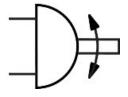
FESTO

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





Data sheet

inage hole pattern F10 F12 wivel angle J90 deg wivel angle Jepth shaft connection 29.5 mm tandard connection for valve Ushioning No cushioning Nouthing position Any Mode of operation tructural design Scotch yoke system Soition sensing None Loickwise closing Aive connection conforms to standard VDI/VDE 3845 (NAMUR) aftery integrity level (SIL) Up to SIL 2 low demand mode Jeperating pressure Jo.56 MPa Jo.66 MPa Jo.66 MPa Jo.66 MPa Jo.66 MPa Jo.66 MPa Jo.66 Mea Jo.66 MPa	Feature	Value
F12 wivel angle 90 deg nd-position adjusting range at 0° -1 deg9 deg epth shaft connection 29.5 mm tandard connection for valve ISO 5211 ushioning No cushioning No cushioning No doe of operation tructural design Scotch yoke system osition sensing None losing direction Clockwise closing alve connection conforms to standard VDI/VDE 3845 (NAMUR) afety integrity level (SIL) Up to SIL 2 low demand mode operating pressure 0.3 MPa0.84 MPa 3 bar8.4 bar ominal operating pressure 0.56 MPa 5.6 bar lax. swivel frequency at 6 bar 1 Hz E marking (see declaration of conformity) as per EU explosion protection directive (ATEX) KCA marking (see declaration of conformity) xplosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Eertificate issuing authority German Technical Control Board North (TÜV Nord) 212170801	Size of valve actuator	0720
nd-position adjusting range at 0° epth shaft connection 29.5 mm tandard connection for valve ushioning No cushioning No cushioning Nounting position Any Idde of operation tructural design Osition sensing losing direction Clockwise closing alve connection conforms to standard Arety integrity level (SIL) Up to SIL 2 low demand mode Outperating pressure O.36 MPa 3 bar8.4 bar Ominal operating pressure In the Emarking (see declaration of conformity) KCA marking (see declaration of conformity) Explosion prevention and protection Zone 1 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Errificate issuing authority ISO 5211 No cushioning Any IsO 5211 No cushioning Not cushioning No cushioning Not cush	Flange hole pattern	
repth shaft connection tandard connection for valve ushioning No cushioning No cushioning Nouthing position Any Rode of operation tructural design osition sensing losing direction Clockwise closing alve connection conforms to standard VDI/VDE 3845 (NAMUR) afety integrity level (SIL) Up to SIL 2 low demand mode organization of conformity) Ans. swivel frequency at 6 bar E marking (see declaration of conformity) KCA marking (see declaration of conformity) xplosion prevention and protection Zone 1 (ATEX) Zone 2	Swivel angle	90 deg
ISO 5211 ushioning No cushioning No cushioning No cushioning Nouthing position Any Node of operation Double-acting tructural design Scotch yoke system Osition sensing None Clockwise closing Alve connection conforms to standard VDI/VDE 3845 (NAMUR) afety integrity level (SIL) Up to SIL 2 low demand mode Operating pressure O.3 MPaO.84 MPa 3 bar8.4 bar Ominal operating pressure O.56 MPa 5.6 bar I Hz E marking (see declaration of conformity) RCA marking (see declaration of conformity) Acc. to UK EX instructions Zone 1 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) ertificate issuing authority German Technical Control Board North (TÜV Nord) 212170801	End-position adjusting range at 0°	-1 deg9 deg
ushioning No cushioning Any Mode of operation Double-acting tructural design Scotch yoke system None Clockwise closing alve connection conforms to standard VDI/VDE 3845 (NAMUR) afety integrity level (SIL) Up to SIL 2 low demand mode Imperating pressure O.3 MPaO.84 MPa 3 bar8.4 bar Imperating pressure O.56 MPa 5.6 bar I Hz E marking (see declaration of conformity) IKCA marking (see declaration of conformity) Acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) ertificate issuing authority German Technical Control Board North (TÜV Nord) 212170801	Depth shaft connection	29.5 mm
Any Node of operation Double-acting Scotch yoke system Osition sensing None Clockwise closing Alve connection conforms to standard Alve your of the pressure Osition sensing VDI/VDE 3845 (NAMUR) Afety integrity level (SIL) Up to SIL 2 low demand mode Osing a bar8.4 bar Ominal operating pressure O.56 MPa 5.6 bar Alax. swivel frequency at 6 bar I Hz E marking (see declaration of conformity) IKCA marking (see declaration of conformity) Acc. to UK EX instructions Acc. to UK EX	Standard connection for valve	ISO 5211
Double-acting tructural design Scotch yoke system None losing direction Clockwise closing alve connection conforms to standard VDI/VDE 3845 (NAMUR) afety integrity level (SIL) Up to SIL 2 low demand mode perating pressure O.3 MPa0.84 MPa 3 bar8.4 bar lominal operating pressure O.56 MPa 5.6 bar Alax. swivel frequency at 6 bar I Hz E marking (see declaration of conformity) as per EU explosion protection directive (ATEX) KCA marking (see declaration of conformity) xplosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Eertificate issuing authority German Technical Control Board North (TÜV Nord) 212170801	Cushioning	No cushioning
