

EN- Technical data sheet

Non-return valve

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Article code

20	2	1	888
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Diameter

08	DN 80
10	DN 100
12	DN 120
...	
31	DN 315

②

Thickness

1	1.5 mm (<i>DN 80 only</i>)
2	2.0 mm

③

Surface

1	1.0330, powder-coated
3	1.4301, shot-blasted

④

Article group

888	Non-return valve
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1 Technical data

Area of application and use	Prevents flow in pneumatic conveying lines against the flow and conveying direction. Responsiveness can be adjusted via the lever angle and displacement of the counterweight.
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Connection	Both sides with flanged edges (<i>lips</i>) for clamping ring connection
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Materials	
Case	According to article number 1.0330 (DC01) or 1.4301 (X5CrNi18-10) in specified material thickness
Flap	Made of 1.0330 (DC01) or 1.4301 (X5CrNi18-10) in thickness $t = 3 \text{ mm}$
Flap seal	Silicone sealing ring, transparent, 60 ± 5 Shore A
Shaft seal	On the drive side with two O-rings made of FKM/FPM (Viton), other side without seal with welded-on, closed bushing

Surfaces and temperature		
Surface treatment	Powder Coating (1.0330)	Stainless Steel Shot Blasting (1.4301)
	Standard colour: RAL 7032 ("pebble grey"); smooth, satin-gloss, electrostatically dissipative; Food physiologically harmless; Average layer thickness: 30 - 60 μm	Surface roughness R_a : 1.3 μm
Ambient temperature	-20°C to +120°C (from +80°C impairment of the appearance is to be expected)	-20°C to +200°C
Product temperature*	-20°C to +120°C (from +80°C impairment of the appearance is to be expected)	-20°C to +200°C

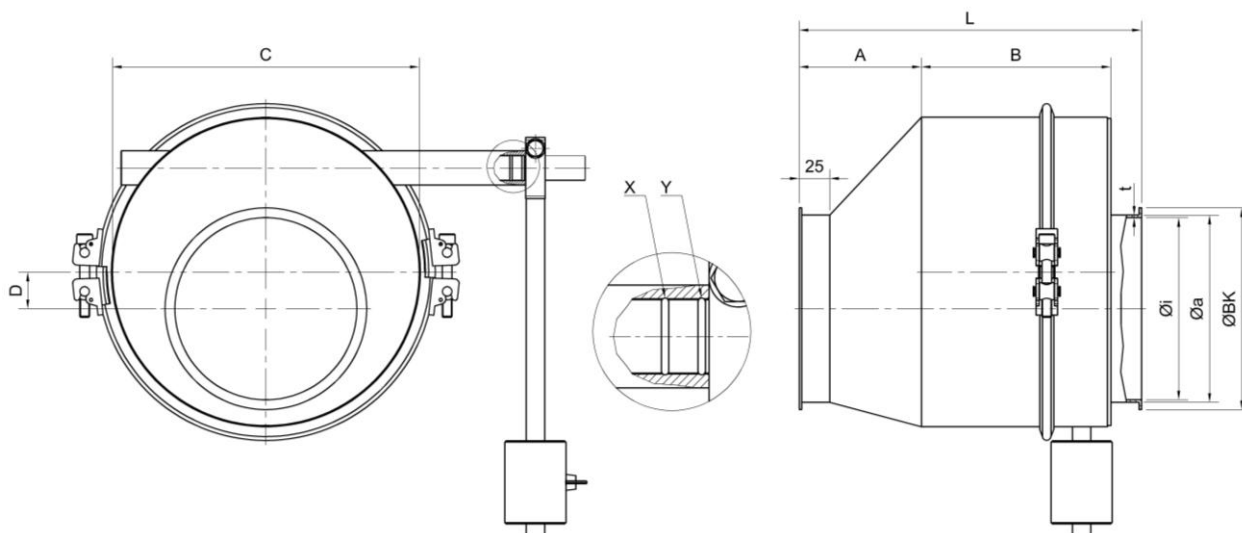
Pressure required (in mbar) to open the check valve			
DN 80	31,47	DN 200	7,95
DN 100	19,03	DN 224	7,23
DN 120	11,73	DN 250	4,69
DN 140	8,05	DN 280	3,84
DN 150	13,31	DN 300	3,32
DN 160	12,22	DN 315	3,19
DN 175	9,50	/	/

*Note: If product temperatures exceed 50°C, the manual control or drive must be insulated against heat conduction on site.

2 Dimensions

Dimension table

pictured version: DN 200



X= O-ring made of FKM/FPM (Viton), colour: black

Y= O-ring made of FKM/FPM (Viton), colour: black

DN	t [mm]	Øi [mm]	Øa [mm]	ØBK [mm]	A [mm]	B [mm]	C [mm]	D [mm]	L [mm]	m [kg]
80	1,5	77,5	80,5	92,5	85	103	150	20	210	4,5
100	2	99	103	115	90	118	175	23	230	5,2
120	2	119	123	135	100	135	200	25	255	6
140	2	135	139	151	100	155	250	35	280	7,6
150	2	149	153	165	100	155	250	30	280	8,3
160	2	159	163	175	130	160	250	25	315	8,6
175	2	174	178	190	130	160	300	35	315	10,2
200	2	199	203	215	140	185	300	35	350	10,6
224	2	219	223	235	165	230	300	35	415	12,9
250	2	249	253	265	165	225	350	35	415	13,6
280	2	278	282	294	195	260	450	55	480	19,4
300	2	299	303	315	195	260	450	55	480	19,6
315	2	313	317	329	230	295	450	55	550	20,9

