

# Positioning Linear Drive DFPI

**FESTO**



## Linear Process Valves

### **DFPI - Modulating Drive for All Linear Actuated Process Valves**

Its all-in-one design and patented technology make it ideal for controlling knife gate valves and shut-off valves with varying strokes: integrated displacement encoder via lineary potentiometric displacement sensor, valve manifold, positioner and an extremely sturdy electrical connection.

### **Sturdy for the Roughest Environments**

A sturdy and compact housing, protection in IP65, IP67 and IP69k and high corrosion resistance KBK3: ideal properties for exterior use.

### **Quick Operation**

Thanks to self-initialization, commissioning is just as quick and easy as integration in an existing control architecture with a setpoint signal of 4 ... 20 mA.

### **Individual Operation**

Flow control functions, the back-and-forth movement speed of the piston rod, can be set separately or independently of each other; intermediate positions sensing is optional.

### **Versatile in Its Variants**

Bore diameters 100, 125, 160, 200, 250 and 320 mm and X stroke lengths up to 990 mm; special designs above 990 mm stroke on request.

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## Sturdy, Simple and Exact

- Linear drive with integrated positioner and displacement encoder
- All-in-one design and high IP protection make this product ideal for outdoor use.
- The drive can be used for positioning knife gate valves e.g. in sewage plants, the bulk goods industry and all other applications in which the media flow must be modulated.

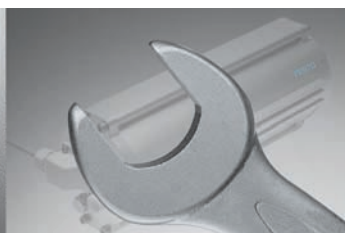
General Technical Data	
Piston diameter [mm]	100, 125, 160, 200, 250, 320
Pneumatic connection	G 1/4
Exhaust port	G 1/4
Constructional design	Double-acting piston cylinder
Fixed	None
Installation position	Any
Position sensing	Internal displacement encoder, external with proximity sensor

Operating and Environmental Conditions	
Operating pressure	6 bar /90 psi
Operating medium	Filtered compressed air, lubricated or unlubricated
Ambient temperature	Standard: -5 to +50°C /+23 to +122 °F
Storage temperature	-20 to +60°C /-4 to +140 °F
Safety setting	Piston rod extending or retracting
Operating voltage	24 V DC ±10 %
Setpoint value input	4 to 20 mA
Explosion protection	Per ATEX In accordance with EC directive 94/9/EC
Accuracy	±2 %
Protection class	IP65, IP67, IP69k
Electrical connection	Selectable via type code: Cable cover Flange receptacle in light or heavy design

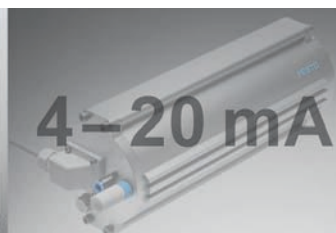
Materials	
Cylinder barrel	Anodized aluminum, from diameter 250 mm stainless steel
Cylinder cap	Anodized aluminum
Piston rod	Stainless steel
External screws	Stainless steel



Robust!



Simple!



Exact process control!

## Festo Corporation

For ordering assistance, or to find your nearest Festo Distributor,  
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