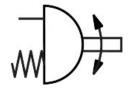
Semi-rotary drive DFPD-20-RP-90-RS60-F03-R3-EP Part number: 8047647

FESTO





Data sheet

Feature	Value
Size of valve actuator	20
Flange hole pattern	F03
Swivel angle	90 deg
End-position adjustment range at 0°	-5 deg5 deg
End-position adjustment range at nominal swivel angle	-5 deg5 deg
Shaft connection depth	10 mm
Fitting connection conforms to standard	ISO 5211
Mounting position	optional
Mode of operation	Single-acting
Design	Rack and pinion
Closing direction	Closes to the right
Valve connection conforms to standard	VDI/VDE 3845 (NAMUR)
Connection point for positioner and position sensor conforms to standard	VDI/VDE 3845 size AA 1
Device type according to VDMA 66413	Safety device
Safety function	The safety function consists of the drive switching to the defined safety switching position when the compressed air is switched off and the spring chamber is exhausted. This switching movement is realised by the spring force of the spring assembly.
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 MPa0.8 MPa 2 bar8 bar 29 psi116 psi
Nominal operating pressure	0.6 MPa 6 bar 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

Value
EPL Db (GB) EPL Gb (GB)
Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)
DNV TAP00001CE German Technical Control Board (TÜV) Rheinland 968/V 1106.01/2023
II 2G
II 2D
Ex h IIC T4 Gb X
Ex h IIIC T105°C Db X
-20 °C <= Ta <= +80 °C
Compressed air to ISO 8573-1:2010 [7:4:4]
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)
VDMA24364-B1/B2-L
-20 °C60 °C
-20 °C80 °C
14.7 Nm
7.6 Nm
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.
7.2 Nm
14.3 Nm
1126 years
1.01E-07
0.00078
0.8 l
1419 g
Т9
G1/8
RoHS-compliant
Die-cast aluminium, coated
Die-cast aluminium, coated
NBR
Spring steel
Die-cast aluminium, coated
Die-cast aluminium
POM
High-alloy stainless steel
High-alloy stainless steel
1