



CHAMPION VALVES INC

Distributed by: **DUNCAN CO** Ph: 612-331-1776 www.duncanco.com

MODEL SDS™

API-6D SHORT PATTERN SINGLE DISC CHECK VALVE

FEATURES

- Designed to comply with API-6D short pattern wafer check valve specification.
- Compact wafer design offers lightweight, space saving solution with reliable performance.
- Fully retained disc captured within flange face with full range of motion.
- Economical, low maintenance packaging in sizes up to 24" diameter. Contact customer service for higher pressure class ratings.
- 316 Stainless Steel and Carbon Steel body designs available with metal or resilient seat sealing options.
- The one piece body design eliminates leak paths to ensure superior performance.
- All valves include threaded lifting hook for easy handling and alignment.
- A built in, body-sealing O-Ring is included with resilient seated valves to provide leak-proof performance.
- Suitable for Liquid, Steam and Gas service.
- Economical design with high quality performance.

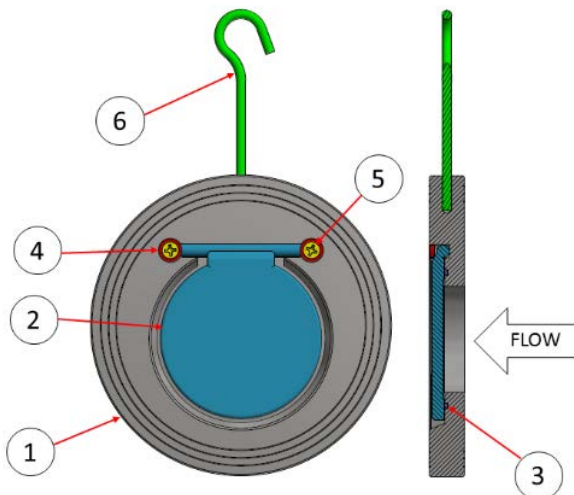


SELECTION CHART

Size	Body	Disc	Seats	Pressure Class
2" – 24"	Carbon Steel, 316 Stainless Steel	304 SS, 316SS	Integral Metal, 25% RPTFE, Resilient	150

PARTS DESCRIPTION

Materials of Construction



Component	Material	Grade
(1) Body	Carbon Steel 316 Stainless Steel	ASTM A216 Gr. WCB ATSM A351 Gr. CF8M
(2) Disc	304 Stainless Steel 316 Stainless Steel	ASTM A351 Gr. CF8 ASTM A351 Gr. CF8M
(3) Seat	Integral Metal 25% Glass Filled PTFE Resilient	
(4) Washer	316 Stainless Steel	ASTM A351 Gr. CF8M
(5) Screw	316 Stainless Steel	ASTM A351 Gr. CF8M
(6) Lifting Hook	316 Stainless Steel	ASTM A351 Gr. CF8M

FIGURE NUMBER INFORMATION

Order Example: Specifications for 6" Champion Valves Model SDS Short Pattern API-6D Wafer Check Valve, ASME Class 150, 316 Stainless Steel Body with 316 Stainless Steel Disc; Integral Metal Seat; Serrated Raised Face End Connection

SIZE	MODEL	PRESSURE CLASS		BODY	DISC	SEAT		END CONNECTION
6	SDS	15	-	S	S	P	-	R

SIZE RANGE
2" through 24"
MODEL
SDS
PRESSURE CLASS
15 – Class 150
BODY MATERIAL
C - Carbon Steel , ASTM A216 Gr. WCB
S - 316 Stainless Steel, ATSM A351 Gr. CF8M
DISC MATERIAL
T - 304 Stainless Steel, ASTM A351 Gr. CF8
S - 316 Stainless Steel, ATSM A351 Gr. CF8M
SEAT
B - Buna-N
E - EPDM
P - Integral Metal
T - RPTFE
V - Viton®
END CONNECTION
Serrated Raised Face

RATINGS AND DIMENSIONS

Dimensions							Ratings	
ID		Face to Face		Weight		C _v	P _c	
NPS/IN	DN/MM	IN	MM	LBS	KGS	GPM	PSI	
2	50	¾	19	3	1.4	32	0.013	
2 ½	65	¾	19	4	1.8	71	0.010	
3	80	¾	19	4	1.8	115	0.010	
4	100	¾	19	7	3.2	218	0.007	
5	125	¾	19	8	3.6	342	0.006	
6	150	¾	19	10	4.5	487	0.005	
8	200	1 ½	29	24	11	838	0.006	
10	250	1 ½	29	33	15	1272	0.006	
12	300	1 ½	38	67	30	1789	0.009	
14	350	1 ¾	44	93	42	2388	0.007	
16	400	2	51	129	59	3070	0.010	
18	450	2 ¼	60	171	78	3835	0.006	
20	500	2 ½	64	219	99	4682	0.008	
24	600	2 ¾	70	333	151	6624	0.008	

Approximate weight and dimensions. Apply for certified drawings.
 Contact the factory for custom configurations.

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
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.

