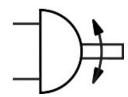
Semi-rotary drive DFPD-2300-RP-90-RD-F1216 Part number: 8065273





Data sheet

| Feature | Value |
|--|--|
| Size of valve actuator | 2300 |
| Flange hole pattern | F1216 |
| 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 | 48 mm |
| Fitting connection conforms to standard | ISO 5211 |
| Mounting position | optional |
| Mode of operation | Double-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 3 |
| Device type according to VDMA 66413 | Safety device |
| Safety function | The safety function consists of the drive switching to the defined safety switching position. This switching movement is realised by pressurising the relevant pressure chamber with compressed air. The value of the torque generated depends on the pressure difference between the two pressure chambers separated by the piston. |
| 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 | 0.55 MPa 5.5 bar 79.75 psi |
| Maritime classification | See certificate |
| CE mark (see declaration of conformity) | To EU Explosion Protection Directive (ATEX) |

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| Feature | Value |
|---|--|
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| Explosion protection certification outside the EU | EPL Db (GB) EPL Gb (GB) |
| Explosion protection | Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX) |
| Certificate issuing authority | DNV TAP00001CE German Technical Control Board (TÜV) Rheinland 968/V 1106.01/2023 |
| ATEX category gas | II 2G |
| ATEX category dust | II 2D |
| Explosion ignition protection type for gas | Ex h IIC T4 Gb X |
| Explosion ignition protection type for dust | Ex h IIIC T105°C Db X |
| Explosion ambient temperature | -20 °C <= Ta <= +80 °C |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | 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) |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Storage temperature | -20 ℃60 ℃ |
| Ambient temperature | -20 °C80 ℃ |
| Torque at nominal operating pressure and 0° swivel angle | 2233.3 Nm |
| Torque at nominal operating pressure and 90° swivel angle | 2233.3 Nm |
| Note on 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. |
| Mean time to dangerous failure (MTTFd) | 1126 years |
| Probability of Failure per Hour (PFH) | 1.01E-07 |
| Probability of Failure on Demand (PFD) | 0.00142 |
| Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0° | 204 l |
| Product weight | 64900 g |
| Shaft connection | T46 |
| Pneumatic connection | G1/4 |
| Note on materials | RoHS-compliant |
| Material sub-base | Anodised wrought aluminium alloy |
| Material cover | Die-cast aluminium, coated |
| Material seals | NBR |
| Material housing | Anodised wrought aluminium alloy |
| Material piston | Die-cast aluminium |
| Material bearing | РОМ |
| Material cam | Steel |
| Material screws | High-alloy stainless steel |
| Material shaft | Nickel-plated steel |