

Nero High Performance Nozzle Check valves

Nero High Performance Nozzle Check Valves

Model and Type

Nozzle Check valve (single spring loaded Type) Fire Safety Design **and** Standard
Applicable Code : ASME, API, DIN, BS
Applicable Face to Face: ASME, Marker Standard

Nozzle Check valve (multi spring loaded Type) Fire Safety Design **and** Standard
Applicable Flange Standard: ASME, API, DIN, BS, AWWA, MSS
Applicable Testing: ASME B16.34, API 598, BS6755

Size: 2" up to 40" / DN 50 up to DN 1000

Pressure rating ASME class 125 up to 2500 / DIN PN 10 up to DIN PN 40 bars

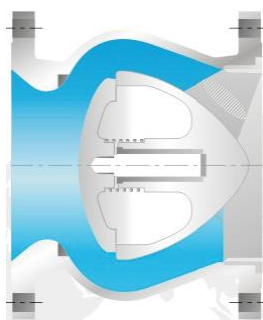
End Connection: RF Raised Face Flange / FF - Flat Face Flange
RTJ - Ring Joint Type Flange and BW - Butt weld End

Material:

Disc: A216 WCB; A217 WCB; A351 CF8; A351 CF8M; A356; B148 and A217 CA15

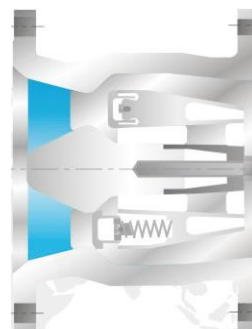
Body

Material	Specification	Material	Specification
Carbon Steel	A216 WCB	Alloy 825	UNS N00825
Low Temp. Carbon	A352 LCB	Alloy 625	A494. CW6MC
Low Temp. Carbon	A352 LCC	HASTELLY C276	A494. CW12MW
5% Cr Steel	A217. C5	MONEL 400	A494. M351
9% Cr Steel	A217 C12	Nickel AL- BZ	B148. C95800
Low Temp. 13 Cr 4n	A352. CA6NM	INCONEL 625	A494. CW6MC
410 stainless steel	A217. CA15	Duplex Stainless steel Gr.1	A351. CD4MCu
304 Stainless steel	A351.CF8	Duplex Stainless steel Gr.2	A890.CE8MN
316 Stainless steel	A351.CF8M	Duplex Stainless steel Gr.3	A890 CD6MN
316L Stainless steel	A351.CF3M	Duplex Stainless steel Gr.4	A890 CD3MN
317 Stainless steel	A352.CG8M	Duplex Stainless steel Gr.5	A890 CE3MN
Alloy 20	A351.CN7M	254SMO	A351.CK3MCuN
Gray Iron	A216 CL.B	904L Stainless steel	A351.CN2MCuN
Ductile Iron	A395	Titanium Gr.2	B381.F2



Open

Nozzle check valves is designed to meet
The criteria of conventional check valves by
Allowing forward flow under normal condition,
Opening easily, firmly back seating at low velocity



Close

Nozzle Check Valves is designed to be
Close prior to reserve flow as non-slamming
by spring loaded disc that allows mounting in
any orientation

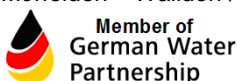
Subject to alternation

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Nero Valves GmbH

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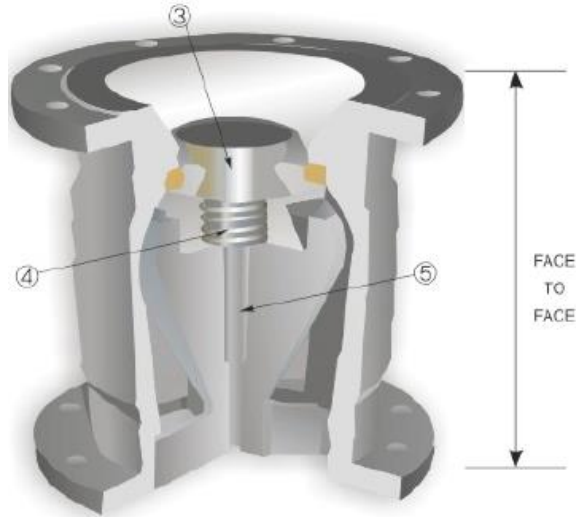
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Nero High Performance Nozzle Check valves

