

EN- Technical data sheet

Stop valve with seal, electrically operated, actuating drive, ATEX

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Article code

20	2	1	2188/24V	/ATEX
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①

Diameter

08	DN 80
10	DN 100
12	DN 120
...	
63	DN 630

②

Thickness

1	1.5 mm (DN 80 only)
2	2.0 mm

③

Surface

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

④

Article group

2188/24V	Stop valve with seal, electrically operated, actuating drive 24V
2188/230V	Stop valve with seal, electrically operated,

1 Technical data

Area of application and use	Dust-tight shut-off (OPEN / CLOSED) of air volume flows in ventilation systems (overpressure max. 0.03 bar) as well as free-flowing, powdery or granular bulk materials (KSt value max. 160 bar m/sec) by operating the flap. The actuation time depends on the drive. <i>(see table 1.1 Actuation, pp. 3-4)</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	Silicone profile seal, transparent, 60 ± 5 Shore A
Shaft seal	Flat sealing ring made of silicone, transparent, 60 ± 5 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	-10°C to $+55^{\circ}\text{C}$	
Product temperature*	-20°C to $+120^{\circ}\text{C}$ <i>(from $+80^{\circ}\text{C}$ impairment of the appearance is to be expected)</i>	-20°C to $+180^{\circ}\text{C}$

ATEX approval	
Application	Group II, Category 3D Zone 22
Marking	 II 3 D c T 130°C
Equipotential bonding	with welded earthing bolts for on-site grounding

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

1.1 Actuation

Electric actuating drive, ATEX				
Diameter	DN 80 – DN 300		DN 315 – DN 450	
Nominal voltage	24V	230V	24V	230V
Make	Valpes			
Series	VRX		VSX	
Type	VRX75.70B.G00	VRX75.70A.G00	VSX100.90B.G00	VSX100.90A.G00
Voltage	15V to 30V AC (50/60Hz) 12V to 48V DC	100V to 240V AC (50/60 Hz) 100V - 350V DC	15V to 30V AC (50/60Hz) 12V to 48V DC	100V to 240V AC (50/60 Hz) 100V - 350V DC
Power consumption	45 W			
Torque	75 Nm		100 Nm	
Actuation time (90°)	20 seconds		15 seconds	
A/F Double Square	17 mm		22 mm	
Manual operation	Outgoing axle		Handwheel	
Duty cycle	50 %			
Limit switch	Four (2x position detection, 2x feedback) 4V to 24V DC and 12 to 250V AC / max. 5A			
Degree of protection	IP68			
Ambient temperature	-20°C to +70°C			
ATEX approval	II 2 G D Ex db IIB T6 Gb Ex tb IIIC T80 °C D			
Electrical connection	2x cable gland ISO M20			

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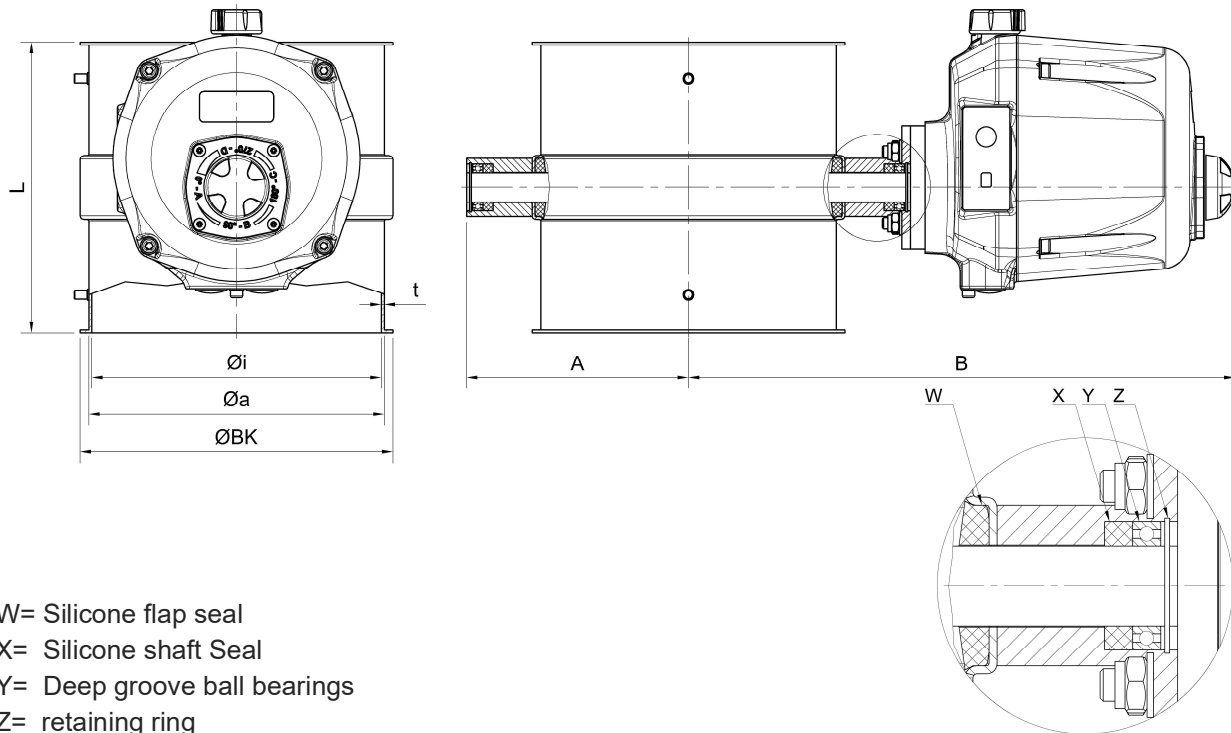


