

# Zakretni pogon

## DFPD-160-RP-90-RD-F0710-R3-EP

Broj artikla: 8048129

FESTO

double-acting, 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, epoxy coating, stainless steel shaft.



### Tehnički podaci

| Svojstvo   | Vrednost   |
|--|--|
| Veličina aktuatora   | 160  |
| Šablon bušenja prirubnice  | F0710  |
| Ugao zakretanja  | 90 deg   |
| Podešavanje krajnjeg položaja kod 0°                                   | -5 ... 5 deg   |
| End-position adjusting range at nominal swivel angle                   | -5 ... 5 deg   |
| Priključak vratila, dubina   | 24 mm  |
| Armaturni priključak odgovara normi                                    | ISO 5211   |
| Položaj ugradnje   | proizvoljno  |
| Način funkcionisanja   | dvosmerno  |
| Konstruktivna struktura  | Zupčasta letva / mali zupčanik   |
| Smer zatvaranja  | sa desnim zatvaranjem  |
| Ventilski priključak odgovara normi                                    | VDI/VDE 3845 (NAMUR)   |
| Connection for positioner and position sensor conforms to standard     | VDI/VDE 3845 size AA 1   |
| Component suitable for safety functions                                | Safety device  |
| Sigurnosna funkcija  | The safety function consists of the actuator switching to the specified safety switching position.<br>This switching movement is achieved by pressurising the corresponding pressure chamber with compressed air.<br>The value of the torque generated depends on the differential pressure between the two pressure chambers separated by the piston. |
| Safety Integrity Level (SIL)   | Proizvod se može primeniti u SRP/CS do SIL 2 niska potreba<br>Up to SIL 3 in redundant architecture<br>up to SIL 1 high demand mode  |
| Sertifikovano za sigurnosnu funkciju prema ISO 13849 i IEC 61508 (SIL) | Proizvod se može primeniti u SRP/CS do SIL 2 niska potreba<br>up to SIL 1 high demand mode<br>Up to SIL 3 in redundant architecture  |
| Operating pressure MPa   | 0,2 ... 0,8 MPa  |
| Pogonski pritisak  | 2 ... 8 bar  |
| Operating pressure   | 29 ... 116 psi   |
| Nominal operating pressure   | 0,55 MPa   |
| Nazivni pogonski pritisak  | 5,5 bar  |
| Nominal operating pressure (psi)                                       | 79,75 psi  |
| Maritime classification  | see certificate  |
| CE znak (vidi izjavu o usklađenosti)                                   | prema EU-Ex-zaštita-smernica (ATEX)  |
| UKCA marking (see declaration of conformity)                           | To UK EX instructions  |
| Odobrenje Eksplozivne zaštite izvan EU                                 | EPL Db (GB)<br>EPL Gb (GB)   |
| Mesto izdavanja sertifikata  | DNV TAP00001CE<br>German Technical Control Board (TÜV) Rheinland 968/V 1106.01/2023  |
| ATEX kategorija gasa   | II 2G  |
| ATEX kategorija prašine  | II 2D  |
| Ex vrsta zaštite od zapaljivanja - gas                                 | Ex h IIC T4 Gb X   |

| Svojstvo  | Vrednost   |
|---|--|
| Ex vrsta zaštite od zapaljivanja - prašina                                      | Ex h IIIC T105°C Db X  |
| Ex temperatura okoline  | -20°C ≤ Ta ≤ +80°C   |
| Pogonski medijum  | Kompresovani vazduh prema ISO 8573-1:2010 [7:4:4]  |
| Napomena o mediju pogona i upravljanja  | Tačka rose 10°C ispod temperature okoline, odnosno medija<br>Nauljeni pogon je moguć (u daljnjem pogonu potreban)  |
| Klasa korozione otpornosti KBK  | 1 - Low corrosion stress   |
| PWIS conformity   | VDMA24364-B1/B2-L  |
| Temperatura ležaja  | -20 ... 60 °C  |
| Temperatura okoline   | -20 ... 80 °C  |
| Obrtni moment kod nazivnog pogonskog pritiska i 0° zakretnog ugla               | 161 Nm   |
| Obrtni moment kod nazivnog pogonskog pritiska i sa uglom zakretanja 90°         | 161 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. |
| Mean Time to Dangerous Failure (MTTFd)  | 1126 years   |
| Verovatnost grešaka po satu u [1/h].  | 1,01E-07   |
| PFD (Verovatnost greške na zahtev)  | 1,42E-03   |
| Air consumption at 0.6 MPa (6 bar, 87 psi) per cycle 0°-nominal swivel angle-0° | 14 l   |
| Težina proizvoda  | 6.082 g  |
| Priključak vratila  | T22  |
| Pneumatski priključak   | G1/4   |
| Materijal - napomena  | RoHS komformnost   |
| Material of connecting plate  | Anodised wrought aluminium alloy   |
| Material cover  | Die-cast aluminium, coated   |
| Material seals  | NBR  |
| Material housing  | Anodised wrought aluminium alloy   |
| Material piston   | Aluminijumski odlivak  |
| Material bearing  | POM  |
| Material cam  | visokolegirani čelik, nerđajući  |
| Material screws   | visokolegirani čelik, nerđajući  |
| Material shaft  | visokolegirani čelik, nerđajući  |