

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.

Total capability in valve actuation



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

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

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

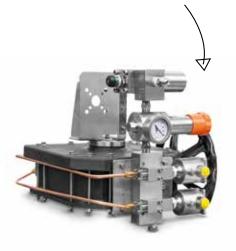
Stroke

Up to 4" (100mm)

Internal mechanism

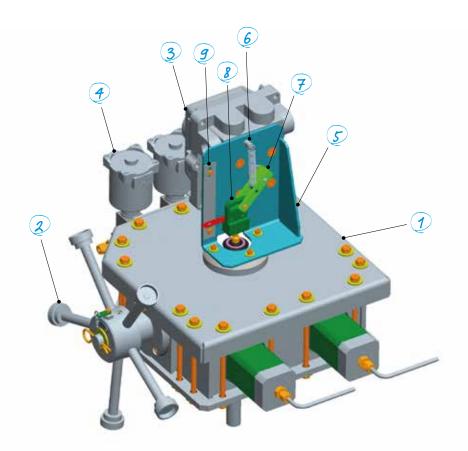
15 step / turn

Manual override on the side

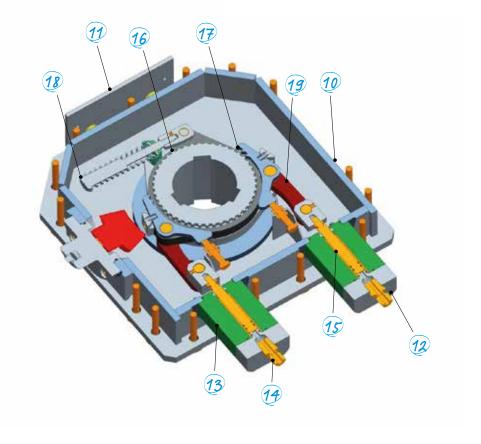




Product breakdown



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IMI STI - Headquarters

Via Dei Caravaggi 15 24040 Levate (BG) Italy

Tel. +39 035 2928.2 Fax +39 035 2928.247

IMI STI - Quarter Turn Division

Via San Francesco 18 29017 Fiorenzuola d'Arda (PC) Italy

Tel. +39 035 2928.2 Fax +39 0523 1715.295

IMI Critical Engineering

Lakeside, Solihull Parkway Birmingham Business Park Birmingham B37 7XZ United Kingdom

Tel: +44 (0)121 717 3700 Fax: +44 (0)121 717 3701

www.imi-critical.com imisti.sales@imi-critical.com



