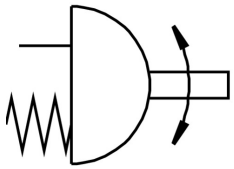
Quarter turn actuator
DFPD-40-RP-90-RS30-F04-R3-EP

Part number: 8047642





Data sheet

Feature	Value
Size of valve actuator	40
Flange hole pattern	F04
Swivel angle	90 deg
End-position adjusting range at 0°	-5 deg ... 5 deg
End-position adjusting range at nominal swivel angle	-5 deg ... 5 deg
Depth shaft connection	12 mm
Type code	DFPD
Standard connection for valve	ISO 5211
Mounting position	Any
Mode of operation	Single-acting
Design	Gear rack/pinion
Closing direction	Clockwise closing
Symbol	00991266
Valve connection conforms to standard	VDI/VDE 3845 (NAMUR)
Connection for valve positioner and position sensor conforms to standard	VDI/VDE 3845 size AA 1
Safety integrity level (SIL)	Up to SIL 2 high demand mode
Operating pressure	2 bar ... 8 bar
Nominal operating pressure	3 bar
ATEX category gas	II 2G
Type of ignition protection for gas	Ex h IIC T4 Gb X
ATEX category for dust	II 2D
Type of (ignition) protection for dust	Ex h IIIC T105°C Db X
Explosive ambient temperature	-20°C <= Ta <= +80°C
Ambient temperature	-20 °C ... 80 °C
Certificate issuing authority	German Technical Control Board (TÜV) Rheinland
Explosion prevention and protection	Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Dew point min. 10 °C below the ambient and medium temperature Operation with oil lubrication possible (required for further use)
CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
Storage temperature	-20 °C ... 60 °C
Torque at nominal operating pressure and 0° swivel angle	14 Nm
Torque at nominal operating pressure and 90° swivel angle	7.3 Nm

Feature	Value
Note about the torque	The actuator's operating torque must not be higher than the maximum permissible torque listed in ISO 5211, based on the size of the mounting flange and the coupling.
Spring return torque at 0° swivel angle	6.9 Nm
Spring return torque with 90° swivel angle	13.6 Nm
Air consumption at 6 bar per cycle 0°-nominal swivel angle-0°	1.5 l
Product weight	2087 g
Shaft connection	T11
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Material of sub-base	Wrought aluminum alloy, anodized
Cover material	Die-cast aluminum, coated
Seals material	NBR
Material of spring	Spring steel
Housing material	Wrought aluminum alloy, anodized
Material of piston	Die-cast aluminum
Material of bearing	POM
Cam material	Cast stainless steel
Material of screws	High-alloy stainless steel
Shaft material	High-alloy stainless steel