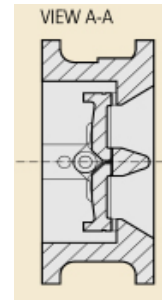
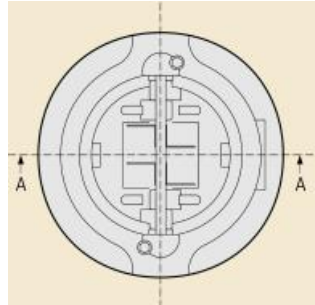


Dual Plate Check Valves Wafer Type

Design and performance Standard



Body and Plate Material

Material	Specification	Material	Specification
Carbon Steel	ASTM A216 WCB	Low Temp. Carbon Steel	ASTM A352 LCB
High Temp. Cr Mo steel	ASTM A217 WC6	Low Temp. carbon steel	ASTM A216 LCC
Low Alloy Steel	ASTM A487 GR 4N	Low Alloy Steel	ASTM A487 GR 4C
Stainless steel 410	ASTM A217CA15	5% Cr. Steel	ASTM A217C5
9% Cr. Steel	ASTM A217C5	Low Temp. 13%Cr4%Ni	ASTM A352 CA6NM
316 Stainless steel	ASTM A182 F316/ A351 CF8M	316 Stainless steel	ASTM A 182 F316L/ A351 CF3M
347 stainless steel (high Temp)	ASTM CF8C	22% Chrome Duplex	ASTM A890 4A
Ferralium 255-3SC	UNS S32550	25% Chrome supper Duplex	UNS S32760
Alloy 825	UNS N008825	Alloy 625	ASTM A494 CW6MC
Hastelloy C276	ASTM A494 CW6MC	Monel	ASTM A494-M35-2
Nickel Aluminium Bronze	ASTM B148 C95800	Chromium Moly. Steel	AST A217 GR WC9
3,5% Nickel Steel	ASTM A352 LC3	304 Stainless steel	ASTM A351 CF8
304 stainless steel	ASTM A351 CF3	Alloy20	ASTM A351 CN7M
317 Stainless steel	ASTM A352 CG8M	Carbon Moly. Steel	ASTM A352 LC1
Gray Iron	ASTM A126 Class B	Ductile Iron	ASTM 395

Spring Material:

- 316 Stainless steel
- Inconel X750
- Inconel 625
- Monel K500
- Carpenter 20

Seat Material:

- Buna (NBR)
- EPDM
- PTFE
- Metal Overlay as Body
- Metal to Metal
- Viton
- Neoprene
- Other material on request

Subject to alternation

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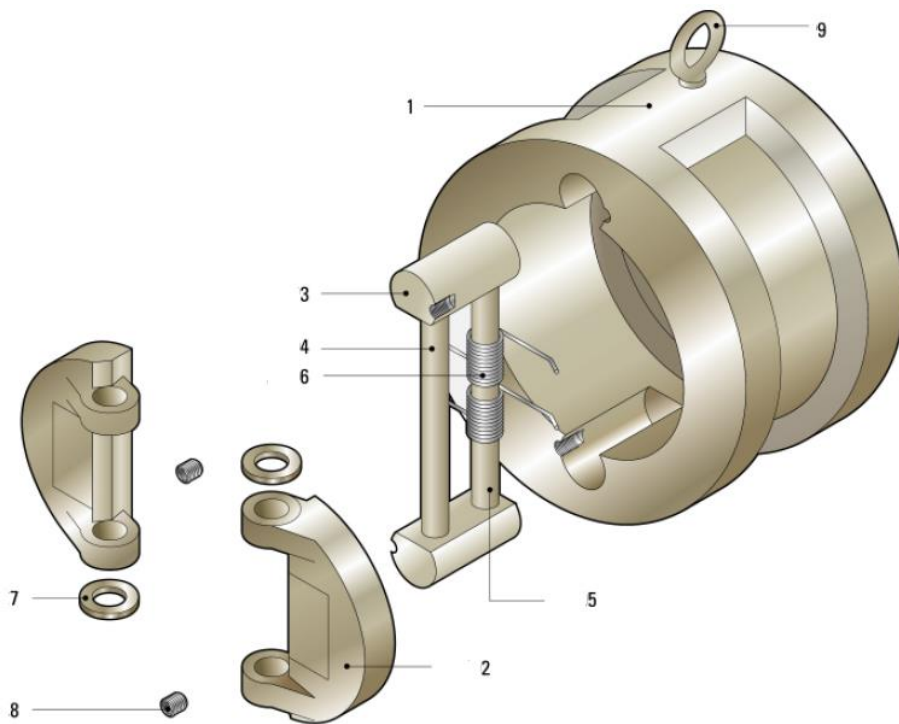


Nero dual plate check Valves Wafer Type

Design and performance Standard

ANSI B16.5 (1,5 up to 24 inch), flange dimension
ANSI B16.47 Series A (26 up to 60 inch), flange dimension
API 594- Materials, design & face to Face
API 605(B16.47)- Flange Dimension
API 6A- Flange Dimension & Face to Face
API 6D- Materials, testing procedure
API 598- Testing, allowable leakage Rate
ANSI B16.34- Wall Thickness

Valves Components



Item	parts	Qty.
1.	Body	1
2.	Disc	2
3.	Insert	2
4.	Stop Pin	1
5.	Hinge Pin	1
6.	Spring	1 to 4
7.	Washer	2 over
8.	Set Screw	2 or 4
9.	E.-Bolt	10 " over

Note: E Bolt is only available from size 10 inch

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Nero Valves GmbH

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Nero dual plate check Valves Wafer Type

Lapped Body / Disc seats (Metal to Metal)

