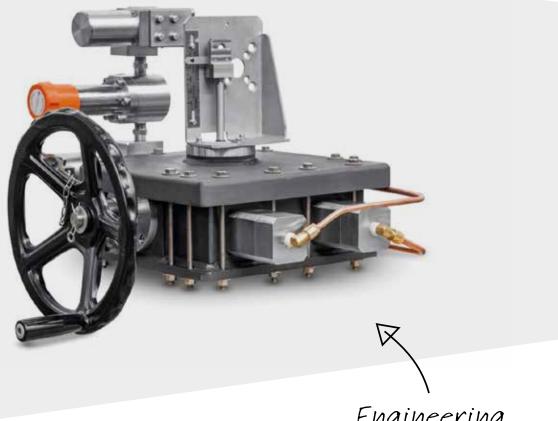


SM



Engineering GREAT Solutions

Stepper Motor Actuators





SM: Stepper Motor Actuators

The SM stepper motor actuator has an internal mechanism which is arranged to be interfaced to the female thread of the threaded valve stem. Two hydraulic or pneumatic actuators drive the rotation of the internal mechanism of the stepper motor, one clockwise and the other anticlockwise, thus allowing the rotation in defined steps and the linear movement of the threaded rod. These actuators are available in different sizes to meet different torque requirements.

Key features

- > Available in two different versions:
 - Hydraulic (SMH)
 - Pneumatic (SMP)
- > Manual override on the side
- > Manual override size: 300mm
- > Hydraulic actuators without internal springs (one spring allows the return of both hydraulic/pneumatic actuators)
- > Hydraulic / pneumatic actuator driven in both directions to provide control

Total capability in valve actuation



Benefits

- > Direct connection between position transmitter and valve stem without intermediate mechanism
- > Linear and visible stroke indicator
- Manual override detachable/attachable (user defined)
- > Manual override provided in case of loss of mechanism forces
- > Available with two 3-way solenoid valve and other accessories

Manual override on the side

Technical specifications

Operating pressure

70 bar to 250 bar (oil) 4 bar to 10 bar (air)

Standard supply medium Oil, instrument air

Standard operating temperature -20°C to 70°C (lower or higher temperature on request) Output torque Up to 400 Nm

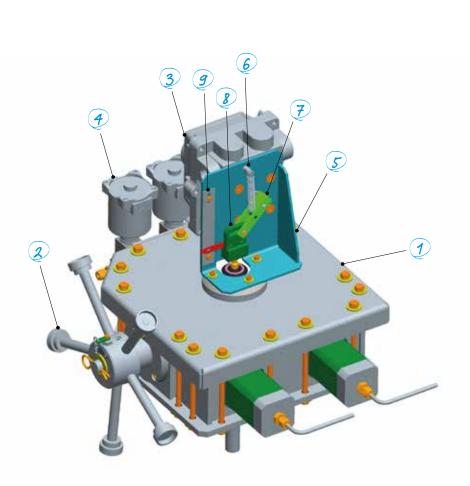
Stroke Up to 4" (100mm)

Internal mechanism 15 step / run

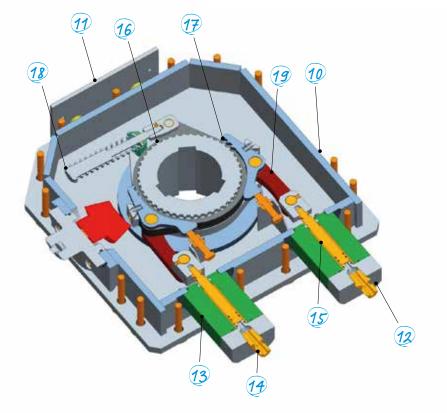




Product breakdown



Description	Material
	Carbon steel
	Carbon steel
Position transmitter	Stainless steel
Solenoid valves	Stainless steel
Position transducer support	Stainless steel
Extension spring	Stainless steel
Transducer connecting rod	Stainless steel
Link box transducer	Stainless steel
Stroke indicator	Stainless steel
Box	Carbon steel
Tool plate	Stainless steel
Head cylinder	Stainless steel
Cylinder body	Stainless steel
Piston bushing	Bronze
Piston rod	Stainless steel
Ratchet wheel	Alloy steel
Ratchet	Alloy steel
Spring	Carbon steel
Connecting rod	Alloy steel
	Position transducer support Extension spring Transducer connecting rod Link box transducer Stroke indicator Box Tool plate Head cylinder Cylinder body Piston bushing Piston rod Ratchet wheel Ratchet Spring



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