

EN- Technical data sheet

Two-way valve with flap seal, 45°, manually operated

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Article code

20	2	1	13510
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①

Diameter

10 DN 100

12 DN 120

15 DN 150

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40 DN 400

②

Thickness

2 2.0 mm

3 3.0 mm

③

Surface

1 1.0330, powder-coated

2 1.0330, hot-dip galvanized

3 1.4301, shot-blasted

④

Article group

13510 Two-way valve with flap seal, 45°, manually operated, asymmetrical

13610 Two-way valve with flap seal, 45°, manually operated, symmetrical

1 Technical data

Area of application and use	Dust-tight deflection of dry, non-abrasive bulk materials in conveyor systems. With the flap seal intact, there is no risk of mixing. Flap seal replaceable. Only suitable for pressureless conveying. Adjustment only in the event of interrupted product flow.
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Connection	All sides with flanged edges (<i>lips</i>) for clamping ring connections.
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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 1.0038 (S235JR) or 1.4301 (X5CrNi18-10) in thickness $t = 3 \text{ mm}$
Flap seal	Flat seal made of silicone, transparent, 60 ± 5 Shore A
Shaft seal	Silicone profile seal, transparent, 60 ± 5 Shore A
Shaft sealing ring	Flat sealing ring made of silicone, transparent, 60 ± 5 Shore A

Surfaces and temperature			
Surface treatment	Powder Coating (1.0330)	Hot-dip Galvanizing (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	Average layer thickness: 45 - 55 μm	Surface roughness Ra: 1.3 μm
Ambient temperature	-20°C to +120°C (from +80°C impairment of the appearance is to be expected)	-20°C to +80°C (possible for short periods up to max. +120°C)	-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 +80°C (possible for short periods up to max. +120°C)	-20°C to +200°C

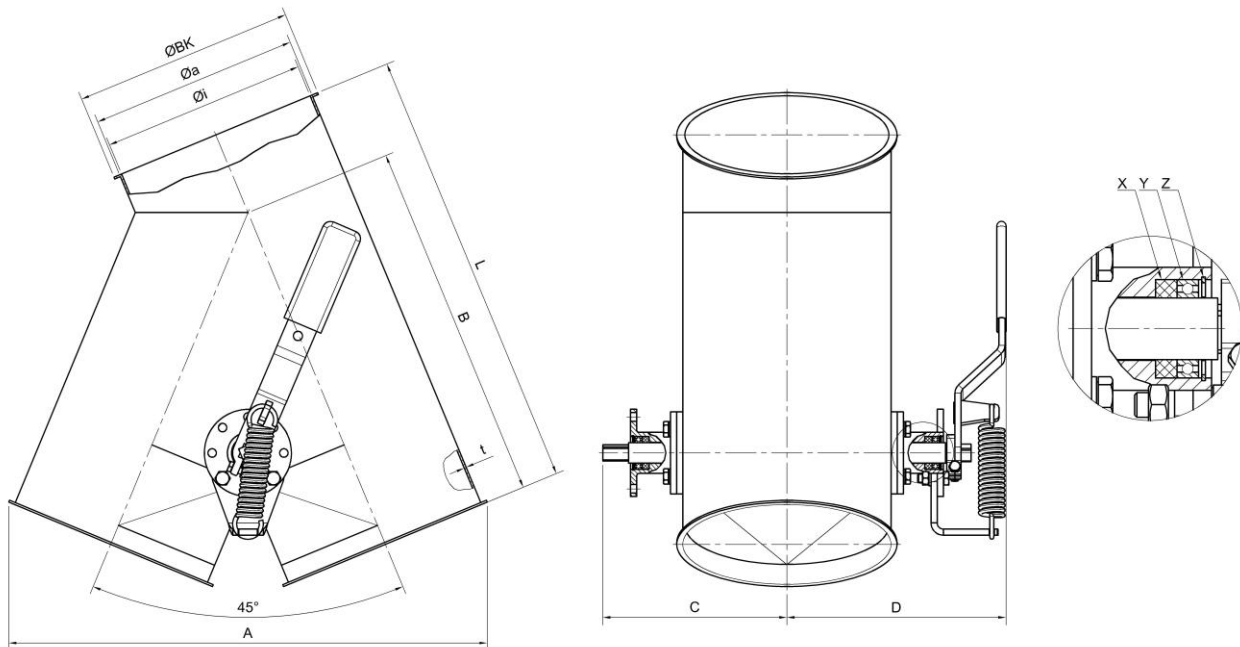
Actuation	Hand lever with spring for manual operation
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**Note: If product temperatures exceed 50°C, the manual control or drive must be insulated against heat conduction on site.*

