

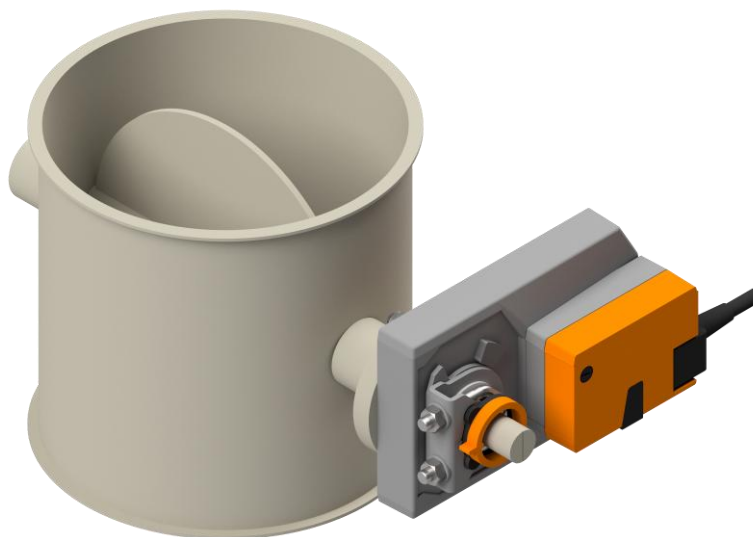
EN- Technical data sheet

Stop valve without seal, electrically operated, plug-in motor

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Article code

20	1	1	2171/24V
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①

Diameter

08	DN 80
10	DN 100
12	DN 120
...	
30	DN 300

②

Thickness

1	1.5 mm
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③

Surface

1	1.0330, powder-coated
2	1.4301, shot-blasted

④

Article group

2171/24V	Stop valve without seal, electrically operated, plug-in motor, 24V
2171/230V	Stop valve without seal, electrically operated, plug-in motor, 230V

1 Technical data

Area of application and use	Shut-off (OPEN / CLOSED) of air volume flows in ventilation systems by operating the flap. The actuation time depends on the drive. <i>(see table 1.1 Actuation, p.3)</i>
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Connection	Both sides with flanged edge (<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 1.0038 (S235JR) or 1.4301 (X5CrNi18-10) in thickness $t = 4 \text{ mm}$
Flap seal	Without seal
Shaft seal	Flat sealing ring made of silicone, transparent, $60 \pm 5 \text{ Shore A}$

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: $30 - 60 \text{ }\mu\text{m}$	Surface roughness $R_a: 1.3 \text{ }\mu\text{m}$
Ambient temperature	-30°C to $+50^{\circ}\text{C}$	
Product temperature*	-20°C to $+120^{\circ}\text{C}$ <i>(from $+80^{\circ}\text{C}$ impairment of the appearance is to be expected)</i>	-10°C to $+180^{\circ}\text{C}$

