

Quarter turn actuator DFPD-C for the chemical industry

FESTO

Sturdy and
reliable!



Perfect for chemicals!

Highlights

- Specially developed for extremely high requirements
- Resistant materials
- Safely set the end position
- Easy maintenance
- With manifold block:
 - Interface to VDI/VDE 3847-2
 - No tubing required
 - Hot-swap function

The DFPD-C and DFPD-C-VDE2 are well equipped for the chemical industry. Both versions have 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. Furthermore the DFPD-C-VDE2 has a supply port on top for easy assembly of a manifold block with NAMUR interface to VDI/VDE 3847-2. With these options they will set a new benchmark for quarter turn actuators in the chemical sector.

The design features of the DFPD-C make it perfectly suitable for use in the harsh conditions often found in the chemical industry. Having the manifold block on top of the actuator provides access to the extended NAMUR port pattern and saves you the trouble of time-consuming and expensive tubing.

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

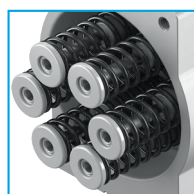
The compact and modular rack-and-pinion combination is easy to install even when space is at a premium. The range of variants for pilot valves and numerous compatible peripheral devices mean that it can be operated in a large variety of applications. Thanks to the spring design the pressure range can 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 of the manifold block allows positioners and pilot valves to be changed during operation.

Quarter turn actuator DFPD-C for the chemical industry

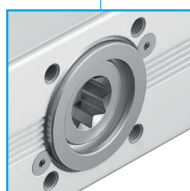
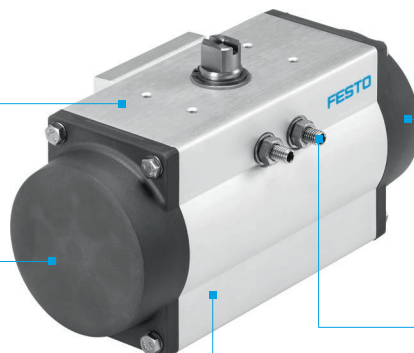
Essential features for the chemical industry



Only with DFPD-C-VDE2:
Supply port on top for manifold block with
NAMUR interface to VDI/VDE 3847-2



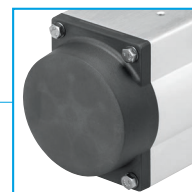
Non-ferrous metal free
spring cartridges



Centring ring for a minimum
offset mounting on a bridge



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



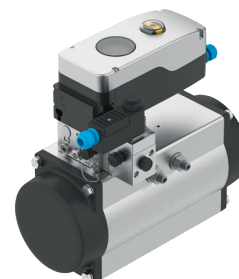
Hard-anodised
end cap



For a variety of applications: interface VDI/VDE 3847-2

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 3847-2 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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