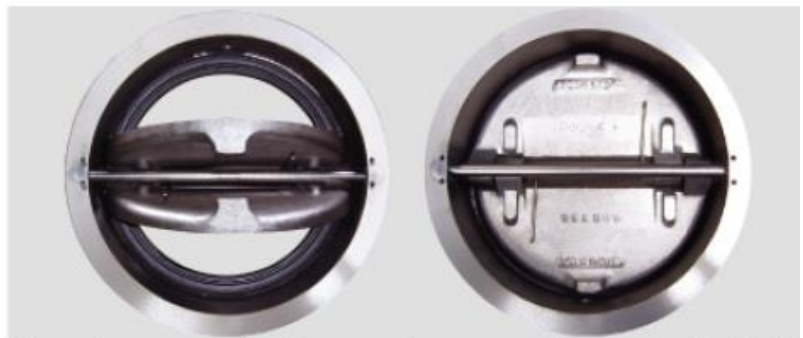


This valve is tested API 598 which has a metal to metal seat permitted leakage of 3cc/inch of bore/min. This small but significant arises because it is more difficulty to obtain a perfect seal on a shaped seat compared to a circular seat.

The disc has been specially designed to overcome this problem and to be better at sealing than another, such that near zero leakage can be economically achieved on metal to metal seats. This characteristic enables S&W to provide dual plate check valves with substantially lower leakage rates than specified in API 598.

Shock Bumpers

The plates that has bump in edge or shulder is accepted fact that there will be occasions when the plates don't arrive fully open at the same instance. Clearance on the bumper allow and ensure the plates to hit each other rather than the stop pin. This helps prevent large forces being exerted on the stop pin which coule couse damage.



The stop pin has only one purpose, to stop a plate going over top dead center when reverse flow occurs. If this did occur both plates would be on the same side of the valve leaving one port open. Therby stopping the valve performing its sole function of preventing reverse flow.

Seat Life

Increased seat life is obtained by eliminating the problem of the dragging on the seat when opening.

The soften seat has molded the seat to the body by suitable heating temperature in accordance to the materials.



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Nero dual plate check Valves Wafer Type

Minimal Seat Wear

The dual Disc Check Valve was designed to eliminate the possibility of seat wear caused by friction at the heel of the dual discs while maintaining low backpressure sealing capabilities.

The clearance between the body, disc and hinge pin results in the discs cracking open at the heel location first(Fig.5). When the valve opens, the heel does not drag across the seating surface and cause wear (fig.6).

As the Valve closes, the spring will take the toe of the disc into the seating surface first, while the line backpressure will force the heels and hinge pin back to the seat to complete the seal (Fig.7)

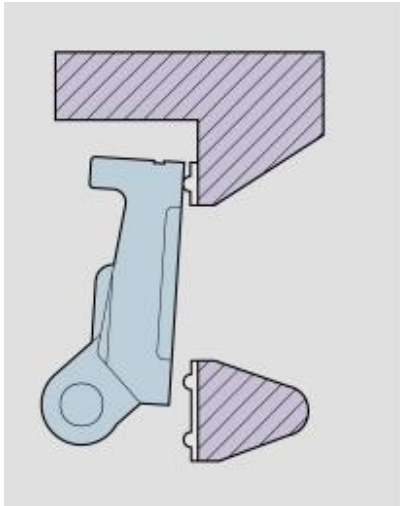


Fig.5

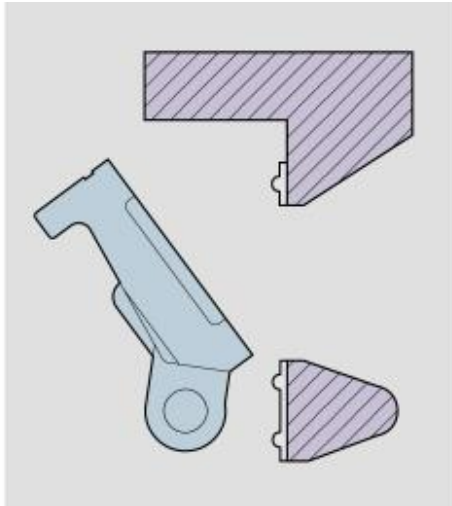


Fig 6

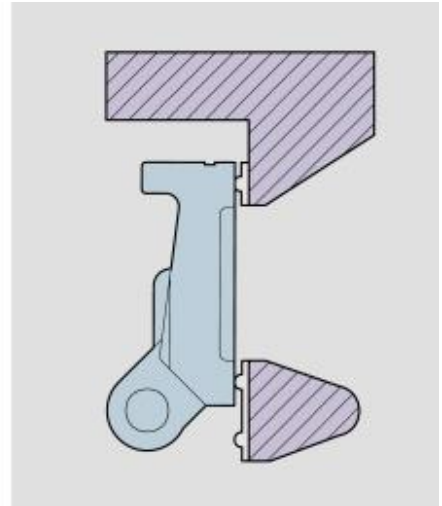


Fig.7

Resilient Seat

The basic design of the Dual Disc Check Valve is illustrated in Fig.2. This seal is chemically bonded using specially designed adhesives that provide rubber tearing bonds throughout the operating range of the seat material.

In case of resilient seat failure, the design permits the discs to float and make contact with the metal surface the seats were adhered to. This feature allows the valve to function even if the resilient seat is not present.

