

Quarter turn actuator DFPD-C for the chemical industry

FESTO

Sturdy and
reliable!



Perfect for chemicals!

Highlights

- Specially developed for extremely high requirements
- Interface to standard VDI/VDE 3847
- Resistant materials
- Safely set the end position
- Easy maintenance
- No tubing required
- Hot-swap function

The quarter turn actuators DFPD-C and DFPD-C-VDE2 are equipped for the harsh conditions in the chemical industry and set a new benchmark thanks to their excellent features. These include a NAMUR interface to VDI/VDE 3847, hard-anodised end caps, blow-out-proof adjusting screws for the end position, shaft centring ring and captive spring cartridges that are free of non-ferrous metals.

Save yourself the trouble of time-consuming and expensive tubing thanks to the extended NAMUR hole pattern in a block solution on the front of the actuator. Its design allows you to use the DFPD-C under almost all difficult conditions in the chemical industry.

Target applications

The DFPD-C is suitable for actuating butterfly valves, plug valves and ball valves in process plants in the chemical and petrochemical industry, and can also be used with a positioner for control applications.

Proven technology

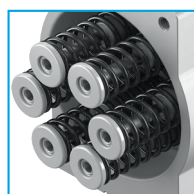
The compact and modular gear rack-and-pinion combination is easy to install even when space is at a premium. The range of variants for pilot valves and numerous compatible peripheral devices mean that it can be operated in a large variety of applications. Thanks to the spring design the pressure range can be optimally set for the task in hand. This allows pressures from 2 to 6 bar to be easily set in increments of 0.5 bar. The hot-swap function allows positioners and pilot valves to be changed during operation.

Quarter turn actuator DFPD-C for the chemical industry

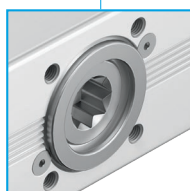
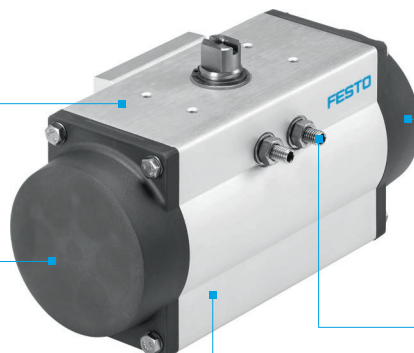
Essential features for the chemical industry



Optional with interface VDI/VDE 3847 for directly attaching adapter kit DADG-FM-F9-VDE2



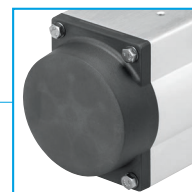
Non-ferrous metal free spring cartridges



Centring ring for a minimum offset mounting on a bridge



Blow-out-proof screws for safely setting the end position



Hard-anodised end cap



For a variety of applications: interface VDI/VDE 3847

The supply port on the quarter turn actuator DFPD-...-C-VDE2 is located on top and thus allows the adapter kit DADG-FM-F9-VDE2 to be mounted.

Thanks to the adapter kit, you can connect all types of pilot valves with NAMUR interfaces as well as positioners in accordance with VDI/VDE 3847 to the actuator without additional tubing. This simplifies maintenance and helps to avoid any potential leakages and possible installation errors.

| Technical data | | |
|---|---|-------------|
| Design | Rack/pinion | |
| Mode of operation | Double-acting or single-acting | |
| Torque (at operating pressure 6 bar) [Nm] | 10 ... 2,300 | |
| Size | 10, 20, 40, 80, 120, 160, 240, 300, 480, 700, 900, 1,200, 2,300 | |
| Operating pressure [bar] | ≤ 8 | |
| Combinations of spring cartridges for single-acting operation | 9 different sets of spring cartridges Combinations for operating pressure from 2 ... 6 bar (increments of 0.5 bar) | |
| Mounting position | Any | |
| Swivel angle [°] | 90 | |
| End-position adjustment range [°] | at 0 | -5 ... +5 |
| | at 90 | +85 ... +95 |
| Operating temperature [°C] | -20 ... +80 | |
| Type of ignition protection for gas | II 2G c T4 X | |
| Type of ignition protection for dust | II 2D c 125°C X | |
| Safety Integrity Level [SIL] | Suitable up to SIL 3 Low Demand mode | |

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