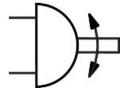
## **FESTO**

## Quarter turn actuator DAPS-0480-090-R-F1012-T6

Part number: 553180





## **Data sheet**

Size of valve actuator  Plange hole pattern  F10 F112  Swivel angle  90 deg  Ind-position adjusting range at 0°  Pepth shaft connection  Standard connection 29.5 mm  Standard connection ISO 5211  Cushioning  No cushioning  No cushioning  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  O.3 MPa0.84 MPa 3 bar8.4 bar  Nominal operating pressure  O.56 MPPa 5.6 bar  Max. swivel frequency at 6 bar  1 Hz  Eterrarking (see declaration of conformity)  JKCA marking (see declaration of conformity)  Sare 1 (ATEX) Zone 2 (ATEX)	ture	Value
F12 Swivel angle 90 deg Ind-position adjusting range at 0° -1 deg9 deg Depth shaft connection 29.5 mm Standard connection for valve ISO 5211 Whounting position Mounting position Mounting position Mounting position Mode of operation Double-acting Structural design Scotch yoke system Position sensing Closing direction Clockwise closing Valve connection conforms to standard VDI/VDE 3845 (NAMUR) Departing 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 Etemarking (see declaration of conformity) as per EU explosion protection directive (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX)	of valve actuator	0480
End-position adjusting range at 0°  Depth shaft connection  Standard connection 50	ge hole pattern	
Depth shaft connection Standard connection   29.5 mm   Standard connection for valve   ISO 5211  Dushioning   No cushioning   Mounting position   Any   Mode of operation   Double-acting   Structural design   Scotch yoke system   Position sensing   None   Closking direction   Clockwise closing   Valve connection conforms to standard   VDI/VDE 3845 (NAMUR)   Safety integrity level (SIL)   Up to SIL 2 low demand mode   Departing pressure   0.3 MPa0.84 MPa   3 bar8.4 bar   Nominal operating pressure   0.56 MPa   5.6 bar   Max. swivel frequency at 6 bar   1 Hz   Eter marking (see declaration of conformity)   acc, to UK EX instructions   Explosion prevention and protection   Zone 1 (ATEX)   Zone 21 (ATEX)   Zone 22 (ATEX)   Zone 24 (ATEX)   Zone 25 (ATEX)   Zone 26 (ATEX)   Zone 26 (ATEX)   Zone 27 (ATEX)   Zone 28 (ATEX)   Zone 28 (ATEX)   Zone 29 (ATEX)   Zone 20 (ATEX)   Zon	/el angle	90 deg
Standard connection for valve  Cushioning  Mounting position  Mode of operation  Structural design  Position sensing  Closing direction  Clockwise closing  VDI/VDE 3845 (NAMUR)  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  I Hz  CE marking (see declaration of conformity)  Explosion prevention and protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX)	-position adjusting range at 0°	-1 deg9 deg
Any Mode of operation Mode of operation Mode of operation  Structural design  Scotch yoke system  Position sensing None Closing direction Clockwise closing VDI/VDE 3845 (NAMUR)  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 I Hz  CE marking (see declaration of conformity)  Explosion prevention and protection  Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX)	th shaft connection	29.5 mm
Mounting position  Any  Mode of operation  Double-acting  Scrotch yoke system  Position sensing  None  Closking direction  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  O.56 MPa 5.6 bar  I Hz  Et marking (see declaration of conformity)  as per EU explosion protection directive (ATEX)  Explosion prevention and protection  Zone 1 (ATEX)  Zone 2 (ATEX)  Zone 22 (ATEX)	ndard connection for valve	ISO 5211
Double-acting Structural design Scotch yoke system Position sensing None Closing direction Clockwise closing 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 O.56 MPa 5.6 bar Hz Et marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)	nioning	No cushioning
