

Linear actuator with integrated digital positioner DFPI-... -C1V-

General technical data

Mode of operation	Double-acting
Type of mounting	Mounting interface for direct mounting on process valve acc. DIN 3358
Positioner	integrated digital positioner (3-wire)
Piston diameter [mm]	100 ... 320
Stroke [mm]	X-stroke 40 ... 990
Connection	Sturdy flange socket for the protection of pneumatic and electric connections.
Safety function	Piston rod advancing in the case of setpoint or operating voltage failure
Initialisation	Automatic selfadjustment function triggered via digital input

General electrical characteristic data

Operating voltage range [V DC]	24 V ±10%
Nominal operating voltage [V DC]	24
Setpoint input [mA]	4 ... 20
Position feedback [mA]	4 ... 20
Digital Input	Digital Input for initialisation UNenn = 24 V DC

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...50
Degree of protection	IP65, IP67, IP69K, NEMA 4
Corrosion resistance class	3
ATEX category	II 3GD

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-...-LE5-
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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