

VIBRATION / DOSING VALVE VIDOS



Resilient seated wafer type butterfly valve for semi-corrosive media with vibration function.

TECHNICAL DATA

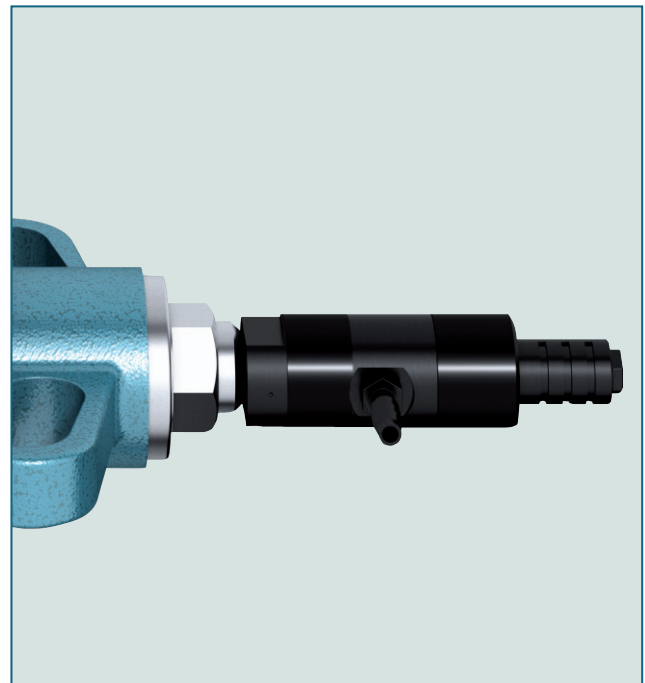
Nominal diameter:	DN 150 - DN 400
Face-to-face:	EN 558 Series 20 ISO 5752 Series 20 API 609 Table 1
Flange accommodation:	EN 1092 PN 10/16 ASME Class 150
Flange surface design:	EN 1092 Form A/B ASME RF, FF
Top flange:	EN ISO 5211
Marking:	EN 19
Tightness check:	EN 12266 (Leakage rate A) ISO 5208, Category 3
Temperature range:	-10°C to +200°C (depending on pressure, medium and material)
Operating pressure:	max. 10 bar

FEATURES

- One piece disc/shaft
- Split body with stainless steel screws
- Insulation height as per plant regulations
- Optional: Special design RWTÜV certified to TA-Air/ VDI 2440
- Triple shaft bearing
- Disc's sealing surface mirror polished
- Seal materials optional according to FDA or EC 1935/200
- Can be disassembled, material-specific recycling possible
- Also available as stainless steel version Z611-K
- Optional according to ATEX

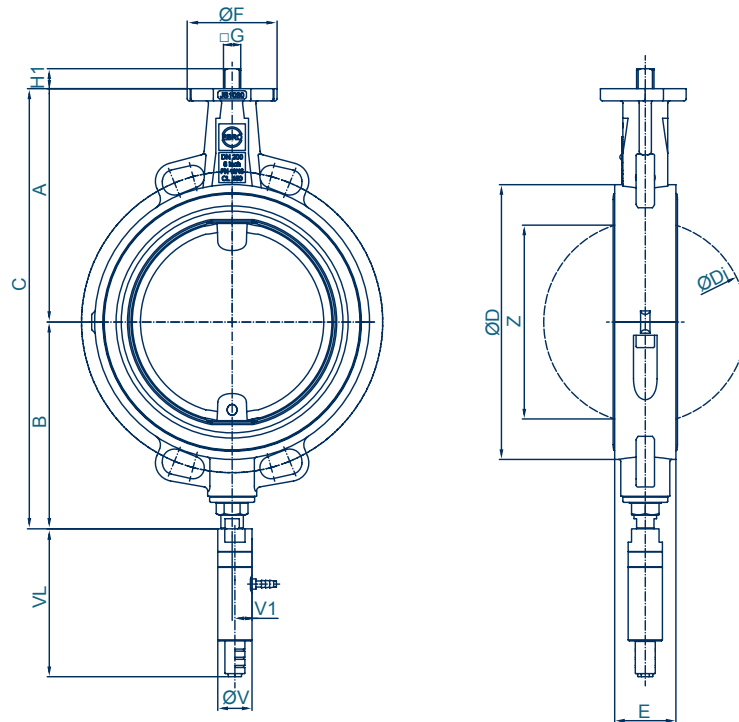
GENERAL APPLICATIONS

- Dosing and discharging of solid materials
- Food and beverage industry
- Pneumatic materials handling technology
- Power plant technology



The vibrator causes a linear vibration, which swings the disc horizontally. The frequency of the vibration is controlled via air pressure.

