

Proven low power technology
Reliable, rugged, open-loop device
Compact and flexible design
Excellent performance characteristics
Available in 2 and 3 wire
Output pressures up to 8 bar

Technical data

Medium:

Oil free, dry air, filtered to 5 µm

Mounting position:

Calibrated in an upright position

Output pressure:

0 to 1 bar (0 to 15 psi), 0 to 2 bar (0 to 30 psi), 0 to 4 bar (0 to 60 psi), 0 to 6 bar (0 to 90 psi), 0 to 8 bar (0 to 120 psi)

Supply pressure:

Minimum 1,5 bar (22 psi) above maximum output pressure
(10 bar (150 psi) maximum)

Hysteresis:

<1% of span

Repeatability:

< 2% of span

Linearity:

< 1,5% of span

Response time:

≤500 ms from 0% to 100%

≤100 ms from 100% to 0% of output pressure into a 10cc load

Flow capacity:

Forward: <200 l/min (7 scfm)

Relief: <180 l/min (6 scfm)

Air consumption:

≤6 bar (90 psi) = < 3 nl/min typical

8 bar (120 psi) = <10 nl/min typical

Temperature effect:

Typically less than 7 mbar per °C between 0°C to +60°C

Supply sensitivity:

Less than 0,1 bar (1,5 psi) for 1 bar (15 psi) supply pressure change

Ambient temperature:

0°C to +60°C

Consult our Technical Service for use below +2°C.

Degree of protection:

IP30

Vibration immunity:

Output pressure changes less than 3% for 2 g sine 15 to 150 Hz

Electromagnetic compatibility:

Compliant with EC requirements

EN61000-6-4:2001 (Emissions) and EN61000-6-2:1999

(Immunity)



Electrical connection:

Screw terminal

Port sizes:

1/8" BSP/NPT

Command signal:

4 to 20mA or 0 to 10V

Electrical supply:

24V d.c. ±10% (on 3 wire options)

Loop resistance:

mA = 220 Ω maximum, V = 16 kΩ minimum

Failure mode:

Fails safe upon loss of signal or power

Materials

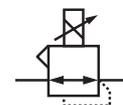
Diaphragm: nitrile

Base: Zinc casting

Spacer: plastic

Ordering information

See page 2





Options selector

Pressure range		Substitute	Wire options		Substitute
0 to 1 bar/15 psi		1	2		0
0 to 2 bar/30 psi		2	3 (24 V d.c. supply)		1
0 to 4 bar/60 psi*		4			
0 to 6 bar/90 psi*		6			
0 to 8 bar/120 psi*		8			
Unit of pressure		Substitute	Input signal		Substitute
Bar output		B	0 to 10 V		1
PSI output		P	4 to 20 mA		4
			Port size		Substitute
			G1/8		G
			1/8 NPT		H
			Manifold optional		X

* For 3 wire versions only

Options to special order: For options not shown and any specific requirements please contact Norgren technical department

Ordering information

3 wire: Output pressure: 2 bar, port size: G1/8, input: 4 to 20 mA
quote: **VP1202BG401Q00**

2 wire: Output pressure: 15 psi, port size: 1/8" NPT, input: 4 to 20 mA
quote: **VP1201PH400Q00**

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

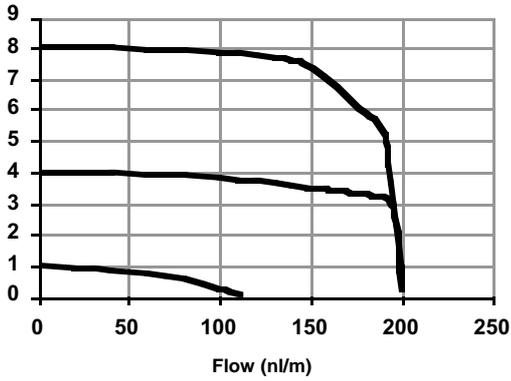
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

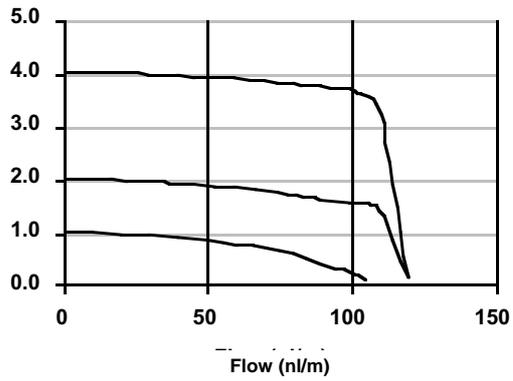


Characteristic curves

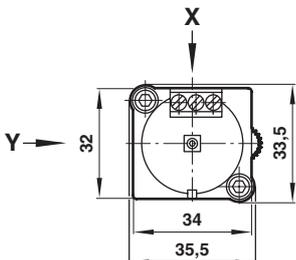
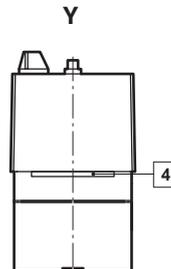
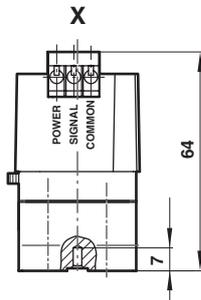
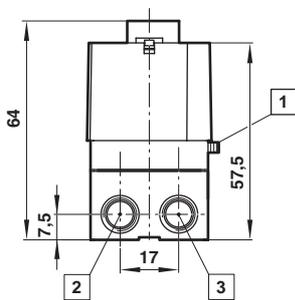
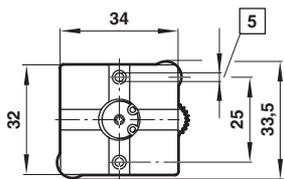
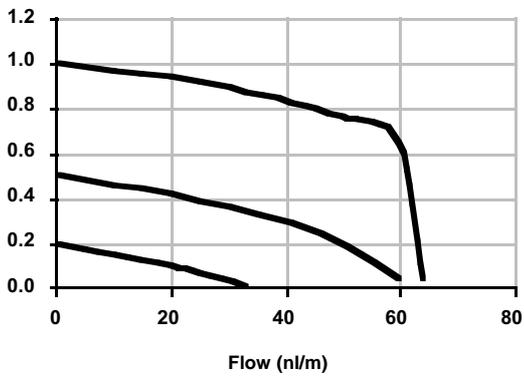
9,5 bar supply



5,5 bar supply



2,5 bar supply



- 1 Adjust gear
- 2 Outlet port (G1/8 or 1/8 NPT)
- 3 Inlet port (G1/8 or 1/8 NPT)
- 4 Exhaust port, do not obstruct
- 5 M3 x 0,5 x 7

Note: All measures are in millimetres unless otherwise stated