



Industrial right-angle valve

Perfect solution for industrial vacuum applications



Industrial right-angle valve

Benefits:

- ✓ Leybold's industrial right-angle valve is the perfect solution for your high vacuum applications
- ✓ Fully compatible with Leybold's diffusion pumps with ISO flanges
- ✓ Stainless steel body and flanges, as well as the shaft sealing by a membrane bellows, to guarantee best performance and a long lifetime

| Right-angle valve | | DN 250 | DN 320 | DN 400 | DN 500 | DN 630 | DN 800 | DN 1000 |
|---|------------|--|-------------------------------------|-------------|-------------|-------------|-------------------------------------|------------|
| Installation orientation | | Vertical / pneumatic cylinder at the top | | | | | | |
| Conductance | l/s | 2500 | 4100 | 6300 | 10500 | 16500 | 29400 | 46900 |
| Drive method | | Electromagnetic pneumatic | | | | | | |
| Pressure difference when opening | mbar | 300 | 50 | | | | | |
| Opening/Closing time | sec | ≤3 | ≤5 | | | | ≤8 | |
| Service life | actuations | 10 ⁵ | | | | | | |
| Helium leak rate | mbar-l/s | 1×10 ⁻⁹ | | | | | | |
| Pressure range | mbar | 1 x 10 ⁻⁸ | 5×10 ⁻⁸ | | | | | |
| Max operation temp. | °C | 60 | | | | | | |
| Connection flange | DN | 630 ISO-K/F | 320 ISO-K/F | 400 ISO-K/F | 500 ISO-K/F | 630 ISO-K/F | 800 ISO-F | 1000 ISO-F |
| Bypass flange | DN | 63 ISO-K | | | 100 ISO-K | 160 ISO-K | 250 ISO-K | |
| Further flanges | NW | 16 / 40 | | 25 / 40 | | | | |
| Materials | | | | | | | | |
| Housing and disk | | Stainless steel 304 / EN 1.4301 | | | | | | |
| Sealing bellows | | Stainless steel 316L / EN 1.4404 | | | | | | |
| Seals | | FKM | | | | | | |
| Pilot Valve | | | | | | | | |
| Nominal voltage | VDC | Normally closed, 24 | | | | | | |
| Nom. power consumption | W | 0.45 | | | | | | |
| End Position Switch (max. contact ratings) | | | | | | | | |
| Nominal voltage | V DC/AC | 5/240 | | | | | | |
| Current | mA | 100 | | | | | | |
| Power consumption | W | 10 | | | | | | |
| Compressed air supply | | | | | | | | |
| Air connection | | 1/8" quick connector with 6 mm tube | 1/8" quick connector with 8 mm tube | | | | 1/4" quick connector with 8 mm tube | |
| Pressure range | bar | 4-7 | 5-7 | | | | | |
| Weight | kg | 40 | 74 | 108 | 164 | 269 | 480 | 783 |
| Material number | | 504137V003 | 504138V003 | 504139V003 | 504140V003 | 504141V003 | 504142V003 | 504143V003 |



Pioneering products. Passionately applied.

