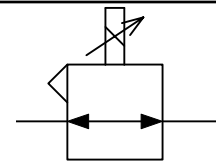


The VP10 proportional valve provides accurate pressure control with excellent linearity, making it perfect for pressure critical applications.

A cost-effective electronically controlled pressure regulator, giving you precision, reliability and sensitivity.

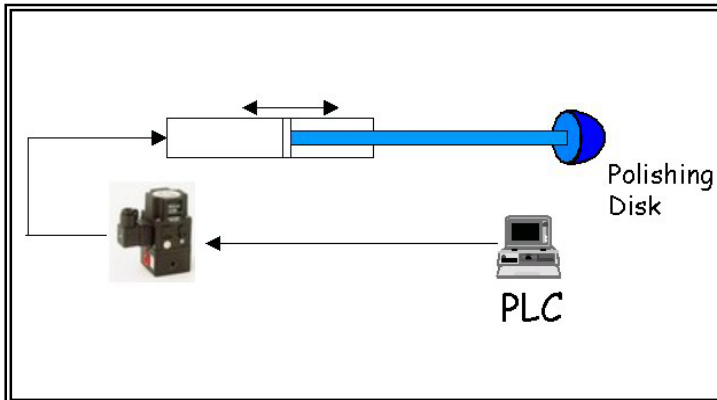
- *Reliable, rugged proportional I/P and E/P converter*
- *Suitable for a wide range of applications*
- *Excellent accuracy*
- *Minimum vibration effects*
- *IP65 environmental protection in normal operation*
- *Very accurate prop valve with great resolution when customer closes the loop*
- *IS (intrinsically safe) for process industry*

VP10
Electronic Pressure Regulator



Function Symbol

TYPICAL APPLICATIONS



Industry:

Designed for industries which require high accuracy, rapid response.

Used in a wide range of applications i.e

Pressure simulation testing, polishing, pneumatic braking, material load testing, test beds, pneumatic clutches.

Solution:

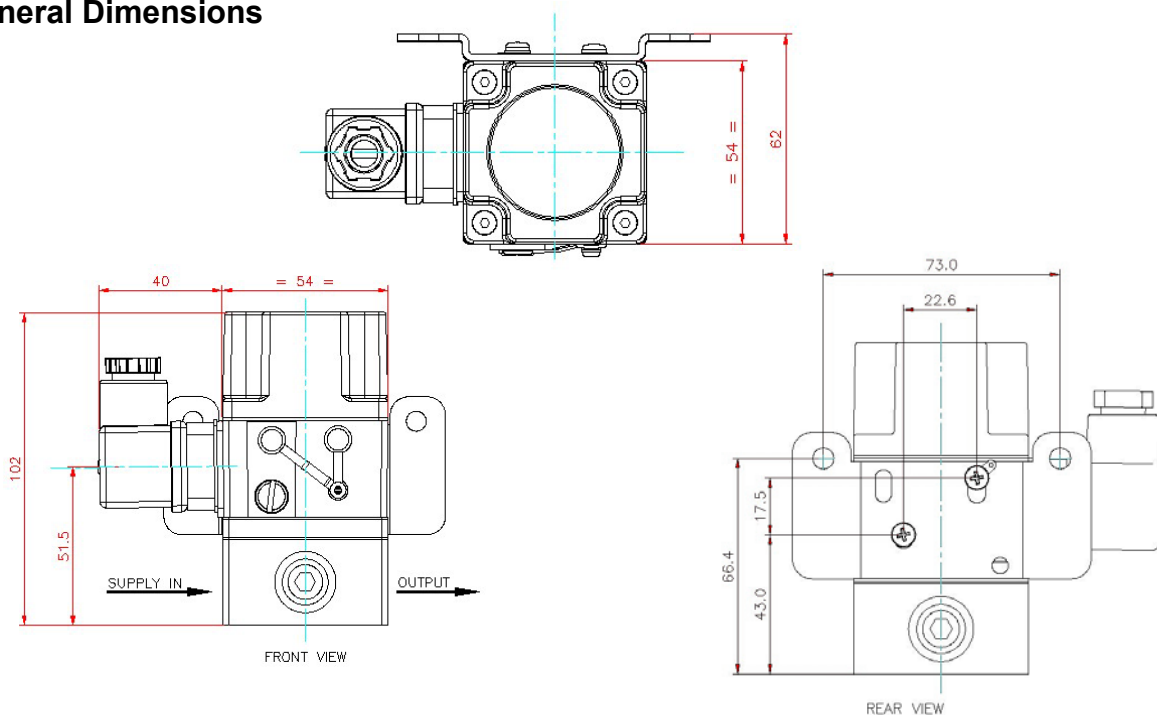
Different programs on the PLC enable different polish finishes to be applied to different materials and for different lengths of time.



