

**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

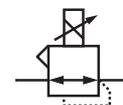
Diaphragm: nitrile

Base: Zinc casting

Spacer: plastic

### Ordering information

See page 2





## Options selector

Pressure range		Substitute	VP120***0*Q00		Wire options		Substitute
0 to 1 bar/15 psi		1	<div style="display: flex; justify-content: space-around;"> <div style="text-align: right;">←</div> <div style="text-align: left;">→</div> </div>		2		0
0 to 2 bar/30 psi		2			3 (24 V d.c. supply)		1
0 to 4 bar/60 psi*		4			Input signal		Substitute
0 to 6 bar/90 psi*		6			0 to 10 V		1
0 to 8 bar/120 psi*		8			4 to 20 mA		4
Unit of pressure		Substitute	<div style="display: flex; justify-content: space-around;"> <div style="text-align: right;">←</div> <div style="text-align: left;">→</div> </div>		Port size		Substitute
Bar output		B			G1/8		G
PSI output		P			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.

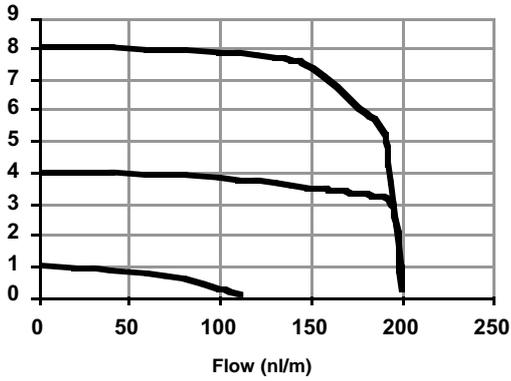
**System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.**

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

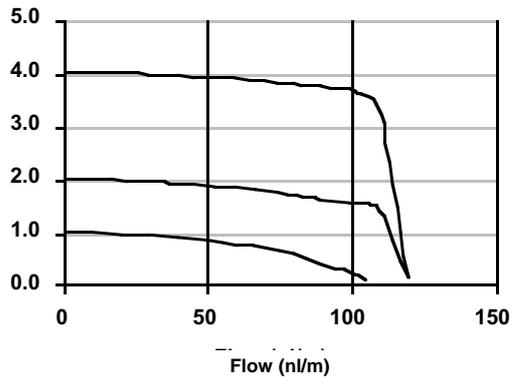


### Characteristic curves

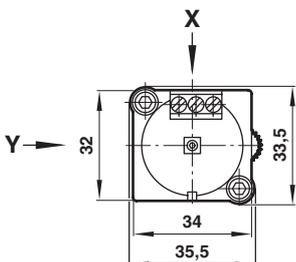
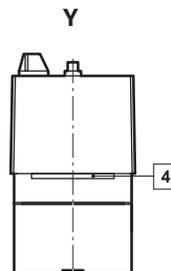
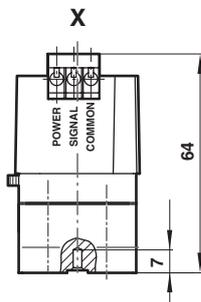
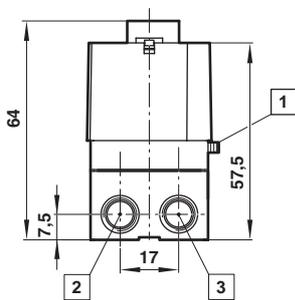
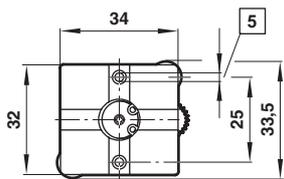
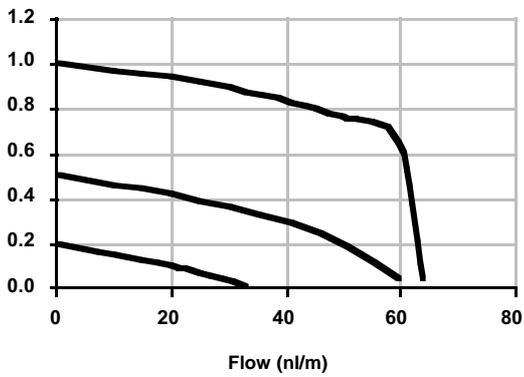
9,5 bar supply



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