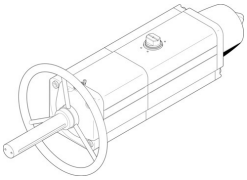
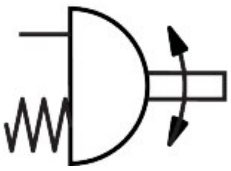
Quarter turn actuator
DAPS-0720-090-RS3-F12-MW

Part number: 8005062





Data sheet

Feature	Value
Size of valve actuator	0720
Flange hole pattern	F12
Swivel angle	92 deg
Depth shaft connection	38.5 mm
Information on the end-position adjusting range	One end position optionally adjustable
Standard connection for valve	ISO 5211
Cushioning	No cushioning
Mounting position	Any
Mode of operation	Single-acting
Structural design	Kinematic yoke system
Position sensing	None
Closing direction	Closes to the right
Valve connection conforms to standard	VDI/VDE 3845 (NAMUR)
Safety integrity level (SIL)	Up to SIL 2 high demand mode Up to SIL 2 low demand mode
Connection pressure for spring force	0.42 MPa 4.2 bar
Operating pressure	0.42 MPa...0.84 MPa 4.2 bar...8.4 bar
Nominal operating pressure	0.56 MPa 5.6 bar
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 prevention and protection	Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)
Certificate issuing authority	German Technical Control Board North (TÜV Nord) 212170801
ATEX category gas	II 2G
ATEX category for dust	II 2D
Type of ignition protection for gas	Ex h IIC T6...T3 Gb X
Type of (ignition) protection for dust	Ex h IIIC T85°C...T200°C Db X
Explosive ambient temperature	-20°C <= Ta <= +60°C

Feature	Value
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Ambient temperature	-20 °C...80 °C
Torque at nominal operating pressure and 0° swivel angle	840 Nm
Torque at nominal operating pressure and 50° swivel angle	450 Nm
Torque at nominal operating pressure and 90° swivel angle	660 Nm
Spring return torque at 0° swivel angle	360 Nm
Spring return torque with 50° swivel angle	270 Nm
Spring return torque with 90° swivel angle	540 Nm
Spring force	3
Air consumption at 6 bar per cycle 0°-nominal swivel angle-0°	29.4 l
Product weight	38800 g
Shaft connection	T36
Pneumatic connection	G1/4
Note on materials	RoHS compliant
Cover material	Wrought aluminum alloy
Seals material	FPM NBR PUR
Housing material	Wrought aluminum alloy
Material of screws	High-alloy steel
Shaft material	High-alloy steel
Material number for shaft	1,4305