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

1.1 Actuation

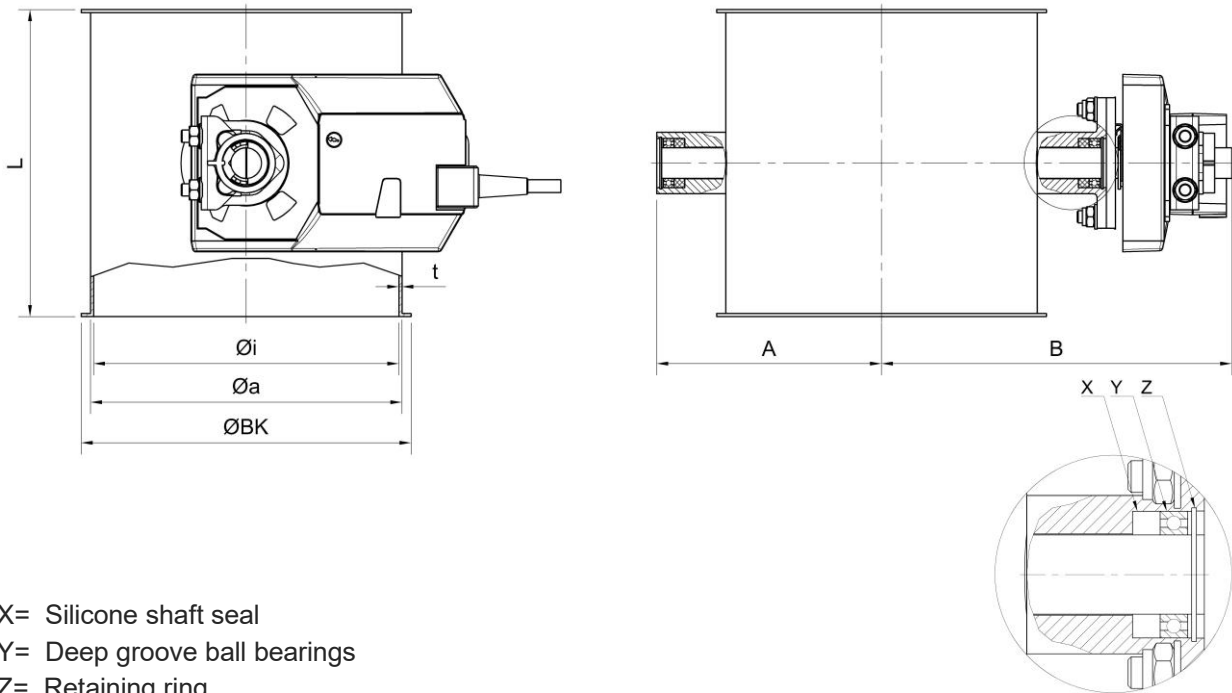
Electric plug-in motor		
Diameter	DN 80 – DN 175	
Nominal voltage	24V	230V
Make	Belimo	
Type	SM24A	SM230A
Voltage	24V AC/DC (50/60 Hz)	100V bis 240V AC (50/60 Hz)
Power consumption	0,2 W (Ruhe) / 2 W (Betrieb)	0,6 W (Ruhe) / 2,5 W (Betrieb)
Torque	20 Nm	
Actuation time (90°)	150 seconds	
Manual adjustment	with push button, lockable	
Noise level	45 dB	
Degree of protection	IP54	
Ambient temperature	-30°C to +50°C	
Electrical connection	pre-assembled cable, length 1 m, 3-wire (3× 0.75 mm²)	

Diameter	DN 200 – DN 300	
Nominal voltage	24V	230V
Make	Belimo	
Type	GM24A	GM230A
Voltage	24V AC/DC (50/60 Hz)	100V bis 240V AC (50/60 Hz)
Power consumption	2 W (Ruhe) / 4 W (Betrieb)	2,5 W (Ruhe) / 5 W (Betrieb)
Torque	40 Nm	
Actuation time (90°)	150 seconds	
Manual adjustment	with push button, lockable	
Noise level	45 dB	
Degree of protection	IP54	
Ambient temperature	-30°C to +50°C	
Electrical connection	pre-assembled cable, length 1 m, 3-wire (3× 0.75 mm²)	

2 Dimensions

Dimension table

pictured version: DN 200



DN	t [mm]	Øi [mm]	Øa [mm]	ØBK [mm]	L [mm]	A [mm]	B [mm]	m [kg]
80	1,5	77,5	80,5	92,5	80	85,3	161,3	4,0
100		99,5	102,5	114,5	100	96,3	172,3	4,3
120		119,5	122,5	134,5	120	106,3	182,3	4,6
140		135,5	138,5	150,5	140	114,3	190,3	5,0
150		149,5	152,5	164,5	150	121,3	197,3	4,7
160		159,5	162,5	174,5	160	126,3	202,3	4,9
175		174,5	177,5	189,5	175	133,8	209,8	5,2
200		199,5	202,5	214,5	200	146,3	224,6	5,8
224		219,5	222,5	234,5	200	156,3	234,6	6,2
250		249,5	252,5	264,5	200	171,3	249,6	6,8
280		278,5	281,5	293,5	200	185,8	264,1	7,4
300		299,5	302,5	314,5	200	196,3	274,6	7,8

