ISO cylinder DNCI-50- -

Part number: 535413



Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|---|---|
| Stroke | 10 mm 2000 mm |
| Stroke Servopneumatic positioning | 100 mm 500 mm |
| Stroke Smart Softstop | 100 mm 500 mm |
| Stroke reduction at end positions | >= 15 mm |
| Smallest positioning stroke | 3% of max. stroke Max. 20 mm |
| Piston diameter | 50 mm |
| Based on standard | ISO 15552 (previously also VDMA 24562, ISO 6431, NF E49 003.1, UNI 10290) |
| Cushioning | Elastic cushioning rings/plates at both ends |
| Positioning installation position | optional |
| Soft Stop installation position | Optional |
| Functional principle of measuring system | Digital |
| Design | Piston Piston rod Profile barrel |
| Position detection | Via proximity switch With integrated displacement encoder |
| Variants | Clamping unit attached Extended piston rod Piston rod at one end |
| Protection against torque/guide | Dual flat piston rod |
| Operating pressure | ≤1.2 MPa |
| Operating pressure | ≤12 bar |
| Operating pressure | ≤174 psi |
| Operating pressure positioning/Soft Stop | 4 bar 8 bar |
| Max. travel speed | >1.5 m/s |
| Min. travel speed | 0.05 m/s |
| Typical positioning time short stroke, horizontal | 0.45/0.6 s |
| Typical positioning time long stroke, horizontal | 0.65/0.8 s |
| Mode of operation | Double-acting |
| Nominal operating voltage DC | 5 V |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with EU RoHS Directive |
| CE marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Operating medium | Compressed air to ISO 8573-1:2010 [6:4:4] |

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| Feature | Value |
|--|---------------------------------|
| Continuous shock resistance to DIN/IEC 68 Part 2-82 | Tested to severity level 2 |
| Corrosion resistance class CRC | 1 - Low corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Max. magnetic interference field | 10 KA/m at a distance of 100 mm |
| Degree of protection | IP65 To IEC 60529 |
| Vibration resistance to DIN/IEC 68 Part 2-6 | Tested to severity level 2 |
| Ambient temperature | -20 °C 80 °C |
| Impact energy in end positions | 1) |
| Max. torque for protection against torsion | ≤0.05 Nm |
| Max. working load, horizontal | 120 kg |
| Max. working load, vertical | 40 kg |
| Min. working load, horizontal | 8 kg |
| Min. working load, vertical | 8 kg |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 990 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 990 N 1178 N |
| Moving mass for 0 mm stroke | 316 g |
| Additional moving mass per 10 mm stroke | 23 g |
| Basic weight for 0 mm stroke | 1319 g |
| Additional weight per 10 mm stroke | 62 g |
| Output signal | Analogue |
| Repetition accuracy in ± mm | 0.5 mm |
| Max. controllable force during advance stroke | 1060 N |
| Max. controllable force during return stroke | 891 N |
| Typical friction force | 70 N |
| Repetition accuracy Soft Stop intermediate position | +/-2 mm |
| Electrical connection encoder | 8-pin |
| Cable length | 1.5 m |
| Type of mounting | With accessories |
| Pneumatic connection | G1/4 |
| Note on materials | RoHS-compliant |
| Material cover | Wrought aluminium alloy |
| Material seals | NBR TPE-U(PU) |
| Material cable sheath | TPE-U(PUR) |
| Material piston rod | High-alloy steel |
| Material screws | Steel |
| Material sensor cover | Aluminium |
| Material sensor head | РОМ |
| Material connector housing | PBT |
| Material cylinder barrel | Wrought aluminium alloy |