

Linear actuator with integrated potentiometric positioner DFPI-...-E-

General technical data

Mode of operation	Double-acting
Type of mounting	Mounting interface for direct mounting on process valve acc. DIN 3358
Positioner	Integrated potentiometric position sensor
Piston diameter [mm]	100 ... 320
Stroke [mm]	X-stroke 40 ... 990
Connection	Sturdy flange socket for the protection of pneumatic and electric connections.

General electrical characteristic data

Operating voltage range potentiometer [V DC]	0...15
Resistance value potentiometer	Max 20 kOhm (dependent on the stroke length of actuator)

Operating and environmental conditions

Operating pressure [bar]	3 ... 8
Nominal operating pressure [bar]	6
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Ambient temperature [°C]	-20...60
Degree of protection	IP65, IP67, IP69K, NEMA 4
Corrosion resistance class	3
ATEX category	II 2GD

Material data

Piston rod	High-alloy stainless steel
Cylinder barrel	Ø 100...200 Anodised wrought aluminium alloy Ø 250, 320 High-alloy stainless steel
Bearing cap	Anodised wrought aluminium alloy or die-cast aluminium, coated
End cap	Anodised wrought aluminium alloy or die-cast aluminium, coated
Tie rod	High-alloy stainless steel
Screws/Nuts	High-alloy stainless steel or coated steel
Piston rod wiper seal	Ø100 TPE-U (PU) Ø 125 ... 320 NBR
Note on materials	RoHS-compliant

DFPI-NB3 specific accessory parts

Pre-assembled connection cable	NHSB-...-LE3-
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Accessory parts in standard or corrosion-resistant version

Piston rod attachments and couplings	SGS, SGA, SG, CRSGS, CRSG, FK, CRSGS, CRSG, CRFK
Proximity sensor for T-slot	CRSMT-8-..., CRSMT-8M-..., SMT-8M-A...EX2, SDBT-MS...EX6