2 Dimensions

Dimension table: 45°, asymmetrical

pictured version: DN 200



X= Silicone shaft sealing ring
Y= Deep groove ball bearings
Z= Retaining ring

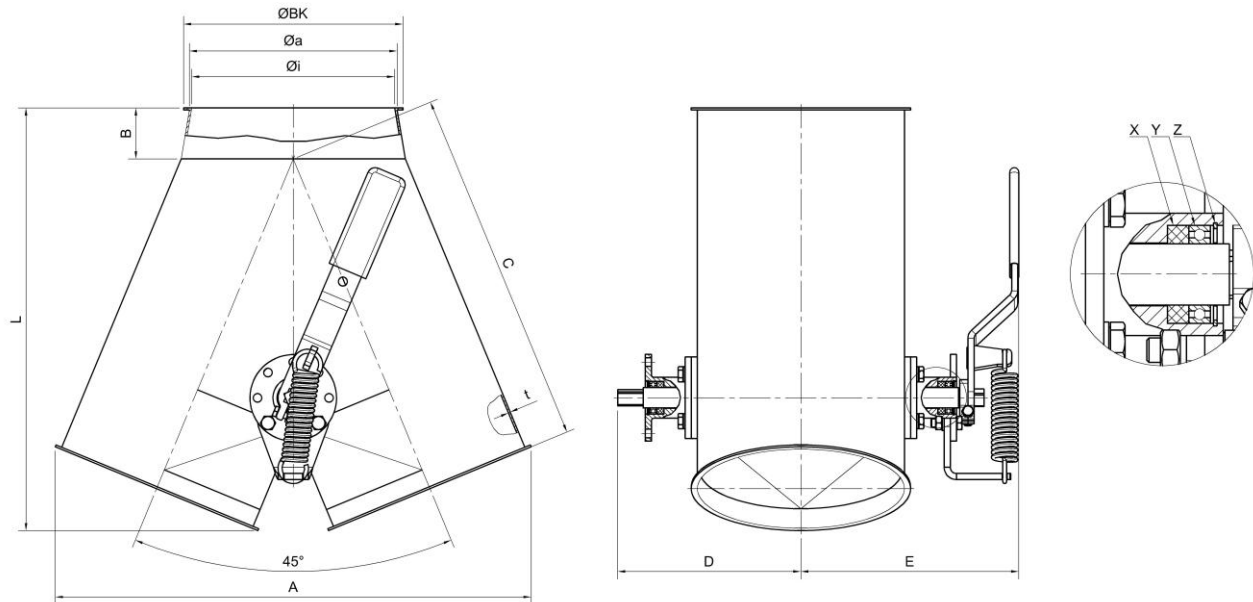
DN	t [mm]	Øi [mm]	Øa [mm]	ØBK [mm]	A [mm]	B [mm]	C [mm]	D [mm]	L [mm]	m [kg]
100	2	99	103	115	250	185	127,5	163,1	226	4,9
120		119	123	135	301	228	137,5	173,1	273	6
150		149	153	165	360	270	152,5	188,6	321	7,5
175		174	178	190	415	310	165	201,1	367	9,1
200		199	203	215	468	350	177,5	213,6	412	11
250		249	253	265	567	418	202,5	238,6	501	15,2
300		299	303	315	673	497	227,5	263,6	590	20,1
350		349	353	365	758	547	252,5	288,6	705	26,4
400		399	403	415	896	667	277,5	313,6	850	34,9

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NORO
SOLIDLY CONNECTED

Dimension table: 45°, symmetrical

pictured version: DN 200



X= Silicone shaft sealing ring
Y= Deep groove ball bearings
Z= Retaining ring

DN	t [mm]	Øi [mm]	Øa [mm]	ØBK [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	L [mm]	m [kg]
100	2	99	103	115	250	35	185	127,5	163,1	228	4,9
120		119	123	135	301	40	228	137,5	173,1	276	5,9
150		149	153	165	360	50	269	152,5	188,6	331	7,5
175		174	178	190	415	50	310	165	201,1	373	9
200		199	203	215	468	50	350	177,5	213,6	415	10,9
250		249	253	265	567	70	418	202,5	238,6	507	15
300		299	303	315	673	80	497	227,5	263,6	599	19,9
350		349	353	365	758	100	547	252,5	288,6	671	25,4
400		399	403	415	896	120	667	277,5	313,6	815	33,3

