guided drive
DFM-20-50-P-A-KF
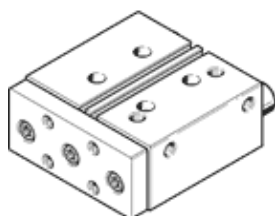
Part number: 170919

★ Core product range

With integrated guide.
The proximity switch, type SMTSO-8E, can be used with this product with stroke lengths equal to or greater than 50 mm. The corresponding mounting kit, type SMB-8E, is mounted inwardly or outwardly.

FESTO

Data sheet

Feature	Value
Centre of gravity distance from working load to yoke plate	50 mm
Stroke	50 mm
Piston diameter	20 mm
Operating mode of drive unit	Yoke
Cushioning	P: Flexible cushioning rings/plates at both ends
Assembly position	Any
Guide	Recirculating ball bearing guide
Design structure	Guide
Position detection	For proximity sensor
Operating pressure MPa	0.2 ... 1 MPa
Operating pressure	2 ... 10 bar
Max. speed	0.8 m/s
Mode of operation	double-acting
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Corrosion resistance classification CRC	0 - No corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
Ambient temperature	-5 ... 60 °C
Impact energy in end positions	0.2 Nm
Max. force Fy	817 N
Max. force Fy static	1,020 N
Max. force Fz	817 N
Max. force Fz static	1,020 N
Max. torque Mx	23.69 Nm
Max. torque Mx static	29.58 Nm
Max. torque My	15.11 Nm
Max. torque My static	18.87 Nm
Max. torque Mz	15.11 Nm
Max. torque Mz static	18.87 Nm
Max. permissible torque load Mx as a function of the stroke	4.23 Nm
Max. useful load as a function of the stroke at defined distance xs	102 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	141 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	188 N
Moving mass	512 g
Product weight	1,064 g
Centre of gravity of the moving mass as a function of the stroke	38.5 mm
alternative connections	See product drawing
Pneumatic connection	M5
Materials note	Conforms to RoHS
Material cover	Wrought Aluminium alloy
Material seals	NBR
Material housing	Wrought Aluminium alloy
Material piston rod	High alloy steel, non-corrosive