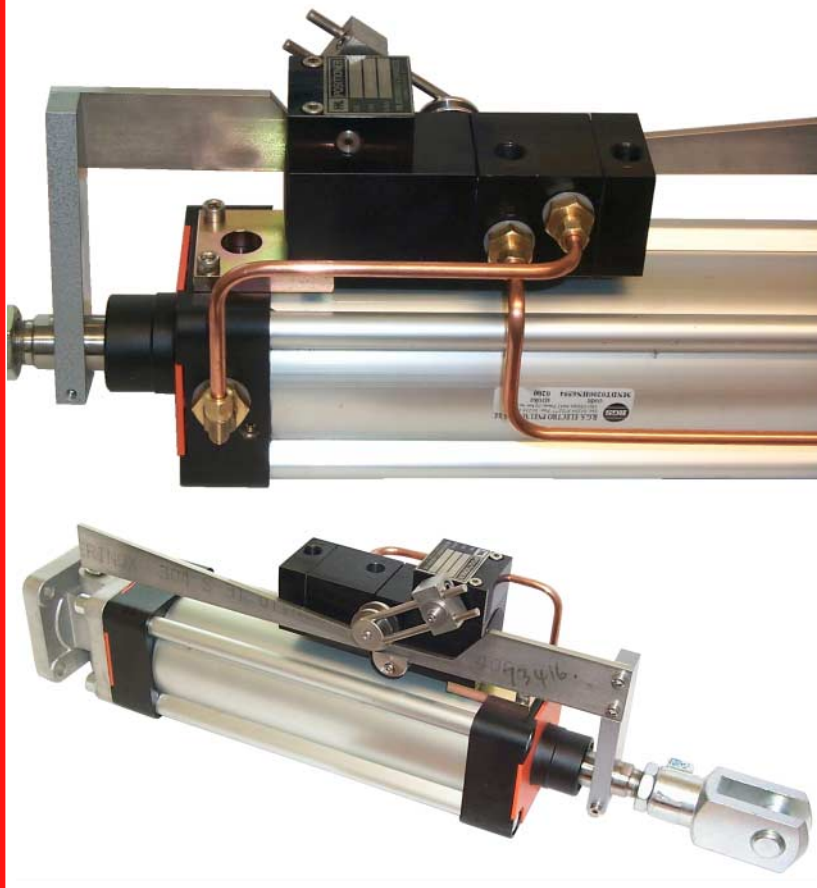
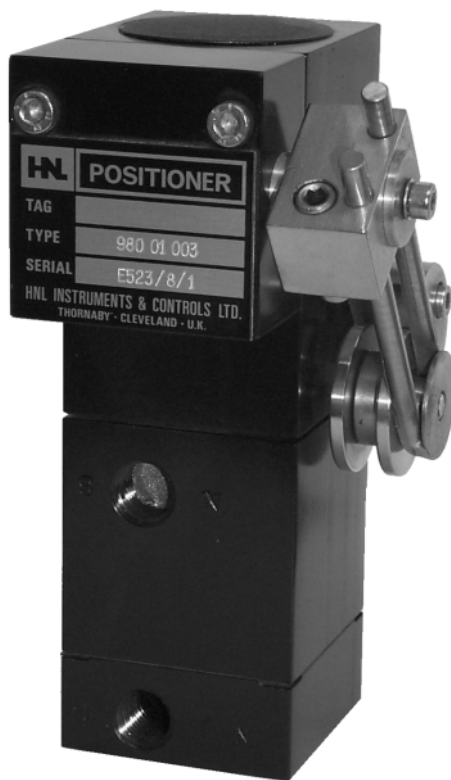




PNEUMATIC POSITIONER

SERIES 980

DOUBLE ACTING POSITIONER FOR LINEAR ACTUATORS



- **0.2 - 1.0 BAR (3 - 15 PSI) CONTROL SIGNAL**
- **SUPPLY PRESSURE UP TO 10 BAR**
- **SUITABLE FOR DOUBLE-ACTING OR SINGLE-ACTING (SPRING RETURN) ACTUATORS**
- **ROBUST AND RELIABLE**
- **STAINLESS STEEL OR ALUMINIUM**

HNL's Series 980 pneumatic positioner may be used to control the travel of the piston rod on double-acting or single-acting cylinders. A control signal of typically 0.2 to 1.0 bar provides proportional movement of the piston rod.

By changing the profile of the feedback cam and the way the actuator is piped to the positioner, a direct acting or reverse acting configuration may be achieved. With direct acting the piston rod moves out for a rising control signal, with reverse acting the piston rod moves in for a rising control signal.

In addition to providing a high degree of reliability, the positioner has the advantage of being able to operate with supply pressures up to 10 bar, and with indifferent quality air supplies.

All external linkage components are of stainless steel. The positioner body is available in anodised aluminium or 316 stainless steel.

The standard control signal for the positioner is 0.2 to 1.0 bar (3-15 psi). Both the zero and span adjustments are readily accessible allowing for on-site calibration.

The optimum cylinder size for the standard positioner is a bore of 150mm and stroke of 300mm. Where the stroke or bore is significantly larger than this the speed of operation will be slower. A high gain positioner is available for these applications.

The Series 980 positioner can be supplied on its own, or with a link arm and stainless steel feedback cam for a specified actuator. Alternatively HNL will undertake the fitting, piping, calibrating and testing of positioners to all suitable cylinders and actuators.

