

Round cylinder CRDSNU-40-

Part number: 552792

FESTO



Data sheet

| Feature | Value |
|---|---|
| Stroke | 1 mm...500 mm |
| Piston diameter | 40 mm |
| Piston rod thread | M8 M12x1.25 |
| Cushioning | Elastic cushioning rings/plates at both ends Self-adjusting pneumatic end-position cushioning Pneumatic cushioning, adjustable at both ends |
| Mounting position | optional |
| Piston-rod end | Male thread Female thread |
| Design | Piston Piston rod Cylinder barrel |
| Position detection | Via proximity switch |
| Variants | Hard scraper For unlubricated operation EX protection approval (ATEX) Increased chemical resistance Extended male piston rod thread Piston rod with female thread Custom thread on the piston rod Extended piston rod Bearing cap without mounting thread Lateral supply port Through piston rod Heat-resistant seals max. 120°C Temperature range -40 to 80°C Piston rod at one end |
| Operating pressure | 0.1 MPa...1 MPa 1 bar...10 bar |
| Mode of operation | Double-acting |
| CE mark (see declaration of conformity) | To EU Explosion Protection Directive (ATEX) |
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| Explosion protection certification outside the EU | EPL Db (GB) EPL Gb (GB) |

| Feature | Value |
|--|---|
| Explosion protection | Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX) |
| ATEX category gas | II 2G |
| ATEX category dust | II 2D |
| Explosion ignition protection type for gas | Ex h IIC T4 Gb |
| Explosion ignition protection type for dust | Ex h IIIC T120°C Db |
| Explosion ambient temperature | -20°C ≤ Ta ≤ +60°C |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC | 3 - high corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B2-L VDMA24364 zone III |
| Suitable for use with food | See declaration of conformity |
| Ambient temperature | -40 °C...120 °C |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 633 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 754 N |
| Moving mass for 0 mm stroke | 232 g |
| Additional moving mass per 10 mm stroke | 16 g |
| Basic weight for 0 mm stroke | 1327 g |
| Additional weight per 10 mm stroke | 24 g |
| Type of mounting | With accessories |
| Pneumatic connection | G1/4 |
| Note on materials | RoHS-compliant |
| Material cover | High-alloy stainless steel |
| Material piston rod | High-alloy stainless steel |
| Material cylinder barrel | High-alloy stainless steel |