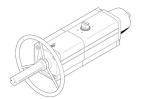
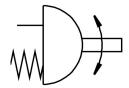
Quarter turn actuator DAPS-0480-090-RS1-F1012-MW

FESTO

Part number: 8005050





Data sheet

File File Swivel angle	Feature	Value
F12 Depth shaft connection Depth shaft connection Type code DAPS Information on the end-position adjusting range One end position optionally adjustable Standard connection for valve Cushioning No cushioning Mounting position Any Mode of operation Design Scotch yoke system Position sensing Closing direction 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 high demand mode Up to SIL 2 high demand mode Up to SIL 2 how demand mode Connection pressure for spring force 2.8 bar Nominal operating pressure 3.6 bar ATEX category gas Il 2G Type of fightion protection for gas Ex h IIC T6T3 Gb X ATEX category for dust Il 2D Type of (ightion) protection for dust Explosive ambient temperature -50°C <= Ta <= +60°C Ambient temperature 2.0 c 80 °C Explosion prevention and protection Connection operating pand pilot media Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating nead poliot media Operating siden protection directive (ATEX) Corrosion resistance class (CRC) Spring return torque at 0° swivel angle 160 Nm	Size of valve actuator	0480
Depth shaft connection 38.5 mm Type code DAPS One end position optionally adjustable Standard connection for valve Cushioning Mouting position Mouting position Mode of operation Design Position sensing Closing direction Clockwise closing Symbol Closing direction Safety integrity level (SIL) Up to SIL 2 ling demand mode Up to SIL 2 ling demand mode Connection pressure for spring force Operating pressure ATEX category gas Il 2G ATEX category gas Il 2G ATEX category for dust Il 2D Type of (ignition protection for dust Explosive ambient temperature Ambient temperature -20°C 80°C Explosion prevention and protection Compressed air as per ISO 8573-1:2010 [7:4:4] Information for servand cates of the side required for further use) Explosion protection direction for conformity) Corrosion resistance class (CRC) Spring return torque at 0° swivel angle 160 Nm	Flange hole pattern	
Information on the end-position adjusting range DAPS One end position optionally adjustable Standard connection for valve ISO 5211 No cushioning No cushioning Mounting position Any Mode of operation Single-acting Design Scotch yoke system Position sensing Clockwise closing Symbol Operation Safety integrity level (SIL) Up to SIL 2 high demand mode Up to SIL 2 high demand mo	Swivel angle	92 deg
One end position optionally adjustable Standard connection for valve USO 5211 Cushioning No cushioning Mounting position Mode of operation Design Scotch yoke system Position sensing Closkwise closing Symbol Valve connection conforms to standard Safety integrity level (SIL) Up to SIL 2 low demand mode Up to SIL 2 low demand mode Connection pressure for spring force 2.8 bar ATEX category gas Il 2G Type of ignition protection for dust Explosive ambient temperature Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Compressivance (SRC) Spring return torque at 0° swivel angle Derating stees of Spring and protection for further use) Departing medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operating (see declaration of conformity) as per EU explosion stress Spring return torque at 0° swivel angle	Depth shaft connection	38.5 mm
Standard connection for valve Cushioning Mounting position Any Mode of operation Design Scotch yoke system Position sensing Closing direction Clockwise closing Symbol Voll/VDE 3845 (NAMUR) Safety integrity level (SIL) Up to SIL 2 high demand mode up to SIL 2 high demand mode up to SIL 2 how demand mode Up to SIL 2 how demand mode Connection pressure for spring force 2.8 bar Operating pressure ATEX category gas Il 2G Il 2D Exh IIC T6T3 Gb X ATEX category for dust Il 2D Explosion protection for dust Exh IIIC T85°CT200°C Db X Explosive ambient temperature -50°C = Ta (= +60°C Ambient temperature Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone	Type code	DAPS
Cushioning No cushioning Mounting position Any Mode of operation Design Scotch yoke system Position sensing None Clockwise closing Symbol 00991266 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 Up to SIL 2 high demand mode Up to SIL 2 low demand mode Up to SIL 2 l	Information on the end-position adjusting range	One end position optionally adjustable
