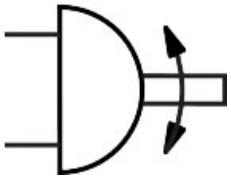
Quarter turn actuator
DFPD-N-10-RP-90-RD-F03-R3-EP

Part number: 8066406





Data sheet

Feature	Value
Size of valve actuator	10
Flange hole pattern	F03
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	10 mm
Standard connection for valve	ISO 5211
Mounting position	Any
Mode of operation	Double-acting
Structural design	Gear rack/pinion
Closing direction	Closes to the right
Valve connection conforms to standard	VDI/VDE 3845 (NAMUR)
Connection point for positioner and position sensor conforms to standard	VDI/VDE 3845 Size AA 1
Devices type according to VDMA 66413	Safety device
Safety function	The safety function consists of the actuator switching to the defined safety switching position. This switching movement is achieved by pressurizing the corresponding pressure chamber with compressed air. The value of the torque generated depends on the pressure difference between the two pressure chambers separated by the piston.
Safety integrity level (SIL)	Up to SIL 2 low demand mode up to SIL 3 in a redundant architecture up to SIL 1 high demand mode
Certified for safety function to ISO 13849 and IEC 61508 (SIL)	Product can be used in safety-related parts of control systems up to SIL 2, low demand Product can be used in safety-related parts of control systems up to SIL 1, high demand up to SIL 3 in a redundant architecture
Burst pressure	24 bar
Operating pressure	0.2 MPa...0.8 MPa 2 bar...8 bar 29 psi...116 psi
Nominal operating pressure	0.55 MPa 5.5 bar 79.75 psi

Feature	Value
Maritime classification	See certificate
CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
UKCA marking (see declaration of conformity)	acc. to UK EX instructions
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
Explosion prevention and protection	Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)
Certificate issuing authority	DNV TAP00001CE TÜV Rheinland 968/V 1106.01/2023
ATEX category gas	II 2G
ATEX category for dust	II 2D
Type of ignition protection for gas	Ex h IIC T4 Gb X
Type of (ignition) protection for dust	Ex h IIIC T105°C Db X
Explosive ambient temperature	-20°C <= Ta <= +80°C
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 temperature and temperature of medium Operation with oil lubrication possible (required for further use)
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Storage temperature	-20 °C...60 °C
Ambient temperature	-20 °C...80 °C
Torque at nominal operating pressure and 0° swivel angle	10.3 Nm
Torque at nominal operating pressure and 90° swivel angle	10.3 Nm
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.
Air consumption at 6 bar per cycle 0°-nominal swivel angle-0°	1 l
Product weight	965 g
Shaft connection	T9
Pneumatic connection	1/8 NPT
Note on materials	RoHS compliant
Material of sub-base	Wrought aluminum alloy, coated
Cover material	Die-cast aluminum, coated
Seals material	NBR
Housing material	Aluminum, powder-coated
Material of piston	Die-cast aluminum
Material of bearing	POM
Cam material	high-alloy stainless steel
Material of screws	high-alloy stainless steel
Shaft material	high-alloy stainless steel