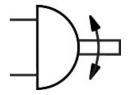
Quarter turn actuator DAPS-0106-090-R-F0507-T6 Part number: 553176

FESTO





Data sheet

FOS FO7 vivel angle 90 deg 90	Feature	Value
FO7 rivel angle 90 deg d-position adjusting range at 0° -1 deg9 deg spith shaft connection 19.3 mm andard connection for valve ISO 5211 shioning No cushioning counting position Any code of operation Double-acting curctural design Scotch yoke system sition sensing None coing direction Clockwise closing love connection conforms to standard VDI/VDE 3845 (NAMUR) fety integrity level (SIL) Up to SIL 2 low demand mode correcting pressure 0.3 MPa0.84 MPa 3 bar8.4 bar cominal operating pressure 1 Hz marking (see declaration of conformity) as per EU explosion protection directive (ATEX) CAC marking (see declaration of conformity) CAC marking (see declaration of conformity) EX category gas EX category for dust EX category for dust Ex h IIC T6T3 Gb X	Size of valve actuator	0106
d-position adjusting range at 0° -1 deg9 deg pth shaft connection 19.3 mm ISO 5211 Shoring No cushioning No cushioning Unuting position Any Any Any Any Ander of operation Cuctural design Sition sensing Soning direction Clockwise closing Veconnection conforms to standard VDI/VDE 3845 (NAMUR) Fety integrity level (SIL) Up to SIL 2 low demand mode Design gressure O.56 MPa S.66 bar Sax. swivel frequency at 6 bar I Hz Imarking (see declaration of conformity) CCA marking (see declaration of conformity) C	Flange hole pattern	
pth shaft connection 19.3 mm andard connection for valve 150 5211 shioning No cushioning Double-acting Double-acting Double-acting Scotch yoke system Sition sensing None Clockwise closing Veconnection conforms to standard VDI/VDE 3845 (NAMUR) Integrity level (SIL) Up to SIL 2 low demand mode Double-acting Pressure 0.56 MPa S.6 bar ax. swivel frequency at 6 bar Integrating (see declaration of conformity) as per EU explosion protection directive (ATEX) Accordant	Swivel angle	90 deg
ISO 5211 shioning No cushioning No cushioning Double-acting cuctural design Scotch yoke system Sition sensing None Clockwise closing Veconnection conforms to standard Volt/VDE 3845 (NAMUR) Gety 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 1 HZ ax. swivel frequency at 6 bar 1 HZ marking (see declaration of conformity) Ax per EU explosion protection directive (ATEX) Zone 22 (ATEX) EX category gas II 26 EX category for dust II 2D Ex h IIC T6T3 Gb X	End-position adjusting range at 0°	-1 deg9 deg
Shioning No cushioning Sunting position Any Side of operation Double-acting Scotch yoke system Suctural design Scotch yoke system Sition sensing None Clockwise closing Sensing direction Clockwise closing Served in Standard VDI/VDE 3845 (NAMUR) Served in Standard VDI/VDE 3845 (NAMUR) Served in Side in	Depth shaft connection	19.3 mm
Any Double-acting Scotch yoke system None Clockwise closing None Old of operation VDI/VDE 3845 (NAMUR) Set you demand mode Old of your demand your dem	Standard connection for valve	ISO 5211
Double-acting ructural design Scotch yoke system Sition sensing None Clockwise closing Ive connection conforms to standard VDI/VDE 3845 (NAMUR) Ive connection specific pressure 0.3 MPa0.84 MPa 3 bar8.4 bar 0.56 MPa 5.6 bar 1 Hz Iveraction of conformity Ivera	Cushioning	No cushioning
Scotch yoke system Sition sensing None Clockwise closing Ive connection conforms to standard VDI/VDE 3845 (NAMUR) fety integrity level (SIL) Up to SIL 2 low demand mode Perating pressure O.3 MPaO.84 MPa 3 bar8.4 bar O.56 MPa 5.6 bar I Hz Imarking (see declaration of conformity) CA marking (see declaration of c	Mounting position	Any
None Clockwise closing Ive connection conforms to standard VDI/VDE 3845 (NAMUR) Ive connection conforms to standard VDI/VDE 3845 (NAMUR) Ive to SIL 2 low demand mode O.3 MPa0.84 MPa 3 bar8.4 bar O.56 MPa 5.6 bar 1 Hz Imarking (see declaration of conformity) CA marking (see declaration of conformity) CA marking (see declaration of conformity) CA marking (see declaration of conformity) CO in the standard of t	Mode of operation	Double-acting
Clockwise closing live connection conforms to standard VDI/VDE 3845 (NAMUR) Up to SIL 2 low demand mode O.3 MPa0.84 MPa 3 bar8.4 bar Ominal operating pressure O.56 MPa 5.6 bar 1 Hz Imarking (see declaration of conformity) CA marking (see declaration of conformity) CA marking (see declaration of conformity) Topic of (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Trifficate issuing authority EX category gas II 2G EX category for dust Up to SIL 2 low demand mode VDI/VDE 3845 (NAMUR) Up to SIL 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) acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) EX category gas II 2G EX category for dust II 2D pe of ignition protection for gas EX h IIC T6T3 Gb X	Structural design	Scotch yoke system
