

Quarter turn actuator DAPS-1920-090-R-F1216

Part number: 533479

FESTO



Data sheet

Feature	Value
Size of valve actuator	1920
Flange hole pattern	F12 F16
Swivel angle	90 deg
End-position adjusting range at 0°	-1 deg ... 9 deg
Depth shaft connection	48.5 mm
Type code	DAPS
Standard connection for valve	ISO 5211
Cushioning	No cushioning
Mounting position	Any
Mode of operation	Double-acting
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	1 bar ... 8.4 bar
Nominal operating pressure	5.6 bar
ATEX category gas	II 2G
Type of ignition protection for gas	Ex h IIC T6...T3 Gb X
ATEX category for dust	II 2D
Type of (ignition) protection for dust	Ex h IIIC T85°C...T200°C Db X
Explosive ambient temperature	-20°C ≤ Ta ≤ +60°C
Ambient temperature	-20 °C ... 80 °C
Explosion prevention and protection	Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)
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)
CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
Corrosion resistance class (CRC)	3 - High corrosion stress
Torque at nominal operating pressure and 0° swivel angle	1920 Nm
Torque at nominal operating pressure and 50° swivel angle	960 Nm
Torque at nominal operating pressure and 90° swivel angle	1440 Nm

Feature	Value
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°	71.4 l
Product weight	32000 g
Shaft connection	T46
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