

# Semi-rotary drive DRRS-20-180-FH-Y9A

Part number: 8163612

**FESTO**



## Data sheet

Feature	Value
Size	20
Cushioning angle	32.8 deg
Setting range of swivel angle for each end position	+10/-100 deg
Axial eccentricity poppet valve	0.07 mm
Swivel angle	180 deg
Min. swivel angle	80 deg
Max. swivel angle	200 deg
Cushioning	Internal hydraulic cushioning normal
Mounting position	optional
Design	Rack and pinion
Position detection	Via proximity switch
Operating pressure	0.2 MPa...0.8 MPa 2 bar...8 bar
Repetition accuracy	0.07 deg
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	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-C1-L
Suitability for the production of Li-ion batteries	Suitable for battery production according to the Festo internal definition of the degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni
Cleanroom class	Class 9 according to ISO 14644-1
Storage temperature	-20 °C...60 °C
Ambient temperature	0 °C...60 °C
Theoretical torque at 0.6 MPa (6 bar, 87 psi)	3.3 Nm
Permissible mass moment of inertia	0.3 kgm <sup>2</sup>
Max. bending moment	5 Nm
Max. axial load static	350 N
Product weight	790 g

Feature	Value
Type of mounting	Either: Via mounting kit With through-hole Via female thread
Pneumatic connection	M5
Note on materials	RoHS-compliant
Material drive shaft	Tempered steel
Material seals	NBR TPE-U(PU)
Material housing	Anodised aluminium
Flange shaft material	Wrought aluminium alloy
Pinion material	Tempered steel