17	371	1.03	
8	200	6 1/2	165	82	37	600	1.01	
10	250	8 3/4	210	140	64	874	1.15	
12	300	11 5/16	287	215	98	1193	1.22	

Approximate weight and dimensions. Apply for certified drawings.
 Visit www.wafercheck.com for full range dimensional drawings.
 Other Material options available. Consult factory for lead times.

ORDER SYMBOL	SEAT	OPERATING TEMPERATURE			
		°C		°F	
		MIN	MAX	MIN	MAX
B	Buna-N	-57	120	-70	250
E	EPDM	-18	135	0	300
P	Integral Metal	-267	537	-450	1000
S	316 SS Inlay	-267	537	-450	1000
T	RPTFE	-40	149	-40	300
V	Viton®	-40	204	-40	400

QUALITY SYSTEM

Champion Valves, Inc. is dedicated to the goal of total quality management to provide industry-best products and services to our customers.