Tolerances

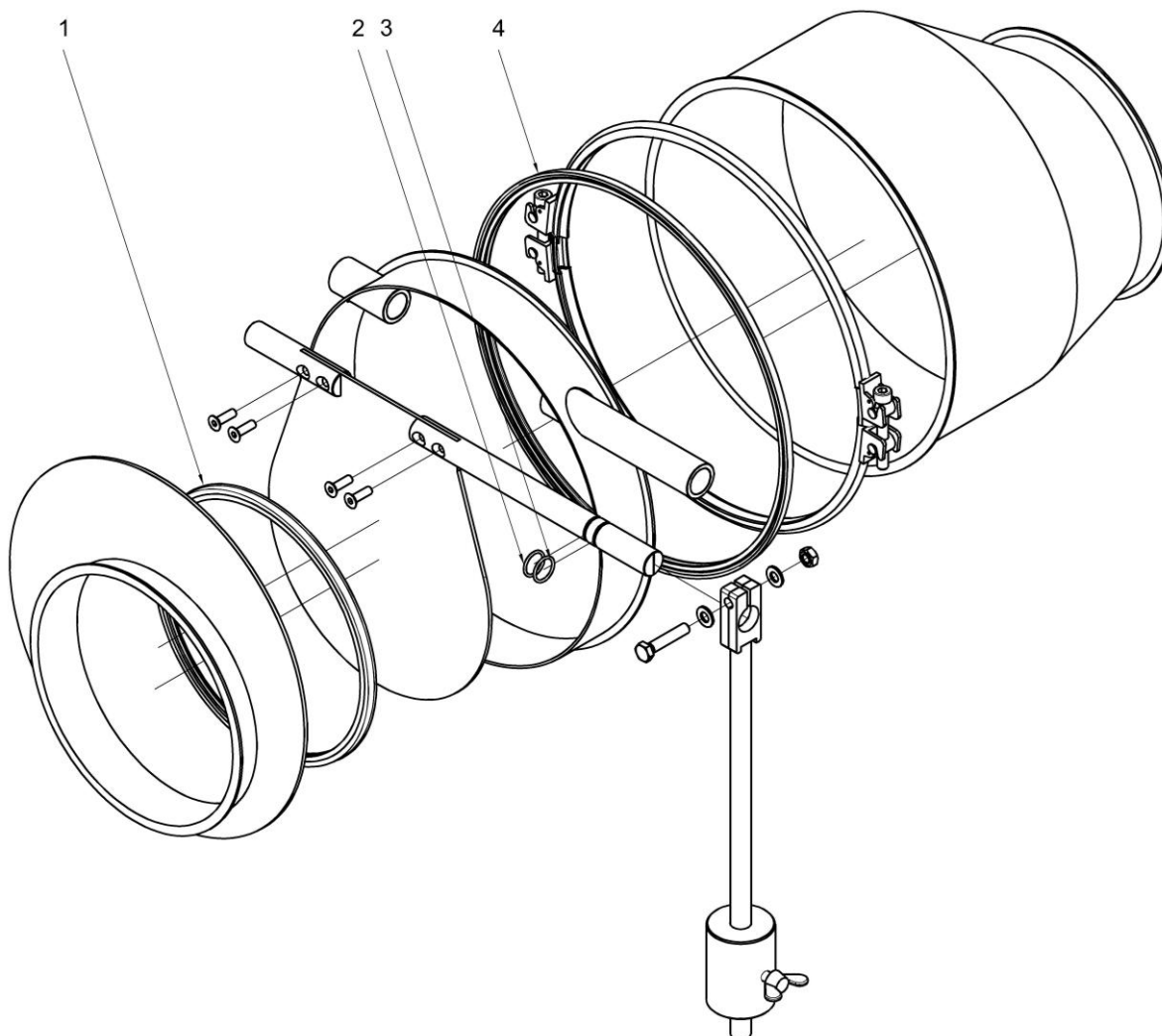
Pipe diameter and roundness according to DIN EN 10296-1:2004
Length and angular dimensions according to DIN ISO 2768-v (very coarse)
Lips: 6 mm ± 1 mm

3D-Models

All 3D-models are available for download in our [CAD portal](#) in the common file formats.

3 Spare parts list

Exploded view



No.	Naming	Quantity	DN 80 – DN 315	
			1.0330	1.4301
1	Sealing ring D1	1	(see table, p.5)	
2	O-ring made of FKM/FPM (Viton)	1	SO0129114	
3	O-ring made of FKM/FPM (Viton)	1	SO0129114	
4	Sealing ring D2	1	(see table, p.5)	

Sealing rings (item no.: 1 and 4)		
DN	Sealing ring D1	Sealing ring D2
80	0818160	1528160
100	1028160	1728160
120	1228160	2028160
140	1428160	2528160
150	1528160	2528160
160	1628160	2528160
175	1728160	3028160
200	2028160	3028160
224	2228160	3028160
250	2528160	3528160
280	2828160	4528160
300	3028160	4528160
315	3128160	4528160