

# ISO cylinder CRDNGS-40- -PPV-A

Part number: 160891

FESTO



[PDF](#) General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature                                                      | Value                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stroke                                                       | 10 mm ... 2000 mm                                                                          |
| Piston diameter                                              | 40 mm                                                                                      |
| Piston rod thread                                            | M12x1.25                                                                                   |
| Based on standard                                            | ISO 15552                                                                                  |
| Cushioning                                                   | Pneumatic cushioning, adjustable at both ends                                              |
| Mounting position                                            | Any                                                                                        |
| Piston-rod end                                               | Male thread                                                                                |
| Design                                                       | Piston<br>Piston rod<br>Swivel clevis<br>Tie rod 1<br>Cylinder barrel                      |
| Position detection                                           | Via proximity switch                                                                       |
| Symbol                                                       | 00991235                                                                                   |
| Variants                                                     | End cap with swivelling rod eye                                                            |
| Operating pressure                                           | 0.06 MPa ... 1 MPa                                                                         |
| Operating pressure                                           | 0.6 bar ... 10 bar                                                                         |
| Mode of operation                                            | Double-acting                                                                              |
| 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                               | 4 - Very high corrosion stress                                                             |
| LABS (PWIS) conformity                                       | VDMA24364-B2-L                                                                             |
| Suitable for use with food                                   | See supplementary material information                                                     |
| Ambient temperature                                          | -20 °C ... 80 °C                                                                           |
| Cushioning length                                            | 21 mm                                                                                      |
| 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                                  | 268 g                                                                                      |
| Additional moving mass per 10 mm stroke                      | 16 g                                                                                       |
| Basic weight for 0 mm stroke                                 | 1515 g                                                                                     |
| Additional weight per 10 mm stroke                           | 33 g                                                                                       |
| Type of mounting                                             | With female thread<br>With accessories                                                     |
| Pneumatic connection                                         | G1/4                                                                                       |
| Material cover                                               | Cast stainless steel                                                                       |

| <b>Feature</b>           | <b>Value</b>               |
|--------------------------|----------------------------|
| Material seals           | TPE-U(PU)                  |
| Material housing         | High-alloy stainless steel |
| Material piston          | Wrought aluminium alloy    |
| Material piston rod      | High-alloy stainless steel |
| Material cylinder barrel | High-alloy stainless steel |
| Material nut             | High-alloy stainless steel |
| Material bearing         | POM                        |
| Material collar nut      | High-alloy stainless steel |
| Material tie rod         | High-alloy stainless steel |