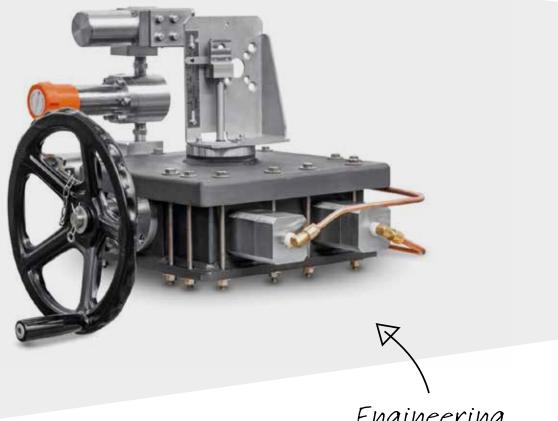


SM



Engineering GREAT Solutions

Stepper Motor Actuators





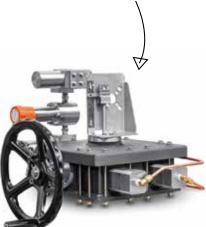
SM: Stepper Motor Actuators

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

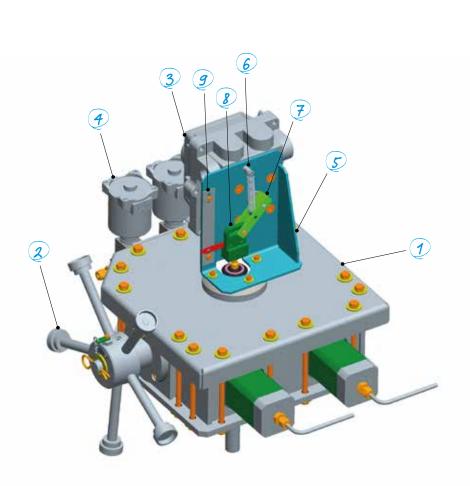
Stroke Up to 4" (100mm)

Internal mechanism 15 step / run

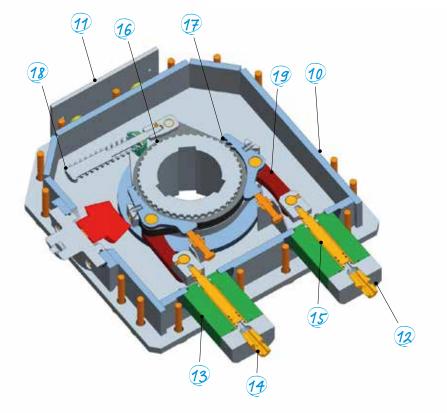




Product breakdown



| 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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