Mounting position Any Mode of operation Single-acting Scotch yoke system None Closing direction Closing direction Closing direction Closing direction Symbol O0991266 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 2.8 bar Operating pressure 2.8 bar 3.6 bar ATEX category gas Il 2G Type of (ignition) protection for gas Ex h IIIC T6T3 Gb X ATEX category for dust Explosive ambient temperature -50°C (= Ta (= +60°C) Annihent temperature -20 °C 80 °C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Cone 21 (ATEX) Cone 22 (ATEX) Cone 22 (ATEX) Cone 23 (ATEX) Cone 25 (ATEX) Cone 25 (ATEX) Cone 26 (ATEX) Cone 27 (ATEX) Cone 28 (ATEX) Cone 29 (ATEX) Cone 20 (ATEX) C	Standard connection for valve	ISO 5211
Single-acting	Cushioning	No cushioning
Design Scotch yoke system Position sensing None Closing direction Clockwise closing Symbol 00991266 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 2.8 bar Operating pressure 2.8 bar Operating pressure 5.6 bar ATEX category gas II 2G Type of ignition protection for gas Ex h IIC T6T3 Gb X ATEX category for dust II 2D Type of (ignition) protection for dust Ex h IIIC T8.5°CT200°C Db X Explosive ambient temperature -50°C ← Ta ← +60°C Ambient temperature -20 °C 80 °C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Core 22 (ATEX) Core 22 (ATEX) Core 25 (Feat of the form of the conformity) Septing return torque at 0° swivel angle 160 Nm	Mounting position	Any
Position sensing Closing direction Clockwise closing Op991266 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 2.8 bar Operating pressure 2.8 bar. 8.4 bar Nominal operating pressure Nominal operating pressure 3.6 bar ATEX category gas II 2G Type of ignition protection for gas Ex h IIC T6T3 Gb X ATEX category for dust II 2D Type of (Ignition) protection for dust Explosive ambient temperature -50°C (= Ta '= +60°C Ambient temperature -20°C 80°C Explosion prevention and protection Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) as per EU explosion protection directive (ATEX) Cornorsion resistance class (CRC) Spring return torque at 0° swivel angle Iono 10091266 VDI/VDE 3845 (NAMUR) Sales (Single demand mode Up to SIL 2 low d	Mode of operation	Single-acting
Closing direction Clockwise closing O0991266 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 Operating pressure Connection pressure for spring force 2.8 bar Operating pressure 2.8 bar 8.4 bar Nominal operating pressure Nominal operating pressure S.6 bar ATEX category gas II 2G Type of ignition protection for gas Ex h IIIC T6T3 Gb X ATEX category for dust II 2D Type of (ignition) protection for dust Explosive ambient temperature -50°C ← Ta ← +60°C Ambient temperature -20 °C 80 °C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Cone 22 (ATEX) Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle	Design	Scotch yoke system
Symbol O0991266 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 Onnection pressure for spring force 2.8 bar Operating pressure 2.8 bar 8.4 bar Nominal operating pressure S.6 bar ATEX category gas II 2G Type of ignition protection for gas Ex h III C T6 T3 Gb X ATEX category for dust II 2D Type of (ignition) protection for dust Explosive ambient temperature -50°C ← Ta ← +60°C Ambient temperature -20°C 80°C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle	Position sensing	None
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 2.8 bar Operating pressure 2.8 bar Nominal operating pressure 5.6 bar ATEX category gas II 2G Type of ignition protection for gas Ex h IIC T6T3 Gb X ATEX category for dust II 2D Type of (ignition) protection for dust Ex h IIIC T85°CT200°C Db X Explosive ambient temperature -50°C ← Ta ← +60°C Ambient temperature -20 °C 80 °C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Cone 3 (See declaration of conformity) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) Spring return torque at 0° swivel angle	Closing direction	Clockwise closing
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 Up to SIL 2 low demand mode 2.8 bar Operating pressure 2.8 bar 8.4 bar Nominal operating pressure 5.6 bar ATEX category gas Il 2G Type of ignition protection for gas Ex h IIC T6T3 Gb X ATEX category for dust Il 2D Type of (ignition) protection for dust Ex h IIIC T85°CT200°C Db X Explosive ambient temperature 50°C <= Ta <= +60°C Ambient temperature 20 °C 80 °C Explosion prevention and protection Zone 1 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) Spring return torque at 0° swivel angle	Symbol	00991266
