



CHAMPION VALVES INC

MODEL NZW AXIAL STYLE NOZZLE CHECK VALVE STEEL DESIGN

FEATURES

- The laminar flow design of our NZW combines optimal C_v with minimal slam characteristics.
- The NZW axial flow pattern, developed through Computational Fluid Dynamics (CFD), creates a disc contour that provides minimal energy loss and low ΔP .
- Easy face-mounted seat assembly allows full maintenance access to all components with no leak paths in the valve body.
- Dynamically engineered molded seat design provides secure, bubble-tight seal using a variety of elastomer materials, along with a 316 SS option that is integral to the valve face.
- Internally mounted compression spring is designed for reliable operation for the lifetime of the valve.
- The uniquely engineered valve disc shaft and replaceable bushing allow pass through of potentially damaging particulates.
- Suitable for Liquid, Steam and Gas Service
- Single Cast Body Design for High Quality Performance and Reliability

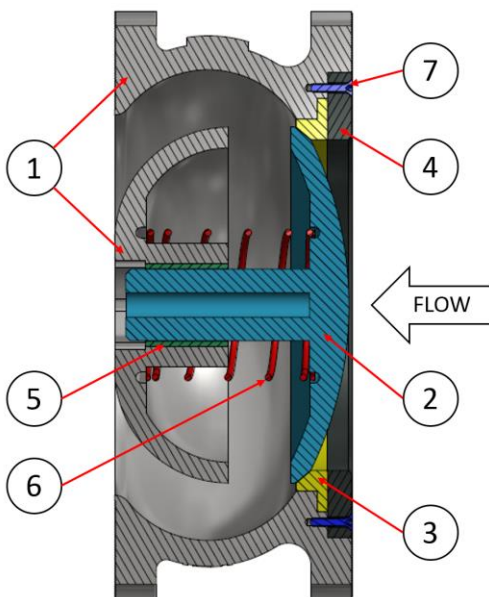


SELECTION CHART

Size	Body	Disc	Seals	Pressure Class
2" – 12"	Carbon Steel	304 SS	316 SS EPDM Viton® Teflon® Others	150/300
	316 Stainless Steel	316 SS		

PARTS DESCRIPTION

Materials of Construction



Component	Material	Grade
(1) Body/Guide	Carbon Steel	ASTM A216, Gr. WCB
	316 Stainless Steel	ASTM A351 Gr. CF8M
(2) Disc	304 Stainless Steel	ASTM A351 Gr. CF8
	316 Stainless Steel	ASTM A351 Gr. CF8M
(3) Seat	25% Glass Filled PTFE or Other	ASTM D4745
(4) Retainer	316 SS	ASTM A351 Gr. CF8M
(5) Bushing	PTFE/Sintered Bronze/Steel	ASTM D3294
(6) Spring	302 Stainless Steel	ASTM A313
(7) Screw	18-8 Stainless Steel	



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**MODEL NZW
AXIAL STYLE
NOZZLE CHECK VALVE**

FIGURE NUMBER INFORMATION

Order Example: Specifications for 6" Champion Valves Model NZW Axial Flow Nozzle Wafer Check Valve, ASME Class 150, 316 Stainless Steel Body with 316 Stainless Steel Disc; Teflon® Seat; 302 Stainless Steel Spring; Raised Face End Connection

SIZE	MODEL	PRESSURE CLASS		BODY	DISC	SEAT	SPRING		END CONNECTION
6	NZW	30	-	S	S	T	S	-	R

ORDER SYMBOL	SIZE	BODY & DISC	ORDER SYMBOL	SPECIFICATION	ORDER SYMBOL	SPRING	OPERATING TEMPERATURE	
2	2"	Carbon Steel	C	ASTM A216 Gr. WCB			°C	°F
2.5	2 ½"	316 Stainless Steel	S	ASTM A351 Gr. CF8M	S	316 SS	260	500
3	3"	304 Stainless Steel	T	ASTM 351 Gr. CF8	X	Inconel® X750	593	1100

ORDER SYMBOL	SEAT	OPERATING TEMPERATURE			
		°C		°F	
		MIN	MAX	MIN	MAX
B	Buna-N	-57	120	-70	250
E	EPDM	-18	135	0	300
H	Silicone	-40	204	-40	400
N	Neoprene®	-40	120	-40	250
S	316 SS	-40	399	-40	750
T	Teflon®	-40	149	-40	300
V	Viton®	-40	204	-40	400

ORDER SYMBOL	MODEL
NZW	Axial Wafer

PRESSURE CLASS	ORDER SYMBOL
150	15
300	30

ORDER SYMBOL	END CONNECTION
R	Serrated Raised Face



CLASS A1 REFRIGERANT SERVICE
PER ASHRAE 34

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	2 ¾	60	5	2	55	0.252
2 ½	63	2 ¾	67	8	3	85	0.266
3	80	2 ¾	73	12	5	120	0.226
4	100	2 ¾	73	20	9	210	0.251
5	127	3 ¾	86	32	14	330	0.250
6	150	3 ¾	98	46	20	475	0.201
8	200	5	127	82	37	840	0.195
10	250	5 ¾	146	128	58	1315	0.288
12	300	7 ¾	181	184	83	1890	0.285

QUALITY SYSTEM

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



SAI GLOBAL
ISO 9001
Quality

CHAMPION VALVES INC™

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