

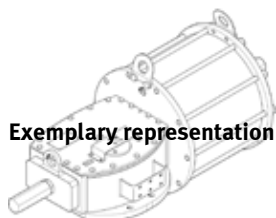
Semi-rotary actuator

DFPD-HD-18000-

Part number: 8042202

FESTO

Heavy-duty version, rack and pinion design, connection pattern according to NAMUR VDI/VDE 3845 for mounting position sensors and positioners, standard connection to fitting ISO 5211.



Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Size of actuator	18000
Flange hole pattern	F30
Piston diameter	335 mm 385 mm 435 mm 485 mm 535 mm 585 mm
Swivel angle	90 deg
End-position adjustment range at 0°	-5 ... 5 deg
End-position adjusting range at nominal swivel angle	-5 ... 5 deg
Shaft connection depth	200 mm
Fitting connection conforms to standard	ISO 5211
Cushioning	No cushioning
Assembly position	Any Horizontal
Mode of operation	double-acting single-acting
Design structure	Yoke kinematics
Position detection	Optical
Closing direction	right-closing Closes to the left
Certified for safety function to ISO 13849 and IEC 61508 (SIL)	Product can be used in SRP/CS up to SIL 2 low demand
Operating pressure MPa	0.1 ... 0.85 MPa
Working pressure	1 ... 8.5 bar
Operating pressure	14.5 ... 123.25 psi
Nominal operating pressure	0.3 ... 0.6 MPa
Nominal working pressure	3 ... 6 bar
Nominal operating pressure (psi)	43.5 ... 87 psi
CE symbol (see declaration of conformity)	according to EU-Ex protection guideline (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
Certificate issuing department	TÜV Nord 212170802
ATEX category Gas	II 2G
ATEX category Dust	II 2D
Explosion ignition protection type Gas	Ex h IIB T6...T4 Gb X
Explosion ignition protection type Dust	Ex h IIC T85°C...T105°C Db X
Explosion-proof ambient temperature	-20°C ≤ Ta ≤ +80°C
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Pressure dew point 10°C below ambient temperature/temperature of medium

Feature	Value
	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	0 - No corrosion stress
PWIS conformity	VDMA24364 zone III
Protection class	IP66M IP67M
Ambient temperature	-20 ... 80 °C
Note about the 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.
Max. output torque	18,000 Nm
Product weight	259 ... 856 g
Shaft connection	V72
Pneumatic connection	G1/2 G1
Materials note	Conforms to RoHS
Material of end caps	Steel
Material stop screw	Steel
Material bushing	Bronze PTFE
Material seals	NBR TPE-U(PU)
Material spring	Spring steel
Material spring rod	Hard-chrome-plated steel
Material housing	Steel
Material piston	Steel
Material piston rod	Hard-chrome-plated steel
Material tie rod	Steel
Material cylinder barrel	Steel, nickel-plated