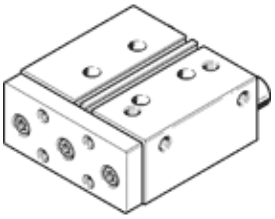
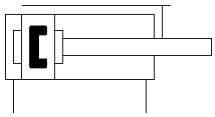
guided drive
DFM-16-100-P-A-KF

Part number: 170914
★ 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.





Data sheet

Feature	Value
Centre of gravity distance from working load to yoke plate	50 mm
Stroke	100 mm
Piston diameter	16 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	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
Ambient temperature	-5 ... 60 °C
Impact energy in end positions	0.15 Nm
Max. force Fy	778 N
Max. force Fy static	830 N
Max. force Fz	778 N
Max. force Fz static	830 N
Max. torque Mx	17.9 Nm
Max. torque Mx static	19.09 Nm
Max. torque My	10.5 Nm
Max. torque My static	11.2 Nm
Max. torque Mz	10.5 Nm
Max. torque Mz static	11.2 Nm
Max. permissible torque load Mx as a function of the stroke	1.77 Nm
Max. useful load as a function of the stroke at defined distance xs	58 N
Theoretical force at 6 bar, return stroke	90 N
Theoretical force at 6 bar, advance stroke	121 N
Moving mass	392 g
Product weight	982 g
Centre of gravity of the moving mass as a function of the stroke	56.5 mm
alternative connections	See product drawing
Pneumatic connection	M5
Materials note	Free of copper and PTFE Conforms to RoHS
Material cover	Wrought Aluminium alloy
Material seals	NBR
Material housing	Wrought Aluminium alloy
Material piston rod	High alloy steel, non-corrosive