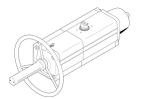
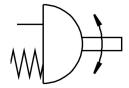
## Quarter turn actuator DAPS-0480-090-RS3-F1012-MW

**FESTO** 

Part number: 8005054





## **Data sheet**

Size of valve actuator	ture	Value
F12 Swivel angle Depth shaft connection Type code Information on the end-position adjusting range Information on the end-position Information on the end-position adjusting range Information on the end-position end position optionally adjustable Information on the end-position displayed properties of the end position optionally adjustable Information on operating pressure Information on operating pressure Information on operating pressure Information on operating prescure Information on operating present on the properties of the proper	of valve actuator	0480
Depth shaft connection  38.5 mm  Type code  DAPS  Information on the end-position adjusting range  One end position optionally adjustable  Standard connection for valve  ISO 5211  Cushioning  No cushioning  No ushioning  Mounting position  Any  Mode of operation  Design  Scotch yoke system  Position sensing  None  Closing direction  Closing direction  Safety integrity level (SIL)  Up to SIL 2 high demand mode  Up to SIL 2 high demand mode  Up to SIL 2 low demand mode  Connection pressure for spring force  4.2 bar  Nominal operating pressure  4.2 bar 8.4 bar  Nominal operating pressure  4.2 bar 8.4 bar  Nominal operating pressure  5.6 bar  ATEX category gas  Il 2G  Type of (ignition) protection for dust  Exh III CT6T3 Gb X  ATEX category for dust  Il 2D  Type of (ignition) protection for dust  Exh III CT8-°CT200°C Db X  Explosive ambient temperature  -50°C ← Ta ← +60°C  Ambient temperature  -20 °C 80 °C  Explosion prevention and protection  Zone 2 (ATEX)  Zone 2 (	nge hole pattern	
Type code  Information on the end-position adjusting range  One end position optionally adjustable  Standard connection for valve  Uso 5211  Cushioning  Mounting position  Any  Mode of operation  Design  Scotch yoke system  Position sensing  Closing direction  Closing direction  Single-acting  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  4.2 bar  Operating pressure  4.2 bar 8.4 bar  Nominal operating pressure  5.6 bar  ATEX category gas  Type of ignition protection for dust  Exh IIC T6T3 Gb X  ATEX category for dust  Il 2D  Type of (ignition) protection for dust  Exh IIIC T85°CT200°C Db X  Explosive ambient temperature  -20 °C 80 °C  Explosion prevention and protection  Zone 1 (ATEX)  Zone 22 (ATEX)  Zone 21 (ATEX)  Zone 22 (ATEX)  Zone 21 (ATEX)  Zone 22 (ATEX)  Zone 21 (ATEX)  Zone 22 (ATEX)  Zone 21 (ATEX)  Zone 22 (ATEX)	vel angle	92 deg
Information on the end-position adjusting range  Standard connection for valve  ISO 5211  Cushioning  No cushioning  Mounting position  Any  Mode of operation  Single-acting  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 low demand mode Connection pressure for spring force  4.2 bar 8.4 bar  Nominal operating pressure  ATEX category gas  Il 2G  Type of ignition protection for dust  Exh IIIC T8.5°C T200°C UD 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 23 (ATEX) Zone 23 (ATEX) Zone 24 (ATEX) Zone 24 (ATEX) Zone 25 (ATEX) Zo	oth shaft connection	38.5 mm
Standard connection for valve  Cushioning  Mounting position  Any  Mode of operation  Design  Position sensing  Closing direction  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 Up to SIL 2 low demand mode Up to SIL 2 low demand mode  Connection pressure for spring force  4.2 bar  Operating pressure  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 IIC T85°CT200°C Db X  Explosive ambient temperature  Anbient temperature  -20°C 80°C  Explosion prevention and protection  Zone 1 (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)	e code	DAPS
Cushioning  Mounting position  Any  Mode of operation  Single-acting  Scotch yoke system  Position sensing  Closing direction  Overating demand mode  Up to SIL 2 high demand mode  Up to SIL 2 high demand mode  Up to SIL 2 bar  Operating pressure  4.2 bar  Operating pressure  4.2 bar  Nominal operating pressure  4.2 bar  Nominal operating pressure  5.6 bar  ATEX category gas  Il 2G  Type of ignition protection for gas  ExhIIC T6T3 Gb X  ATEX category for dust  Il 2D  Type of (ignition) protection for dust  Exh IIIC T85°CT200°C Db X  Explosive ambient temperature  Ambient temperature  -20°C 80°C  Explosion prevention and protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Information on operating and pilot media  Operation with oil lubrication possible (required for further use)	rmation on the end-position adjusting range	One end position optionally adjustable
