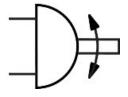
FESTO

Quarter turn actuator DAPS-0720-090-R-F1012-T4 Part number: 8030610





Data sheet

F10 F12 Servivel angle Servivel angl	Feature	Value
F12 Swivel angle and-position adjusting range at 0° -1 deg9 deg 29.5 mm Standard connection 29.5 mm Standard connection for valve Ushioning Mounting position Any Mode of operation Structural design Scotch yoke system Position sensing None Closkwise closing Voll/VDE 3845 (NAMUR) Safety integrity level (SIL) Up to SIL 2 low demand mode Operating pressure 30.3 MPa0.84 MPa 35.6 bar Max. swivel frequency at 6 bar Ext marking (see declaration of conformity) Explosion prevention and protection Zone 1 (ATEX) Zone 2 (GIEX) Zone 2 (Size of valve actuator	0720
Indeposition adjusting range at 0° Indeposition and protection for valve ISO 5211 INDUSTRIAN ANY INDUSTRIAN AN	Flange hole pattern	
Depth shaft connection 29.5 mm Standard connection for valve 150 5211 No cushioning Mounting position Any Mode of operation Double-acting Structural design Socith yoke system Position sensing None Closkwise closing VDI/VDE 3845 (NAMUR) Safety integrity level (SIL) Up to SIL 2 low demand mode O.3 MPa0.84 MPa 3. bar8.4 bar Sominal operating pressure O.56 MPa 5.6 bar Max. swivel frequency at 6 bar 1 Hz Emarking (see declaration of conformity) As per EU explosion protection directive (ATEX) Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 23 (ATEX) Zone 25 (ATEX) Zone 26 (ATEX) Zone 27 (ATEX) Zone 28 (ATEX) Zone 29 (ATEX) Zone 20 (ATEX) Zone	Swivel angle	90 deg
ISO 5211 Cushioning No cushioning No cushioning No cushioning Nounting position Mounting position Double-acting Structural design Scotch yoke system Position sensing None Closing direction Clockwise closing Valve connection conforms to standard VDI/VDE 3845 (NAMUR) Safety integrity level (SIL) Up to SIL 2 low demand mode Operating pressure 0.3 MPa0.84 MPa 3 bar8.4 bar Nominal operating pressure 1 Hz Example of the declaration of conformity) as per EU explosion protection directive (ATEX) IXCA marking (see declaration of conformity) acc. to UK EX instructions Explosion prevention and protection Zone 2 (ATEX) Zo	End-position adjusting range at 0°	-1 deg9 deg
Any Mode of operation Mounting position Mounting position Mounting position Mode of operation Double-acting Structural design Scotch yoke system Position sensing None Clockwise closing None Clockwise closing Alve connection conforms to standard VDI/VDE 3845 (NAMUR) Safety integrity level (SIL) Up to SIL 2 low demand mode Operating pressure O.3 MPa0.84 MPa 3 bar8.4 bar Nominal operating pressure Nax. swivel frequency at 6 bar I Hz Et marking (see declaration of conformity) As per EU explosion protection directive (ATEX) Act marking (see declaration of conformity) Cxplosion prevention and protection Carlot (ATEX) Cone 2	Depth shaft connection	29.5 mm
Any Mode of operation Double-acting Structural design Scotch yoke system None Closkwise closing None Closkwise closing VDI/VDE 3845 (NAMUR) Safety integrity level (SIL) Up to SIL 2 low demand mode Operating pressure O.36 MPa S.6 bar Naminal operating pressure O.56 MPa S.6 bar Max. swivel frequency at 6 bar I Hz Et marking (see declaration of conformity) Alex and any	Standard connection for valve	ISO 5211
Mode of operation Double-acting Scructural design Scotch yoke system None Closing direction Clockwise closing VDI/VDE 3845 (NAMUR) Safety integrity level (SIL) Up to SIL 2 low demand mode Operating pressure One of MPa Solo Bar Solo Bar Max. swivel frequency at 6 bar Emarking (see declaration of conformity) UKCA marking (see declaration of conformity) UKCA marking (see declaration and protection Explosion prevention and protection United the suit of the sui	Cushioning	No cushioning
Scotch yoke system Position sensing None Closkwise closing VDI/VDE 3845 (NAMUR) Safety integrity level (SIL) Up to SIL 2 low demand mode Operating pressure Operat	Mounting position	Any
None Closkwise closing Closkwise closing Closkwise closing Clockwise closing Closkwise	Mode of operation	Double-acting
Closking direction Clockwise closing Alve connection conforms to standard VDI/VDE 3845 (NAMUR) Up to SIL 2 low demand mode Operating pressure O.3 MPaO.84 MPa 3 bar8.4 bar Nominal operating pressure O.56 MPa 5.6 bar Hz Et 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) Zone 22 (ATEX) Et rificate issuing authority German Technical Control Board North (TÜV Nord) 212170801 ATEX category gas Il 2D Type of ignition protection for gas Ex h IIC T6T3 Gb X Explosive ambient temperature Clockwise closing VDI/VDE 3845 (NAMUR) Up to SIL 2 low demand mode VDI/VDE 3845 (NAMUR) Up to SIL 2 low demand mode OSIL 2 low demand mode OSIL 2 low demand mode O.3 MPa0.84 MPa 3 bar8.4 bar O.56 MPa 5.6 bar 1 Hz as per EU explosion protection directive (ATEX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Ex h IIC T6T3 Gb X Ex h IIC T85°CT200°C Db X Explosive ambient temperature -20°C <= Ta <= +150°C	Structural design	Scotch yoke system