We also have available a seat design illustrated in Fig.3

This design results in a controlled seat squeeze and provides a metal to metal back up seal (Fig. 4)

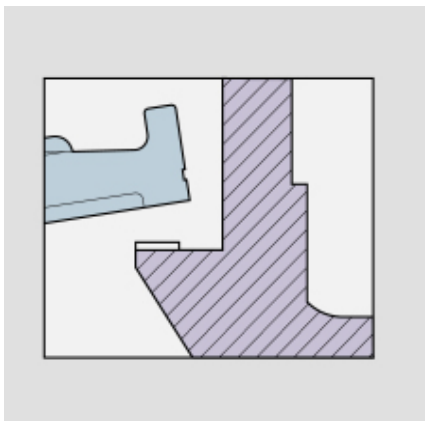


Fig.2

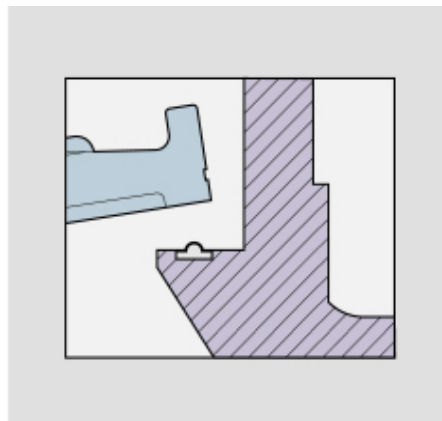


Fig 3

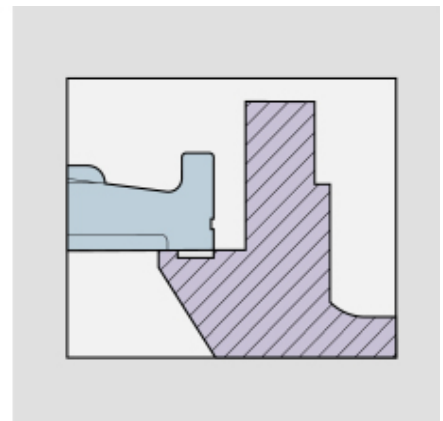


Fig.4

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Nero dual plate check Valves Wafer Type

Lower Pressure Drop

The two factors that affect pressure drop across any valve are:

- 1) The unobstructed flow area
- 2) The energy required to maintain the valve in the open position.

Specifically, full-bodied swing check valves have a disc which is hinged at the top with gravity working to keep it in the closed position. Flow must provide sufficient energy to overcome this force of gravity and lift the disc. This energy requirement increases dramatically in larger size. S&W valves are installed such that the flappers are hinged at their sides like a door. Thus, the effect of gravity is eliminated. Consequently, very little energy is needed to open the valve and maintain this position, resulting in lower energy costs.

Stronger

Lighter weight doesn't mean, however, that strength has been sacrificed. In fact a S&W check valve actually stronger than the equivalent length of pipe. The wall thickness of body has been designed more than API specification.

Valve Location and Orientation in piping

Check valve should be installed if possible a minimum of 6 pipe diameters from other line elements. i.e. elbow, pumps, valves, etc

Horizontal lines

Valve installed in horizontal lines must be bolted in place with the hinge post the vertical position. i.e. in such a manner that the hinge pin retainers are at the top and bottom of installed valve, perpendicular to the flow.

Vertical lines

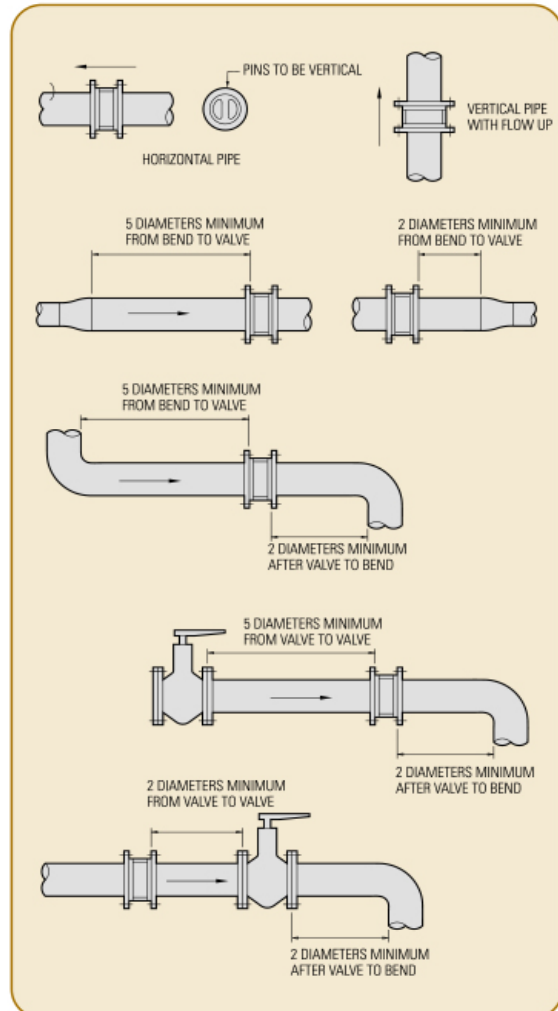
In the upward position, no special attention needs to be given to the hinge position. The only exception being when mounted directly downstream of an elbow. In this case the hinge post should be mounted perpendicular to the outermost portion of an elbow.

Precautions

- Do not install dual plate check valves directly against another valve whereby the check discharges downstream directly into the valve.
- Do not install the valve whereby it directly discharges downstream into tee or elbow fittings.
- S&W dual plate check valves should not be used in severe pulsating services such as reciprocating compressor discharges.
- It is recommended that the check valves be installed a minimum of three pipe diameters downstream of a pump or compressor.

Maintenance

The dual plate check valves are permanently lubricated and normally require no routine maintenance.