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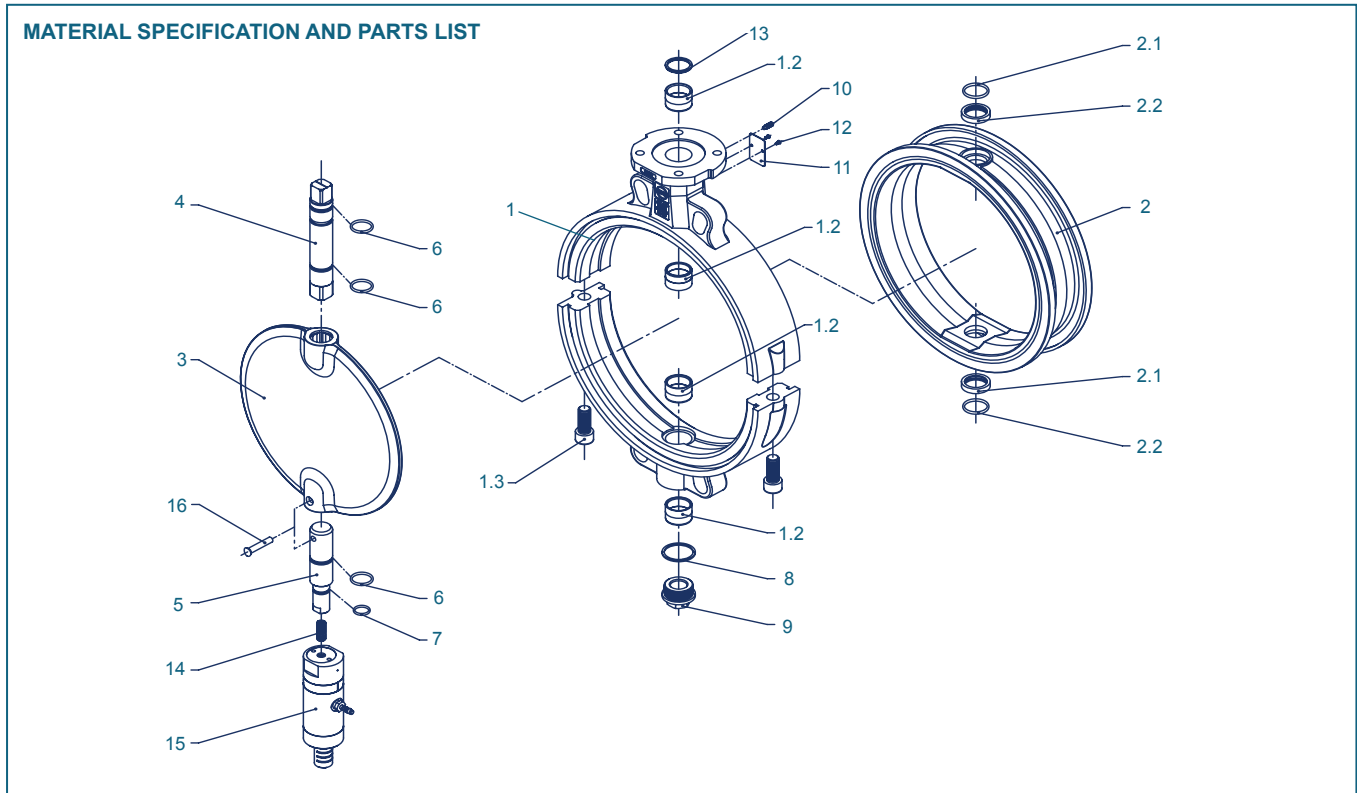
Vidos with bare shafts end acc. to EN ISO 5211

