

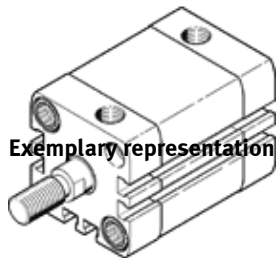
# compact cylinder

## ADN-5/8"- -

Part number: 557031

FESTO

For position sensing, with male or female thread on the piston rod.



## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature                                                  | Value                                                                                                                                                                                                                                           |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stroke                                                   | 0.039 ... 11.811 "                                                                                                                                                                                                                              |
| Piston diameter                                          | 5/8"                                                                                                                                                                                                                                            |
| Based on the standard                                    | ISO 21287                                                                                                                                                                                                                                       |
| Cushioning                                               | P: Flexible cushioning rings/plates at both ends                                                                                                                                                                                                |
| Assembly position                                        | Any                                                                                                                                                                                                                                             |
| Mode of operation                                        | double-acting                                                                                                                                                                                                                                   |
| Design structure                                         | Piston<br>Piston rod<br>Profile barrel                                                                                                                                                                                                          |
| Position detection                                       | For proximity sensor                                                                                                                                                                                                                            |
| Variants                                                 | Extended male piston rod thread<br>Extended piston rod<br>With protection against rotation<br>Excellent corrosion protection<br>Through piston rod<br>Through, hollow piston rod<br>Heat resistant seals, max. 120°C<br>Single-ended piston rod |
| Protection against torque/guide                          | Square piston rod                                                                                                                                                                                                                               |
| Operating pressure MPa                                   | 0.1 ... 1 MPa                                                                                                                                                                                                                                   |
| Operating pressure                                       | 1 ... 10 bar<br>14.5 ... 145 psi                                                                                                                                                                                                                |
| 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<br>3 - High corrosion stress                                                                                                                                                                                      |
| PWIS conformity                                          | VDMA24364-B1/B2-L                                                                                                                                                                                                                               |
| Ambient temperature                                      | -4 ... 248 °F                                                                                                                                                                                                                                   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 20.233 lbf                                                                                                                                                                                                                                      |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 20.233 ... 27.202 lbf                                                                                                                                                                                                                           |
| Mounting type                                            | with through hole<br>with internal (female) thread<br>with accessories<br>Optional                                                                                                                                                              |
| Pneumatic connection                                     | 10-32 UNF-2B                                                                                                                                                                                                                                    |
| Material of flange screw                                 | Steel                                                                                                                                                                                                                                           |
| Material cover                                           | Anodised wrought aluminium alloy                                                                                                                                                                                                                |
| Material piston rod                                      | High alloy steel                                                                                                                                                                                                                                |
| Material cylinder barrel                                 | Smooth-anodised wrought aluminium alloy                                                                                                                                                                                                         |