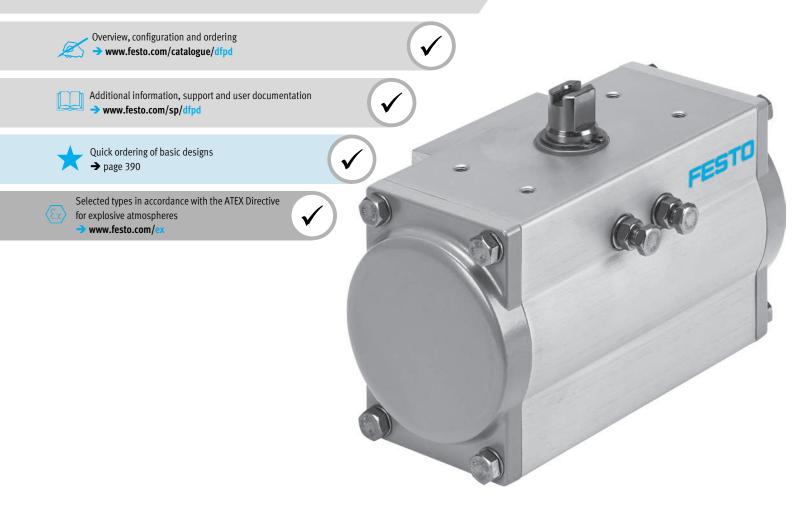
Quarter turn actuators





- + Flange hole pattern to ISO 5211
- NAMUR connection pattern for solenoid valves/sensor boxes to VDI/VDE 3845
- + With rack and pinion unit

- + Size 10 ... 2300
- + Torque 10 ... 2300 Nm
- + Swivel angle 0 ... 90°, 0 ... 180°

DFPD-...-S

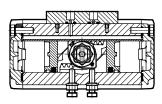
Quarter turn actuators DFPD

Key features

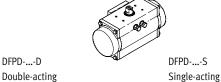
Function

The DFPD series features a rack and pinion combination with a constant torque characteristic across the entire swivel range. Sizes 10 to 2300 are available. The DFPD is suitable for the automation of butterfly valves, ball valves and air

dampers. It is also suitable for water/wastewater, beverage, pharmaceutical and process automation. The modular and compact design of the DFPD allows various spring configurations as a suitable solution for different applications.







Types of connection

· Port pattern to NAMUR VDI/VDE 3845 for mounting solenoid valves, position sensors and positioners

• Standards-base connection to ISO 5211

Variants

High temperature DFPD-...-T4

- Seals made of FKM and plain bearings made of PPS
- For applications up to +150 °C
- II 2G c T3 X II 2D c 175°C X 0 °C <= Ta <= +150 °C

Low temperature DFPD-...-T6

- Seals made of FVMQ for applications down to -50 °C
- II 2G c T6 X II 2D c 85°C X -50 °C <= Ta <= +60 °C

Closes to the left and right DFPD-...-R/L

• The modular system offers the option of closing to the left. This is done by turning the pistons

Spring configuration DFPD-...-S

• The spring force can be adapted to the system's supply pressure in steps of 0.5 bar through free selection of the number of spring cartridges (4 to 12)

Epoxy coating DFPD-...-EP

· Actuator with epoxy coating

Stainless steel shaft DFPD-...-R3

With stainless steel shaft

NPT version DFPD-...-N

 Pneumatic connections with NPT threads

180° version DFPD-...-180

Part No.

• Sizes 40, 120, 240, 480 doubleacting also available with 180° swivel angle

Type code

Ordering data - Product options



Configurable product This product and all its product options can be ordered using the configurator.

The configurator can be found at

www.festo.com/catalogue/...

8042184 DFPD-10 8042185 DFPD-20 8042186 DFPD-40 8042187 DFPD-80 8042188 DFPD-120 8042189 DFPD-160 8042190 DFPD-240 8042191 DFPD-300 8042192 DFPD-480 8042193 DFPD-700 8042194 DFPD-900 8042195 DFPD-1200 8042196 DFPD-2300

Key features

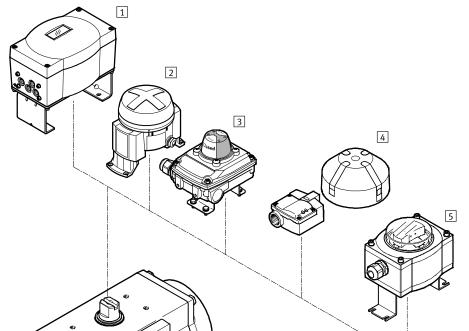
Size	Flange pattern	Shaft connection	Shaft connection depth [mm]	Pneumatic connection
10	F03	V9	10.7	G 1/8
	F04			1/8 NPT
20	F03	V9	10.7	G 1/8
	F04	V11	13.2	1/8 NPT
	F05			
40	F04	V11	13.2	G 1/8
	F05F07	V14	16.5	1/8 NPT
80	F05F07	V17	19.3	G 1/8
				1/8 NPT
120	F05F07	V17	19.3	G 1/4
				1/4 NPT
160	F07F10	V22	24.3	G 1/4
				1/4 NPT
240	F07F10	V22	24.3	G 1/4
				1/4 NPT
300	F07F10	V22	24.3	G 1/4
				1/4 NPT
480	F10F12	V27	29.5	G 1/4
				1/4 NPT
700	F10F12	V27	29.7	G 1/4
				1/4 NPT
900	F10F12	V27	30.2	G 1/4
	F14	V36	40.2	1/4 NPT
1200	F10F12	V27	31	G 1/4
	F14	V36	40	1/4 NPT
2300	F12F16	V46	50	G 1/4
	F14	V36	40	1/4 NPT

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Quarter turn actuators

Peripherals overview

Quarter turn actuators DFPD







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Peripherals overview

Mounting components and accessories						
		Description	→ Page/Internet			
1	Positioner	For controlling the position of quarter turn actuators in process automation systems	289			
	CMSX					
2	Limit switch attachment	Round design, variant AR, electrical, inductive or inductive and explosion-proof sensing	279			
	DAPZ					
3	Sensor box	For electrical position feedback and monitoring the position of process valves actuated using	217			
	SRBC	quarter turn actuators				
4	Sensor box	For electrical position feedback and monitoring the position of process valves actuated using	235			
	SRBG	quarter turn actuators				
5	Sensor box	Analogue sensor box continuously senses the entire swivel range and reports this back to the	269			
	SRAP	controller				
6	Ball valve	2-way brass or stainless steel, corrosion-resistant; 3-way stainless steel, corrosion-resistant	542, 495			
	VAPB, VZBA					
7	Solenoid valve	For single- and double-acting quarter turn actuators with a port pattern to VDI/VDE 3845	23			
	VSNC					
8	Solenoid valve	Solenoid valve with solenoid coil, port pattern to Namur	85			
	VOFC					
9	Solenoid valve	Solenoid valve with solenoid coil, port pattern to Namur	151			
	VOFD					

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Quarter turn actuators DFPD

Type codes

