

# Zakretni pogon

## DFPD-N-20-RP-90-RD-F04-R3-EP

Broj artikla: 8066408

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, NPT control air connection thread type, epoxy coating, stainless steel shaft.



### Tehnički podaci

Svojstvo	Vrednost
Veličina aktuatora	20
Šablon bušenja prirubnice	F04
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	12 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. This switching movement is achieved by pressurising the corresponding pressure chamber with compressed air. 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 Up to SIL 3 in redundant architecture 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 up to SIL 1 high demand mode 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) EPL Gb (GB)
Mesto izdavanja sertifikata	DNV TAP00001CE 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 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	20,1 Nm
Obrtni moment kod nazivnog pogonskog pritiska i sa uglom zakretanja 90°	20,1 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°	1,8 l
Težina proizvoda	1.275 g
Priključak vratila	T11
Pneumatski priključak	1/8 NPT
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