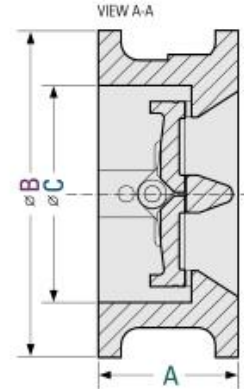
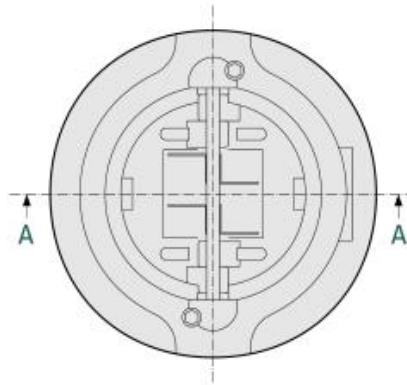
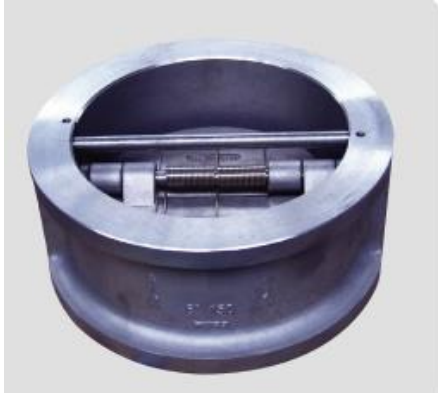
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**Dual Plate Check Valves
Wafer Type Body dimension**



Dimension Data (Class 125-2500)						Stud Selection			
SIZE in (mm)	ANSI Rating	End Facing	A in (mm)	B in (mm)	C in (mm)	Q'ty	Dia in (mm)	Length in (mm)	Weight kg
2(50)	125	FF	2.13(54)	4.09(104)	2.38(60)	4	0.63(16)	5.75(146)	2
	150	RF	2.38(60)	4.09(104)	2.38(60)	4	0.63(16)	6.00(152)	3.2
	300	RF/RJ-23	2.38(60)	4.38(111)	2.38(60)	8	0.63(16)	6.88(175)	3.2
	600	RF/RJ-23	2.38(60)	4.38(111)	2.38(60)	8	0.63(16)	6.88(175)	3.2
	900	RF/RJ-24	2.75(70)	5.63(143)	2.38(60)	8	0.88(22)	8.75(222)	8.2
	1500	RF/RJ-24	2.75(70)	5.63(143)	2.38(60)	8	0.88(22)	8.75(222)	8.2
2.5(65)	2500	RF/RJ-26	2.75(70)	5.75(146)	2.38(60)	8	1.00(25)	10.00(254)	29
	125	FF	2.13(54)	4.88(124)	2.95(75)	4	0.63(16)	6.00(152)	2.9
3(80)	150	RF	2.38(60)	4.88(124)	2.95(75)	4	0.63(16)	6.38(162)	5
	125	FF	2.24(57)	5.35(136)	3.74(95)	4	0.63(16)	6.25(159)	3.2
	150	RF	2.83(72)	5.38(137)	3.74(95)	8	0.63(16)	7.00(178)	5.9
	300	RF	2.83(72)	5.88(149)	3.74(95)	8	0.75(19)	8.13(207)	5.9
	600	RF	2.83(72)	5.88(149)	3.74(95)	8	0.75(19)	8.13(207)	5.9
	900	RF/RJ-31	3.27(83)	6.63(168)	3.74(95)	8	0.88(22)	9.50(241)	12
	1500	RF/RJ-35	3.27(83)	6.88(175)	3.74(95)	8	1.13(29)	10.50(267)	12.7
4(100)	2500	RF/RJ-32	3.39(86)	7.75(197)	3.74(95)	8	1.25(32)	12.25(311)	15.9
	125	FF	2.50(64)	6.38(162)	4.57(116)	8	0.63(16)	6.25(159)	5
	150	RF	2.84(72)	6.88(175)	4.57(116)	8	0.63(16)	7.00(178)	8.2
	300	RF	2.84(72)	7.13(181)	4.57(116)	8	0.75(19)	8.13(207)	8.2
	600	RF/RJ-37	3.11(79)	7.64(194)	4.57(116)	8	0.88(22)	9.50(241)	12.8
	900	RF/RJ-37	4.00(102)	8.11(206)	4.57(116)	8	1.13(29)	11.00(279)	19.1
	1500	RF/RJ-39	4.00(102)	8.27(210)	4.57(116)	8	1.25(32)	12.00(305)	20.5
5(125)	2500	RF/RJ-38	4.13(105)	9.25(235)	4.57(116)	8	1.50(38)	14.63(371)	29.1
	125	FF	3.23(70)	7.67(195)	5.71(145)	8	0.75(19)	6.8(172)	5.8
	150	RF	3.23(82)	7.67(195)	5.71(145)	8	0.75(19)	7.48(190)	6.7

Subject to alternation

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Nero dual plate check Valves Wafer Type

