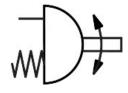
## Quarter turn actuator DFPD-40-RP-90-RS60-F05-R3-C Part number: 8102804

**FESTO** 





## **Data sheet**

Size of valve actuator  Flange hole pattern  Four Swivel angle  End-position adjusting range at 0°  End-position adjusting range at nominal swivel angle  Depth shaft connection  Standard connection for valve	05 0 deg 5 deg5 deg
Flange hole pattern  Fo Swivel angle  End-position adjusting range at 0°  End-position adjusting range at nominal swivel angle  Depth shaft connection  Standard connection for valve	05 0 deg 5 deg5 deg
End-position adjusting range at 0° -5 End-position adjusting range at nominal swivel angle -5 Depth shaft connection 16 Standard connection for valve ISI	5 deg5 deg
End-position adjusting range at nominal swivel angle -5 Depth shaft connection 16 Standard connection for valve IS	
End-position adjusting range at nominal swivel angle -5 Depth shaft connection 16 Standard connection for valve IS	
Standard connection for valve	5 deg5 deg
	6 mm
Mounting position An	50 5211
Imoduling position	ny
Mode of operation Sin	ingle-acting
Structural design Ge	ear rack/pinion
Closing direction Clo	lockwise closing
Valve connection conforms to standard VE	DI/VDE 3845 (NAMUR)
Connection point for positioner and position sensor conforms to VE standard	DI/VDE 3845 size AA 1
Devices type according to VDMA 66413 Sa	afety device
sw sp	he safety function consists of the drive switching to the defined safety witching position when the compressed air is switched off and the pring chamber is exhausted. This switching movement is achieved by ne spring force of the spring assembly.
up	p to SIL 2 low demand mode p to SIL 3 in a redundant architecture p to SIL 1 high demand mode
2, Pr. 1,	roduct can be used in safety-related parts of control systems up to SIL , low demand roduct can be used in safety-related parts of control systems up to SIL , high demand p to SIL 3 in a redundant architecture
Burst pressure 24	4 bar
21	.2 MPa0.8 MPa bar8 bar 9 psi116 psi
61	.6 MPa bar 7 psi
Maritime classification Se	ee certificate

Feature	Value
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 German Technical Control Board (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 °C60 °C
Ambient temperature	-20 °C80 °C
Torque at nominal operating pressure and 0° swivel angle	28 Nm
Torque at nominal operating pressure and 90° swivel angle	14.5 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.
Spring return torque at 0° swivel angle	13.8 Nm
Spring return torque with 90° swivel angle	27.2 Nm
MTTFd	1126 years
PFH	1.01E-07
PFD	0.00078
Air consumption at 6 bar per cycle 0°-nominal swivel angle-0°	1.5 l
Product weight	2185 g
Shaft connection	T14
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Material of sub-base	Wrought aluminum alloy, anodized
Cover material	Wrought aluminum alloy, anodized
Seals material	NBR
Material of spring	Spring steel
Housing material	Wrought aluminum alloy, anodized
Material of piston	Die-cast aluminum
Material of bearing	РОМ
Cam material	High-alloy stainless steel
Material of screws	High-alloy stainless steel
Shaft material	High-alloy stainless steel