Diameter	DN 500 – DN 630	
Nominal voltage	24V	230V
Make	Valpes	
Series	VSX	
Type	VSX150.90B.G00	VSX150.90A.G00
Voltage	15V to 30V AC (50/60Hz) 12V to 48V DC	100V to 240V AC (50/60 Hz) 100V - 350V DC
Power consumption	45 W	
Torque	150 Nm	
Actuation time (90°)	30 seconds	
A/F Double Square	22 mm	
Manual operation	Handwheel	
Duty cycle	50 %	
Limit switch	Four (2x position detection, 2x feedback) 4V to 24V DC and 12V to 250V AC / max. 5A	
Degree of protection	IP68	
Ambient temperature	-20°C to +70°C	
ATEX approval	II 2 G D Ex db IIB T6 Gb Ex tb IIIC T80 °C D	
Electrical connection	2x cable gland ISO M20	

2 Dimensions

Dimension table

pictured version: DN 200



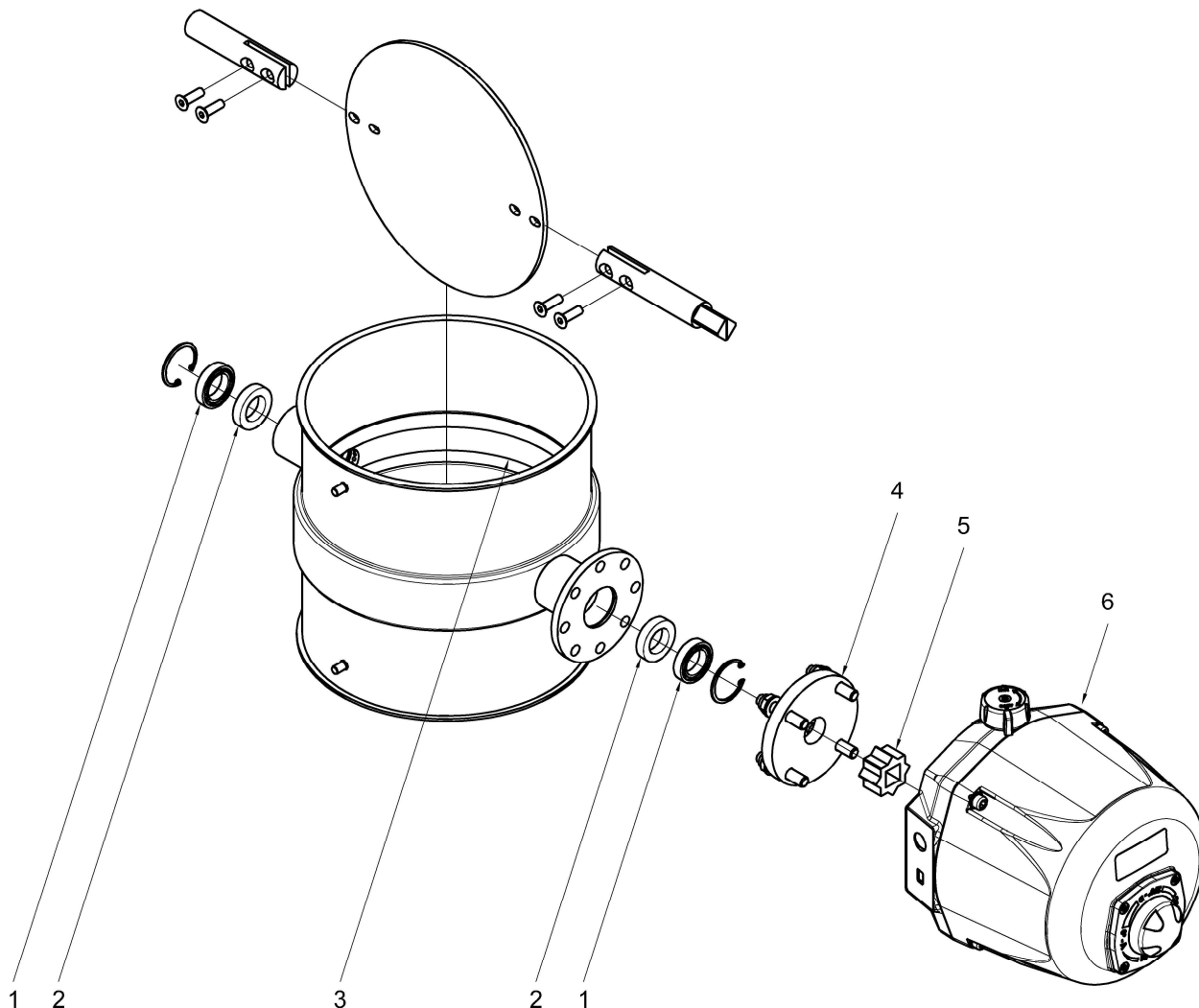
W= Silicone flap seal
X= Silicone shaft Seal
Y= Deep groove ball bearings
Z= retaining ring