Up to SIL 2 low demand mode Connection pressure for spring force 2.8 bar Operating pressure 2.8 bar 8.4 bar Nominal operating pressure 5.6 bar ATEX category gas II 2G Type of ignition protection for gas Ex h IIC T6T3 Gb X ATEX category for dust II 2D Type of (ignition) protection for dust Explosive ambient temperature -50°C <= Ta <= +60°C Ambient temperature -20°C 80°C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Cornerating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media CE marking (see declaration of conformity) Corrosion resistance class (CRC) Spring return torque at 0° swivel angle 160 Nm	Valve connection conforms to standard	VDI/VDE 3845 (NAMUR)
Operating pressure 2.8 bar 8.4 bar Nominal operating pressure 5.6 bar ATEX category gas II 2G Type of ignition protection for gas Ex h IIC T6T3 Gb X ATEX category for dust II 2D Type of (ignition) protection for dust Explosive ambient temperature -50°C <= Ta <= +60°C Ambient temperature -20 °C 80 °C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle	Safety integrity level (SIL)	
Nominal operating pressure ATEX category gas II 2G Type of ignition protection for gas Ex h IIC T6T3 Gb X ATEX category for dust II 2D Type of (ignition) protection for dust Ex h IIIC T85°CT200°C Db X Explosive ambient temperature -50°C <= Ta <= +60°C Ambient temperature -20 °C 80 °C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle	Connection pressure for spring force	2.8 bar
ATEX category gas Type of ignition protection for gas Ex h IIC T6T3 Gb X ATEX category for dust II 2D Type of (ignition) protection for dust Ex h IIIC T85°CT200°C Db X Explosive ambient temperature -50°C <= Ta <= +60°C Ambient temperature -20°C 80°C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media CE marking (see declaration of conformity) Cerrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle II 2G Ex h III C T6T3 Gb X II 2D Ex h IIIC T85°CT200°C Db X Ex h IIIC T85°C	Operating pressure	2.8 bar 8.4 bar
Type of ignition protection for gas Ex h IIC T6T3 Gb X ATEX category for dust II 2D Type of (ignition) protection for dust Ex h IIIC T85°CT200°C Db X Explosive ambient temperature -50°C <= Ta <= +60°C Ambient temperature -20°C 80°C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle	Nominal operating pressure	5.6 bar
ATEX category for dust Type of (ignition) protection for dust Ex h IIIC T85°CT200°C Db X Explosive ambient temperature -50°C <= Ta <= +60°C Ambient temperature -20 °C 80 °C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle 160 Nm	ATEX category gas	II 2G
Type of (ignition) protection for dust Ex h IIIC T85°CT200°C Db X Explosive ambient temperature -50°C <= Ta <= +60°C Ambient temperature -20 °C 80 °C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle 160 Nm	Type of ignition protection for gas	Ex h IIC T6T3 Gb X
Explosive ambient temperature -50°C <= Ta <= +60°C Ambient temperature -20 °C 80 °C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle 160 Nm	ATEX category for dust	II 2D
Ambient temperature -20 °C 80 °C Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle	Type of (ignition) protection for dust	Ex h IIIC T85°CT200°C Db X
Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle	Explosive ambient temperature	-50°C <= Ta <= +60°C
Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle 160 Nm	Ambient temperature	-20 °C 80 °C
Information on operating and pilot media Operation with oil lubrication possible (required for further use) CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle 160 Nm	Explosion prevention and protection	Zone 2 (ATEX) Zone 21 (ATEX)
CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle 160 Nm	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Corrosion resistance class (CRC) 2 - Moderate corrosion stress Spring return torque at 0° swivel angle 160 Nm	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Spring return torque at 0° swivel angle 160 Nm	CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
	Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Spring return torque with 50° swivel angle 120 Nm	Spring return torque at 0° swivel angle	160 Nm
	Spring return torque with 50° swivel angle	120 Nm

Feature	Value
Spring return torque with 90° swivel angle	240 Nm
Spring force	1
Air consumption at 6 bar per cycle 0°-nominal swivel angle-0°	19.6 l
Product weight	28100 g
Shaft connection	T36
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