Quarter turn actuator
DFPD-60-

Part number: 4930238



Data sheet

Feature	Value
Size of valve actuator	60
Flange hole pattern	F04 F05 F0507
Swivel angle	90 deg
End-position adjustment range at 0°	-5 deg...5 deg
End-position adjustment range at nominal swivel angle	-5 deg...5 deg
Shaft connection depth	12 mm...19 mm
Fitting connection conforms to standard	ISO 5211
Mounting position	Any
Mode of operation	Double-acting Single-acting
Design	Rack and pinion
Closing direction	Closes to the right closes to the left
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
Burst pressure	24 bar
Operating pressure	0.2 MPa...0.8 MPa 2 bar...8 bar 29 psi...116 psi
Nominal operating pressure	0.2 MPa...0.6 MPa 2 bar...6 bar 29 psi...87 psi
Maritime classification	See certificate
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
Explosion protection	Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)

Feature	Value
Certificate issuing authority	DNV TAP00001CE German Technical Control Board (TÜV) Rheinland 968/V 1106.01/2023
ATEX category gas	II 2G
ATEX category dust	II 2D
Explosion ignition protection type for gas	Ex h IIC T3 Gb X Ex h IIC T4 Gb X
Explosion ignition protection type for dust	Ex h IIIC T105°C Db X Ex h IIIC T175°C Db X
Explosion ambient temperature	-20°C <= Ta <= +80°C 0°C <= Ta <= +150°C
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Dew point at least 10 °C below the ambient temperature and temperature of the medium Lubricated operation possible (in which case lubricated operation will always be required)
LABS (PWIS) conformity	VDMA24364-B1/B2-L VDMA24364 zone III
Storage temperature	-20 °C...60 °C
Ambient temperature	-20 °C...150 °C
Torque at nominal operating pressure and 0° swivel angle	14.7 Nm...63.3 Nm
Torque at nominal operating pressure and 90° swivel angle	8.3 Nm...63.3 Nm
Note on 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 at 0° swivel angle	8.4 Nm...25.1 Nm
Spring return torque at 90° swivel angle	14.7 Nm...44.2 Nm
Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0°	2 l...3.8 l
Product weight	2793 g...3267 g
Shaft connection	T11 T14 T17
Pneumatic connection	G1/8 1/8 NPT
Note on materials	RoHS compliant
Material sub-base	Coated wrought aluminium alloy Anodised wrought aluminium alloy
Material cover	Coated die-cast aluminium Anodised die-cast aluminium
Material seals	Fluoro rubber NBR
Material spring	Spring steel
Material housing	Anodised aluminium Aluminium, powder-coated
Material piston	Die-cast aluminium
Material bearing	POM Reinforced PPS
Material cam	High-alloy stainless steel
Material screws	High-alloy stainless steel
Material shaft	Nickel-plated steel High-alloy stainless steel