DN [mm]	Size [in]	Dimensions [mm]											Vibrator	ØV	V1	VL	Weight [kg]
		A	B	C	ØD	Di	E	F	Flange	G	H1	Z					
150	6	203	177	380	215	149	56	88	F07	17	20	138	NTS 120 HF	27,5	16,5	97,5	9,7
													NTS 120 NF	27,5	16,5	125	9,8
													NTS 180 HF	33,5	19,5	125	9,8
													NTS 180 NF	33,5	19,5	146	9,9
200	8	228	203	431	269	199	60	88	F07	17	20	189	NTS 120 HF	27,5	16,5	97,5	13,4
													NTS 120 NF	27,5	16,5	125	13,5
													NTS 180 HF	33,5	19,5	125	13,5
250	10	266	239	505	324	249	68	125	F10	22	23,5	239	NTS 180 NF	33,5	19,5	146	13,6
													NTS 250 HF	41,5	24	146	23
													NTS 250 NF	41,5	24	189	23,2
													NTS 350 HF	53	30,5	147	23,3
300	12	291	263	554	374	374	78	125	F10	22	23,5	286	NTS 350 NF	53	30,5	193	23,7
													NTS 250 HF	41,5	24	146	32
													NTS 250 NF	41,5	24	189	32,2
													NTS 350 HF	53	30,5	147	32,3
350*	14	330	302	632	535	338	78	148	F12	27	29	329	NTS 250 NF	53	30,5	193	32,7
													NTS 250 HF	41,5	24	146	32
													NTS 250 NF	41,5	24	189	32,2
													NTS 350 HF	53	30,5	147	32,3
400*	16	360	329	689	580	391	102	148	F12	27	29	3	NTS 350 NF	53	30,5	193	68,5
													NTS 250 HF	41,5	24	149	68,7
													NTS 250 NF	41,5	24	189	68,8
													NTS 350 HF	53	30,5	147	68,8
400*	16	360	329	689	580	391	102	148	F12	27	29	3	NTS 250 HF	41,5	24	149	95,5
													NTS 250 NF	41,5	24	189	95,7
													NTS 350 HF	53	30,5	147	95,8
													NTS 350 NF	53	30,5	193	96,2

* Lug type version on dimensions of the T212-A

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Pt.	Description	Material	Material No.	ASTM	Pt.	Description	Material	Material No.	ASTM
1	Body				8	Seal			
	Stainless Steel	G-X6CrNiMo18-10	1.4408	CF8M		Copper	Cu		Copper
1.2	Bearing Bush				9	Plug Screw			
	Brass	MS 58	2.0401	B 45		Stainless Steel	A4-70		B8M
1.3	Screw				10	Threaded Pin			
	Stainless Steel	A4-70		B8M		Stainless Steel	A4-70		B8M
2	Seal				11	Type Plate			
	NBR	Acrylonitrile butadiene rubber				Stainless Steel	G-X5CrNiMo19-11-2	1.4301	304
	EPDM	Ethylene propylene caoutchouc			12	Round Head Grooved Pin			
2.1	Ring of Stainless Steel (≥ DN 250)					Stainless Steel	A2-70		B 8
	Stainless Steel	G-X5CrNiMo19-11-2	1.4301	304	13	Wiper ring (DN 150 - DN 200)			
2.2	O-Ring (≥ DN 250)					PTFE	Polytetrafluorethylene		
	NBR	Acrylonitrile butadiene rubber			14	Threaded pin			
4	Upper Shaft					Stainless Steel	A2-70		B 8
	Stainless Steel	X14CrMoS17	1.4104	430 F	15	Vibrator			
		X5CrNiMo17-12-2	1.4401	316		Standard Version			
5	Lower Shaft					Stainless Steel Version			
	Stainless Steel	X14CrMoS17	1.4104	430 F		ATEX Version			
		X5CrNiMo17-12-2	1.4401	316	16	Pin (DN 100 - DN 125)			
6	O-Ring					Stainless Steel	X4CrNiMo16-5-1	1.4418	
	NBR	Acrylonitrile butadiene rubber							
7	O-Ring								
	NBR	Acrylonitrile butadiene rubber							
									other materials upon request

Exemplary parts list for nominal diameters DN 150 - DN 300

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TORQUE

- The torque values specified (Md) are based on liquid and lubricant media
- Powdery (non-lubricant) media Md x 1,3
- Dry gases/high viscous media Md x 1,2
- The values specified are based on the initial breakaway torque
- Dynamic torque specification available upon request

Regarding the dimensioning of actuators, please contact our engineers.

DN [mm]	150	200	250	300	350	400
Size [in]	6	8	10	12	14	16
MD [Nm]	110	140	200	280	720	980

K_V-VALUES

- The K_V-value [m³ per hour] is the flow of water at a temperature of 5°C to 30°C (41°F to 86°F) at Δp of 1 bar
- The K_V-values specified are based on tests carried out by the Delfter Hydraulics Laboratories, the Netherlands
- Permissible velocity of flow
V_{max} 4,5 m/s for liquids,
V_{max} 70 m/s for gases
- The throttle function is linear at an angle 30° to 70°
- Avoid cavitation

For further values, please contact our engineers.

DN [mm]	Size [in]	Opening angle α°							
		20°	30°	40°	50°	60°	70°	80°	90°
150	6	35	90	200	360	640	900	1350	2100
200	8	43	180	350	580	1000	1600	3000	4000
250	10	125	360	660	1100	1800	3100	5300	6400
300	12	200	550	1000	1600	2600	5000	7500	8500
350	14	482	464	1042	2126	3625	5449	7507	9708
400	16	627	603	1355	2765	4715	7088	9764	12627

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