Tolerances

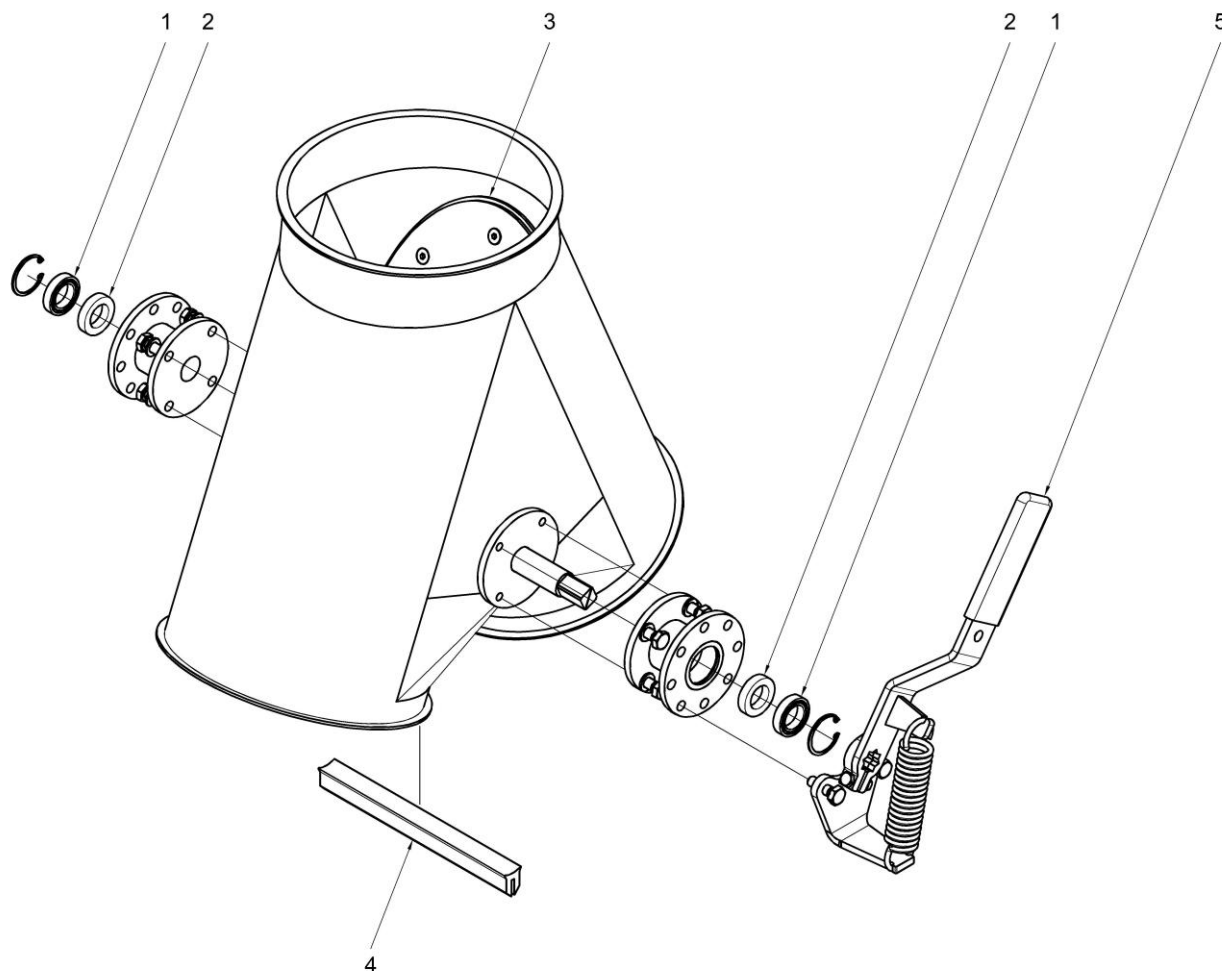
Pipe diameter and roundness according to DIN EN 10296-1:2004
Length and angular dimensions according to DIN ISO 2768-v (very coarse)
Lips: 6 mm ± 1 mm

3D-Models

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

3 Spare parts list

Exploded view



N0.	Naming	Quantity	DN 100 – DN 400	
			1.0330	1.4301
1	Deep groove ball bearings <i>(for shaft diameter 20 mm)</i>	2	SO0128616	SO0118470
2	Shaft sealing ring <i>(for shaft diameter 20 mm)</i>	2	SO0118471	
3	Flap seal		<i>(see table, p. 6)</i>	
4	Shaft seal	1	SO0107217	
5	DN 80 – DN 120: Manual operation	1	SO0118697	
5	DN 150 – DN 400: Manual operation	1	SO0117147	

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Flap seal (Item No.: 3)		
DN	Quantity	Article
100	1	SO0130285
120		SO0130286
150		SO0131583
175		SO0129125
200		SO0128748
250		SO0129539
300		SO0130287
350		SO0129964
400		SO0130288