Ive connection conforms to standard VDI/VDE 3845 (NAMUR) Up to SIL 2 low demand mode Output S	Position sensing	None
fety integrity level (SIL) Up to SIL 2 low demand mode 0.3 MPa0.84 MPa 3 bar8.4 bar 0.56 MPa 5.6 bar ax. swivel frequency at 6 bar I Hz I marking (see declaration of conformity) CA marking (see declaration of conformity) acc. to UK EX instructions Plosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Tone 22 (ATEX) Tone 22 (ATEX) Tone 22 (ATEX) EX category gas II 2G EX category for dust II 2D Ex h IIC T6T3 Gb X	Closing direction	Clockwise closing
perating pressure 0.3 MPa0.84 MPa 3 bar8.4 bar 0.56 MPa 5.6 bar 1 Hz marking (see declaration of conformity) CCA marking (see declaration of conformity) acc. to UK EX instructions plosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) EX category gas II 2G EX category for dust II 2D pe of ignition protection for gas 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 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) EX category for dust II 2D Ex h IIC T6T3 Gb X	Valve connection conforms to standard	VDI/VDE 3845 (NAMUR)
3 bar8.4 bar O.56 MPa 5.6 bar 1 Hz marking (see declaration of conformity) CCA marking (see declaration of conformity) acc. to UK EX instructions Plosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) rtificate issuing authority EX category gas II 2G EX category for dust pe of ignition protection for gas I Loss dars O.56 MPa 5.6 bar O.57 MPa O.58 MPa O.59 MPa O.59 MPa O.59 MPa O.50 MPa O.	Safety integrity level (SIL)	Up to SIL 2 low demand mode
5.6 bar ax. swivel frequency at 6 bar 1 Hz marking (see declaration 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) rtificate issuing authority EX category gas II 2G EX category for dust pe of ignition protection for gas 1 Hz 1 Hz 2	Operating pressure	1- 1111
as per EU explosion protection directive (ATEX) CCA marking (see declaration of conformity) acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) rtificate issuing authority German Technical Control Board North (TÜV Nord) 212170801 EX category gas II 2G EX category for dust pe of ignition protection for gas Ex h IIC T6T3 Gb X	Nominal operating pressure	
ACCA marking (see declaration of conformity) acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) rtificate issuing authority EX category gas II 2G EX category for dust II 2D pe of ignition protection for gas acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) II 2D Ex h IIC T6T3 Gb X	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) Zone 22 (ATEX) It if icate issuing authority EX category gas II 2G EX category for dust II 2D pe of ignition protection for gas II CT6T3 Gb X	CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) rtificate issuing authority German Technical Control Board North (TÜV Nord) 212170801 EX category gas II 2G EX category for dust pe of ignition protection for gas Ex h IIC T6T3 Gb X	UKCA marking (see declaration of conformity)	acc. to UK EX instructions
EX category gas II 2G EX category for dust II 2D pe of ignition protection for gas Ex h IIC T6T3 Gb X	Explosion prevention and protection	Zone 2 (ATEX) Zone 21 (ATEX)
EX category for dust II 2D Ex h IIC T6T3 Gb X	Certificate issuing authority	German Technical Control Board North (TÜV Nord) 212170801
pe of ignition protection for gas Ex h IIC T6T3 Gb X	ATEX category gas	II 2G
,	ATEX category for dust	II 2D
	Type of ignition protection for gas	Ex h IIC T6T3 Gb X
pe 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
plosive ambient temperature $-50^{\circ}\text{C} = \text{Ta} = +60^{\circ}\text{C}$	Explosive ambient temperature	-50°C <= Ta <= +60°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	-50 ℃60 ℃
Torque at nominal operating pressure and 0° swivel angle	106 Nm
Torque at nominal operating pressure and 50° swivel angle	53 Nm
Torque at nominal operating pressure and 90° swivel angle	80 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°	3.85 l
Product weight	2500 g
Shaft connection	T17
Pneumatic connection	G1/8
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