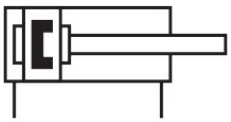
# Compact cylinder
# ADN-S-20-25-A-P-A-F1A

Part number: 8142770



## Data sheet

| Feature | Value |
|---|---|
| Stroke | 25 mm |
| Piston diameter | 20 mm |
| Cushioning | Elastic cushioning rings/plates at both ends |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Piston-rod end | Male thread |
| Design | Piston<br>Piston rod |
| Position detection | Via proximity switch |
| Variants | Recommended for production facilities for manufacturing of lithium-ion batteries<br>Piston rod at one end |
| Operating pressure | 0.06 MPa...1 MPa<br>0.6 bar...10 bar<br>8.7 psi...145 psi |
| 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-B2-L |
| Suitability for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 5 according to ISO 14644-1 |
| Ambient temperature | 0 °C...80 °C |
| Impact energy in end positions | 0.2 J |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 141 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 188 N |
| Moving mass for 0 mm stroke | 18 g |
| Additional moving mass per 10 mm stroke | 6 g |
| Basic weight for 0 mm stroke | 65 g |
| Additional weight per 10 mm stroke | 26 g |
| Type of mounting | With through-hole<br>With female thread |
| Pneumatic connection | M5 |

| Feature | Value |
|---|---|
| Note on materials | RoHS compliant |
| Material cover | Anodised wrought aluminium alloy |
| Material dynamic seals | NBR<br>TPE-U(PU) |
| Material housing | Anodised wrought aluminium alloy |
| Material piston rod | High-alloy stainless steel |