Mounting position  Any  Mode of operation  Single-acting  Scotch yoke system  Position sensing  None  Clockwise closing  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 3 low demand mode Up to SIL 5 low demand mode Up to SIL 6 low demand mode Up to SIL 7 low demand mode Up to SIL 8 low demand mode Up to SIL 9 low demand mode Up to SIL 9 low demand mode Up to SIL 6 low demand mode Up to SIL 7 low demand mode Up to SIL 8 low demand mode Up to SIL 9 low demand low demand mode Up to SIL 9 low demand low demand mode Up to SIL 9 low demand low demand low demand mode Up to SIL 9 low demand low demand low demand low demand low de	ndard connection for valve	ISO 5211
Single-acting	hioning	No cushioning
Design   Scotch yoke system	unting position	Any
Position sensing  Closing direction  Clockwise closing  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 Connection pressure for spring force  4.2 bar  Operating pressure  4.2 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 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)	de of operation	Single-acting
Closking direction  Clockwise closing  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  Connection pressure for spring force  4.2 bar  Operating pressure  4.2 bar 8.4 bar  Nominal operating pressure  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  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)	ign	Scotch yoke system
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 Up to SIL 2 low demand mode  Connection pressure for spring force  4.2 bar  Operating pressure  4.2 bar  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 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Tone 2 (ATEX	ition 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  4.2 bar  Operating pressure  4.2 bar 8.4 bar  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)  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)	sing direction	Clockwise closing
Safety integrity level (SIL)  Up to SIL 2 high demand mode Up to SIL 2 low demand mode  Connection pressure for spring force  4.2 bar  Operating pressure  4.2 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  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 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)	nbol	00991266
Up to SIL 2 low demand mode  Connection pressure for spring force  4.2 bar  Operating pressure  4.2 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  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 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)	/e connection conforms to standard	VDI/VDE 3845 (NAMUR)
Operating pressure  4.2 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  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 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)	ety 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 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)	nnection pressure for spring force	4.2 bar
ATEX category gas  II 2G  Type of ignition protection for gas  Ex h IIC T6T3 Gb X  ATEX category for dust  III 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)	erating pressure	4.2 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)	ninal 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 21 (ATEX)  Zone 22 (ATEX)  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media	X 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)	e 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)	X category for dust	II 2D
Ambient temperature  -20 °C 80 °C  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	e 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 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)	losive 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)	bient temperature	-20 °C 80 °C
Information on operating and pilot media Operation with oil lubrication possible (required for further use	losion prevention and protection	Zone 2 (ATEX) Zone 21 (ATEX)
· · · · · · · · · · · · · · · · · · ·	erating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
CE marking (see declaration of conformity) as per EU explosion protection directive (ATEX)	rmation on operating and pilot media	Operation with oil lubrication possible (required for further use)
	marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
Corrosion resistance class (CRC) 2 - Moderate corrosion stress	rosion resistance class (CRC)	2 - Moderate corrosion stress
Torque at nominal operating pressure and 0° swivel angle 560 Nm	дие at nominal operating pressure and 0° swivel angle	560 Nm
Torque at nominal operating pressure and 50° swivel angle 300 Nm	que at nominal operating pressure and 50° swivel angle	300 Nm

Feature	Value
Torque at nominal operating pressure and 90° swivel angle	440 Nm
Spring return torque at 0° swivel angle	240 Nm
Spring return torque with 50° swivel angle	180 Nm
Spring return torque with 90° swivel angle	360 Nm
Spring force	3
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