Technical Data

- Medium Oil free, dry air, filtered to 5microns
- Output Pressure See product selector
- Flow Capacity Up to 300NI/min (10scfm)
- Air Consumption 1.4 l/min (0.06scfm) typical
- Air Supply At least 0.5bar above maximum required output pressure
- Connections 1/4" NPT or 1/4" BSP, 30mm square connector DIN 43650 provided
- Operating Temperature -40° to +85°C
- Response Time <2bar/30psig: less than 0.5seconds (dependent on input for 10-90% step change in outlet pressures) into a 10cc load
- Hysteresis Maximum 0.35% of span
- Independent Linearity Maximum 0.5% of span
- Temperature Effect Average 0.1% of span/ °C for span and zero over operating range
- Supply Sensitivity Better than 0.075% span output change per % supply pressure change
- Failure Mode Signal falls to bleed pressure when electrical supply fails
- Mounting Position Integral surface mounting bracket provided for preferred vertical mounting.
50mm pipe mounting kit available
- Material of Construction Zinc die-casting passivated with epoxy paint, nitrile diaphragms, Be₂Cu flapper nozzle and supply valve
- Mass 825g

General Dimensions



Ordering Information

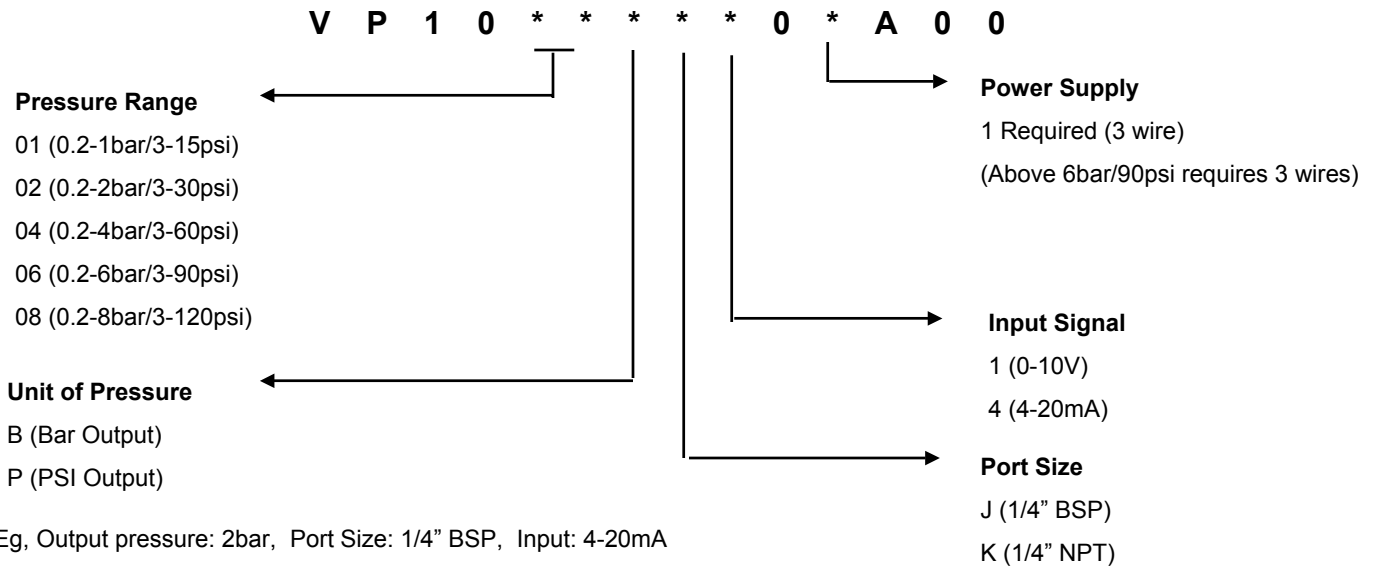
To order please quote model number from the table below.

