

Semi-Rotary Drive DFPD-20-RP-90-RS30-F05 - Festo 8048014

Item no. FES-8048014

Manufacturer Festo

EAN 4052568287849

Festo rotary actuator for defined swivel motion and positioning in automation.

TECHNICAL DATA

Betriebsdruck max [bar]	8.000000
Certification	ATEX
Design	Toothed rack/pinion
Dichtmaterial	NBR
Funktion	single-acting
HS-Code	84123900
Material	Aluminium
Medium	Compressed air
Mounting position	arbitrary
Norm	ISO 5211, VDI/VDE 3845
Operating conditions	ISO 8573-1
Pneumatic connection	G1/8
Series	DFPD
Temperature (max.)	80
Weight	1.5 kg



STANDARDS & COMPLIANCE

ISO 8573-1:2010 ISO 5211

DESCRIPTION

Festo rotary actuator for defined swivel motion and positioning in automation. The key technical data of this genuine Festo article are listed below.

Position drive dimensions	20
Flange drilling screen	F05
Swivel angle [deg]	90
Adjustable range end position at 0° [deg]	-5 to 5
Adjustable range end position at 90° [deg]	-5 to 5
Shaft connection Depth [mm]	12
Standard connection to fitting	ISO 5211
installation position	arbitrary
Principle of operation	single action

Construction set up	Toothed rack/pinion
Closing direction	Right closing
Valve connection corresponds to standard	VDI/VDE 3845 (NAMUR)
Connection for position controllers and position feedback signal comply with standard	VDI/VDE 3845 Size AA 1
Safety Integrity Level (SIL)	Produkt kann eingesetzt werden in SRP/CS bis SIL 2 High Demand
Operating pressure [bar]	2 to 8
Nominal operating pressure [bar]	3,0
CE certificate (see declaration of conformity)	to EU EX protection directive (ATEX)
Certified awarding point	TÜV Rhineland
ATEX gas category	II 2G
ATEX dust category	II 2D
Ex ignition protection type gas	Ex h IIC T4 Gb X
Ex ignition protection type dust	Ex h IIIC T105°C Db X
Ex ambient temperature	-20°C <= Ta <= +80°C
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Information about operating and control medium	Oiled operation possible (required in further operations) Pressure dew point 10°C under ambient and medium temperature
Bearing temperature [°C]	-20 to 60
ambient temperature [°C]	-20 to 80
Rotary torque for nominal operating pressure and 0° pivot angle [Nm]	7,4
Rotary torque for nominal operating pressure and 90° pivot angle [Nm]	3,8
Information about torque	The operating torque of the actuator may not be higher than the maximum permitted torque listed in ISO 5211, related to the size of the fastening flange and the coupling.
Air consumption a 6 bar per cycle 0°-90°-0° [LTR]	0,8
Product weight [g]	1.371
Shaft connection	T11
Pneumatic connection	G1/8
Material information	RoHs compliant
Connection plate material	Aluminium wrought alloy, anodised
Cover material	Alu-Druckguss, beschichtet
Seals material	NBR
Housing material	Aluminium wrought alloy, anodised

Piston material	Aluminium die casting
Bearing material	POM
Lug material	Cast stainless steel
Screws material	High-alloyed stainless steels
Shaft material	Nickel-plated steel
Spring force torque at a swivel angle 0° [Nm]	3,6
Spring force torque at 90° [Nm]	7,1
Spring material	spring steel