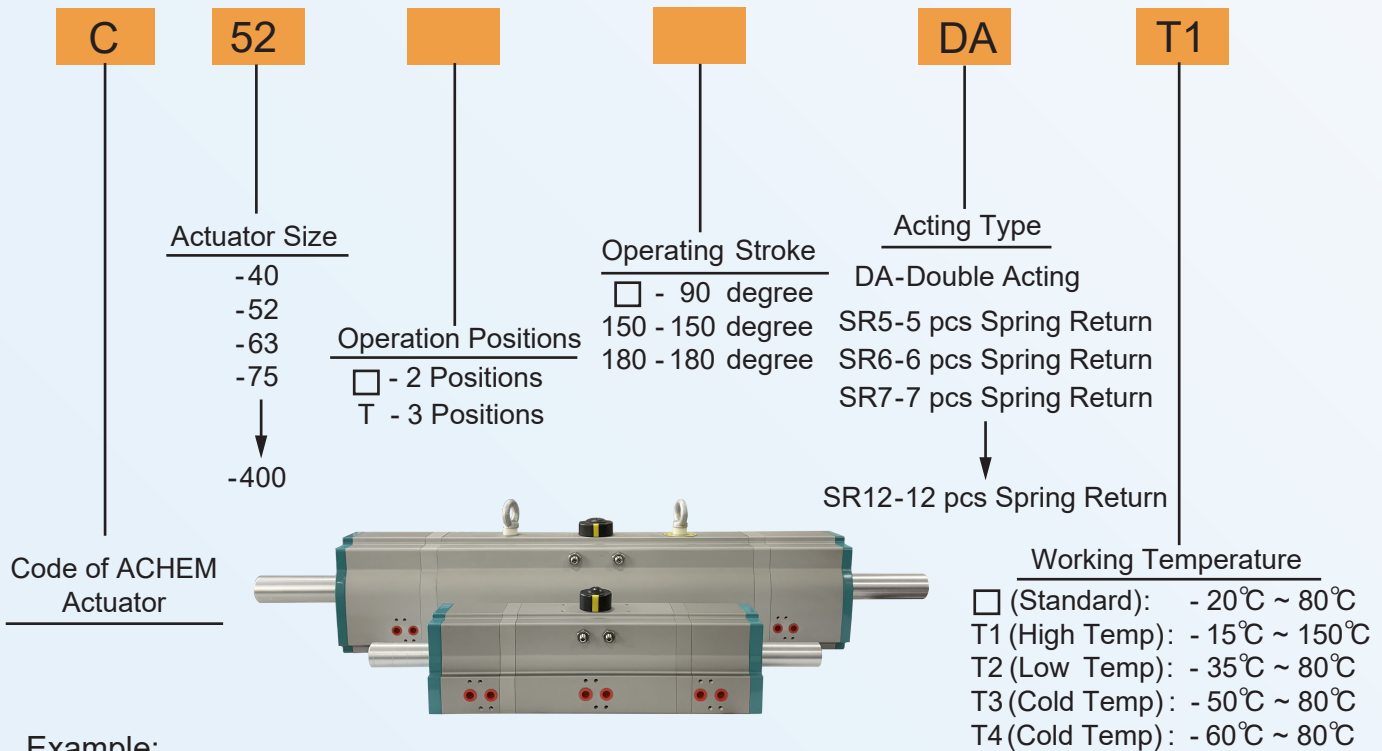




Sizing Information and Technical

How to order

There are six parts in model and specification of ACHEM C series pneumatic actuator.



Example:

C-160DAT0

C series double acting pneumatic actuator with 160 mm inner diameter body and the working temperature range is -20°C ~ 80°C.

C-63T90SR12T3

C series three position spring return (single acting) pneumatic actuator with 63mm inner diameter body and equipped 12 pcs springs. The working temperature range is from -60°C ~ 80°C.

Sizing

Double Acting Actuators

The suggested safety factor for double acting actuators under normal working conditions is 20%-30%.

Example:

- The torque needed by valve=100N.m
- The torque considered safety factor (1+30%)=130N.m
- Air Supply=5Bar

According to the above table, we can choose the minimum model is C-105DA.

Spring Return Actuators

The suggested safety factor for spring return actuator under normal working conditions is 30%-50%

Example:

The torque needed by valve=80N.m

The torque consider safety factor (1+30%)=104N.m

Air Supply=5Bar

According to the table of spring return actuators' output, we find output torque of C-140SRT is:

Air stroke 0°=308N.m

Air stroke 90°=247N.m

Spring stroke 90°=181N.m

Spring stroke 0°=120N.m

All the output torque is larger than we needed.

Attention:

During the restoration, the spring return actuators' output torque will not be affected by the inputing air from the port B. On the contrary it will help the restoration of springs.

* For continuous improvement of the product, we reserve the right to alter the dimensions, technical data in this catalogue.