

semi-rotary drive DFPD-120-RP-90-RS30-F0507

Part number: 8048133

FESTO



Data sheet

Feature	Value
Size of actuator	120
Flange hole pattern	F0507
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	19.3 mm
Fitting connection conforms to standard	ISO 5211
Cushioning	No cushioning
Assembly position	Any
Mode of operation	single-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
Operating pressure	2 ... 8 bar
Nominal operating pressure	3 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 mark (see declaration of conformity)	to EU directive explosion protection (ATEX)
Torque at rated operating pressure and 0° rotation angle	43 Nm
Torque at nominal operating pressure with 90° swivel angle	22.4 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.
Spring return torque with 0° swivel angle	21.1 Nm
Spring return torque at 90°	41.6 Nm
Air consumption at 6 bar per cycle 0°-90°-0°	4.3 l
Product weight	5,422 g
Shaft connection	V17
Pneumatic connection	G1/4
Materials note	Conforms to RoHS
Material of connecting plate	Wrought Aluminium alloy Anodised
Material number of sub-base	EN AW-6063-T6
Material cover	Aluminium die cast coated
Material number, cover	EN AC-46100-D

Feature	Value
Material seals	NBR
Material spring	Spring steel
Material housing	Wrought Aluminium alloy Anodised
Material number for housing	EN AW-6063-T6
Material piston rod	Aluminium die cast
Material number of piston rod	EN AC-46100-D
Material bearing	POM
Material cam	Stainless steel casting
Material number of cam	1.4308
Material screws	High alloy steel, non-corrosive
Material number, screw	1.4301
Material shaft	Steel Nickel plated
Material number for shaft	1.0715