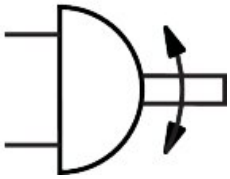
Semi-rotary drive
DRRS-12-180-FH-Y9A

Part number: 8163608





Data sheet

Feature	Value
Size	12
Cushioning angle	34.7 deg
Setting range of swivel angle for each end position	+10 /-100 deg
Axial eccentricity poppet valve	0.05 mm
Swivel angle	180 deg
Min. swivel angle	80 deg
Max. swivel angle	200 deg
Cushioning	Internal hydraulic cushioning normal
Mounting position	Any
Design	Rack and pinion
Position detection	Via proximity switch
Operating pressure	0.2 MPa...0.8 MPa 2 bar...8 bar
Repetition accuracy	0.05 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 with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	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)	0.9 Nm
Permissible mass moment of inertia	0.01 kgm²
Max. bending moment	2 Nm
Max. axial load static	80 N
Product weight	310 g
Type of mounting	Either: With mounting kit With through-hole

Feature	Value
	With female thread
Pneumatic connection	M3
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