

SA/CL

The SA/CL is an analog positioner available in a pneumatic and electro-pneumatic version. The positioner has a heavy duty design making it suitable for use in very harsh conditions. It is used as the control part of the pneumatic valve set in oil and gas, refining, chemical, power, metal production and other fields with automated systems. The UP-2 pneumatic version accepts a 3-15 psi (0.2-1 bar) signal and the electro-pneumatic version a 4-20 mA signal.

When using the electro-pneumatic version an I/P converter is installed on the pneumatic positioner which allows an electric signal to pilot the positioner. It is based on the balanced-forces principle; air distribution to actuator chambers is executed by an internal spool.

The SA/CL is designed to be used for applications on linear actuators with a stroke length of over 70mm. This positioner is double acting but can also be used as single acting if required.



High reliability

Key features and benefits

- > Metallic case
- > Heavy duty design
- > High reliability
- > Integrated bypass only for ND 1/4" version
- > Action inversion without tubing inversion only for ND 1/4" version
- > Air purge version
- > Sandstorm execution
- > Split range signal
- > Special characterisation/range
- > Suitable for big size/fast stroking actuator
- > Available full stainless steel spool valve for ND 1/4"
- > Full stainless steel spool valve for ND 1/2"
- > Suitable for:
 - Standard, offshore, sandstorm, copper free ambient condition
 - Single and double acting actuators
 - Low and high ambient temperature



DT electro-pneumatic version

Accessories

- > Air-Lock ND 1/4" integrated
- > Electro-pneumatic version available - intrinsically safe and explosion-proof for ATEX execution
- > Change-over plate with by-pass valve
- > Special construction for corrosive environment
- > Customised cam
- > Pressure gauges

Technical specifications

外壳材料

铝

操作压力

P min = 2.5 bar

P max = 7 bar

Design pressure = 10 bar

静态空气消耗量

ND 1/4" 1.02 Nm³/h (0.6 SCFM) at 400 kPa (60 psi)

ND 1/2" 1.04 Nm³/h (0.8 SCFM) at 400 kPa (60 psi)

静态空气消耗量 (I/P转换器)

+0.09 Nm³/h (0.06 SCFM)

供电连接

ND 1/4" Model SA/CL-2

ND 1/2" Model SA/CL-1

输出连接

ND 1/4" Model SA/CL-2

ND 1/2" Model SA/CL-1

导频信号连接

1/4" NPTF

电气连接 (I/P转换器)

ND 1/2" NPTF

保护闭包度

IP65

CV最大值

ND 1/4" Inlet = 0.34

ND 1/4" Outlet = 0.34

ND 1/2" Inlet = 0.637

ND 1/2" Outlet = 0.79

工作温度

-20°C / +70°C

-40°C / +85°C available on request

信号

3-15 psi

4-20 mA

灵敏度

0.2% of signal range

线性

1% of the full stroke

滞后

0.5% of the full stroke

重量

SA/CL-2 ND 1/4" = 2.3 kg

SA/CL-1 ND 1/2" = 3 kg

SA/CL-2-EP ND 1/4" = 2.8 kg

SA/CL-1-EP ND 1/2" = 3.5 kg

Dimensional drawing

