

# Linear actuator DFPI

FESTO



## Integrated, sturdy, flexible!

### Highlights

- Integrated positioner or integrated displacement encoder for external positioner
- ISO 15552 for flexible installation
- Easy to fit
- Swivel motion possible for expanded areas of application
- Sturdy and reliable
- IP65, IP67, IP69K

The new linear actuator DFPI is equipped for a wide range of applications thanks to ISO 15552, an optionally integrated positioner or an integrated displacement encoder, and an optimised guide rod for swivel motions. It is suitable for regulating air dampers, processing bulk materials as well as for regulating flow and fill levels.

### Flexible installation

The standardised mounting interface with comprehensive accessories to ISO 15552 means it is easy to install in a wide variety of situations. The sturdy collar nuts make it possible to mount process valves using stud bolts. The optimised piston rod guide enables swivel motions, which are necessary for regulating ventilation flaps, for example. The DFPI easily absorbs the transverse forces on the piston rod.

### Sturdy and reliable in use

Its compact design, high IP and corrosion protection, and not least the integration of the positioner or displacement encoder make the DFPI sturdy and reliable, even in places that were previously inaccessible. All in all, the DFPI is a compact unit that is quick and easy to install.

# Linear actuator DFPI

## New generation DFPI for additional areas of application

The adjustable standards-based linear actuators DFPI-NB3P to ISO 15552 are available in two versions: the DFPI-...-E-... with a potentiometric displacement encoder which supplies an analogue voltage signal (proportional to the piston position) for an external positioner. And the DFPI-...-C1V-... with fully integrated positioner. The DFPI-...-C1V-... has a factory-set safety position in case the operating voltage or analogue setpoint fails. The position specification and feedback is provided by an analogue setpoint signal 4 ... 20 mA, while the

travel speed is regulated by the integrated flow control screws. Its new piston rod guide also permits transverse forces so that the DFPI is capable of swivel motions which are needed for regulating air dampers, for example. The DFPI is also suitable for movement of linear-actuated process valves, such as knife gate valves, pinch valves or proportional slides.

Technical data	
Mode of operation	Double-acting
Design	Sturdy tie rod design
Measuring principle, position sensing	Integrated potentiometric displacement encoder
Piston diameter	100 ... 320
Stroke [mm]	X stroke 40 ... 990
Type of mounting	Mounting interface in accordance with ISO 15552
Electrical connection/pneumatic connection	<ul style="list-style-type: none"> <li>• M12 plug/G3/8 or</li> <li>• Cable fitting/G3/8 or</li> <li>• Pre-assembled connecting cable NHSB</li> </ul>
Air supply at the drive	External via stainless steel pipe External via plastic tube
Temperature range [°C]	-20...80 (DFPI-...-E-...) -5...50 (DFPI-...-C1V-...)
Degree of protection	IP65, IP67, IP69K
ATEX category	II 2GD (DFPI-...-E-...) II 3GD (DFPI-...-C1V-...)
Corrosion resistance class	3

## Wide range of accessories for a variety of applications

### Complete ISO 15552 accessories

- Piston rod attachments
- Swivel flange for end cap
- Flange and foot mountings
- Compensating elements
- Rod eyes, rod clevises
- Retainer for proximity switch
- Also available in corrosion resistant designs

### DFPI-NB3 specific accessories

- Adapter for ext. positioner DADG-AK-F6-A2
- Pre-assembled connecting cable NHSB-A1

**So you can master any installation situation!**

