

Data sheet

Feature	Value
Size of valve actuator	700
Flange hole pattern	F12
Swivel angle	90 deg
End-position adjusting range at 0°	-5 deg5 deg
End-position adjusting range at nominal swivel angle	-5 deg5 deg
Depth shaft connection	29 mm
Standard connection for valve	ISO 5211
Mounting position	Any
Mode of operation	Single-acting
Structural design	Gear rack/pinion
Closing direction	Clockwise closing
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
Devices 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 achieved by the spring force of the spring assembly.
Safety integrity level (SIL)	Up 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 safety-related parts of control systems up to SIL 2, low demand Product can be used in safety-related parts of control systems up to SIL 1, high demand up to SIL 3 in a redundant architecture
Operating pressure	0.2 MPa0.8 MPa 2 bar8 bar 29 psi116 psi
Nominal operating pressure	0.45 MPa 4.5 bar 65.25 psi
Maritime classification	See certificate
CE marking (see declaration of conformity)	as per EU explosion protection directive (ATEX)

Quarter turn actuator DFPD-700-RP-90-RS45-F12-R3-C-VDE2 Part number: 8102886

FESTO

acc. to UK EX instructions PL Db (GB) PL Gb (GB) Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 21 (UKEX) Zone 22 (ATEX) DNV TAP00001CE German Technical Control Board (TÜV) Rheinland 968/V 1106.01/2023 I 2G I 2D Ex h IIC T4 Gb X Ex h IIC T105°C Db X 20°C <= Ta <= +80°C Compressed air as per ISO 8573-1:2010 [7:4:4] Dew point min. 10 °C below the ambient temperature and temperature of medium Dperation with oil lubrication possible (required for further use) I - Low corrosion stress /DMA24364-B1/B2-L 20 °C60 °C
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20 °C60 °C
20 °C80 °C
355.3 Nm
200.8 Nm
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 lange and the coupling.
187.4 Nm
341.9 Nm
126 years
0.00000101
0.00078
24.51
25342 g
27
51/4
RoHS-compliant
Wrought aluminum alloy, anodized
Die-cast aluminum, coated
NBR
Spring steel
Wrought aluminum alloy, anodized
Die-cast aluminum
POM
Steel
ligh-alloy stainless steel
ligh-alloy stainless steel