Scotch yoke system  Position sensing  None  Closing direction  Clockwise closing  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  0.56 MPa 5.6 bar  1 Hz  The marking (see declaration of conformity)  JKCA marking (see declaration of conformity)  Explosion prevention and protection  Zone 1 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX)	inting position	Any
Position sensing Closing direction Clockwise closing VDI/VDE 3845 (NAMUR) Cafety integrity level (SIL) Up to SIL 2 low demand mode Operating pressure Operating pressure One of MPa Such as a per EU explosion protection directive (ATEX) CE marking (see declaration of conformity) Capetal integrity level (SIL) CE marking (see declaration of conformity) CE marking (see de	le of operation	Double-acting
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  0.56 MPa 5.6 bar  Max. swivel frequency at 6 bar  1 Hz  CE 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) Zone 22 (ATEX)	ctural design	Scotch yoke system
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  0.56 MPa 5.6 bar  1 Hz  CE 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) Zone 22 (ATEX) Zone 22 (ATEX)	tion sensing	None
Departing pressure  Osafety integrity level (SIL)  Up to SIL 2 low demand mode  Osafety integrity level (SIL)  Osafety integ	ing direction	Clockwise closing
Operating pressure  O.3 MPa0.84 MPa 3 bar8.4 bar  O.56 MPa 5.6 bar  Max. swivel frequency at 6 bar  1 Hz  Exemple Medical Explosion protection of conformity)  JKCA marking (see declaration of conformity)  acc. to UK EX instructions  Explosion prevention and protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX)	e connection conforms to standard	VDI/VDE 3845 (NAMUR)
3 bar8.4 bar  Nominal operating pressure  O.56 MPa 5.6 bar  I Hz  CE 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) Zone 22 (ATEX)	ty integrity level (SIL)	Up to SIL 2 low demand mode
5.6 bar  Max. swivel frequency at 6 bar  1 Hz  Explosion protection of conformity)  as per EU explosion protection directive (ATEX)  acc. to UK EX instructions  Zone 1 (ATEX)  Zone 2 (ATEX)  Zone 21 (ATEX)  Zone 22 (ATEX)	rating pressure	
CE marking (see declaration of conformity)  JKCA marking (see declaration of conformity)  acc. to UK EX instructions  Zone 1 (ATEX)  Zone 2 (ATEX)  Zone 21 (ATEX)  Zone 22 (ATEX)	ninal operating pressure	1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1
JKCA marking (see declaration of conformity)  acc. to UK EX instructions  Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)	. swivel frequency at 6 bar	1 Hz
Explosion prevention and protection  Zone 1 (ATEX)  Zone 2 (ATEX)  Zone 21 (ATEX)  Zone 22 (ATEX)	narking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)	A marking (see declaration of conformity)	acc. to UK EX instructions
Community in the site of the s	osion prevention and protection	Zone 2 (ATEX) Zone 21 (ATEX)
Lertinicate issuing authority German Technical Control Board North (107 Nord) 212170801	ificate issuing authority	German Technical Control Board North (TÜV Nord) 212170801
ATEX category gas II 2G	X category gas	II 2G
ATEX category for dust II 2D	X category for dust	II 2D
Type of ignition protection for gas Ex h IIC T6T3 Gb X	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	of (ignition) protection for dust	Ex h IIIC T85°CT200°C Db X
Explosive ambient temperature -50°C <= Ta <= +60°C	osive ambient temperature	-50°C <= Ta <= +60°C
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	rating 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	-50 ℃60 ℃
Torque at nominal operating pressure and 0° swivel angle	480 Nm
Torque at nominal operating pressure and 50° swivel angle	240 Nm
Torque at nominal operating pressure and 90° swivel angle	360 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°	18.2 l
Product weight	9600 g
Shaft connection	Т27
Pneumatic connection	G1/4
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy
Seals material	FVMQ PTFE-reinforced
Housing material	Wrought aluminum alloy
Material of screws	High-alloy steel
Shaft material	High-alloy steel
Material number for shaft	1.4305