DN	t [mm]	Øi [mm]	Øa [mm]	ØBK [mm]	A [mm]	B [mm]	L [mm]	m [kg]
80	1,5	77,5	80,5	92,5	94,3	317,3	80	6,9
100	2	99	103	115	105,5	328,6	100	7,2
120		119	123	135	113	336,1	120	7,4
140		135	139	151	123,5	346,6	140	8,1
150		149	153	165	128	351,1	150	8,0
160		159	163	175	135,5	358,6	160	8,7
175		174	178	190	143	366,1	175	9,1
200		199	203	215	153	376,1	200	9,4
224		219	223	235	165,5	388,6	200	9,2
250		249	253	265	178	401,1	200	10,4
280		278	282	294	195	418,1	200	11,8
300		299	303	315	203	426,1	200	11,5
315		313	317	329	212,5	495,8	200	12,7
350		349	353	365	230,5	513,8	200	13,7
400		399	403	415	255,5	538,8	200	15,3
450		449	453	465	280,5	563,8	200	17,8
500		499	503	515	300,5	603,5	200	20,1
560		558	562	574	330	633	200	22,2
630		628	632	644	365	668	200	25,4

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 300	
			1.0330	1.4301
1	Deep groove ball bearings (for shaft diameter 20 mm)	2	SO0128616	SO0118470
2	Shaft seal (for shaft diameter 20 mm)	2	SO0118471	
3	Flap seal		(see table, p.9)	
4	Spacer flange (for shaft diameter 20 mm)	1	SO0105946	SO0123370
5	Reducing sleeve (22 / 14)	1	SO0106392	
6	Actuating drive ATEX (VRX75.70B.G00 - 24 V DC)	1	SO0101255	
6	Actuating drive ATEX (VRX75.70A.G00 - 230 V AC)	1	SO0114924	

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No.	Naming	Quantity	DN 315 – DN 450	
			1.0330	1.4301
1	Deep groove ball bearings <i>(for shaft diameter 20 mm)</i>	2	SO0128616	SO0118470
2	Shaft seal <i>(for shaft diameter 20 mm)</i>	2	SO0118471	
3	Flap seal		<i>(see table, p.9)</i>	
4	Spacer flange <i>(for shaft diameter 20 mm)</i>	1	SO0105946	SO0123370
5	Reducing sleeve (22 / 14)	1	SO0128056	
6	Actuating drive ATEX (VSX100.90B.G00- 24 V DC)	1	SO0131350	
6	Actuating drive ATEX (VSX100.90A.G00 - 230 V DC)	1	SO0131351	

No.	Naming	Quantity	DN 500 – DN 630	
			1.0330	1.4301
1	Deep groove ball bearings <i>(for shaft diameter 30 mm)</i>	2	SO0131354	SO0130364
2	Shaft seal <i>(for shaft diameter 30 mm)</i>	2	SO0130363	
3	Flap seal		<i>(see table, p.9)</i>	
4	Spacer flange <i>(for shaft diameter 20 mm)</i>	1	SO0131383	SO0131384
5	Reducing sleeve (22 / 14)	1	SO0129887	
6	Actuating drive ATEX (VSX150.90B.G00- 24 V DC)	1	SO0131352	
6	Actuating drive ATEX (VSX150.90A.G00 - 230 V DC)	1	SO0131353	

Flap seal (item no.: 3)			
DN	Required length [mm]	Quantity* [m]	Article
80	281	1	SO0116014
100	352		
120	415		
140	465		
150	509		
160	540		
175	587		
200	666		
224	738		
250	823		
280	914		
300	980		
315	1024	2	
350	1137		
400	1294		
450	1451		
500	1608		
560	1794		
630	2014	3	

*Note: Flap seal is offered by the meter.