

# Compact cylinder ADN-25- -KP-

Part number: 548207

**FESTO**



## Data sheet

| Feature                                                      | Value                                                                                                                  |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Stroke                                                       | 10 mm...300 mm                                                                                                         |
| Piston diameter                                              | 25 mm                                                                                                                  |
| Piston rod thread                                            | M8                                                                                                                     |
| Based on standard                                            | ISO 21287                                                                                                              |
| Cushioning                                                   | Elastic cushioning rings/plates at both ends                                                                           |
| Mounting position                                            | Any                                                                                                                    |
| Type of clamping with direction of action                    | At both ends                                                                                                           |
| Piston-rod end                                               | Female thread                                                                                                          |
| Design                                                       | Piston<br>Piston rod<br>Cylinder barrel                                                                                |
| Position detection                                           | Via proximity switch                                                                                                   |
| Variants                                                     | Extended male piston rod thread<br>Custom thread on the piston rod<br>Extended piston rod<br>Laser etched rating plate |
| Operating pressure                                           | 0.15 MPa...1 MPa<br>1.5 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                               | 2 - Moderate corrosion stress                                                                                          |
| LABS (PWIS) conformity                                       | VDMA24364-B1/B2-L                                                                                                      |
| Ambient temperature                                          | -10 °C...80 °C                                                                                                         |
| Impact energy in end positions                               | 0.3 J                                                                                                                  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 247 N                                                                                                                  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 295 N                                                                                                                  |
| Moving mass for 0 mm stroke                                  | 63 g                                                                                                                   |
| Additional moving mass per 10 mm stroke                      | 6 g                                                                                                                    |
| Basic weight for 0 mm stroke                                 | 344 g                                                                                                                  |
| Additional weight per 10 mm stroke                           | 26 g                                                                                                                   |
| Type of mounting                                             | With female thread<br>With accessories                                                                                 |

| Feature                  | Value                                      |
|--------------------------|--------------------------------------------|
| Pneumatic connection     | M5                                         |
| Note on materials        | RoHS compliant                             |
| Material cover           | Wrought aluminium alloy<br>anodised        |
| Material piston rod      | High-alloy steel                           |
| Material cylinder barrel | Wrought aluminium alloy<br>Smooth-anodised |