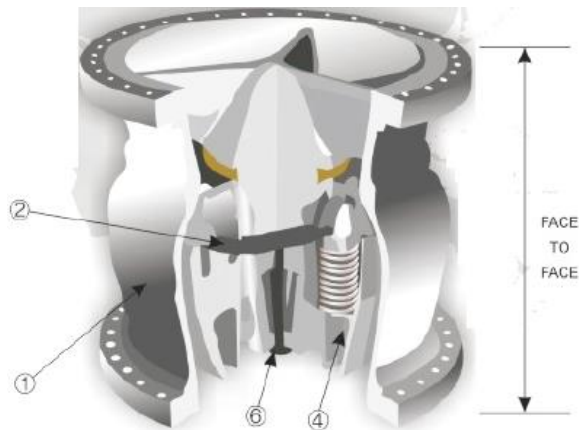
Single spring Nozzle Check Valves

Nero Nozzle Check valve is covered with 10 inch and below size and 150 -300 LBS pressure rating service by single spring loaded design under minimum pressure loss with excellent dynamic performance



Multi spring Nozzle Check Valves

Nero Nozzle Check valve is covered with 10 inch and below size and 150 -300 LBS pressure rating service by single spring loaded design under minimum pressure loss with excellent dynamic performance



Body does not have any boring holes of hinge pint to out side

Pos.	Parts	Qty
1	Body	1
2	Seat	1
3	Disc	1
4	Spring	1/3
5	Bushing	1
6	Centre Tie Bolt	1

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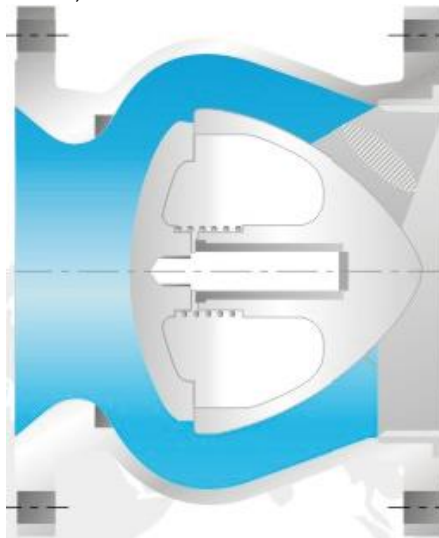
Nero High Performance Nozzle Check valves

Single spring Nozzle check valves

Applicable Code: ASME, API; DIN; BS

Applicable face to face dimension : ASME, maker standard

Applicable Testing: ASME; B16.34; API 598; BS6755



Face-to-Face Dimension / Class 150

		Single Spring						Multi - Spring								
Size	in	2	4	6	8	10	12	14	16	18	20	24	28	30	36	
		mm	50	100	150	200	250	300	350	400	450	500	600	700	750	900
Short Pattern	in	4.49	8.98	13.07	15.12	16.81	17.32	18.70	19.69	22.24	27.17	30.24	35.43	36.54	40.67	
	mm	114	228	332	394	427	440	475	500	565	690	768	900	928	1033	
	kg	6	21	38	118	198	254	312	373	484	965	1179	1404	1768	2344	
Long Pattern	in	7.99	11.50	14.02	19.49	24.49	27.52	30.98	34.02	38.50	38.50	50.98	57.01	60.00	77.01	
	mm	203	292	358	495	622	699	787	864	978	978	1295	1448	1524	1956	
	kg	11	43	68	175	219	257	385	440	733	1037	1297	1805	2211	2443	

