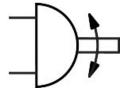
FESTO

Quarter turn actuator DAPS-0960-090-R-F1012 Part number: 533425





Data sheet

F10 F12 Avivel angle A-position adjusting range at 0° -1 deg9 deg A-position and A-positi	Feature	Value
F12 yivel angle d-position adjusting range at 0° -1 deg9 deg spth shaft connection 38.5 mm ISO 5211 No cushioning No cushioning pounting position Any Double-acting ructural design scition sensing None Soing direction (Icockwise closing Ive connection conforms to standard voll/VDE 3845 (NAMUR) Getting pressure 0.1 MPa0.84 MPa 1 bar8.4 bar ominal operating pressure 0.56 MPa 5.6 bar ax. swivel frequency at 6 bar ax. swivel frequency at 6 bar 1 Hz imarking (see declaration of conformity) acc. to UK EX instructions COA marking (see declaration of conformity) acc. to UK EX instructions Jone 2 (ATEX) Jone 2 (Size of valve actuator	0960
d-position adjusting range at 0° -1 deg9 deg spth shaft connection 38.5 mm andard connection for valve shioning No cushioning No cushioning No cushioning Noutling position Any Double-acting structural design Scotch yoke system Sition sensing None Clockwise closing VDI/VDE 3845 (NAMUR) Idegrity level (SIL) Up to SIL 2 low demand mode perating pressure O.1 MPa0.84 MPa 1 bar8.4 bar Dominal operating pressure 3.56 bar ax. swivel frequency at 6 bar In Hz Imarking (see declaration of conformity) CAC marking (see declaration of conformity) Dominal operation and protection CONFORM CAC marking (see declaration of conformity) Dominal operation of conformity CAC marking (see declaration of conformity) Dominal operation of conformity CAC marking (see declaration of conformity) Dominal operation of conformity CAC marking (see declaration of conformity) Dominal operation of conformity CAC marking (see declaration of conformity) Dominal operation of conformity Dominal o	Flange hole pattern	
pith shaft connection andard connection for valve andard connection for valve ISO 5211 No cushioning No cushioning No cushioning Noutling position Any Double-acting Furctural design Scotch yoke system Solition sensing None Solition Clockwise closing Ive connection conforms to standard VDI/VDE 3845 (NAMUR) Ive connection conforms to standard VDI/VDE 3845 (NAMUR) Ive connection conforms to standard Ive integrity level (SIL) Up to SIL 2 low demand mode O.1 MPaO.84 MPa 1 bar8.4 bar Dominal operating pressure 1 bar8.4 bar 1 Hz 1 marking (see declaration of conformity) CCA marking (see declaration of conformity) ACA marking (see declaration of conformity) ACCA marking (see declaration	Swivel angle	90 deg
andard connection for valve ISO 5211 No cushioning Nouthing position Any Double-acting ructural design Scotch yoke system None Clockwise closing None Clockwise closing Ive connection conforms to standard VDI/VDE 3845 (NAMUR) Ifety integrity level (SIL) Up to SIL 2 low demand mode O.1 MPaO.84 MPa 1 bar8.4 bar O.56 MPa 5.6 bar ax. swivel frequency at 6 bar I Hz marking (see declaration of conformity) CACA marking (see declaration of conformity) CACA marking (see declaration of conformity) CACA marking (see declaration of conformity) Tone 21 (ATEX) Tone 22 (ATEX) Tone 23 (ATEX) Tone 24 (ATEX) Tone 25 (ATEX) Tone 25 (ATEX) Tone 25 (ATEX) Tone 26 (ATEX) Tone 26 (ATEX) Tone 27 (End-position adjusting range at 0°	-1 deg9 deg
No cushioning No cushioning Any Double-acting ructural design Scotch yoke system Sition sensing None Clockwise closing Ive connection conforms to standard VDI/VDE 3845 (NAMUR) Up to SIL 2 low demand mode On MPa0.84 MPa 1 bar8.4 bar Distriction pressure On MPa0.84 MPa 1 bar8.4 bar Distriction pressure Distriction pressure On MPa0.84 MPa 1 bar8.4 bar Distriction pressure On Marking (see declaration of conformity) CAC marking (see declaration of conformity) Acc. to UK EX instructions Distriction prevention and protection Zone 1 (ATEX) Zone 2 (ATE	Depth shaft connection	38.5 mm
Double-acting Double-acting Fuctural design Scotch yoke system Solition sensing None Doing direction Clockwise closing VDI/VDE 3845 (NAMUR) Up to SIL 2 low demand mode Derating pressure Doing pressure	Standard connection for valve	ISO 5211