Tolerances

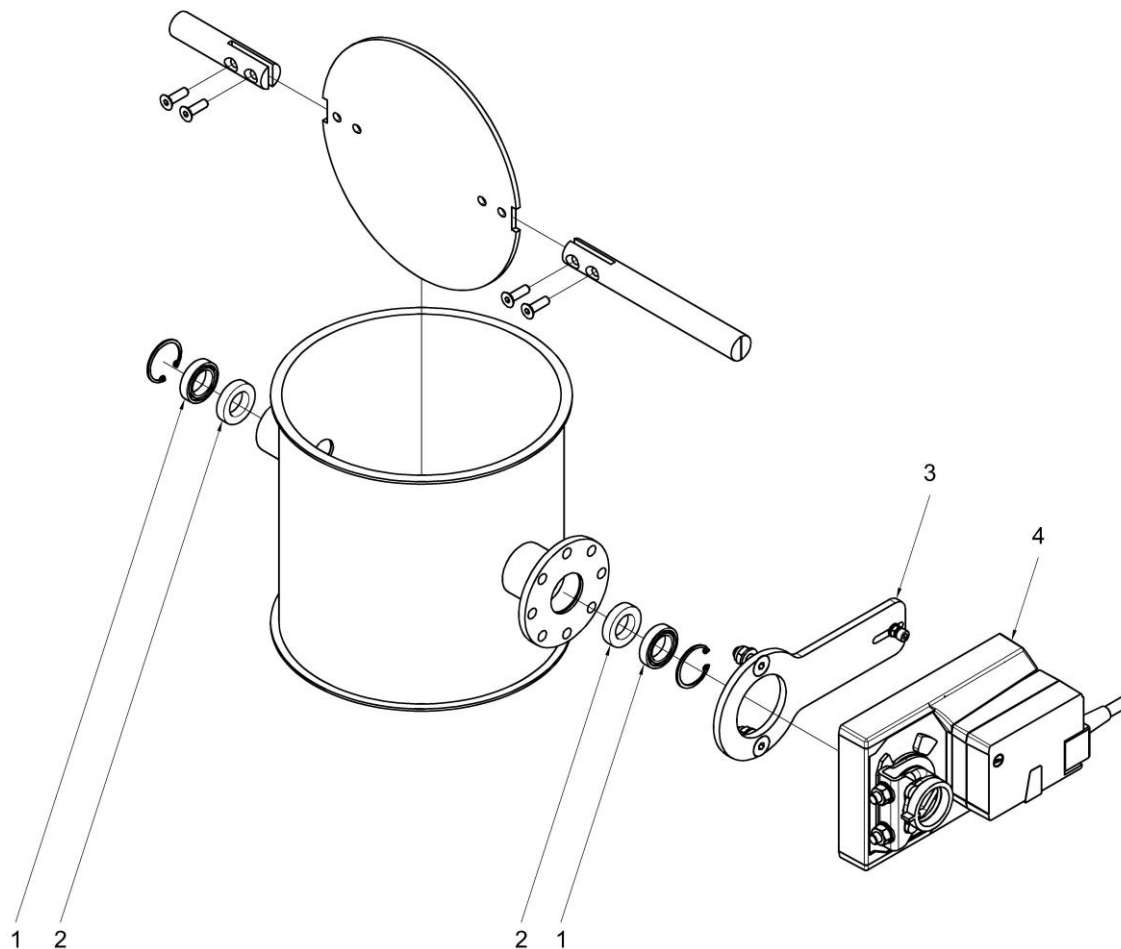
Pipe diameter and roundness according to DIN EN 10296-1:2004
 Length and angular dimensions according to DIN ISO 2768-v (very coarse)
 Lips: 6 mm ± 1mm

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 175	
			1.0330	1.4301
1	Deep groove ball bearings <i>(for shaft diameter 20mm)</i>	2	SO0128616	SO0118470
2	Shaft seal <i>(for shaft diameter 20mm)</i>	2	SO0118471	
3	Mounting bracket <i>(for series SM)</i>	1	SO0129244	SO0129245
4	Plug-in motor <i>(SM24A)</i>	1	SO0111753	
4	Plug-in motor <i>(SM230A)</i>	1	SO0131355	

No.	Naming	Quantity	DN 200 – DN 300	
			1.0330	1.4301
1	Deep groove ball bearings <i>(for shaft diameter 20mm)</i>	2	SO0128616	SO0118470
2	Shaft seal <i>(for shaft diameter 20mm)</i>	2	SO0118471	
3	Mounting bracket <i>(for series GM)</i>	1	SO0129246	SO0129247
4	Plug-in motor <i>(GM24A)</i>	1	SO0109640	
4	Plug-in motor <i>(GM230A)</i>	1	SO0131356	