Dimension Data (Class 125-2500)						Stud Selection			
SIZE in (mm)	ANSI Rating	End Facing	A in (mm)	B in (mm)	C in (mm)	Q'ty	Dia in (mm)	Length in (mm)	Weight kg
6(150)	125	FF	3.03(77)	8.66(220)	6.61(168)	8	0.75(19)	8.25(210)	9.5
	150	RF	3.82(97)	8.75(222)	6.61(168)	8	0.75(19)	8.00(203)	12.3
	300	RF	3.82(97)	9.84(250)	6.61(168)	12	0.75(19)	9.63(245)	15.9
	600	RF/RJ-45	5.35(136)	10.50(267)	6.61(168)	12	1.00(25)	12.38(314)	20
	900	RF/RJ-45	6.25(159)	11.38(289)	6.61(168)	12	1.13(28)	14.00(355)	36.4
	1500	RF/RJ-46	6.25(159)	11.13(283)	6.61(168)	12	1.38(35)	16.75(425)	53
	2500	RF/RJ-47	6.25(159)	12.50(318)	6.61(168)	8	2.00(51)	20.50(520)	70
8(200)	125	FF	3.78(96)	10.90(277)	8.62(219)	8	0.75(19)	9.50(241)	22.8
	150	RF	4.92(125)	11.00(279)	8.62(219)	8	0.75(19)	9.75(248)	28.6
	300	RF	4.92(125)	12.13(308)	8.62(219)	12	0.88(22)	11.25(286)	34.5
	600	RF/RJ-49	6.50(165)	12.63(321)	8.62(219)	12	1.13(29)	14.50(368)	72.7
	900	RF/RJ-49	8.11(206)	14.13(359)	8.62(219)	12	1.37(35)	17.13(435)	123.2
	1500	RF/RJ-50	8.11(206)	13.88(353)	8.62(219)	12	1.63(41)	20.25(514)	116.8
	2500	RF/RJ-51	8.11(206)	15.25(387)	8.62(219)	12	2.00(51)	24.00(610)	133.2
10(250)	125	FF	4.25(108)	13.30(338)	10.75(273)	12	0.88(22)	10.50(267)	31.8
	150	RF	5.75(146)	13.38(340)	10.75(273)	12	0.87(22)	11.00(279)	48.2
	300	RF	5.75(146)	14.25(362)	10.75(273)	16	1.00(25)	12.75(324)	57.3
	600	RF/RJ-53	8.38(213)	15.75(400)	10.75(273)	16	1.25(32)	17.13(435)	118.2
	900	RF/RJ-53	9.50(241)	17.13(435)	10.75(273)	16	1.38(35)	19.00(483)	197.3
	1500	RF/RJ-54	9.75(248)	17.13(435)	10.75(273)	12	1.88(48)	23.50(597)	204.1
	2500	RF/RJ-55	10.00(254)	18.75(476)	10.75(273)	12	2.50(64)	30.50(775)	218.2
12(300)	125	FF	5.63(143)	16.02(407)	12.68(322)	12	0.88(22)	10.75(273)	50
	150	RF	7.13(181)	16.13(410)	12.68(322)	12	0.88(22)	12.25(311)	81.8
	300	RF	7.13(181)	16.63(422)	12.68(322)	16	1.13(29)	14.63(372)	90.9
	600	RF/RJ-57	9.00(229)	18.00(457)	12.68(322)	20	1.25(32)	18.00(457)	163.6
	900	RF/RJ-57	11.50(292)	19.60(498)	12.68(322)	20	1.38(35)	21.75(552)	292.7
	1500	RF/RJ-58	12.00(305)	20.50(521)	12.68(322)	16	2.00(51)	27.50(699)	374.5
	2500	RF/RJ-60	12.00(305)	21.63(549)	12.68(322)	12	2.75(70)	34.50(876)	395
14(350)	125	FF	7.25(184)	16.65(423)	13.70(348)	12	1.00(25)	13.00(330)	77.3
	150	RF	7.25(184)	17.75(451)	13.70(348)	12	1.00(25)	13.00(330)	122.7
	300	RF	8.75(222)	19.13(486)	13.70(348)	20	1.13(29)	16.50(419)	177.3
	600	RF/RJ-61	10.75(273)	19.37(492)	13.70(348)	20	1.38(35)	20.25(514)	186.4
	900	RF/RJ-62	14.00(356)	20.50(521)	13.70(348)	20	1.50(38)	25.50(648)	396.4
	1500	RF/RJ-63	14.00(356)	22.75(578)	13.70(348)	16	2.25(57)	31.50(800)	485.5
16(400)	125	FF	7.50(191)	20.11(511)	16.69(424)	16	1.00(25)	13.50(343)	102.3
	150	RF	7.50(191)	20.25(514)	16.69(424)	16	1.00(25)	13.50(343)	134.1
	300	RF	9.13(232)	21.25(540)	16.69(424)	20	1.25(32)	17.38(441)	208.2
	600	RF/RJ-65	12.00(305)	22.25(565)	16.69(424)	20	1.50(38)	22.25(565)	330.9
	900	RF/RJ-66	15.13(384)	22.63(575)	16.69(424)	20	1.63(38)	27.13(689)	533.6
	1500	RF/RJ-67	15.13(384)	25.25(641)	16.69(424)	16	2.50(64)	34.25(870)	588.6

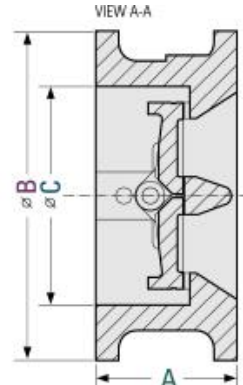
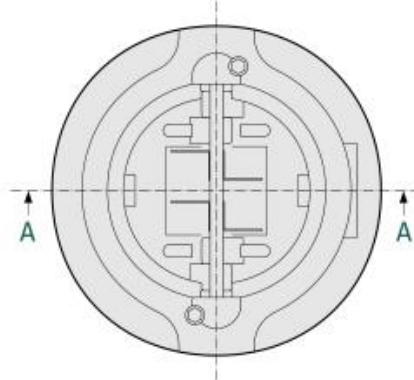
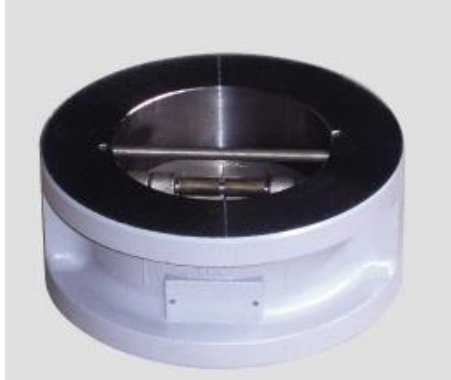
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**Dual Plate Check Valves
Wafer Type Body dimension**



