

MODEL NZW AXIAL STYLE NOZZLE CHECK VALVE IRON DESIGN

FEATURES

- Unique, patent-pending 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
- Economical Design with High Quality Performance



Size	Body	Disc	Seals	Pressure Class
2" – 12"	Ductile Iron	304 SS	316 SS EPDM Viton® PTFE Others	150

PARTS DESCRIPTION

Materials of Construction Component Material Grade 8 (1) Body **Ductile Iron** ATSM A395 Gr. 60-40-18 (2) Guide **Ductile Iron** ATSM A395 Gr. 60-40-18 5 (3) Disc 304 Stainless ASTM A351 Gr. CF8 25% Glass Filled PTFE **FLOW** (4) Seat **ASTM D4745** or Other (5) Retainer 316 SS ASTM A351 Gr. CF8M PTFE/Sintered **ASTM D3294** (6) Bushing Bronze/Steel (7) Spring 302 Stainless Steel ASTM A313 (8) Screw 18-8 Stainless Steel

COMMITMENTVALUEINNOVATION



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FIGURE NUMBER INFORMATION

Order Example: Specifications for 10" Champion Valves Model NZW Axial Flow Nozzle Wafer Check Valve, ASME Class 150, Ductile Iron Body with 304 Stainless Steel Disc; Teflon® Seat; 302 Stainless Steel Spring; Plain Face End Connection

SIZE	MODEL	PRESSURE CLASS		BODY	DISC	SEAT	SPRING		END CONNECTION
10	NZW	15	-	L	Т	Т	S	-	Р
00050									ODED A TIME

ORDER SYMBOL	SIZE	BODY & DISC		ORDER SYMBOL		SPECIFICATION			
2	2"	Ductile	Ductile Iron		,	ASTM A395 Gr.		0-14-18	
2 ½"	2.5	304 Stainle	304 Stainless Steel			ASTM 351 Gr. CF8			
3	3"		ORDER SEAT		OPERATING TEMPERATUR			TURE	
4	4"	_			0	°C		°F	
5	5"	STIVIDOL			MIN	MAX	MIN	MAX	
6	6"	В	Bu	na-N	-57	120	-70	250	
8	8"	E	EP	MO	-18	135	0	300	
10	10"	Н	Sili	cone	-40	204	-40	400	
12	12"	N	Neor	orene®	-40	120	-40	250	
ORDER SYMBOL	MODEL	S	31	6 SS	-40	260	-40	500	
31111101	Axial	Т	Tet	flon®	-40	149	-40	300	
NZW	Wafer	V	Vit	ton®	-40	204	-40	400	
PRESSURE	ORDER								

ORDER SYMBOL	SPRING	OPERATING TEMPERATURE			
		°C	°F		
S	302 SS	260	500		
W	Inconel® X750	593	1100		
ORDER	END CONNECTION				

ORDER SYMBOL	END CONNECTION
Р	Plain Face



CLASS A1 REFRIGERANT SERVICE PER ASHRAE 34

RATINGS AND DIMENSIONS

U. S. Patent Pending

SYMBOL

15

CLASS

150

Dimensions						Ratings	
ID		Face to Face		Weight		c_{v}	P_{C}
NPS/IN	DN/MM	IN	MM	LBS	KGS	GPM	PSI
2	50	2 3/8	60	5	2	55	0.252
2 ½	6	2 %	67	7	3	85	0.266
3	80	2 1/8	73	10	4	120	0.226
4	100	2 1/8	73	15	6	210	0.251
5	127	3 3/8	86	24	11	330	0.250
6	150	3 1/8	98	34	15	475	0.201
8	200	5	127	47	21	840	0.195
10	250	5 ¾	146	73	33	1315	0.288
12	300	7 1/8	181	105	82	1890	0.285

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QUALITY SYSTEM

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



CHAMPION VALVES INC

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