Double-acting Pructural design Pructural	Cushioning	No cushioning
Scotch yoke system None Clockwise closing Ive connection conforms to standard VDI/VDE 3845 (NAMUR) Up to SIL 2 low demand mode O.1 MPa0.84 MPa 1 bar8.4 bar Oninal operating pressure O.56 MPa 5.6 bar ax. swivel frequency at 6 bar I Hz I marking (see declaration of conformity) CCA marking (see declaration of conformity) CCA marking (see declaration and protection Doing 1 (ATEX) Doing 2 (ATEX) Doing 2 (ATEX) Doing 2 (ATEX) Tone 2	Mounting position	Any
None Clockwise closing Ive connection conforms to standard VDI/VDE 3845 (NAMUR) Up to SIL 2 low demand mode O.1 MPaO.84 MPa 1 bar8.4 bar Ominal operating pressure O.56 MPa 5.6 bar 1 Hz Imarking (see declaration of conformity) CCA marking (see declaration of conformity) CCA marking (see declaration and protection Dosion prevention and protection Tone 1 (ATEX) Tone 2 (ATEX)	Mode of operation	Double-acting
Clockwise closing Ive connection conforms to standard VDI/VDE 3845 (NAMUR) Up to SIL 2 low demand mode On MPa0.84 MPa 1 bar8.4 bar On MPa9.8 MPa 1 bar	Structural design	Scotch yoke system
Ive connection conforms to standard VDI/VDE 3845 (NAMUR) Up to SIL 2 low demand mode O.1 MPa0.84 MPa 1 bar8.4 bar O.56 MPa 5.6 bar ax. swivel frequency at 6 bar I Hz marking (see declaration of conformity) CCA marking (see declaration of conformity) plosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) vertificate issuing authority German Technical Control Board North (TÜV Nord) 212170801 EX category gas II 2D II 2D	Position sensing	None
Up to SIL 2 low demand mode On MPa0.84 MPa 1 bar8.4 bar On MPa9.84 MPa 1 ba	Closing direction	Clockwise closing
Derating pressure O.1 MPa0.84 MPa 1 bar8.4 bar O.56 MPa 5.6 bar 1 Hz I marking (see declaration of conformity) CCA marking (see declaration of conformity) CCA marking (see declaration of conformity) Discrete 1 (ATEX) Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Prtificate issuing authority EX category gas II 2G II 2D	Valve connection conforms to standard	VDI/VDE 3845 (NAMUR)
1 bar8.4 bar O.56 MPa 5.6 bar ax. swivel frequency at 6 bar 1 Hz marking (see declaration of conformity) CCA marking (see declaration of conformity) plosion prevention and protection plosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) rtificate issuing authority EX category gas II 2G II 2D	Safety integrity level (SIL)	Up to SIL 2 low demand mode
5.6 bar ax. swivel frequency at 6 bar 1 Hz as per EU explosion protection directive (ATEX) acc. to UK EX instructions CA marking (see declaration of conformity) acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) rtificate issuing authority EX category gas II 2G EX category for dust II 2D	Operating pressure	
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 acc. to UK EX instructions Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) German Technical Control Board North (TÜV Nord) 212170801	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 II 2D	Max. swivel frequency at 6 bar	1 Hz
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 II 2D	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 II 2D	UKCA marking (see declaration of conformity)	acc. to UK EX instructions
EX category gas II 2G EX category for dust II 2D	Explosion prevention and protection	Zone 2 (ATEX) Zone 21 (ATEX)
EX category for dust II 2D	Certificate issuing authority	German Technical Control Board North (TÜV Nord) 212170801
	ATEX category gas	II 2G
To builties and which for the	ATEX category for dust	II 2D
pe of ignition protection for gas	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 $-20^{\circ}\text{C} = \text{Ta} = +60^{\circ}\text{C}$	Explosive ambient temperature	-20°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-B1/B2-L
Ambient temperature	-20 °C80 °C
Torque at nominal operating pressure and 0° swivel angle	960 Nm
Torque at nominal operating pressure and 50° swivel angle	480 Nm
Torque at nominal operating pressure and 90° swivel angle	720 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°	34.3 l
Product weight	17400 g
Shaft connection	Т36
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