Dimension Data (Class 125-2500)						Stud Selection			
SIZE in (mm)	ANSI Rating	End Facing	A in (mm)	B in (mm)	C in (mm)	Q'ty	Dia in (mm)	Length in (mm)	Weight kg
18(450)	125	FF	8.00(203)	21.61(549)	18.00(457)	16	1.13(29)	14.50(368)	127.3
	150	RF	8.00(203)	21.61(549)	18.00(457)	16	1.13(29)	14.50(368)	141.8
	300	RF	10.38(264)	23.50(597)	18.00(457)	24	1.25(32)	18.88(480)	295.5
	600	RF/RJ-69	14.25(362)	24.13(613)	18.00(457)	20	1.63(41)	25.25(641)	395.5
	900	RF/RJ-70	17.75(451)	25.13(638)	18.00(457)	20	1.88(48)	34.50(876)	610.9
	1500	RF/RJ-71	18.44(468)	27.75(705)	18.00(457)	16	2.75(70)	39.75(1010)	793.2
20(500)	125	FF	8.38(213)	23.86(606)	20.16(512)	20	1.13(29)	15.25(387)	177.3
	150	RF	8.38(213)	23.86(606)	20.16(512)	20	1.13(29)	15.13(384)	214.5
	300	RF	11.50(292)	25.51(648)	20.16(512)	24	1.25(32)	20.50(521)	364.1
	600	RF/RJ-73	14.50(368)	26.88(683)	20.16(512)	24	1.63(41)	26.25(667)	543.6
	900	RF/RJ-74	17.75(451)	27.50(699)	20.16(512)	20	2.00(51)	32.50(826)	639.1
	1500	RF/RJ-75	20.98(559)	29.76(902)	20.16(512)	16	3.00(76)	44.25(1124)	1278.2
24(600)	125	FF	8.75(222)	28.28(718)	23.75(603)	20	1.25(32)	16.25(413)	268.2
	150	RF	8.75(222)	28.25(718)	23.75(603)	20	1.25(32)	16.25(413)	358.2
	300	RF	12.50(318)	30.50(775)	23.75(603)	24	1.50(38)	22.75(578)	526.4
	600	RF/RJ-77	17.25(438)	31.13(791)	23.75(603)	24	1.88(48)	30.75(781)	819.1
	900	RF/RJ-78	19.50(495)	33.00(838)	23.75(603)	20	2.50(64)	38.00(965)	1233.2
	1500	RF/RJ-79	22.00(559)	35.50(902)	23.75(603)	16	3.50(89)	48.50(1232)	2712.7
26(650)	125	FF	11.26(286)	30.51(775)	24.78(629)	24	1.25(32)	20.39(518)	455
	150	RF	11.26(286)	30.51(775)	24.78(629)	24	1.25(32)	20.39(518)	455
	300	RF	14.01(356)	32.87(835)	24.78(629)	28	1.63(41)	24.75(628)	620
	600	RF/RJ-73	17.99(457)	34.13(867)	24.78(629)	28	1.87(47)	31.50(800)	978
	900	RF/RJ-100	20.98(533)	34.76(883)	24.78(629)	20	2.75(69)	38.75(984)	144.6

Subject to alternation

We reserve the right to make any technical modification. We are not responsible for any error in printing.





Nero dual plate check Valves Wafer Type

Dimension Data (Class 125-2500)						Stud Selection			
SIZE in (mm)	ANSI Rating	End Facing	A in (mm)	B in (mm)	C in (mm)	Q'ty	Dia in (mm)	Length in (mm)	Weight kg
28(700)	125	FF	12.64(321)	32.76(832)	27.64(702)	28	1.25(32)	22.01(559)	511
	150	RF	12.64(321)	32.76(832)	27.64(702)	28	1.25(32)	22.01(559)	511
	300	RF	15.00(381)	35.39(899)	27.64(702)	28	1.62(41)	26.25(666)	769
	600	RF/RJ-94	19.00(483)	35.98(914)	27.64(702)	28	2.00(51)	33.00(838)	1073
	900	RF/RJ-101	22.52(572)	37.24(946)	27.64(702)	20	3.00(76)	41.00(1041)	1795
30(750)	125	FF	12.00(305)	34.84(885)	30.12(765)	28	1.25(32)	21.00(533)	536
	150	RF	12.00(305)	34.84(885)	30.12(765)	28	1.25(32)	21.00(533)	536
	300	RF	14.49(368)	37.52(953)	30.12(765)	28	1.75(44)	26.50(673)	835
	600	RF/RJ-95	19.88(505)	38.27(972)	30.12(765)	28	2.00(51)	34.13(867)	1269
	900	RF/RJ-102	25.00(635)	39.72(1009)	30.12(765)	20	3.00(76)	44.00(1117)	2217
32(800)	125	FF	14.01(356)	37.00(940)	30.87(784)	28	1.50(38)	24.63(626)	690
	150	RF	14.01(356)	37.00(940)	30.87(784)	28	1.50(38)	24.63(626)	690
	300	RF	15.98(406)	39.60(1006)	30.87(784)	28	1.88(48)	28.75(730)	1027
	600	RF/RJ-96	20.98(533)	40.23(1022)	30.87(784)	28	2.25(57)	36.00(914)	1418
	900	RF/RJ-105	25.98(660)	42.24(1073)	30.87(784)	28	3.25(83)	46.25(1175)	2620
36(900)	125	FF	14.50(368)	41.25(1048)	34.00(864)	32	1.50(38)	25.88(657)	840
	150	RF	14.50(368)	41.25(1048)	34.00(864)	32	1.50(38)	25.88(657)	840
	300	RF	19(483)	44(1118)	34.00(864)	32	2(51)	32.5(826)	1269
	600	RF	25(635)	44.5(1130)	34.00(864)	28	2.5(64)	45(1143)	2120
	900	RF	28.25(718)	47.25(1200)	34.00(864)	20	3.5(89)	50.75(1289)	3259
40(1000)	125	FF	15.98(406)	45.75(1162)	38.86(987)	36	1.50(38)	26.36(669)	1190
	150	RF	17.00(432)	45.75(1162)	38.86(987)	36	1.50(38)	27.38(695)	1190
	300	RF	21.5(546)	43.88(1114)	38.86(987)	32	1.625(41)	35(889)	1825
	600	RF	26(660)	45.5(1156)	38.86(987)	32	2.25(57)	44.25(1124)	3750
	900	RF	30(762)	49.25(1251)	38.86(987)	24	3.5(89)	53.75(1365)	3972
42(1050)	125	FF	17.00(432)	47.99(1219)	39.21(996)	36	1.50(38)	28.88(734)	1500
	150	RF	17.00(432)	47.99(1219)	39.21(996)	36	1.50(38)	28.88(734)	1500
	300	RF	22.28(568)	46(1262)	39.21(996)	32	1.63(41)	37(340)	2630
	600	RF	27.63(702)	48(1219)	39.21(996)	28	2.5(64)	47.13(1197)	3135
	900	RF	31(787)	51.25(1302)	39.21(996)	24	3.5(89)	59.25(1505)	3670
48(1200)	125	FF	20.63(524)	54.49(1384)	46.97(1193)	44	1.50(38)	33.38(848)	2200
	150	RF	20.63(524)	54.49(1384)	46.97(1193)	44	1.50(38)	33.38(848)	2200
	300	RF	24.75(629)	52.13(1324)	46.97(1193)	32	1.88(48)	40.5(1029)	3909
	600	RF	31(787)	54.75(1391)	46.97(1193)	32	2.75(70)	54(1372)	4416
54(1350)	125	FF	21.26(540)	60.86(1546)	47.95(1218)	44	1.75(44)	38.25(972)	2700
	150	RF	21.25(540)	60.86(1546)	47.95(1218)	44	1.75(44)	38.25(972)	2700
	300	RF	28.25(718)	58.75(1492)	47.95(1218)	28	2.25(57)	47.25(1200)	3878

