

# Hinge cylinder DWB-50-100-Y

Part number: 549555

**FESTO**



## Data sheet

| Feature                                  | Value                                                                                     |
|------------------------------------------|-------------------------------------------------------------------------------------------|
| Stroke                                   | 100 mm                                                                                    |
| Piston diameter                          | 50 mm                                                                                     |
| Piston rod thread                        | M16x1.5                                                                                   |
| Wide rod clevis/swivel mounting          | 19.5 mm                                                                                   |
| Cushioning                               | Pneumatic cushioning, adjustable at both ends                                             |
| Mounting position                        | Any                                                                                       |
| Structural design                        | Piston<br>Piston rod with rod clevis<br>Swivel mounting on bearing cap<br>Cylinder barrel |
| Velocity control                         | Integrated flow control at both ends                                                      |
| Position sensing                         | None                                                                                      |
| Piston rod end                           | External thread with rod clevis                                                           |
| Operating pressure                       | 1 bar...10 bar                                                                            |
| Mode of operation                        | Double-acting                                                                             |
| Operating medium                         | Compressed air as per ISO 8573-1:2010 [7:4:4]                                             |
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use)                        |
| Corrosion resistance class (CRC)         | 0 - No corrosion stress                                                                   |
| LABS (PWIS) conformity                   | VDMA24364-B2-L                                                                            |
| Ambient temperature                      | -10 °C...60 °C                                                                            |
| Impact energy in the end positions       | 0.7 J                                                                                     |
| Cushioning length                        | 20 mm                                                                                     |
| Theoretical force at 6 bar, retracting   | 990 N                                                                                     |
| Theoretical force at 6 bar, advancing    | 1178 N                                                                                    |
| Moving mass at 0 mm stroke               | 664 g                                                                                     |
| Additional moving mass per 10 mm stroke  | 25 g                                                                                      |
| Basic weight with 0 mm stroke            | 1338 g                                                                                    |
| Additional weight per 10 mm stroke       | 37 g                                                                                      |
| Alternative connections                  | See product drawing                                                                       |
| Type of mounting                         | With swivel mounting on bearing cap<br>With accessories                                   |
| Pneumatic connection                     | Rc1/4                                                                                     |
| Rod clevis material                      | Cast steel                                                                                |

| Feature                     | Value                                             |
|-----------------------------|---------------------------------------------------|
|                             | Quenched and tempered steel                       |
| Note on materials           | RoHS compliant                                    |
| Wiper material              | Bronze                                            |
| Cover material              | Die-cast aluminum<br>Anodized                     |
| Seals material              | NBR                                               |
| Piston rod material         | Quenched and tempered steel<br>Hard chrome-plated |
| Material of cylinder barrel | Wrought aluminum alloy<br>Anodized                |