Face-To-Face Dimension / Class 300

		Single Spring						Multi - Spring								
Size	in	2	4	6	8	10	12	14	16	18	20	24	28	30	36	
		mm	50	100	150	200	250	300	350	400	450	500	600	700	750	900
Short Pattern	in	4.69	9.33	13.58	15.12	17.32	17.48	19.05	19.69	22.24	27.17	30.24	35.43	36.54	40.67	
	mm	119	237	345	394	440	444	484	500	565	690	768	900	928	1033	
	kg	8	36	68	147	226	274	400	477	621	981	1233	1980	2155	3303	
Long Pattern	in	10.51	14.02	17.52	20.98	24.49	27.99	32.99	39.02	42.99	47.01	55.00	62.99	65.00	82.01	
	mm	267	356	445	533	622	711	838	991	1092	1194	1397	1600	1651	2083	
	kg	12	43	86	184	251	298	534	582	738	1056	1363	2148	2380	3922	

Other Dimension on request

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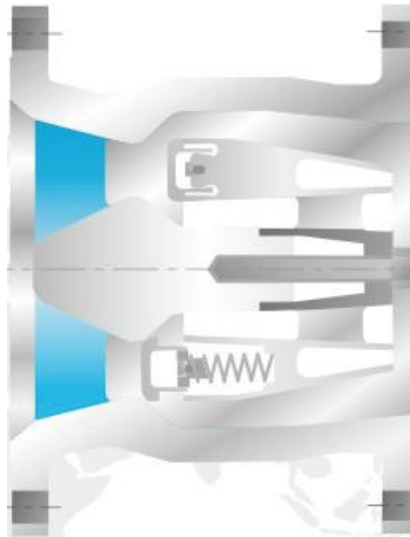
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Multi- Spring Nozzle Check Valves

Applicable Code: ASME, API; DIN; BS

Applicable face-to-face dimension: ASME, maker standard

Applicable Testing: ASME; B16.34; API 598; BS6755



Face-to-Face Dimension / Class 600

Size	Single Spring								Multi - Spring						
	in	2	4	6	8	10	12	14	16	18	20	24	28	30	36
	mm	50	100	150	200	250	300	350	400	450	500	600	700	750	900
Short Pattern	in	7.99	9.61	13.98	16.02	17.99	18.03	19.61	20.59	27.09	28.27	30.63	34.33	38.19	45.98
	mm	203	244	355	407	457	458	498	523	688	718	778	872	970	1168
	kg	12	41	152	176	302	383	484	711	1219	1242	1741	2394	2700	4050
Long Pattern	in	11.50	17.01	22.01	25.98	30.98	32.99	35.00	39.02	42.99	47.01	55.00	52.99	65.00	82.01
	mm	292	432	559	660	787	838	889	991	1092	1194	1397	1600	1651	2083
	kg	28	67	174	225	365	464	587	861	1192	1383	2170	2748	3541	7901

Face-To-Face Dimension / Class 900

Size	Single Spring								Multi - Spring						
	in	2	4	6	8	10	12	14	16	18	20	24	28	30	36
	mm	50	100	150	200	250	300	350	400	450	500	600	700	750	900
Short Pattern	in	8.19	9.84	14.33	16.42	18.43	18.62	20.08	21.10	27.76	28.98	31.38	35.20	39.13	47.13
	mm	208	250	364	417	468	473	510	536	705	736	797	894	994	1197
	kg	27	54	174	261	435	607	625	1098	1296	1908	2864	4185	4275	6525
Long Pattern	in	14.49	17.99	24.02	29.02	32.99	37.99	40.51	44.49	47.99	52.01	60.98			
	mm	368	457	610	737	838	965	1029	1130	1219	1321	1539			
	kg	41	136	229	301	616	796	1195	1317	1819	2647	3317			

Other Dimension on request

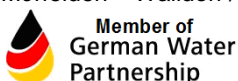
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