

VETEC Actuator - Type AT

Sizes: SC/SO 60, 100, 150, 220, 300, 450, 600, 900, 1200, 2000, 3000, 5000

Version:

- Piston actuator

Opening angle:

- 75°

Spring position:

- Multi-spring, symmetric

Spring torques:

- 13 to 2207 Nm

Supply air range:

- 3 to 6 bar

Ambient temperature range:

- -40 to 80 °C / -40°F to 176 °F

Mounting of accessories:

- VDI / VDE 3845

Principle of operation:

The Type AT Actuator is a single-acting piston actuator. Thanks to different spring combinations, the required torques for special applications can be implemented easily.

Its special 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 AT Actuator

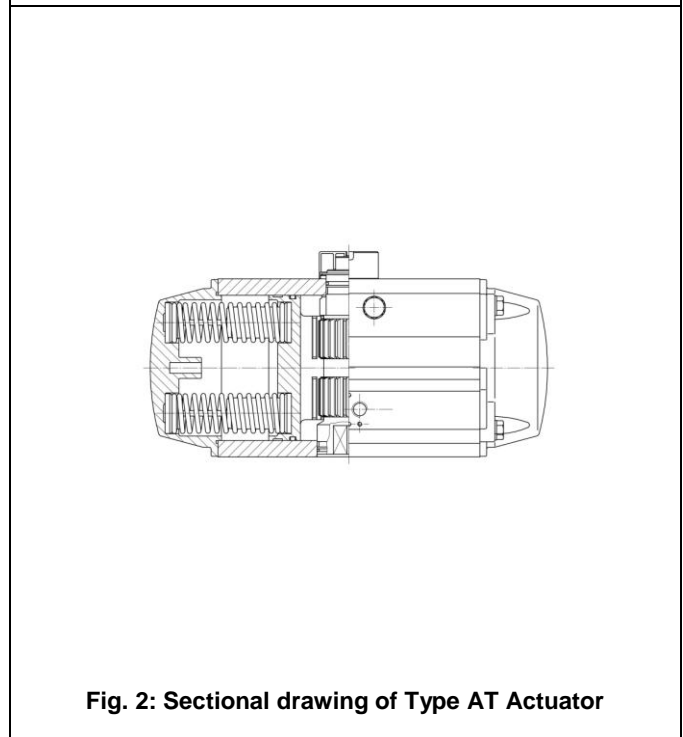



Fig. 2: Sectional drawing of Type AT Actuator

Table 1: Technical data

| Type | | SC60 | SC100 | SC150 | SC220 | SC300 | SC450 |
|------------------------|-----------------------------------|-------------------------------------------------------------------------------------|-----------|-----------|-----------|----------|----------|
| Version | | Piston | | | | | |
| Spring position | | Multi-spring, symmetric | | | | | |
| Opening angles | | 75° | | | | | |
| Spring range (Nm) | | 13 - 26 | 22 - 44 | 30 - 60 | 49 - 98 | 63 - 126 | 99 - 198 |
| Supply air range (bar) | | 3 to 6 | | | | | |
| Temp.-range | O-ring NBR (standard) | - 40°C to + 80°C | | | | | |
| | O-ring Viton (high temp.) | -15 °C to +150°C | | | | | |
| | O-ring silicone (cryogenic temp.) | - 55°C to + 80°C | | | | | |
| Weight (w/o yoke) (kg) | | 2,7 – 3,1 | 3,8 – 4,4 | 5,1 – 6,0 | 8,1 – 9,4 | 10 – 12 | 14 – 17 |
| Manual gear | |  | | | | | |


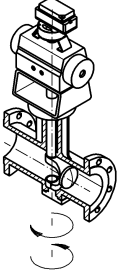
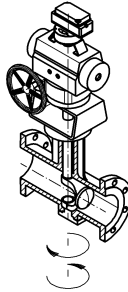
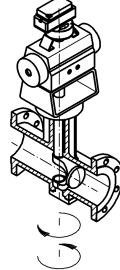
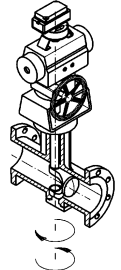
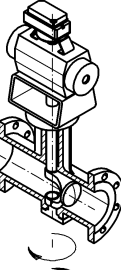
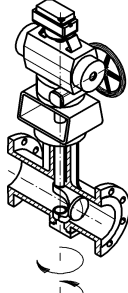
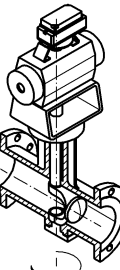
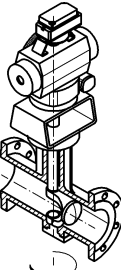
| Type | | SC 600 | SC 900 | SC 1200 | SC 2000 | SC 3000 | SC 5000 |
|------------------------|-----------------------------------|--------------------------------------------------------------------------------------|-----------|-----------|-----------|------------|-------------|
| Version | | Piston | | | | | |
| Spring position | | Multi-spring, symmetric | | | | | |
| Opening angles | | 75° | | | | | |
| Spring range (Nm) | | 135 - 269 | 100 - 379 | 255 - 510 | 433 - 865 | 655 - 1309 | 1104 - 2207 |
| Supply air range (bar) | | 3 - 6 | | | | | |
| Temp.-range | O-ring NBR (standard) | - 40°C bis + 80°C | | | | | |
| | O-ring Viton (high temp.) | - 15°C bis + 150°C | | | | | |
| | O-ring silicone (cryogenic temp.) | - 55°C bis + 80°C | | | | | |
| Weight (w/o yoke) (kg) | | 18 – 21 | 24 – 33 | 34 – 44 | 54 – 64 | 76–96 | 118-150 |
| Manual gear | |  | | | | | |

Fig. 3: Attachment types

| | | | |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|  |  |  |  |
| Attachment type A FTC (spring closes, air opens) FTO (spring opens, air closes) | Attachment type A, manual gear FTC (spring closes, air opens) FTO (spring opens, air closes) | Attachment type B FTC (spring closes, air opens) FTO (spring opens, air closes) | Attachment type B, manual gear FTC (spring closes, air opens) FTO (spring opens, air closes) |
|  |  |  |  |
| Attachment type C FTC (spring closes, air opens) FTO (spring opens, air closes) | Attachment type C, manual gear FTC (spring closes, air opens) FTO (spring opens, air closes) | Attachment type D FTC (spring closes, air opens) FTO (spring opens, air closes) | Attachment type D, manual gear FTC (spring closes, air opens) FTO (spring opens, air closes) |