

# flat cylinder

## DZF-18-200-A-P-A

Part number: 161245

FESTO

Non-rotating, for position sensing, with elastic cushioning rings in end positions. Various mounting options, with or without additional mounting components.



### Data sheet

| Feature                                     | Value                                                                       |
|---------------------------------------------|-----------------------------------------------------------------------------|
| Stroke                                      | 200 mm                                                                      |
| Piston diameter                             | 18 mm<br>Equivalent diameter                                                |
| Max. angular deflection of piston rod +/-   | 1.2 deg                                                                     |
| Cushioning                                  | P: Flexible cushioning rings/plates at both ends                            |
| Assembly position                           | Any                                                                         |
| Mode of operation                           | double-acting                                                               |
| Design structure                            | Piston<br>Piston rod                                                        |
| Position detection                          | For proximity sensor                                                        |
| Protection against torque/guide             | Oval piston                                                                 |
| Operating pressure                          | 1 ... 10 bar                                                                |
| Operating medium                            | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                    |
| Note on operating and pilot medium          | Lubricated operation possible (subsequently required for further operation) |
| Corrosion resistance classification CRC     | 2 - Moderate corrosion stress                                               |
| Ambient temperature                         | -20 ... 80 °C                                                               |
| Max. torque for protection against rotation | 0.2 Nm                                                                      |
| Theoretical force at 6 bar, return stroke   | 123 N                                                                       |
| Theoretical force at 6 bar, advance stroke  | 153 N                                                                       |
| Moving mass with 0 mm stroke                | 24 g                                                                        |
| Additional weight per 10 mm stroke          | 13 g                                                                        |
| Basic weight for 0 mm stroke                | 107 g                                                                       |
| Additional mass factor per 10 mm of stroke  | 4 g                                                                         |
| Mounting type                               | with internal (female) thread<br>with accessories<br>Optional               |
| Pneumatic connection                        | M5                                                                          |
| Material cover                              | Wrought Aluminium alloy                                                     |
| Material seals                              | NBR<br>TPE-U(PU)                                                            |
| Material housing                            | Aluminium<br>Smooth anodised                                                |
| Material piston rod                         | High alloy steel, non-corrosive                                             |