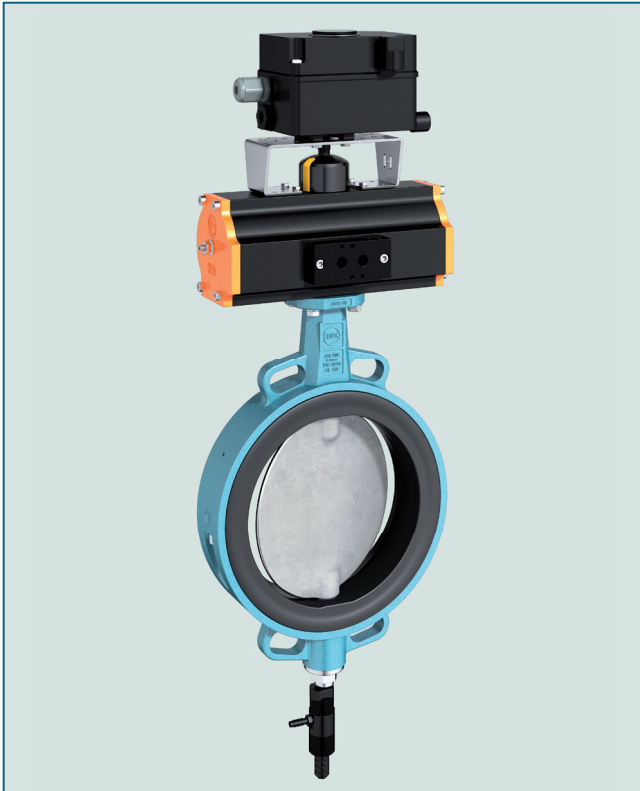


VIBRATION / DOSING VALVE VIDOS



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

TECHNICAL DATA

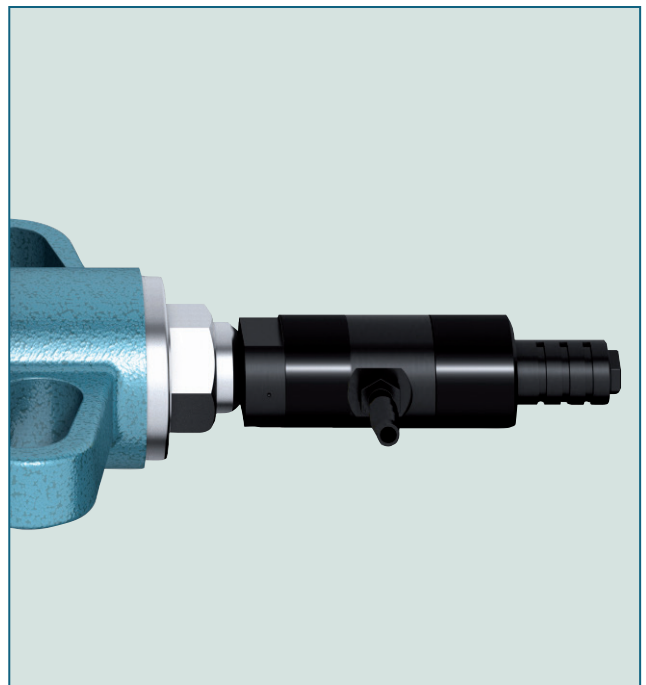
| | |
|------------------------|---|
| Nominal diameter: | DN 150 - DN 400 |
| Face-to-face: | EN 558 Series 20 ISO 5752 Series 20 API 609 Table 1 |
| Flange accommodation: | EN 1092 PN 10/16 ASME Class 150 |
| Flange surface design: | EN 1092 Form A/B ASME RF, FF |
| Top flange: | EN ISO 5211 |
| Marking: | 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

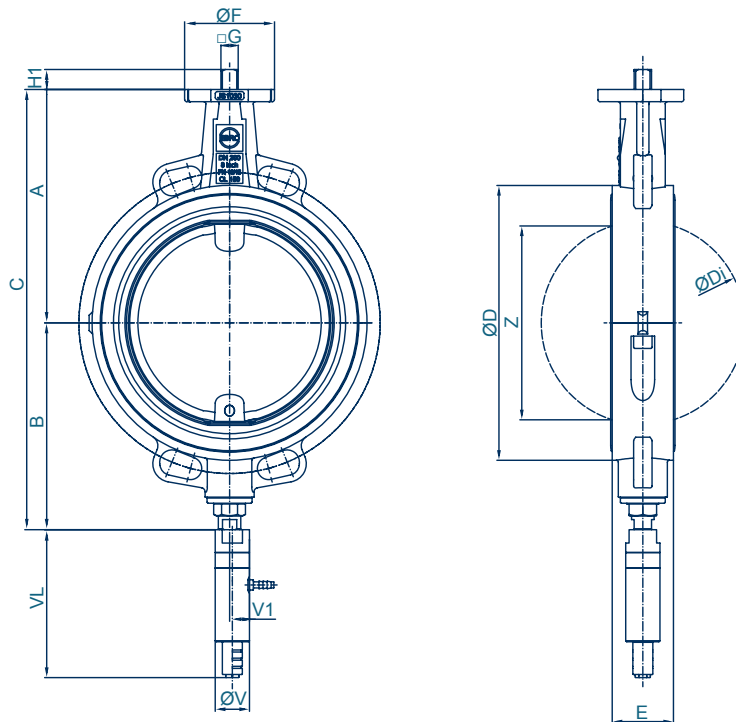
GENERAL APPLICATIONS

- 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.

VIBRATION / DOSING VALVE VIDOS



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 |
| | | | | | | | | | | | | | NTS 180 NF | 33,5 | 19,5 | 146 | 13,6 |
| 250 | 10 | 266 | 239 | 505 | 324 | 249 | 68 | 125 | F10 | 22 | 23,5 | 239 | 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 |
| | | | | | | | | | | | | | NTS 350 NF | 53 | 30,5 | 193 | 23,7 |
| 300 | 12 | 291 | 263 | 554 | 374 | 297 | 78 | 125 | F10 | 22 | 23,5 | 286 | 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 |
| | | | | | | | | | | | | | NTS 250 NF | 53 | 30,5 | 193 | 32,7 |
| 350* | 14 | 330 | 302 | 632 | 535 | 338 | 78 | 148 | F12 | 27 | 29 | 329 | NTS 250 HF | 41,5 | 24 | 149 | 68,5 |
| | | | | | | | | | | | | | NTS 250 NF | 41,5 | 24 | 189 | 68,7 |
| | | | | | | | | | | | | | NTS 350 HF | 53 | 30,5 | 147 | 68,8 |
| | | | | | | | | | | | | | NTS 350 NF | 53 | 30,5 | 193 | 69,2 |
| 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

Subject to change without notice

VIBRATION / DOSING VALVE VIDOS

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 | 76,5 | 97,3 | 197 | 375 | 629 | 957 | 1360 | 1830 |
| 200 | 8 | 137 | 187 | 373 | 697 | 1160 | 1760 | 2510 | 3400 |
| 250 | 10 | 227 | 271 | 563 | 1090 | 1850 | 2830 | 4010 | 5390 |
| 300 | 12 | 287 | 409 | 820 | 1550 | 2610 | 4050 | 5880 | 8120 |
| 350 | 14 | 399 | 488 | 1070 | 2110 | 3590 | 5480 | 7760 | 10400 |
| 400 | 16 | 557 | 703 | 1360 | 2600 | 4470 | 7060 | 10400 | 14600 |

Subject to change without notice