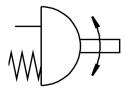
## Quarter turn actuator DAPS-0030-090-RS2-F0507-T6

**FESTO** 

Part number: 553194





## **Data sheet**

Size of valve actuator	
F07   Swivel angle	
End-position adjusting range at 0° End-position adjusting range at nominal swivel angle End-position adjusting range at nominal swivel angle Depth shaft connection 16.5 mm Type code Information on the end-position adjusting range One end position optionally adjustable Standard connection for valve USO 5211 Cushioning No cushioning Mounting position Any Mode of operation Design Scotch yoke system Position sensing Closing direction Closing direction Symbol Oo991266 Valve connection conforms to standard VDI/VDE 3845 (NAMUR) Safety integrity level (SIL) Up to SIL 2 high demand mode Up to SIL 2 low demand mode Connection pressure for spring force O.35 MPa Connection pressure for spring force 0.35 bar Operating pressure 0.56 MPa Nominal operating pressure S.6 bar CE marking (see declaration of conformity) Explosion prevention and protection  ATEX category gas II 2G ATEX category for dust	
End-position adjusting range at nominal swivel angle  Depth shaft connection  Type code  DAPS  Information on the end-position adjusting range  Standard connection for valve  Cushioning  Mounting position  Mode of operation  Design  Position sensing  Closkwise closing  Symbol  Valve connection conforms to standard  VDI/VDE 3845 (NAMUR)  Safety integrity level (SIL)  Up to SIL 2 high demand mode Up to SIL 2 low demand mode Connection pressure for spring force  Operating pressure  Operating pressure  Operating pressure  Operating pressure  Os 5 MPa  Nominal operating pressure  CE marking (see declaration of conformity)  Explosion prevention and protection  All degree and mode leads of the conformity  ATEX category gas  ATEX category gas  II 2G  ATEX category for dust	
Depth shaft connection  Type code  Information on the end-position adjusting range  Standard connection for valve  Uso 5211  Cushioning  Mounting position  Mode of operation  Design  Position sensing  Closing direction  Single-acting  Symbol  Valve connection conforms to standard  VDI/VDE 3845 (NAMUR)  Safety integrity level (SIL)  Up to SIL 2 low demand mode Up to SIL 2 low demand mode Connection pressure for spring force  Onerating pressure  Operating pressure  Operating pressure  Operating pressure  Os 6 MPa  Nominal operating pressure  CE marking (see declaration of conformity)  Explosion prevention and protection  Any  One end position optionally adjustable ISO 5211  No cushioning  None  Clockwise closing  None	
Type code Information on the end-position adjusting range Standard connection for valve Cushioning Mounting position Mode of operation Design Position sensing Closing direction Singte-acting Symbol Valve connection conforms to standard VDI/VDE 3845 (NAMUR) Safety integrity level (SIL) Up to SIL 2 low demand mode Connection pressure for spring force Operating pressure Operating pressure Operating pressure Operating pressure  Nominal operating pressure CE marking (see declaration of conformity) Explosion prevention and protection Any One end position optionally adjustable ISO 5211 No cushioning No cushioning Non cushioning None Clockwise closing Opo91266 VDI/VDE 3845 (NAMUR) Up to SIL 2 ligh demand mode Up to SIL 2 low demand mode Up to SIL 2 low demand mode Onas MPa Operating pressure O.35 MPa O.35 MPa O.35 MPa 0.84 MPa Operating pressure O.56 MPa Nominal operating pressure S.6 bar CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) ATEX category gas ATEX category for dust	
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Standard connection for valve  Cushioning  Mounting position  Mode of operation  Design  Position sensing  Closing direction  Single-acting  None  Clockwise closing  Symbol  Valve connection conforms to standard  VDI/VDE 3845 (NAMUR)  Safety integrity level (SIL)  Up to SIL 2 high demand mode Up to SIL 2 low demand mode Up to SIL 2 low demand mode Connection pressure for spring force  Operating pressure  Operating pressure  Operating pressure  Operating pressure  Osaf MPa  Nominal operating pressure  CE marking (see declaration of conformity)  Explosion prevention and protection  ATEX category gas  ATEX category for dust  Single-acting No cushioning No cushioning No none  Clockwise closing Scotch yoke system None  Clockwise closing  Non	
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Mode of operation  Design  Single-acting  Scotch yoke system  None  Closing direction  Closing direction  Closhybe connection conforms to standard  VDI/VDE 3845 (NAMUR)  Safety integrity level (SIL)  Up to SIL 2 high demand mode Up to SIL 2 low demand mode  Up to SIL 2 low demand mode  Connection pressure for spring force  0.35 MPa  Connection pressure for spring force  0.35 MPa  Operating pressure  0.35 MPa 0.84 MPa  Operating pressure  0.56 MPa  Nominal operating pressure  0.56 MPa  Nominal operating pressure  5.6 bar  CE marking (see declaration of conformity)  as per EU explosion protection directive (ATEX)  Zone 2 (ATEX)  Zone 22 (ATEX)  ATEX category gas  ATEX category for dust	
