

# Semi-rotary drive DFPD-300-

Part number: 8042191

**FESTO**



## Data sheet

Feature	Value
Size of valve actuator	300
Flange hole pattern	F10 F0710
Swivel angle	90 deg...180 deg
End-position adjustment range at 0°	-5 deg...5 deg
End-position adjustment range at nominal swivel angle	-5 deg...5 deg
Shaft connection depth	24 mm
Fitting connection conforms to standard	ISO 5211
Mounting position	optional
Mode of operation	Double-acting Single-acting
Design	Rack and pinion
Closing direction	Closes to the right Closes to the left
Valve connection conforms to standard	VDI/VDE 3845 (NAMUR)
Connection point for positioner and position sensor conforms to standard	VDI/VDE 3845 size AA 2
Safety Integrity Level (SIL)	To SIL 2 Low Demand mode Up to SIL 3 in a redundant architecture Up to SIL 1 high demand mode
Certified for safety function to ISO 13849 and IEC 61508 (SIL)	Product can be used in SRP/CS up to SIL 2 (Low Demand) Product can be used in SRP/CS up to SIL 1 (High Demand) Up to SIL 3 in a redundant architecture
Burst pressure	24 bar
Operating pressure	0.2 MPa...0.8 MPa 2 bar...8 bar 29 psi...116 psi
Nominal operating pressure	0.2 MPa...0.6 MPa 2 bar...6 bar 29 psi...87 psi
Maritime classification	See certificate
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)

Feature	Value
Explosion protection	Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)
Certificate issuing authority	DNV TAP00001CE German Technical Control Board (TÜV) Rheinland 968/V 1106.01/2023
ATEX category gas	II 2G
ATEX category dust	II 2D
Explosion ignition protection type for gas	Ex h IIC T3 Gb X Ex h IIC T4 Gb X Ex h IIC T6 Gb X
Explosion ignition protection type for dust	Ex h IIIC T105°C Db X Ex h IIIC T175°C Db X Ex h IIIC T85°C Db X
Explosion ambient temperature	-20 °C ≤ Ta ≤ +80 °C -50°C ≤ Ta ≤ +60°C 0°C ≤ Ta ≤ +150°C
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Dew point at least 10 °C below the ambient temperature and temperature of the medium Lubricated operation possible (in which case lubricated operation will always be required)
LABS (PWIS) conformity	VDMA24364 zone III
Storage temperature	-20 °C...60 °C
Ambient temperature	-50 °C...150 °C
Torque at nominal operating pressure and 0° swivel angle	73.7 Nm...301.9 Nm
Torque at nominal operating pressure and 90° swivel angle	38.4 Nm...301.9 Nm
Note on torque	The operating torque of the actuator must not be higher than the maximum permissible torque listed in ISO 5211, with reference to the size of the mounting flange and of the coupling.
Spring return torque at 0° swivel angle	36.1 Nm...108.4 Nm
Spring return torque at 90° swivel angle	71.4 Nm...214.1 Nm
Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0°	11 l...26.4 l
Product weight	11224 g...12899 g
Shaft connection	T22
Pneumatic connection	G1/4 1/4 NPT
Note on materials	RoHS-compliant
Material sub-base	Die-cast aluminium, coated Anodised wrought aluminium alloy
Material cover	Die-cast aluminium, coated Anodised wrought aluminium alloy
Material seals	FPM FVMQ NBR
Material spring	Spring steel
Material housing	Die-cast aluminium, coated Anodised wrought aluminium alloy
Material piston	Die-cast aluminium
Material bearing	POM PPS reinforced
Material cam	Steel High-alloy stainless steel
Material screws	High-alloy stainless steel
Material shaft	Nickel-plated steel High-alloy stainless steel