VDI/VDE 3845 (NAMUR) Gafety integrity level (SIL) Up to SIL 2 low demand mode Operating pressure O.3 MPa0.84 MPa 3 bar8.4 bar Nominal operating pressure O.56 MPa 5.6 bar Max. swivel frequency at 6 bar 1 Hz It marking (see declaration of conformity) JKCA marking (see declaration of conformity) as per EU explosion protection directive (ATEX) JKCA marking (see declaration of conformity) Zone 1 (ATEX) Zone 2 (ATEX) Extrificate issuing authority German Technical Control Board North (TÜV Nord) 212170801 Il 2G ATEX category for dust Il 2D Type of ignition protection for gas Exh IIC T6T3 Gb X Exh IIC T85°CT200°C Db X Explosive ambient temperature	Position sensing	None
Departing pressure O.3 MPa0.84 MPa 3 bar8.4 bar O.56 MPa 5.6 bar Max. swivel frequency at 6 bar I Hz Etemarking (see declaration of conformity) Acc. to UK EX instructions Explosion prevention and protection Explosion prevention and protection Certificate issuing authority Acter actegory gas Acter actegory for dust II 2D II 2D III 2D III C T6T3 Gb X Explosion protection for dust Explosion protection for du	Closing direction	Clockwise closing
Operating pressure Operat	Valve connection conforms to standard	VDI/VDE 3845 (NAMUR)
3 bar8.4 bar O.56 MPa 5.6 bar Max. swivel frequency at 6 bar 1 Hz E marking (see declaration of conformity) JKCA marking (see declaration of conformity) acc. to UK EX instructions Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Extricate 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 T6T3 Gb X Explosive ambient temperature -20°C <= Ta <= +150°C	Safety integrity level (SIL)	Up to SIL 2 low demand mode
5.6 bar Max. swivel frequency at 6 bar 1 Hz Ex marking (see declaration of conformity) as per EU explosion protection directive (ATEX) JKCA marking (see declaration of conformity) acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Extrifficate 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 T6T3 Gb X Explosive ambient temperature 5.6 bar 1 Hz 2 as per EU explosion protection directive (ATEX) 2 acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Explosive ambient temperature	Operating pressure	
ATEX category gas ATEX category for dust Type of (ignition) protection for dust Explosion protection of conformity) as per EU explosion protection directive (ATEX) acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) German Technical Control Board North (TÜV Nord) 212170801 II 2G ATEX category for dust II 2D Type of (ignition) protection for dust Ex h IIIC T6T3 Gb X Ex h IIIC T85°CT200°C Db X Explosive ambient temperature	Nominal operating pressure	
JKCA marking (see declaration of conformity) acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (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 T6T3 Gb X Explosive ambient temperature -20°C <= Ta <= +150°C	Max. swivel frequency at 6 bar	1 Hz
Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Explosion prevention and protection Zone 1 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) German Technical Control Board North (TÜV Nord) 212170801 II 2G ATEX category gas II 2D Type of ignition protection for gas Ex h IIC T6T3 Gb X Type of (ignition) protection for dust Explosive ambient temperature -20°C <= Ta <= +150°C	CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 23 (ATEX) Zone 23 (ATEX) Zone 23 (ATEX) Zone 24 (ATEX) Zone 24 (ATEX) Zone 25 (ATEX) Zone 25 (ATEX) Zone 26 (ATEX) Zone 26 (ATEX) Zone 26 (ATEX) Zone 27 (ATEX) Zon	UKCA marking (see declaration of conformity)	acc. to UK EX instructions
ATEX category gas II 2G ATEX category for dust II 2D Type of ignition protection for gas Ex h IIC T6T3 Gb X Type of (ignition) protection for dust Ex h IIIC T85°CT200°C Db X Explosive ambient temperature -20°C <= Ta <= +150°C	Explosion prevention and protection	Zone 2 (ATEX) Zone 21 (ATEX)
ATEX category for dust Type of ignition protection for gas Ex h IIC T6T3 Gb X Type of (ignition) protection for dust Ex h IIIC T85°CT200°C Db X Explosive ambient temperature -20°C <= Ta <= +150°C	Certificate issuing authority	German Technical Control Board North (TÜV Nord) 212170801
Type of ignition protection for gas Ex h IIC T6T3 Gb X Type of (ignition) protection for dust Ex h IIIC T85°CT200°C Db X Explosive ambient temperature -20°C <= Ta <= +150°C	ATEX category gas	II 2G
Type of (ignition) protection for dust Ex h IIIC T85°CT200°C Db X Explosive ambient temperature -20°C <= Ta <= +150°C	ATEX category for dust	II 2D
Explosive ambient temperature -20°C <= Ta <= +150°C	Type of ignition protection for gas	Ex h IIC T6T3 Gb X
	Type of (ignition) protection for dust	Ex h IIIC T85°CT200°C Db X
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Explosive ambient temperature	-20°C <= Ta <= +150°C
	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]

Feature	Value
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 zone III
Ambient temperature	-20 °C150 °C
Torque at nominal operating pressure and 0° swivel angle	720 Nm
Torque at nominal operating pressure and 50° swivel angle	360 Nm
Torque at nominal operating pressure and 90° swivel angle	540 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.
Air consumption at 6 bar per cycle 0°-nominal swivel angle-0°	24.5 l
Product weight	12000 g
Shaft connection	T27
Pneumatic connection	G1/4
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy
Seals material	FPM PTFE-reinforced
Housing material	Wrought aluminum alloy
Material of screws	High-alloy steel
Shaft material	High-alloy steel
Material number for shaft	1.4305