tructural design Scotch yoke system None losing direction Clockwise closing alve connection conforms to standard VDI/VDE 3845 (NAMUR) afety integrity level (SIL) Up to SIL 2 low demand mode perating pressure 0.3 MPa0.84 MPa 3 bar8.4 bar lominal operating pressure 0.56 MPa 5.6 bar lax. swivel frequency at 6 bar 1 Hz E marking (see declaration of conformity) as per EU explosion protection directive (ATEX) IKCA marking (see declaration of conformity) acc. to UK EX instructions xplosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Ertificate issuing authority German Technical Control Board North (TÜV Nord) 212170801	Mounting position	Any
None Clockwise closing alve connection conforms to standard VDI/VDE 3845 (NAMUR) afety integrity level (SIL) Up to SIL 2 low demand mode perating pressure 0.3 MPa0.84 MPa 3 bar8.4 bar lominal operating pressure 0.56 MPa 5.6 bar 1 Hz E marking (see declaration of conformity) KCA marking (see declaration of conformity) xplosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) ertificate issuing authority German Technical Control Board North (TÜV Nord) 212170801	Mode of operation	Double-acting
Clockwise closing alve connection conforms to standard Alve connection Alve conn	Structural design	Scotch yoke system
alve connection conforms to standard VDI/VDE 3845 (NAMUR) afety integrity level (SIL) Up to SIL 2 low demand mode O.3 MPa0.84 MPa 3 bar8.4 bar Iominal operating pressure O.56 MPa 5.6 bar 1 Hz E marking (see declaration of conformity) IKCA marking (see declaration of conformity) as per EU explosion protection directive (ATEX) IXCA marking (see declaration of conformity) Tone 1 (ATEX) Tone 2 (ATEX) Tone 22 (ATEX) Tone 22 (ATEX) Cone 22 (ATEX) German Technical Control Board North (TÜV Nord) 212170801	Position sensing	None
afety integrity level (SIL) Up to SIL 2 low demand mode O,3 MPa0.84 MPa 3 bar8.4 bar O,56 MPa 5.6 bar 1 Hz E marking (see declaration of conformity) KCA marking (see declaration of conformity) acc. to UK EX instructions Xplosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) ertificate issuing authority Up to SIL 2 low demand mode 0.3 MPa0.84 MPa 3 bar8.4 bar 0.56 MPa 5.6 bar 1 Hz as per EU explosion protection directive (ATEX) acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) German Technical Control Board North (TÜV Nord) 212170801	Closing direction	Clockwise closing
perating pressure 0.3 MPa0.84 MPa 3 bar8.4 bar 0.56 MPa 5.6 bar 1 Hz E marking (see declaration of conformity) KCA marking (see declaration of conformity) xplosion prevention and protection xplosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) ertificate issuing authority 0.3 MPa0.84 MPa 3 bar8.4 bar 0.56 MPa 5.6 bar 1 Hz as per EU explosion protection directive (ATEX) acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) German Technical Control Board North (TÜV Nord) 212170801	Valve connection conforms to standard	VDI/VDE 3845 (NAMUR)
3 bar8.4 bar O.56 MPa 5.6 bar 1 Hz E marking (see declaration of conformity) KCA marking (see declaration of conformity) acc. to UK EX instructions xplosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) ertificate issuing authority German Technical Control Board North (TÜV Nord) 212170801	Safety integrity level (SIL)	Up to SIL 2 low demand mode
5.6 bar 1 Hz E marking (see declaration of conformity) KCA marking (see declaration of conformity) acc. to UK EX instructions xplosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) ertificate issuing authority 5.6 bar 1 Hz as per EU explosion protection directive (ATEX) acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) German Technical Control Board North (TÜV Nord) 212170801	Operating pressure	
E marking (see declaration of conformity) KCA marking (see declaration of conformity) xplosion prevention and protection xplosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) ertificate issuing authority German Technical Control Board North (TÜV Nord) 212170801	Nominal operating pressure	1
KCA marking (see declaration of conformity) acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) ertificate issuing authority acc. to UK EX instructions German Technical Control Board North (TÜV Nord) 212170801	Max. swivel frequency at 6 bar	1 Hz
xplosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) ertificate issuing authority German Technical Control Board North (TÜV Nord) 212170801	CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) ertificate issuing authority German Technical Control Board North (TÜV Nord) 212170801	UKCA marking (see declaration of conformity)	acc. to UK EX instructions
	Explosion prevention and protection	Zone 2 (ATEX) Zone 21 (ATEX)
	Certificate issuing authority	German Technical Control Board North (TÜV Nord) 212170801
TEX category gas III 2G	ATEX category gas	II 2G
TEX category for dust II 2D	ATEX category for dust	II 2D
ype of ignition protection for gas Ex h IIC T6T3 Gb X	Type of ignition protection for gas	Ex h IIC T6T3 Gb X
ype of (ignition) protection for dust Ex h IIIC T85°CT200°C Db X	Type of (ignition) protection for dust	Ex h IIIC T85°CT200°C Db X
xplosive ambient temperature $-20^{\circ}\text{C} = \text{Ta} = +150^{\circ}\text{C}$	Explosive ambient temperature	-20°C <= Ta <= +150°C
perating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	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