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Symbol  Valve connection conforms to standard  VDI/VDE 3845 (NAMUR)  Safety integrity level (SIL)  Up to SIL 2 high demand mode Up to SIL 2 low demand mode  Connection pressure for spring force  Connection pressure for spring force  Operating pressure  Operating pressure  Operating pressure  Onerating pressure  Outside the sum of the sum o	
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Safety integrity level (SIL)  Up to SIL 2 high demand mode Up to SIL 2 low demand mode Connection pressure for spring force  0.35 MPa  Connection pressure for spring force  3.5 bar  Operating pressure  0.35 MPa 0.84 MPa  Operating pressure  3.5 bar 8.4 bar  Nominal operating pressure  0.56 MPa  Nominal operating pressure  5.6 bar  CE marking (see declaration of conformity)  Explosion prevention and protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX)  ATEX category gas  II 2G  ATEX category for dust	
Up to SIL 2 low demand mode  Connection pressure for spring force  Connection pressure for spring force  3.5 bar  Operating pressure  Operating pressure  Operating pressure  Operating pressure  0.35 MPa 0.84 MPa  3.5 bar 8.4 bar  Nominal operating pressure  O.56 MPa  Nominal operating pressure  CE marking (see declaration of conformity)  as per EU explosion protection directive (ATEX)  Zone 2 (ATEX)  Zone 2 (ATEX)  Zone 22 (ATEX)  ATEX category gas  II 2G  ATEX category for dust	
Connection pressure for spring force  Operating pressure  Operating pressure  Operating pressure  3.5 bar 0.84 MPa  3.5 bar 0.84 MPa  Nominal operating pressure  O.56 MPa  Nominal operating pressure  5.6 bar  CE marking (see declaration of conformity)  as per EU explosion protection directive (ATEX)  Explosion prevention and protection  Zone 1 (ATEX)  Zone 2 (ATEX)  Zone 21 (ATEX)  Zone 22 (ATEX)  ATEX category gas  II 2G  ATEX category for dust	
Operating pressure Operating pressure 3.5 MPa 0.84 MPa 3.5 bar 8.4 bar  Nominal operating pressure O.56 MPa  Nominal operating pressure 5.6 bar  CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX)  Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)  ATEX category gas II 2G  ATEX category for dust II 2D	
Operating pressure  Nominal operating pressure  Nominal operating pressure  O.56 MPa  Nominal operating pressure  S.6 bar  CE marking (see declaration of conformity)  as per EU explosion protection directive (ATEX)  Zone 1 (ATEX)  Zone 2 (ATEX)  Zone 21 (ATEX)  Zone 22 (ATEX)  ATEX category gas  II 2G  ATEX category for dust	
Nominal operating pressure  Nominal operating pressure  5.6 bar  CE marking (see declaration of conformity)  as per EU explosion protection directive (ATEX)  Zone 1 (ATEX)  Zone 2 (ATEX)  Zone 21 (ATEX)  Zone 22 (ATEX)  ATEX category gas  II 2G  ATEX category for dust  II 2D	
Nominal operating pressure  CE marking (see declaration of conformity)  as per EU explosion protection directive (ATEX)  Zone 1 (ATEX)  Zone 2 (ATEX)  Zone 21 (ATEX)  Zone 22 (ATEX)  ATEX category gas  II 2G  ATEX category for dust	
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Explosion prevention and protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)  ATEX category gas  II 2G  ATEX category for dust  II 2D	
Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)  ATEX category gas  II 2G  ATEX category for dust  II 2D	rive (ATEX)
ATEX category for dust	
5 /	
Type of ignition protection for gas Ex h IIC T6T3 Gb X	
l ''	
Type of (ignition) protection for dust Ex h IIIC T85°CT200°C Db X	
Explosive ambient temperature -50°C <= Ta <= +60°C	
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:	010 [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
Ambient temperature	-50 ℃ 60 ℃
Torque at nominal operating pressure and 0° swivel angle	37.6 Nm
Torque at nominal operating pressure and 50° swivel angle	20.7 Nm
Torque at nominal operating pressure and 90° swivel angle	31.3 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.
Spring return torque at 0° swivel angle	12.5 Nm
Spring return torque with 50° swivel angle	9.4 Nm
Spring return torque with 90° swivel angle	18.8 Nm
Spring force	2
Air consumption at 6 bar per cycle 0°-nominal swivel angle-0°	1.19 l
Product weight	1950 g
Shaft connection	T14
Pneumatic connection	G1/8
Note on materials	Contains paint-wetting impairment substances 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