The photographs on the left show a Series 980 Positioner on a double-acting cylinder. The arrangement is direct acting (as described above) due to the feedback cam profile. The feedback cam is rigidly clamped to the piston rod with a 'link arm'.

For information on Series 982 Rotary Positioners please refer to technical datasheet TD982 RTY.

MANUFACTURED IN THE U.K.

QUALITY ASSURANCE

Designed and manufactured by HNL in accordance with BS EN ISO 9001:2000.



Specifications		
Supply pressure:	up to 10 Bar	
Control Signal Pressure:	0.2 - 1.0 Bar (3 - 15 PSI)	
Control Accuracy: (Typical figures - actual figures will depend upon the actuator used)	Linearity Error	1% max
	Repeatability Error	0.5% max
	Hysteresis Error	0.5% max
	Overall Accuracy	2%
Operating Temperature:	-20°C to +80°C for dry gases	
Cv:	0.14	
Weight:	1.4 kg - Aluminium model	
	2.6 kg - Stainless steel model	

Air Consumption (Static Conditions)

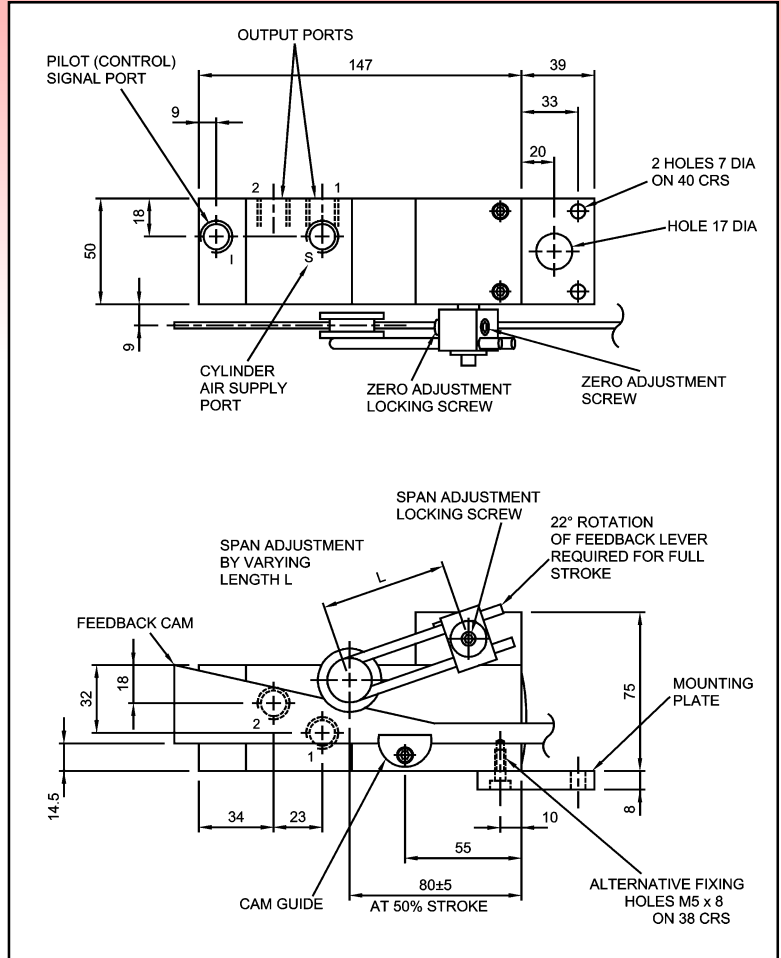
Typical air consumption is 10 NI/min at a 2 bar supply pressure, rising to 30 NI/min at 8 bar. Under dynamic conditions consumption will be higher depending upon the actuator size and its rate of movement.

Other Options

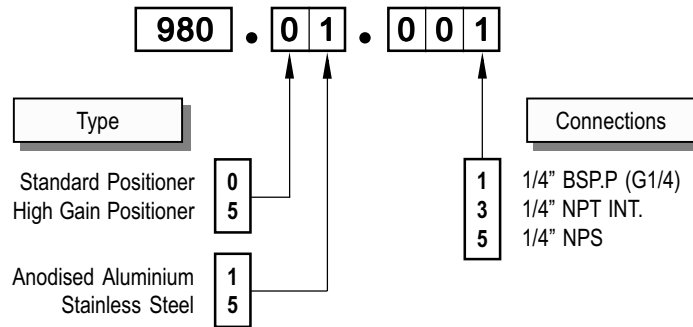
Further options are available including -

- I/P fitted positioners (4-20mA control signal)
- High temperature ratings
- Additional control signal ranges
- Single acting for control valves
- Positioner with integral bypass manifold
- Positioner with gauges
- Log. cam profile (non-linear response)

Please contact HNL technical sales for details.



Coding:



HNL Engineering Ltd comprises three Divisions offering a wide range of products & services which includes:

Instruments & Controls

Pressure, DP and Temperature Switches & Transmitters. Rotary and linear positioners. Flow regulators & Bubblers. Control Systems.

Precision Machining

Turning, Milling, Drilling, Tapping, Sawing, Welding, Painting, Anodising. From small to large batch sizes in a wide range of materials.

Manifolds & Valves

Wide range of distribution manifolds in both anodised aluminium and stainless steel. Stainless steel ball valves.

The information contained in this data sheet may be changed without notice.