

Sizes: S160, S320

**Version:**

- Diaphragm actuator

**Travel:**

- 29 to 54 mm

**Opening angle:**

- 75°

**Spring position:**

- Centrally arranged spring

**Diaphragm area:**

- 160 to 320 cm<sup>2</sup>

**Spring torques:**

- 43 to 165 Nm

**Supply air range:**

- 3 to 6 bar

**Ambient temperature range:**

- -40 to 80 °C or -40 to 176 °F

**Mounting of accessories:**

- VDI/VDE 3845

**Principle of operation:**

The Type S Actuator is equipped with a diaphragm and one or more centrally arranged return springs on the inside. The freely supported piston rod is directly connected to the lever for the valve shaft. Its design allows the actuator to be used with different opening angles. The actuator can be equipped with additional manual gears as well as end stops.



Fig. 1: Type S Actuator

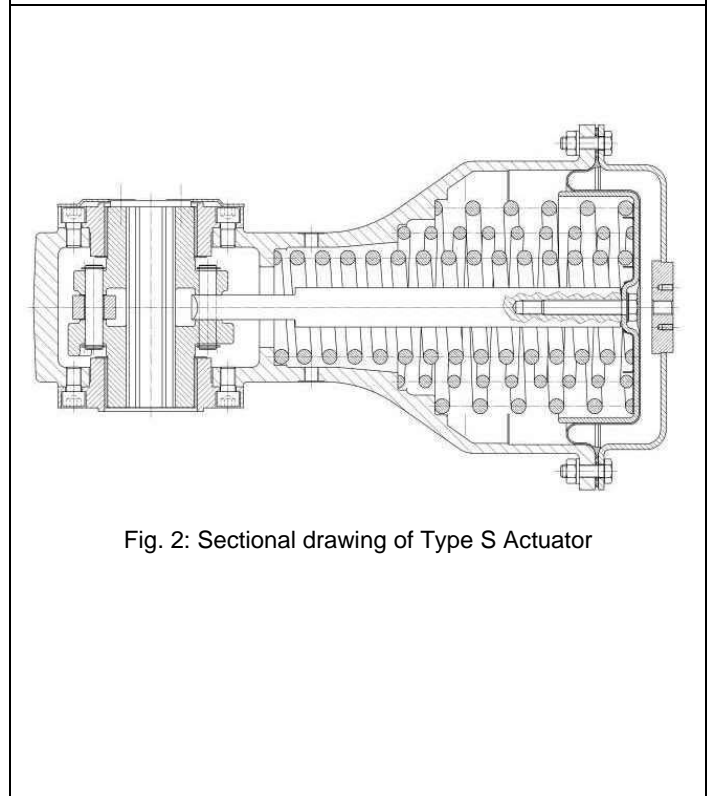


Fig. 2: Sectional drawing of Type S Actuator

Table 1: Technical data



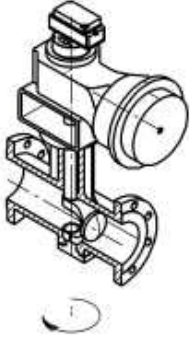
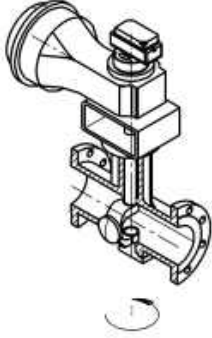
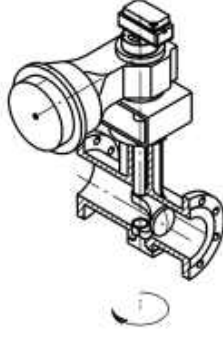
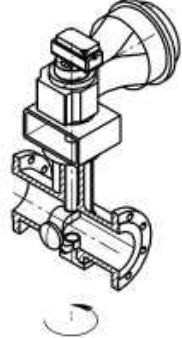
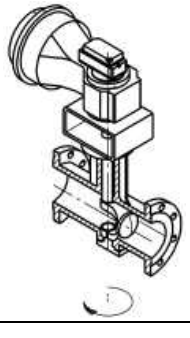
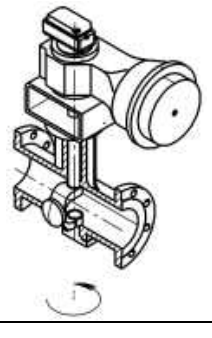
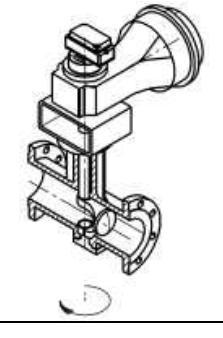
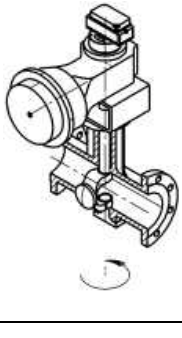
Type	S160		S320	
Version	Diaphragm		Diaphragm	
Spring position	Centrally arranged spring		Centrally arranged spring	
Opening angles (°)	75		75	
Travel (mm)	29		54	
Diaphragm area (cm <sup>2</sup> )	160		320	
Spring range / Spring closing	Springs 2+3	0.9 to 1.8	Springs 1+2+3 1.6 to 3.4	
	Springs 1+3	1.2 to 2.3		
	Springs 1+2+3	1.7 to 3.4		
Spring range / Air closed	Springs 2+3	1,0 to 2,0	Springs 2+3	1,0 to 2,0
	Springs 1+3	1,4 to 2,6	Springs 1+3	1,3 to 2,5
	Springs 1+2+3	2,0 to 3,6	Springs 1+2+3	2,0 to 3,6
Temperature range (°C/°F)	-40 to +80 °C or -40 to 176 °F 3 to 6			
Supply air range (bar)	3 to 6			
Weight (w/o yoke) (kg)	19		51	
Manual gear				

Fig. 3: Attachment types

			
Attachment type A Fail-close	Attachment type A Fail-open	Attachment type B Fail-close	Attachment type B Fail-open
			
Attachment type C Fail-close	Attachment type C Fail-open	Attachment type D Fail-close	Attachment type D Fail-open