Subject to alternation

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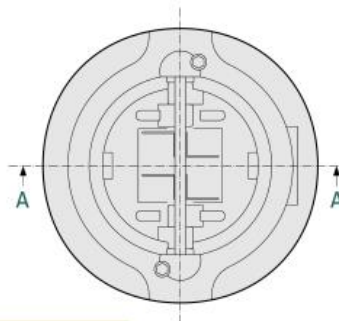
Nero Valves GmbH

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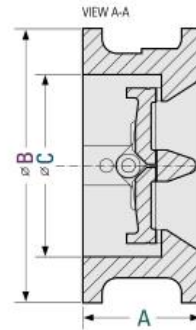
Nero dual plate check Valves Wafer Type

Dual Plate Check Valves

Wafer Type Body dimension Type A (Carbon Steel, Stainless stell Material)



JIS 2210 & KS B1511



Dimension Data (JIS 10K-20K)						Stud Selection			
SIZE in (mm)	Series	End Facing	A in (mm)	B in (mm)	C in (mm)	Q'ty	Dia in (mm)	Length in (mm)	Weight kg
2(50)	10K	RF	60	104	60	4	M16	150	2.3
	20K	RF	60	104	60	8	M16	150	2.4
2.5(65)	10K	RF	60	124	75	4	M16	160	3.2
	20K	RF	60	124	75	8	M16	160	3.9
3(80)	10K	RF	72	134	95	4	M16	168	4.1
	20K	RF	72	134	95	8	M20	180	4.3
4(100)	10K	RF	72	159	116	8	M16	165	6.1
	20K	RF	72	162	116	8	M20	185	8.2
5(125)	10K	RF	82	190	145	8	M20	190	9.1
	20K	RF	82	200	145	8	M22	200	12.1
6(150)	10K	RF	97	220	168	8	M20	205	13
	20K	RF	97	238	168	12	M22	215	13.3
8(200)	10K	RF	125	270	219	12	M20	235	22
	20K	RF	125	282	219	12	M22	250	29.2
10(250)	10K	RF	146	333	273	12	M22	265	43
	20K	RF	146	356	273	12	M24	275	44
12(300)	10K	RF	181	378	322	16	M22	300	67
	20K	RF	181	406	322	16	M24	315	70
14(350)	10K	RF	184	423	348	16	M22	305	81
	20K	RF	222	447	348	16	M30	375	83
16(400)	10K	RF	191	486	424	16	M24	320	104
	20K	RF	232	510	424	16	M30	395	135
18(450)	10K	RF	203	539	457	20	M24	335	132
	20K	RF	264	575	457	20	M30	435	183
20(500)	10K	RF	213	596	512	20	M24	350	170
	20K	RF	292	630	512	20	M30	465	246
24(600)	10K	RF	222	697	603	24	M30	370	230
	20K	RF	318	734	603	24	M36	510	423
28(700)	10K	RF	321	807	702	24	M30	460	510
	20K	RF	381	852	702	24	M45	625	576
30(750)	10K	RF	305	867	765	24	M30	465	536
	20K	RF	368	914	765	24	M52	634	718
32(800)	10K	RF	356	917	784	28	M30	515	690
	20K	RF	406	974	784	24	M52	680	900
36(900)	10K	RF	368	1017	864	28	M30	530	840
	20K	RF	483	1084	864	28	M52	765	1300
40(1000)	10K	RF	432	1121	987	28	M36	585	1190
48(1200)	10K	RF	524	1341	1193	32	M36	710	2200
54(1350)	10K	RF	540	1495	1281	36	M42	800	2700