Options

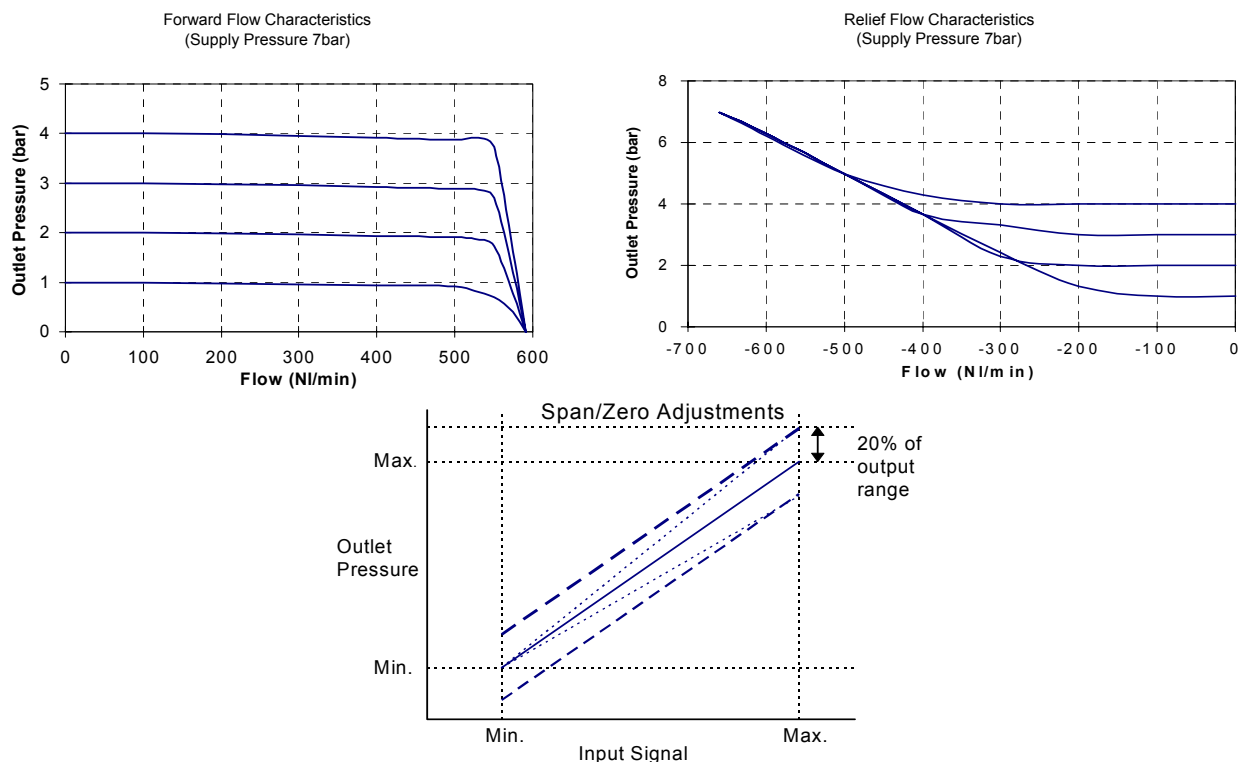
Alternative input signal ranges, alternative pressure ranges, conduit entry with flying leads, junction box, 50mm pipe mounting bracket, 1/8" NPT pneumatic connections, captured exhaust, reverse acting, split range.

For options not shown and any specific requirements please contact Norgren technical department

Product Selector



Characteristic Curves





NORGREN

Installation and Commissioning

Pneumatic Installation

Supply Pressure: At least 0.5bar above maximum required output pressure

Media: Clean, dry 5 microns filtered air, non-lubricated

Port Size: ¼”BSP or ¼”NPT

Mounting: Calibrated in vertical position, 50mm pipe mounting kit available.

Servicing and Repairs

A two year warranty applies to all Norgren products. For terms and conditions please ask for a copy of our ‘General Conditions of Sale.’

You should by no means attempt to repair the product by yourself.

For repair please return the product concerned with a description of the error, malfunction or failure to your local representative dealer or agent.

Transport and Storage

The product can only be transported and stored in the original Norgren packaging which ensures suitable protection against mechanical damage.

Norgren Ltd.,
Cross Chancellor Street,
Leeds, LS6 2RT. ENGLAND.
Telephone: +44 (0) 113 245 7587
Fax: +44 (0) 113 246 5735
Email: salesenquiries@norgren.com

Our Ref: dsVP10 10/06
Controlled Doc. 2006-123a

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.

Our policy is one of continuous research and development. We therefore reserve the right to amend without notice the specifications given in this document. Customers are responsible for ensuring that the product is used only for the purpose for which it is intended. In case of doubt Norgren will be pleased to advise.