

# Twin-piston cylinder DPZC-10-50-P-A-KF-S2

Part number: 194410

FESTO

With two parallel through piston rods, for proximity sensing, with elastic cushioning rings in end positions.

These drives can be delivered on request with ATEX certification. The data on "ATEX identification", "ATEX ambient temperature" and "CE label" in the data sheet relate only to drives with certification.



## Data sheet

| Feature                                                             | Value                                            |
|---------------------------------------------------------------------|--------------------------------------------------|
| Centre of gravity distance from working load to yoke plate          | 0 mm                                             |
| Stroke                                                              | 50 mm                                            |
| Adjustable end-position range/length                                | 15 mm                                            |
| Piston diameter                                                     | 10 mm                                            |
| Operating mode of drive unit                                        | Yoke                                             |
| Cushioning                                                          | P: Flexible cushioning rings/plates at both ends |
| Assembly position                                                   | Any                                              |
| Guide                                                               | Recirculating ball bearing guide                 |
| Design structure                                                    | Guide                                            |
| Position detection                                                  | For proximity sensor                             |
| Variants                                                            | S2: through piston rod                           |
| Working pressure                                                    | 1.5 ... 10 bar                                   |
| Max. speed                                                          | 0.8 m/s                                          |
| Mode of operation                                                   | double-acting                                    |
| ATEX category Gas                                                   | II 2G                                            |
| Explosion ignition protection type Gas                              | c T4                                             |
| ATEX category Dust                                                  | II 2D                                            |
| Explosion ignition protection type Dust                             | c 120°C                                          |
| Explosion-proof ambient temperature                                 | -5 °C ≤ Ta ≤ +60 °C                              |
| Operating medium                                                    | Dried compressed air, lubricated or unlubricated |
| CE symbol (see declaration of conformity)                           | according to EU-Ex protection guideline (ATEX)   |
| Corrosion resistance classification CRC                             | 0                                                |
| Ambient temperature                                                 | -5 ... 60 °C                                     |
| Impact energy in end positions                                      | 0.08 Nm                                          |
| Max. useful load as a function of the stroke at defined distance xs | 8.6 N                                            |
| Theoretical force at 6 bar, return stroke                           | 60 N                                             |
| Theoretical force at 6 bar, advance stroke                          | 60 N                                             |
| Moving mass                                                         | 100 g                                            |
| Product weight                                                      | 370 g                                            |
| alternative connections                                             | See product drawing                              |
| Pneumatic connection                                                | M3                                               |
| Materials note                                                      | Free of copper and PTFE                          |
| Materials information for cover                                     | Wrought Aluminum alloy                           |
| Materials information for seals                                     | NBR                                              |
| Materials information, housing                                      | Wrought Aluminum alloy                           |
| Materials information for piston rod                                | Case-hardened steel                              |