Subject to alternation

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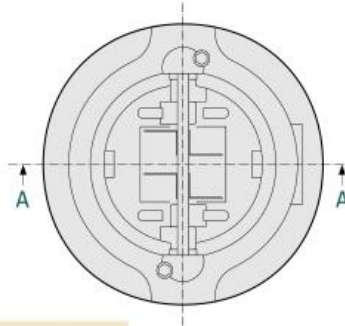
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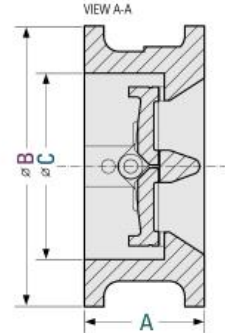


Dual Plate Check Valves

Wafer Type Body dimension Type B (Carbon Steel, Stainless steel Material)



JIS 2210 & KS B1511



Dimension Data (JIS 10K-20K)						Stud Selection			
SIZE in (mm)	KS/JIS Rating	End Facing	A in (mm)	B in (mm)	C in (mm)	Q'ty	Dia in (mm)	Length in (mm)	Weight kg
2(50)	10K	RF/FF	54	104	60	4	0.625	145	2
2.5(65)	10K	RF/FF	54	124	75	4	0.625	155	2.9
3(80)	10K	RF/FF	57	134	95	4	0.625	153	3.2
4(100)	10K	RF/FF	64	159	116	8	0.625	157	5
5(125)	10K	RF/FF	70	190	145	8	0.75	178	6.7
6(150)	10K	RF/FF	77	220	168	8	0.75	185	9.5
8(200)	10K	RF/FF	96	270	219	8	0.75	205	16.6
10(250)	10K	RF/FF	108	333	273	12	0.875	228	28.3
12(300)	10K	RF/FF	143	378	322	12	0.875	264	46
14(350)	10K	RF/FF	184	423	348	12	1.00	305	72
16(400)	10K	RF/FF	191	486	424	16	1.00	320	96
18(450)	10K	RF/FF	203	539	457	26	1.125	335	132
20(500)	10K	RF/FF	213	596	512	20	1.125	350	170
24(600)	10K	RF/FF	222	697	603	20	1.125	370	230
28(700)	10K	RF/FF	321	807	702	28	1.25	560	511
30(750)	10K	RF/FF	305	867	765	28	1.25	465	536
32(800)	10K	RF/FF	356	917	784	28	1.50	515	690
36(900)	10K	RF/FF	368	1017	864	32	1.50	530	840
40(1000)	10K	RF/FF	406	1121	987	36	1.50	585	1190
48(1200)	10K	RF/FF	524	1314	1193	44	1.50	710	2200
54(1350)	10K	RF/FF	540	1495	1281	44	1.75	800	2700

Subject to alternation

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Dual Plate Check Valves

Wafer Type Body dimension according to DIN2501

Dimension Data (DIN PN10-PN40)						Stud Selection			
SIZE in (mm)	Pressure Rating	End Facing	A in (mm)	B in (mm)	C in (mm)	Q'ty	Dia in (mm)	Length in (mm)	Weight kg
2(50)	PN10		60.3	109	60	4	M16		3.2
	PN16		60.3	109	60	4	M16		3.2
	PN25		60.3	109	60	4	M16		3.2
	PN40		60.3	109	60	4	M16		3.2
3(80)	PN10		73.0	144	95	8	M16		7.7
	PN16		73.0	144	95	8	M16		7.7
	PN25		73.0	144	95	8	M16		7.7
	PN40		73.0	144	95	8	M16		7.7
4(100)	PN10		73.0	164	116	8	M16		9
	PN16		73.0	164	116	8	M16		9.5
	PN25		73.0	170	116	8	M20		10
	PN40		73.0	170	116	8	M20		10.5
6(150)	PN10		98.4	220	168	8	M20		15.5
	PN16		98.4	220	168	8	M20		16
	PN25		98.4	226	168	8	M24		19.4
	PN40		98.4	226	168	8	M24		20
8(200)	PN10		127.0	275	219	8	M20		35
	PN16		127.0	275	219	12	M20		36
	PN25		127.0	286	219	12	M24		38
	PN40		127.0	293	219	12	M27		40
10(250)	PN10		146.1	330	273	12	M20		51
	PN16		146.1	331	273	12	M24		52
	PN25		146.1	343	273	12	M27		54
	PN40		146.1	355	273	12	M30		56
12(300)	PN10		181.0	380	322	12	M20		94
	PN16		181.0	386	322	12	M24		97
	PN25		181.0	403	322	16	M27		98
	PN40		181.0	420	322	16	M30		99
14(350)	PN10		184.2	440	348	16	M20		122
	PN16		184.2	446	348	16	M24		123
	PN25		222.3	460	348	16	M30		174
	PN40		222.3	477	348	16	M33		176
16(400)	PN10		190.5	491	424	16	M24		131
	PN16		190.5	498	424	16	M27		133
	PN25		231.8	517	424	16	M33		204
	PN40		231.8	549	424	16	M36		207
18(450)	PN10		203.2	541	457	20	M24		141
	PN16		263.5	558	457	20	M27		284
	PN25								
	PN40		263.5	574	457	20	M36		294
20(500)	PN10		219.1	596	512	20	M24		215
	PN16		292.1	620	512	20	M30		354
	PN25		292.1	627	512	20	M33		359
	PN40		292.1	631	512	20	M39		363
24(600)	PN10		222.3	698	603	20	M27		358
	PN16		317.5	737	603	20	M33		518
	PN25		317.5	734	603	20	M36		516
	PN40		317.5	750	603	20	M45		521

Subject to alternation

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