PNEUMATIC ACTUATOR EB-SYD, DOUBLE ACTING

The double acting version of this series is available in 9 sizes, constructed to the scotch-yoke principle.

TECHNICAL DATA

- Torque: 27 - 4001 Nm (based on supply pressure of 6 bar)
- Limit of travel: exactly adjustable between ± 3°
- Limit switches and solenoid valve mounting: VDI / VDE 3845
- Supply pressure: min. 2.5 bar, max. 8 bar
- Supply quality: clean and dry in accordance with ANSI/ ISA S7.0.01.
  for cycles ≥ 4 /min please lubricate.
- Temperature range:
  -20°C to +80°C (standard)
  -40°C to +80°C (low temperature)
  -15°C to +140°C (high temperature)
- Valve interface: EN ISO 5211
- Actuator cylinder: high quality marine grade Aluminium alloy, hard anodized.
  Other coatings upon request.

FEATURES

- Maintenance-free
- Suitable for all ¼ turn valves
- Blow-out proof shaft
- Torques in agreement with EN ISO 5211
- High visibility position indicator
- All fasteners made of stainless steel

KEY BENEFITS

- High opening- and closing- torques produced by scotch-yoke mechanism
- Ideal sliding properties provided by low friction multiple piston guides
- Operational safety and long service life assured by precise machining of parts
The torques shown in the diagram are measured values. The required size of the actuator can be established by comparing the values of the actuator with the required torque of the valve.

Especially non-lubricant media (e.g. bulk goods and dry gases) may cause an increase in the actuator torque. This is why we recommend to consider a safety of 12%. Choosing an actuator in critical limits, please contact our engineers.
The torques shown in the diagram are measured values. The required size of the actuator can be established by comparing the values of the actuator with the required torque of the valve. Especially non-lubricant media (e.g. bulk goods and dry gases) may cause an increase in the actuator torque. This is why we recommend considering a safety of 12%. Choosing an actuator in critical limits, please contact our engineers.

Typical torque curve of a scotch-yoke actuator.

When the left control connection is pressurized, the pistons are pushed together with the yoke turning counter-clockwise to open the valve. When the right control connection is pressurized, the yoke turns clockwise to close the valve. The stroke of the piston can be limited by adjusting the screws located in the end covers.

Closing times can be adjusted from 30 sec. up to 300 sec. by using the EBRO speed control block (depending on type of actuator).
**PNEUMATIC ACTUATOR EB-SYD, DOUBLE ACTING**

**TECHNICAL DATA**
- **Torque:** 27 - 400 Nm (based on supply pressure of 6 bar)
- **Limit of travel:** exactly adjustable between ± 3º.
- **Limit switches and solenoid valve mounting:** VDI / VDE 3845
- **Supply pressure:** min. 2,5 bar, max. 8 bar
- **Supply quality:** clean and dry in accordance with ANSI/ISA S7.0.01.
  - For cycles ≥ 4/min please lubricate.
- **Temperature range:**
  - -20°C to +80°C (standard)
  - -40°C to +80°C (low temperature)
  - -15°C to +140°C (high temperature)
- **Valve interface:** EN ISO 5211
- **Actuator cylinder:** high quality marine grade Aluminium alloy, hard anodized.
  - Other coatings upon request.

**FEATURES**
- Maintenance-free
- Suitable for all ¼ turn valves
- Blow-out proof shaft
- Torques in accordance with EN ISO 5211
- High visibility position indicator
- All fasteners made of stainless steel

**COMPONENT PARTS**

<table>
<thead>
<tr>
<th>Pt.</th>
<th>Description</th>
<th>Qty.</th>
<th>Material</th>
<th>Pt.</th>
<th>Description</th>
<th>Qty.</th>
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The spare parts marked with D are integrated in the standard seal set. Subject to change without notice.

**MATERIAL SPECIFICATION AND PARTS LIST**

Only for EB-SYD (4.1 - 12.1)