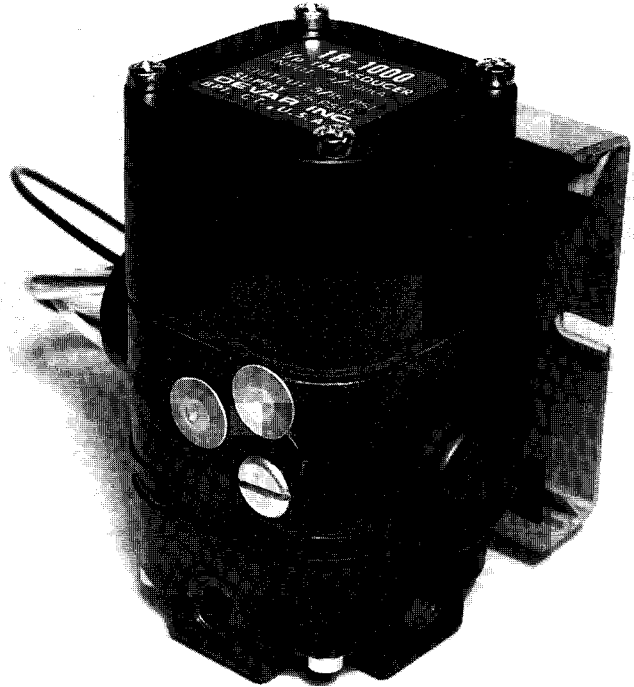


- * LOW COST, SMALL SIZE
- * BUILT-IN VOLUME BOOSTER
- * FIELD REVERSIBLE
- * LOW SUPPLY PRESSURE SENSITIVITY
- * WIDE SPAN ADJUSTMENT RANGE



GENERAL DESCRIPTION

These Extended Range I/P Transducers are based on the proven 18-1000 transducer line – the best selling transducers in the business. 20-830 kPa (3-120 psi) output is available with 4-20mA input.

The large span adjustment range of this line allows recalibration to fit applications with output ranges from approximately 20-245 kPa (3-35 psi) to 20-1015 kPa (3-145 psi). the units accept supply pressures up to 1050 kPa (150 psi) and provide flow capacity to 40.8 m³/hr (24 SCFM).

The 18-1000 I/P Transducers are more cost effective and accurate than typical high output systems using transducers coupled to boosting or multiplying relays.

The new Extended Range 18-100 Transducers have been developed specifically for fluid power applications. They are used to convert analog input signals to a wide range of pneumatic outputs to control:

- * Web tension
- * Welding Pressure
- * Paint spraying pressure
- * Fluid dispensing
- * Cylinder positioning and force
- * Air motor speed and torque
- * Robotic cylinders and grippers
- * Pneumatic clutches and brakes

SPECIFICATIONS MODEL 18-1000 ER I/P

Input Signal Range: See table below
Output Range: See table below

Supply Pressure Range:
 Min.: 35 kPa (5 psig) above max. output
 Max.: 1050 kPa (150 psig)

Supply Pressure Sensitivity:
 <+.004% of span per 1.0 kPa
 (1.0 psig) change in supply pressure.

Terminal Based Linearity: See table below

Repeatability: <0.5% of span

Hysteresis: <0.5% of span

Flow Rate at Midrange (Typical):
 40.8 m³/hr ANR (24 SCFM) at 1050 kPa
 (150 psig) supply

Air Consumption (Maximum):
 0.12 m³/hr (.07 SCFM) at midrange

Nominal Impedence: See table below.

Port Sizes: 1/4 NPT (pneumatic);
 1/2 NPT (electric)

Size: 54 mm x 54 mm x 102 mm
 (2-1/8 in. x 2-1/8 in. x 4 in.)
Weight: 0.94 kg (2.1 lb)

Principal of Operation

See 18-1000 I/P Transducer brochure #181000

Mounting

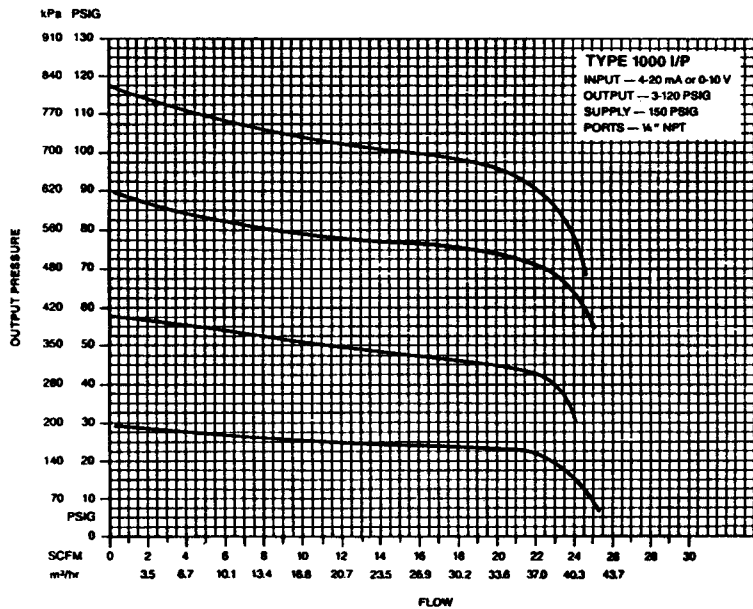
See 18-1000 I/P Transducer brochure #181000

Field Reversibility

See 18-1000 I/P Transducer brochure #181000

Dimensional Drawing

See "Dimensional Drawing: General Purpose and Intrinsicly Safe Models" in 18-1000 I/P Transducer Brochure #181000



ORDERING INFORMATION:

To order, specify part number from table below.

TYPICAL FLOW PERFORMANCE

18-1000 ER Extended Range I/P and E/P Transducers

Input	Output ¹		Part Number	Terminal Based Linearity (% of Span)	Nominal Impedence (ohms)
	psi	kPa			
4-20mA	3-120	20-830	18-1000ER-120	<+2.0%	260

¹ Output shown is as calibrated at the factory. Large span adjustment allows recalibration for applications with output ranges from approximately 3-35 psi (20-240 kPa) to 3-145 psi (20-1000 kPa).

DEVAR Inc.

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