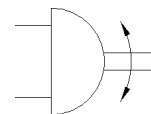
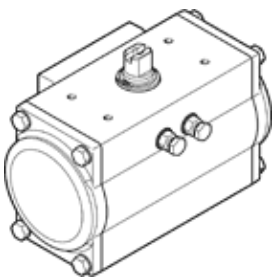


Semi-rotary actuator DFPD-20-RP-90-RD-F04

Part number: 8047614

★ Core product range

FESTO



Data sheet

Feature	values
Size of actuator	20
Flange hole pattern	F04 F05
Swivel angle	90 deg
End-position adjustment range at 0°	-5 ... 5 deg
End-position adjustment range at 90°	-5 ... 5 deg
Shaft connection depth	13.2 mm
Fitting connection conforms to standard	ISO 5211
Cushioning	No cushioning
Assembly position	Any
Mode of operation	double-acting
Design structure	Rack and pinion
Position detection	Optical
Closing direction	right-closing
Valve connection conforms to standard	VDI/VDE 3845 (NAMUR)
Connection for positioner and position sensor conforms to standard	VDI/VDE 3845 size AA 1
Working pressure	2 ... 8 bar
Nominal working pressure	5.5 bar
ATEX category Gas	II 2G
Explosion ignition protection type Gas	c T4 X
ATEX category Dust	II 2D
Explosion ignition protection type Dust	c 105°C X
Explosion-proof ambient temperature	-20°C ≤ Ta ≤ +80°C
Ambient temperature	-20 ... 80 °C
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Pressure dew point 10°C below ambient temperature/temperature of medium Lubricated operation possible (subsequently required for further operation)
CE symbol (see declaration of conformity)	according to EU-Ex protection guideline (ATEX)
Torque at rated working pressure and 0° rotation angle	20.1 Nm
Torque at nominal operating pressure with 90° swivel angle	20.1 Nm
Note about the torque	The operating torque of the actuator must not be higher than the maximum permissible torque listed in ISO 5211, with reference to the size of the mounting flange and of the coupling.
Air consumption at 6 bar per cycle 0°-90°-0°	1.21 l
Product weight	1,275 g
Shaft connection	V11
Pneumatic connection	G1/8 NPT1/8-27
Materials note	Conforms to RoHS
Materials information for subbase	Wrought Aluminum alloy Anodized
Material number of sub-base	EN AW-6063-T6
Materials information for cover	Aluminum die cast coated
Material number, cover	EN AC-46100-D

Feature	values
Materials information for seals	NBR
Materials information for spring	Spring steel
Materials information, housing	Wrought Aluminum alloy Anodized
Material number for housing	EN AW-6063-T6
Materials information for piston rod	Aluminum die cast
Material number of piston rod	EN AC-46100-D
Materials information for bearing	POM
Material information, cam	Stainless steel casting
Material number of cam	1.4308
Screw material data	High alloy steel, non-corrosive
Material number, screw	1.4301
Materials information for shaft	Steel Nickel plated
Material number for shaft	1.0715