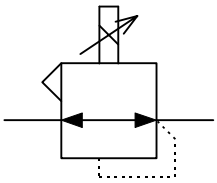
The 120 Pilot Booster I/P converter is *MADE PURELY FOR SPECIFIC CUSTOMER SOLUTION WHO REQUIRE AN INTEGRATED I/P FOR POSITIONER CONTROL* that includes proven moving coil and flapper/nozzle technology. With a built in flow regulator to minimize supply pressure effects. Available in a variety of packages including Explosion Proof enclosures for incorporation into OEM products.

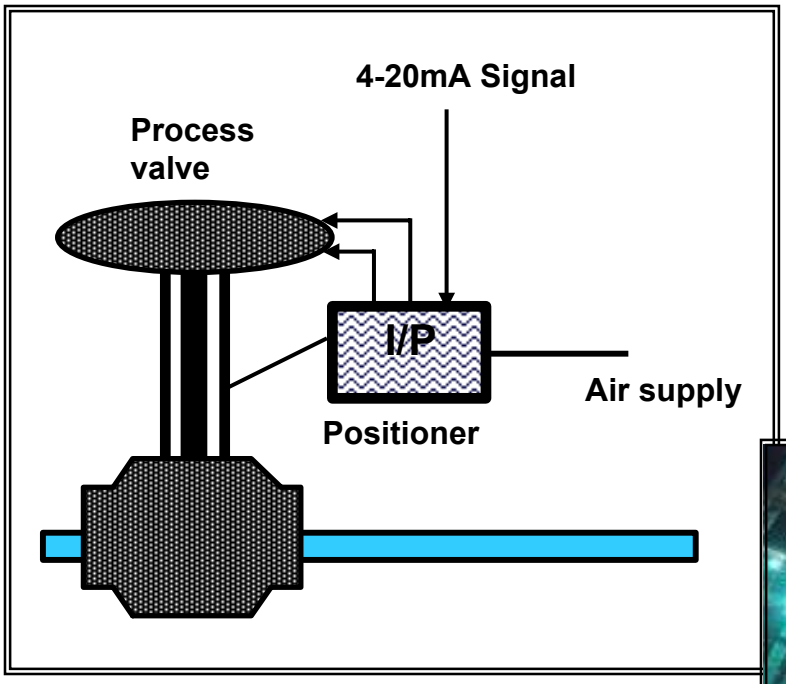
- *Low Cost OEM I/P*
- *Valve Positioner Pilot*
- *Compact and Rugged*
- *Specific Application Customising*
- *Wide Supply Range Available*

TYPE 120
MODULAR (I/P) PILOT BOOSTER



Functional Symbol

TYPICAL APPLICATIONS



Industry:

Any industry requiring higher flows or pressures, i.e Pulp and Paper, Water treatment, Food and Beverage for positioning control valves.

Solution:

Accurate control of the position of motion control valves via an actuator with accurate positioner control.

TECHNICAL DATA

Pneumatic

•Output Pressure	0.2-1bar (3-15psig) ;
•Air Supply	Oil free, dry air, filtered to <5 microns; 1.4-10 bar (20-150 psig
•Flow Capacity	<1.5nl/min
•Air Consumption	<1.5 nl/min typical
•Response Time	</=650msecs from 10 to 90% or </=350ms from 90 to 10% of output pressure into a 4.5cc load)
•Linearity	+/-0.5% of span
•Hysteresis	+/-0.3% of span
•Temperature Effect	Typically less than 0.2% span/degC between -40°C to +85°C
•Supply Sensitivity	Less than+/- 0.15% of span for supply pressure change
•Connections	customised to suit customer requirements

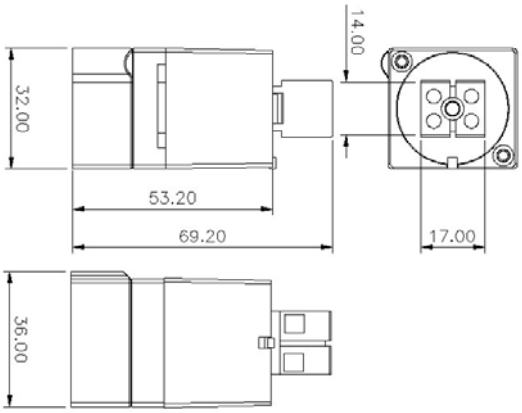
Physical

•Operating Temperature	-40°C to +85°C
•Weatherproofing	IP20
•Vibration	Output pressure changes less than 2% for 2g sine 20-100Hz,
•Electromagnetic	Compliant with EC requirements EN Compatibility 50081-2:1994 (Emissions) and EN50082-2:1995(Immunity)
•Material of Construction	Zinc diecasting with nitrile diaphragms, customer specific enclosures available
•Mounting Position	Any, to be specified by customer

Electrical

•Electrical Signal	4-20mA (two wire);
•Loop Resistance	230Ohm
•Failure Mode	Signal falls to below 15mbar (0.2psig) in < 2sec, when input signal fails
•Insulation Resistance	>100MOhm at 850Vdc, electrical terminals to case
•Connections	Clamping screw connector terminals or flying leads to customer requirements.

Installation Diagram



Characteristic Graphs

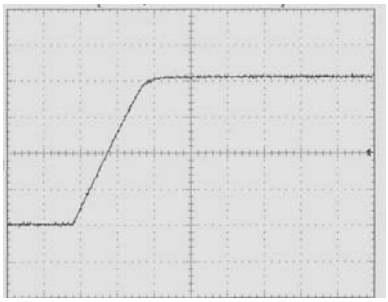


Chart displays 313ms; 10-90% of output pressure

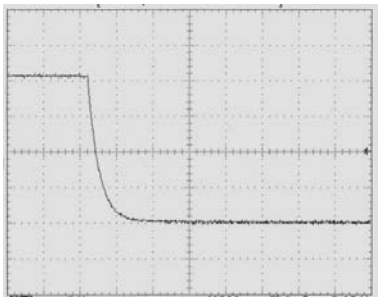


Chart displays 124ms; 90-10% of output pressure

Hazardous Area Certification

The Type 120 can be supplied certified for use in intrinsically safe and flameproof applications, to CENELEC, FM and CSA requirements. For certification and customised units please contact the factory.

Ordering Information

Options to special order:

Standard 1/8" ported base
Alternative pressure ranges
Optional Enclosures
Orientation and Application Specific Calibration set-up

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Cross Chancellor Street,
Leeds, LS6 2RT. England.
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Email: salesenquiries@norgren.com

ds120N 10/06
Controlled Doc. 2006-120a

All instruments are tested on the Watson Smith Automatic Testing System and an individual test certificate is provided at no extra charge. Each unit is tested for linearity, hysteresis, total error, air consumption, response time and supply sensitivity.