

Quarter turn actuator DAPS-0120-090-R-F0507-CR

Part number: 552872

FESTO



 General operating condition

Data sheet

Feature	Value
Size of valve actuator	0120
Flange hole pattern	F05 F07
Swivel angle	90 deg
Depth shaft connection	16.3 mm
Standard connection for valve	ISO 5211
Cushioning	No cushioning
Mounting position	Any
Mode of operation	Double-acting
Structural design	Scotch yoke system
Position sensing	None
Closing direction	Clockwise closing
Symbol	00991265
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
Operating pressure	0.25 MPa ... 0.84 MPa
Operating pressure	2.5 bar ... 8.4 bar
Nominal operating pressure	0.56 MPa
Nominal operating pressure	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
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)	3 - High corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Feature	Value
Ambient temperature	-20 °C ... 80 °C
Torque at nominal operating pressure and 0° swivel angle	120 Nm
Torque at nominal operating pressure and 50° swivel angle	60 Nm
Torque at nominal operating pressure and 90° swivel angle	90 Nm
Air consumption at 6 bar per cycle 0°-nominal swivel angle-0°	4.06 l
Product weight	3300 g
Shaft connection	T14
Pneumatic connection	G1/8
Note on materials	RoHS-compliant
Cover material	High-alloy stainless steel
Material number of cover	1.4408
Seals material	FPM NBR PUR
Housing material	High-alloy stainless steel
Material number of housing	1.4408
Material of screws	High-alloy stainless steel
Shaft material	High-alloy stainless steel
Material number for shaft	1.4301