semi-rotary drive DFPD-700-Part number: 8042193

rack and pinion design, connection pattern to NAMUR VDI/VDE 3845 for mounting solenoid valves, position sensors and positioners, standard connection to process valve fitting ISO 5211.



Data sheet

Overall data sheet - Individual values depend upon your configuration.

Size of actuator 700 Flange hole pattern F12 Finde hole pattern F1012 Swivel angle 90 180 deg End-position adjustment range at 0° -5 5 deg End-position adjusting range at nominal swivel angle -5 5 deg Shaft connection depth 29 mm Fitting connection conforms to standard ISO 5211 Assembly position Any Mode of operation double-acting single-acting single-acting Design structure Rack and pinion Closes to the left VDI/VDE 3845 (NAMUR) Connection conforms to standard VDI/VDE 3845 size AA 2 Operating pressure 2 & bar Nominal operating pressure 2 & bar Maritime classification see certificate CE mark (see declaration of conformity) to EU directive explosion protection (ATEX) UKCA marking (see declaration of conformity) To UK EX instructions Explosion protection trype Gas II 20 Certificate issuing department DNV TAP00001CE German Technical Control Board (TÜV) Rheinland 968/V 11 ATEX category Dust II 20 Explosion ignition protection type Gas Ex h IIC T3 Gb X Explosion ignition protection type Dust Ex h IIC T4 Gb X <th></th>	
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Explosion-proof ambient temperature -20°C <= Ta <= +80°C	
-50°C <= Ta <= +60°C	
0°C <= Ta <= +150°C	
Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4	:4:4]
Note on operating and pilot medium Pressure dew point 10°C below ambient temperature/temp	
medium	
Lubricated operation possible (subsequently required for f operation)	for further

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Feature	Value
Corrosion resistance classification CRC	1 - Low corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
	VDMA24364 zone III
Storage temperature	-20 60 °C
Ambient temperature	-50 150 °C
Torque at rated operating pressure and 0° rotation angle	162.4 663.3 Nm
Torque at nominal operating pressure with 90° swivel angle	97.5 663.3 Nm
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.
Spring return torque with 0° swivel angle	78.8 258.1 Nm
Spring return torque at 90°	143.7 470.7 Nm
Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0°	24.5 58.8 l
Product weight	22,464 26,308 g
Shaft connection	T27
Pneumatic connection	G1/4
	1/4 NPT
Materials note	Conforms to RoHS
Material of connecting plate	Anodised wrought aluminium alloy
Material cover	Die-cast aluminium, coated
Material seals	FPM
	FVMQ
	NBR
Material spring	Spring steel
Material housing	Anodised wrought aluminium alloy
Material piston	Aluminium die cast
Material bearing	POM
	PPS-reinforced
Material cam	Steel
	High alloy steel, non-corrosive
Material screws	High alloy steel, non-corrosive
Material shaft	Steel, nickel-plated
	High alloy steel, non-corrosive