

# Quarter turn actuator DFPD-HD-9000-

Part number: 8042201

**FESTO**



## Data sheet

Feature	Value
Size of valve actuator	9000
Flange hole pattern	F25
Piston diameter	235 mm 280 mm 335 mm 385 mm 435 mm
Swivel angle	90 deg
End-position adjusting range at 0°	-5 deg...5 deg
End-position adjusting range at nominal swivel angle	-5 deg...5 deg
Depth shaft connection	160 mm
Standard connection for valve	ISO 5211
Cushioning	No cushioning
Mounting position	Any Horizontal
Mode of operation	Double-acting Single-acting
Structural design	Scotch yoke system
Position sensing	Optical
Closing direction	Clockwise closing Closes to the left
Certified for safety function to ISO 13849 and IEC 61508 (SIL)	Product can be used in safety-related parts of control systems up to SIL 2, low demand
Operating pressure	0.1 MPa...0.85 MPa 1 bar...8.5 bar 14.5 psi...123.25 psi
Nominal operating pressure	0.3 MPa...0.6 MPa 3 bar...6 bar 43.5 psi...87 psi
CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)
UKCA marking (see declaration of conformity)	acc. to UK EX instructions
Explosion prevention and protection	Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)
Certificate issuing authority	German Technical Control Board North (TÜV Nord) 212170802

Feature	Value
ATEX category gas	II 2G
ATEX category for dust	II 2D
Type of ignition protection for gas	Ex h IIB T6...T4 Gb X
Type of (ignition) protection for dust	Ex h IIC T85°C...T105°C Db X
Explosive ambient temperature	-20°C ≤ Ta ≤ +80°C
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Dew point min. 10 °C below the ambient temperature and temperature of medium Operation with oil lubrication possible (required for further use)
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection	IP66M IP67M
Ambient temperature	-20 °C...80 °C
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.
Max. output torque	9000 Nm
Product weight	162 g...580 g
Shaft connection	V60
Pneumatic connection	G1/2 G1
Note on materials	RoHS-compliant
Material of end caps	Steel
Stop screw material	Steel
Bushing material	Bronze PTFE
Seals material	NBR TPE-U(PU)
Material of spring	Spring steel
Spring rod material	Steel, hard-chrome-plated
Housing material	Steel
Material of piston	Steel
Piston rod material	Steel, hard-chrome-plated
Tie rod material	Steel
Material of cylinder barrel	Steel, nickel-plated