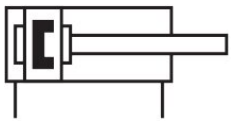
Linear actuator
DFPC-80-50-D

Part number: 8110815





Data sheet

Feature	Value
Size of valve actuator	80
Flange hole pattern	F07
Stroke	50 mm
Piston diameter	80 mm
Standard connection for valve	ISO 5210
Cushioning	Elastic cushioning rings/pads at both ends
Mounting position	Any
Mode of operation	Double-acting
Structural design	Piston Piston rod Tie rod 1 Cylinder barrel
Position sensing	Via proximity switch
Operating pressure	0.2 MPa...0.8 MPa 2 bar...8 bar 29 psi...116 psi
Nominal operating pressure	0.6 MPa 6 bar 87 psi
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Ambient temperature	-20 °C...80 °C
Impact energy in the end positions	1.4 J
Theoretical force at 6 bar, retracting	2827 N
Theoretical force at 6 bar, advancing	3016 N
Air consumption, retracting, per 10 mm stroke	0.33 l
Air consumption advancing per 10 mm stroke	0.352 l
Moving mass at 0 mm stroke	451 g
Additional moving mass per 10 mm stroke	24.8 g

Feature	Value
Product weight	1540 g
Basic weight with 0 mm stroke	1230.3 g
Additional weight per 10 mm stroke	61.8 g
Type of mounting	Alternatively: on flange according to ISO 5210 With spacer bolt
Pneumatic connection	G1/8
Note on materials	RoHS compliant
Cover material	Gravity die-cast aluminum
Piston rod material	high-alloy stainless steel
Piston rod wiper material	TPE-U(PU)
Nut material	high-alloy stainless steel
Static seal material	NBR
Tie rod material	high-alloy stainless steel
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized