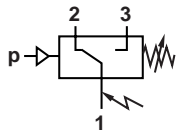


# Herion 18D

## Pneumatic pressure switches (diaphragm type)

Vac - 435 psi



DIN 43650

**Adjustable setpoint**

**Gold-plated contacts**

**Vibration resistant to 15 g**

**Microswitch approved by UL and CSA**

### Technical data

Medium

Neutral, gaseous and liquid fluids

Operation

Diaphragm

Mounting position

Optional

Operating pressure

Vac to 435 psi

Over pressure

1150 psi

Ambient temperature

-14°F to 175°F (-10°C to + 80°C)

Viscosity

Up to 1000 mm<sup>2</sup>/s (±450 ssu).

Fluid temperature

-14°F to 175°F (-10°C to +80°C)

Repeatability

±3%, for vacuum ±4%

Electrical connection

DIN 43 650

Switching element

Microswitch

Degree of protection

IP 65

Weight

.4 lbs (0.2 kg)

Materials

Housing: aluminum

Seals: Perbunan, Viton

'O'-ring: NBR



### Model numbers - pneumatic/lubrication applications

| Port size | Type   | Pressure range psi (bar) |           | Switching pressure difference psi* (bar) |             | Model   | Drawing |
|-----------|--------|--------------------------|-----------|--|-------------|---------|---------|
|           |        |                          |           | lower range                              | upper range |         |         |
| 1/4 NPT   | Female | -14 - 0                  | (-1 - 0)  | 2 (0.15)                                 | 3 (0.18)    | 0880120 | 1       |
| -         | Flange | -14 - 0                  | (-1 - 0)  | 2 (0.15)                                 | 3 (0.18)    | 0881100 | 3       |
| 1/4 NPT   | Female | 3 - 30                   | (0.2 - 2) | 2 (0.15)                                 | 4 (0.27)    | 0880220 | 1       |
| -         | Flange | 3 - 30                   | (0.2 - 2) | 2 (0.15)                                 | 4 (0.27)    | 0881200 | 3       |
| 1/4 NPT   | Female | 7 - 120                  | (0.5 - 8) | 4 (0.2)                                  | 9 (0.65)    | 0880320 | 2       |
| -         | Flange | 7 - 120                  | (0.5 - 8) | 4 (0.2)                                  | 9 (0.65)    | 0881300 | 3       |
| 1/4 NPT   | Female | 15 - 230                 | (1 - 16)  | 4 (0.2)                                  | 13 (0.90)   | 0880420 | 2       |
| -         | Flange | 15 - 230                 | (1 - 16)  | 4 (0.2)                                  | 13 (0.90)   | 0881400 | 3       |
| 1/4 NPT   | Female | 15 - 435                 | (1 - 30)  | 15 (1.0)                                 | 75 (5.0)    | 0880620 | 2       |

Note: Switches are supplied with DIN 43650 mating connector.

\* Switching pressure difference (hysteresis) is not adjustable. Typical valves are shown.

Caution: Observe switching range. Do not subject switch to maximum allowable pressure during normal operation. Even short pressure peaks must not exceed this value.

# Herion 18D

## Pneumatic pressure switches

Vac - 435 psi

### Making And/Or Breaking Capacity

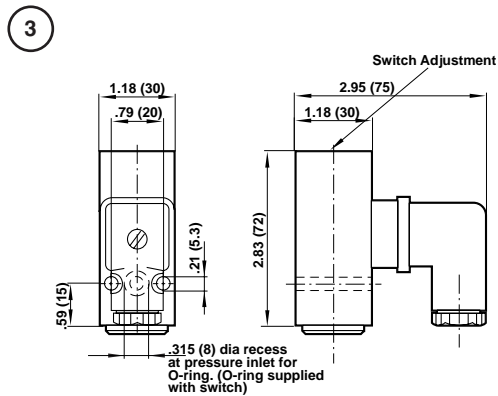
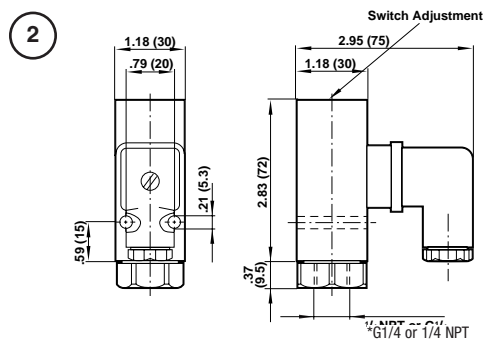
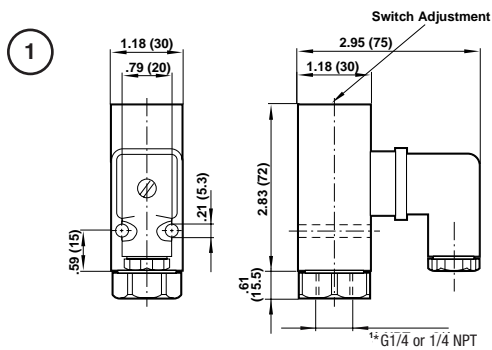
| Load Level*                  | Type of Current | Type of Load             | Vmin [V] | Maximum Permanent Current Imax [A] at V |       |       | Contact life                         |   |
|------------------------------|-----------------|--------------------------|----------|---|-------|-------|--------------------------------------|---|
|                              |                 |                          |          | 24 V                                    | 125 V | 250 V | electrical at Imax                   | mechanical at I = 0                     |
| Standard (relays, solenoids) | AC              | Resistive                | 12       | 5                                       | 5     | 5     | 5 x 10 <sup>4</sup> switching cycles | approx 10 <sup>7</sup> switching cycles |
|                              | AC              | Inductive<br>PF = .7     | 12       | 3                                       | 3     | 3     |                                      |   |
|                              | DC              | Resistive                | 12       | 5                                       | .4    | -     |                                      |   |
|                              | DC              | Inductive<br>L/R = 10 ms | 12       | 3                                       | .05   | -     |                                      |   |
| Low (electronic circuits)    | AC              | Resistive                | 5        | .34                                     | .08   | .04   | 2 x 10 <sup>5</sup> switching cycles | approx 10 <sup>7</sup> switching cycles |
|                              | DC              | Inductive<br>L/R = 10 ms | 5        | .1                                      | -     | -     |                                      |   |

#### \*Load Level Explanation

Series 18D Pressure Switches have microswitch contacts with gold-plating over silver base metal. The gold plating remains intact when "low level" voltage / current levels are observed. This feature assures highly reliable switching in low-level electronic circuits. Standard applications do not require the gold plating – which will decay naturally when switching larger electrical loads.

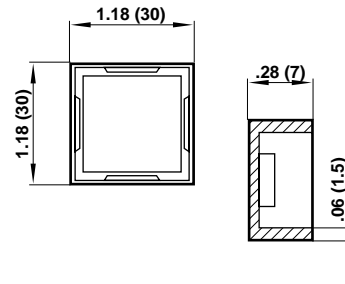
#### Notes:

1. Reference conditions: 30 cycles per min and 86°F (30°C) ambient.
2. Reducing load current to 50% of I max approximately doubles contact life.
3. Creepage and clearance distances correspond to insulation group B per VDE Reg. 0110 (except contact clearance of microswitch).



#### Protective Cover

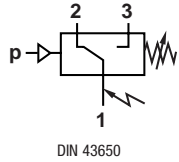
An optional elastomer cover for protection of the switch adjustment against dirt and splashing liquids Part No. 0554737



# Herion 18D

## Hydraulic pressure switches (piston type)

70 to 6100 psi



- Adjustable setpoint
- Gold-plated contacts
- Vibration resistant to 15 g
- Microswitch approved by UL and CSA

### Technical data

- Medium
- Hydraulics, lubricating and light fuel oils
- Operation
- Piston
- Mounting position
- Optional
- Operating pressure
- 70 to 6100 psi
- Over pressure
- 5800 psi,
- 08824xx: 8700 psi
- Ambient temperature
- 4°F to 175°F (-20°C to +80°C)
- Viscosity
- Up to 1000 mm<sup>2</sup>/s (±450 ssu).
- Fluid temperature
- 4°F to 175°F (-20°C to +80°C)
- Repeatability
- ±3%
- Electrical connection
- DIN 43 650
- Switching element
- Microswitch
- Degree of protection
- IP 65
- Weight
- .2 lbs (0.2 kg)
- Materials
- Housing aluminum
- Port: stainless steel
- Seals: Teflon/Buna-N



### Model numbers - hydraulic applications

| Port Size   | Type   | Pressure Range<br>psi (bar) | Switching Pressure<br>Difference (Hysteresis)*<br>psi (bar) |                | Model   | Dimension<br>Drawing No. |
|-------------|--------|-----------------------------|---|----------------|---------|--------------------------|
|             |        |                             | Lower<br>Range  | Upper<br>Range |         |                          |
| -           | flange | 70 – 1015 (5 – 70)          | 152 (10.5)  | 218 (15)       | 0883100 | 2                        |
| 7/16-20 UNF | female | 70 – 1015 (5 – 70)          | 152 (10.5)  | 218 (15)       | 0882119 | 1                        |
| 1/4 NPT     | female | 70 – 1015 (5 – 70)          | 152 (10.5)  | 218 (15)       | 0882120 | 1                        |
| -           | flange | 150 – 2320 (10 – 160)       | 160 (11)  | 247 (17)       | 0883200 | 2                        |
| 7/16-20 UNF | female | 150 – 2320 (10 – 160)       | 160 (11)  | 247 (17)       | 0882219 | 1                        |
| 1/4 NPT     | female | 150 – 2320 (10 – 160)       | 160 (11)  | 247 (17)       | 0882220 | 1                        |
| -           | flange | 360 – 3600 (25 – 250)       | 160 (11)  | 247 (17)       | 0883300 | 2                        |
| 7/16-20 UNF | female | 360 – 3600 (25 – 250)       | 160 (11)  | 247 (17)       | 0882319 | 1                        |
| 1/4 NPT     | female | 360 – 3600 (25 – 250)       | 160 (11)  | 247 (17)       | 0882320 | 1                        |
| -           | flange | 580 – 6100 (40 – 420)       | 247 (17)  | 508 (35)       | 0883400 | 2                        |
| 7/16-20 UNF | female | 580 – 6100 (40 – 420)       | 247 (17)  | 508 (35)       | 0882419 | 1                        |
| 1/4 NPT     | female | 580 – 6100 (40 – 420)       | 247 (17)  | 508 (35)       | 0882420 | 1                        |

Note: Switches are supplied with DIN 43650 mating connector  
 \* Switching pressure difference (hysteresis) is not adjustable. Maximum values are shown.

# Herion 18D

## Hydraulic pressure switches

Vac - 435 psi

### Making And/Or Breaking Capacity

| Load Level*                  | Type of Current | Type of Load             | Vmin [V] | Maximum Permanent Current I <sub>max</sub> [A] at V |       |       | Contact life                         |   |
|------------------------------|-----------------|--------------------------|----------|---|-------|-------|--------------------------------------|---|
|                              |                 |                          |          | 24 V  | 125 V | 250 V | electrical at I <sub>max</sub>       | mechanical at I = 0                     |
| Standard (relays, solenoids) | AC              | Resistive                | 12       | 5   | 5     | 5     | 5 x 10 <sup>4</sup> switching cycles | approx 10 <sup>7</sup> switching cycles |
|                              | AC              | Inductive<br>PF = .7     | 12       | 3   | 3     | 3     |                                      |   |
|                              | DC              | Resistive                | 12       | 5   | .4    | -     |                                      |   |
|                              | DC              | Inductive<br>L/R = 10 ms | 12       | 3   | .05   | -     |                                      |   |
| Low (electronic circuits)    | AC              | Resistive                | 5        | .34   | .08   | .04   | 2 x 10 <sup>5</sup> switching cycles | approx 10 <sup>7</sup> switching cycles |
|                              | DC              | Inductive<br>L/R = 10 ms | 5        | .1  | -     | -     |                                      |   |

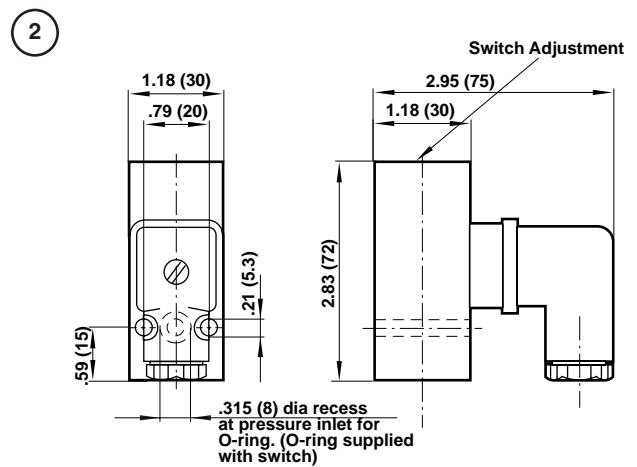
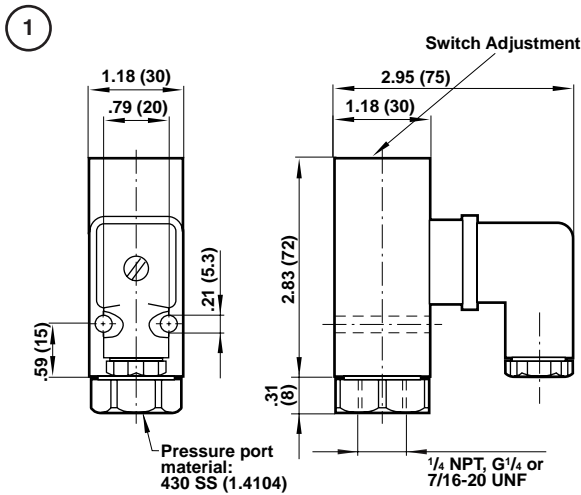
#### \*Load Level Explanation

Series 18D Pressure Switches have microswitch contacts with gold-plating over silver base metal. The gold plating remains intact when "low level" voltage / current levels are observed. This feature assures highly reliable switching in low-level electronic circuits.

Standard applications do not require the gold plating – which will decay naturally when switching larger electrical loads.

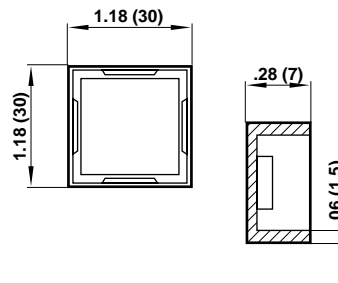
#### Notes:

1. Reference conditions: 30 cycles per min and 86°F (30°C) ambient.
2. Reducing load current to 50% of I<sub>max</sub> approximately doubles contact life.
3. Creepage and clearance distances correspond to insulation group B per VDE Reg. 0110 (except contact clearance of microswitch).



#### Protective Cover

An optional elastomer cover for protection of the switch adjustment against dirt and splashing liquids Part No. 0554737



# Herion 33D Series

## Solid state switches (pneumatic / all-fluid)

Vac to 9100 psi

Real time pressure display with backlight

Compact and robust design

Easy programming of set points and additional functions

Transistor output signals 1 x PNP, 2 x PNP, or 1 x PNP + 4 to 20 mA

Electronic lock

Switching status indicated by LED

Standard M12x1 electrical connection (IP 65)

For pneumatic, all fluid and hydraulic applications

### Technical data

Medium

Pneumatic types: compressed air or neutral gases

All fluid types: gasses or liquids, including aggressive

### Display

LCD 4 digits illuminated, pressure unit programmable for bar, psi, mpa

### Mounting position

Optional

### Operating pressure

Vac to 230 psi (pneumatic)

0 to 9100 psi (hydraulic/allfluid)

### Temperature sensitivity (zero point)

0.4% of final value/10 K

### Temperature sensitivity (range)

0.4% FS/10 K

### Ambient temperature

14°F to 140°F (-10°C to 60°C)

### Fluid temperature

14°F to 75°F (-10°C to 80°C)

### Switching point

Adjustable between 0 and 100% FS

### Reset point

Adjustable between 0 and 100% FS

### Electrical connection

M12 x 1

### Linearity

< 0.2% FS ±1 digit

Degree of protection to DIN 40 050

IP 65 (with mounted plug)

### Materials

Housing: aluminum

Pneumatic version

Seal : viton O-ring (FKM)

Sensor: silicon

Hydraulic/All fluid version

Porting block / sensor: 316 SS welded



Model number - standard pneumatic models\*

| Port size | Measuring range (psi) (relative pressure) | Maximum overpressure (psi) | Output signal     | Model   |
|-----------|---|----------------------------|-------------------|---------|
| 1/4 NPT   | Vac-15                                    | 145                        | 1 x PNP           | 0863014 |
| Flange    | Vac-15                                    | 145                        | 1 x PNP           | 0863016 |
| 1/4 NPT   | Vac-15                                    | 145                        | 2 x PNP           | 0863024 |
| Flange    | Vac-15                                    | 145                        | 2 x PNP           | 0863026 |
| 1/4 NPT   | Vac-15                                    | 145                        | 1 x PNP / 4-20 mA | 0863044 |
| Flange    | Vac-15                                    | 145                        | 1 x PNP / 4-20 mA | 0863046 |
| 1/4 NPT   | 0 - 230                                   | 435                        | 1 x PNP           | 0863214 |
| Flange    | 0 - 230                                   | 435                        | 1 x PNP           | 0863216 |
| 1/4 NPT   | 0 - 230                                   | 435                        | 2 x PNP           | 0863224 |
| Flange    | 0 - 230                                   | 435                        | 2 x PNP           | 0863226 |
| 1/4 NPT   | 0 - 230                                   | 435                        | 1 x PNP / 4-20 mA | 0863244 |
| Flange    | 0 - 230                                   | 435                        | 1 x PNP / 4-20 mA | 0863246 |

\* M12 x 1 connector not included. Please see table on next page.

### Options selector

| Pressure range (pneumatic) | Substitute | Fluid/electrical connection | Substitute |
|----------------------------|------------|-----------------------------|------------|
| Vac-15 psi                 | 0          | 3/4, M12 x 1                | 2          |
| 0 - 230 psi                | 2          | 1/4 NPT, M12 x 1            | 4          |
|                            |            | Flange, M12 x 1             | 6          |

| Pressure range (allfluid) | Substitute | Output signal             | Substitute |
|---------------------------|------------|---------------------------|------------|
| 0 - 145 psi               | 1          | 1 digital out             | 1          |
| 0 - 580 psi               | 3          | 2 digital out             | 2          |
| 0 - 1450 psi              | 4          | 1 digital out/4 - 20 mA** | 4          |
| 0 - 2300 psi              | 5          |                           |            |
| 0 - 3600 psi              | 6          |                           |            |
| 0 - 5800 psi              | 7          |                           |            |
| 0 - 9100 psi              | 8          |                           |            |

\*\* 4-20 mA option not available on flange mounted versions.

# Herion 33D Series

Solid state pressure switches (pneumatic / all-fluid)

Vacuum to 9100 psi

## Electrical parameters

|                             |   |
|-----------------------------|---|
| Electrical connection       | M12 x 1   |
| Power supply                | 10 – 32 V d.c. (polarity safe) digital models<br>15 – 32 V d.c. (polarity safe) analog models |
| Permissible residual ripple | 10% (within 12 to 32 V)   |
| Current consumption         | <50 mA (plus load current)  |

## Electromagnetic compatibility

|                       |                                |
|-----------------------|--------------------------------|
| Interference emission | Conforming to EN 50081. Part 1 |
| Interference immunity | Conforming to EN 50082. Part 2 |

## Electrical connection M12 x 1

| Pin | Signal                         | Cable |
|-----|--------------------------------|-------|
| 1   | Supply voltage                 | Brown |
| 2   | Out 2 (PNP) / analog 4 – 20 mA | White |
| 3   | Common                         | Blue  |
| 4   | Out 1 (PNP)                    | Black |
| 5   | Earth ground                   | Grey  |

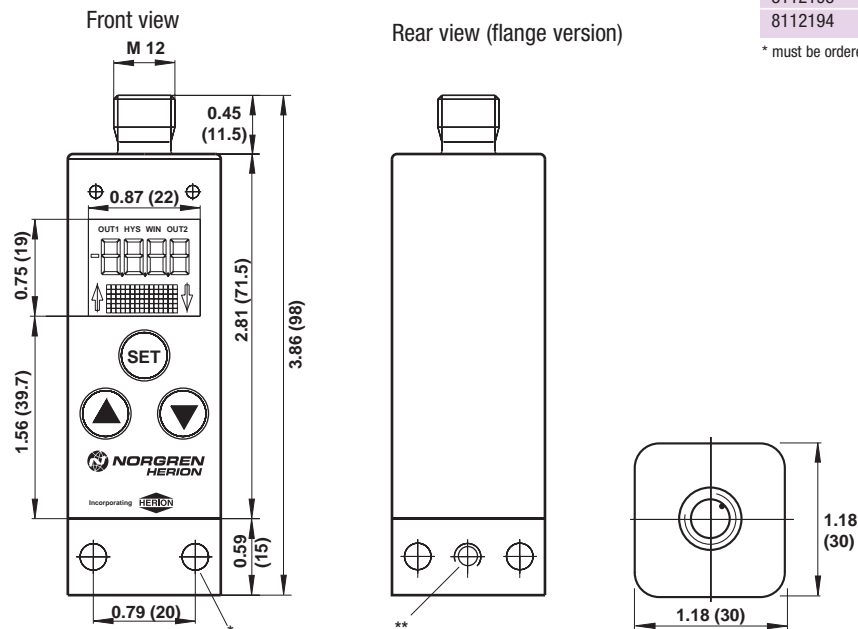
## Switching output

|                 |   |
|-----------------|---|
| Switching mode  | PNP sourcing type transistor, suitable for inductive load                     |
| Output voltage  | Supply voltage -1.5 V   |
| Analog output   | 4 – 20mA  |
| Contact rating  | I <sub>max</sub> = 500 mA (short-circuit proof)                               |
| Switching time  | < 10 ms   |
| Damping         | 5 ms – 0.64 sec programmable  |
| Signal delay:   | On/off 0 to 20 sec programmable   |
| Service life    | min. 100 million switching cycles   |
| Switching logic | n.o. / n.c. programmable  |
| Operating mode  | Standard, hysteresis and window mode<br>Separately selectable for each output |

## Accessories

| Part number | Connectors and cordsets (M12 x 1)*                          |
|-------------|---|
| 8112184     | Mating connector 5-pin straight w/screw terminals, no cable |
| 8112193     | Molded cordset 5-pin straight w/2m cable                    |
| 8112194     | Molded cordset 5-pin 90° w/2m cable                         |

\* must be ordered separately

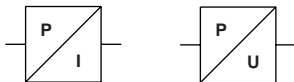


\* Suitable for M 5 x 35 or 10-24 screws

\*\* Flange diameter 8 x 1.2 deep, O-ring 4.47 x 1.78 (Viton 90)

# Herion 18S Allfluid Series

Analog pressure sensor for hydraulic / all-fluid applications, 0 - 11,600 psi



**Robust sensor for hydraulic applications**

**Temperature compensated**

**3-wire technology (0 to 10 V)**

**2-wire technology (4 to 20 mA)**

**Excellent long-term stability**

**Stainless steel measuring element - not oil-filled**

## Technical data

Medium

For neutral and aggressive gases or fluids

Fluid connection

1/4 NPT male

Mounting position

Optional

Pressure range

0 to 11,600 psi

Fluid temperature:

-4°F to 185°F (-20°C to +85°C)

Ambient temperature

-4°F to 185°F (-20°C to +85°C)

Degree of protection

IP 65 (acc. to DIN 40050)

Shock protection

30g, to DIN EN 60068-2-27

Vibration protection

3g, 5 to 500 Hz, xyz, DIN EN 60068-2-6

Electrical connection

M12 x 1

Supply voltage

U<sub>B</sub> = 12 to 30 V d.c. (current output)

U<sub>B</sub> = 15 to 30 V d.c. (voltage output)

Output signal

4 to 20 mA (Two-wire technology)

0 to 10 V (Three-wire technology)

Electromagnetic compatibility

Interference immunity acc. to EN 50081. Part 1

Interference immunity acc. to EN 50082. Part 2

Load resistance

See diagram

Polarity

Short-circuit proof

Measuring range

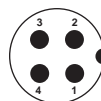
See table below

## Standard models\*

| Model   | Measuring range (psi)<br>(Relative pressure)** | Value max. (bar)<br>(Over pressure) | Output signal |
|---------|--|-------------------------------------|---------------|
| 0862178 | 0 - 145  | 580                                 | 4 - 20 mA     |
| 0862188 | 0 - 145  | 580                                 | 0 - 10 V      |
| 0862378 | 0 - 360  | 725                                 | 4 - 20 mA     |
| 0862388 | 0 - 360  | 725                                 | 0 - 10 V      |
| 0862478 | 0 - 1450                                       | 2900                                | 4 - 20 mA     |
| 0862488 | 0 - 1450                                       | 2900                                | 0 - 10 V      |
| 0862678 | 0 - 3625                                       | 7250                                | 4 - 20 mA     |
| 0862688 | 0 - 3625                                       | 7250                                | 0 - 10 V      |
| 0862778 | 0 - 5800                                       | 10,800                              | 4 - 20 mA     |
| 0862788 | 0 - 5800                                       | 10,800                              | 0 - 10 V      |
| 0862978 | 0 - 11,600                                     | 14,500                              | 4 - 20 mA     |
| 0862988 | 0 - 11,600                                     | 14,500                              | 0 - 10 V      |

\* Order mating connector separately

## Electrical connection M 12 x 1 (4 pin)



| Signal        | 4 ... 20 mA | 0 ... 10 V | Frequency |
|---------------|-------------|------------|-----------|
| + UB (supply) | 1           | 1          |           |
| Common        | -           | 3          |           |
| Signal        | 4           | 4          |           |

## Options selector

0862★★8

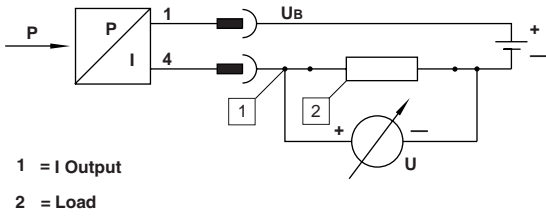
| Measuring range relative pressure | Code |
|-----------------------------------|------|
| 0 to 145 psi                      | 1    |
| 0 to 360 psi                      | 3    |
| 0 to 1450 psi                     | 4    |
| 0 to 3625 psi                     | 6    |
| 0 to 5800 psi                     | 7    |
| 0 to 11,600 psi                   | 9    |

| Output signal | Code |
|---------------|------|
| 4 to 20 mA    | 7    |
| 0 to 10 V     | 8    |

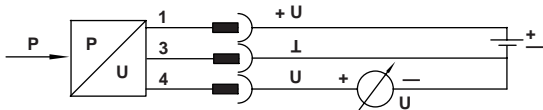
# Herion 18S

Pressure sensor analog  
0 to 11,600 psi

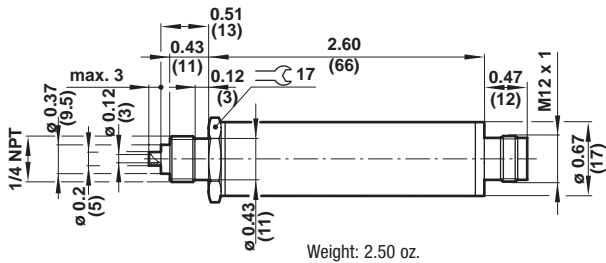
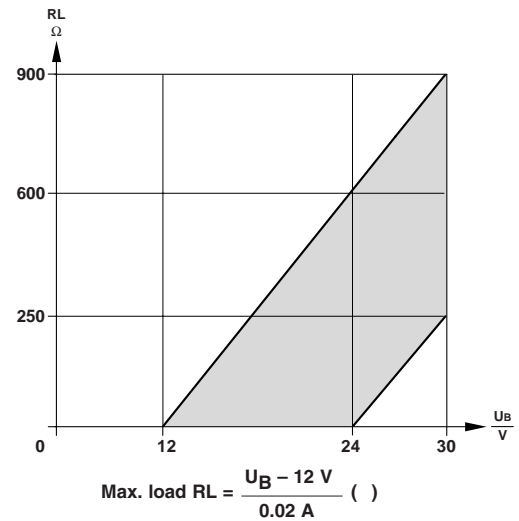
Electrical diagram for 2-wire versions 4 to 20 mA



Electrical diagram for 3-wire versions 0 to 10 V



Characteristic load curve



## Accessories

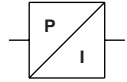
| Part number | Connector and cordsets (M12 x 1)                             |
|-------------|--|
| 0523055     | mating connector, 4-pin straight w/screw terminals, no cable |
| 0523057     | molded cordset, 4-pin straight, 2 meter                      |
| 0523052     | molded cordset, 4-pin straight, 5 meter                      |
| 0523058     | molded cordset, 4-pin 90°, 2 meter                           |
| 0523053     | molded cordset, 4-pin 90°, 5 meter                           |



# Herion 18S Pneumatic Series

Analog pressure sensor for pneumatic applications

-14.5 to 360 psi



Temperature compensated

Robust design for pneumatic and industrial applications

## Technical data

Medium:

Filtered compressed air, lubricated or unlubricated, neutral gases

Mounting

Optional

Operating pressure

1.4 to 363 psi (-1 to 25 bar)

Fluid temperature

14°F to 185°F (-10°C to +85°C)

Ambient temperature

14°F to 185°F (-10°C to +85°C)

Degree of protection

IP 65

Electrical connection

DIN 43 650 or M12 x 1 short-circuit protected

Output signal

4 to 20 mA (Two-wire technology)

Linearity

< ±0.5% final scale

Hysteresis

< 0.15%

Temperature sensitivity

(zero point)

Zero point < ± 0.4% FS/10K

Range < ± 0.2% FS/10K

Weight:

0.3 oz. (0.15 kg)

Materials

Housing: aluminum

Sensor: Silicon

O-rings: NBR

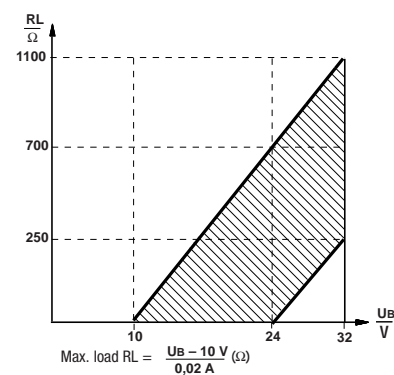


## Model numbers\*

| Port size | Measuring range (bar)<br>(Relative pressure) | Value max. (bar)<br>(Over pressure) | Model DIN 43650 | Model M12x1* |
|-----------|--|-------------------------------------|-----------------|--------------|
| 1/4 NPT   | -14.5 to 14.5                                | 145                                 | 0862083         | 0862084      |
| Flange    | -14.5 to 14.5                                | 145                                 | 0862085         | 0862086      |
| 1/4 NPT   | 0 to 145                                     | 435                                 | 0862183         | 0862184      |
| Flange    | 0 to 145                                     | 435                                 | 0862185         | 0862186      |
| 1/4 NPT   | 0 to 360                                     | 580                                 | 0862383         | 0862384      |
| Flange    | 0 to 360                                     | 580                                 | 0862385         | 0862386      |

\* M12 x 1 connector not included. Please see table below.

Characteristic curve of load



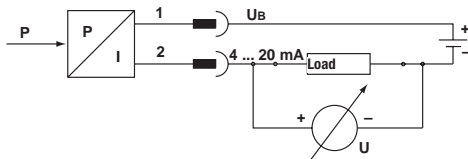
# Herion 18S

Pressure sensor analog

-1 to 25 bar

## Electrical connection

| DIN 43650 |                    | M12 x 1 |                    |
|-----------|--------------------|---------|--------------------|
| Pin       | Wiring             | Pin     | Wiring             |
| 1         | + UB               | 1       | + UB               |
| 2         | Signal 4 ... 20 mA | 4       | Signal 4 ... 20 mA |

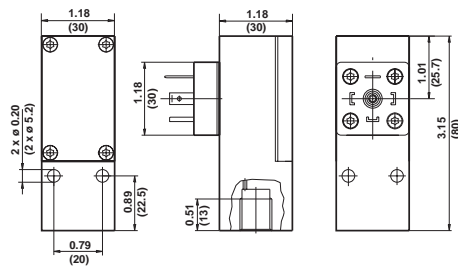


## Accessories

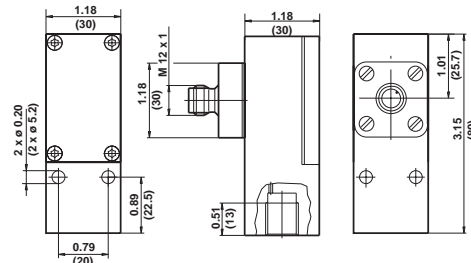
### Connector cordsets (M12 x 1)

| Model   | Description                |
|---------|----------------------------|
| 0523055 | Straight, without cable    |
| 0523057 | Straight, 2 m cable, 4-pin |
| 0523052 | Straight, 5 m cable, 4-pin |
| 0523058 | 90° 2 m cable, 4-pin       |
| 0523053 | 90° 5 m cable, 4-pin       |

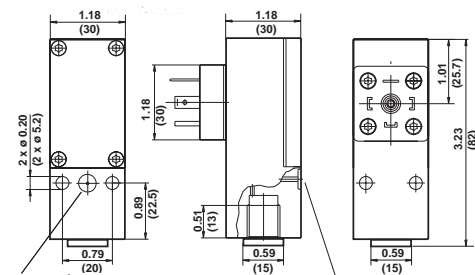
### DIN 43650 ¼ NPT



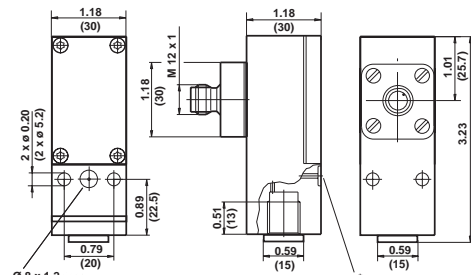
### M12 x 1 ¼ NPT



### Flange



### Flange

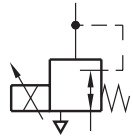


\* O-ring 5 x 1.5

# VP40 Series

3-way proportional pressure control valves

1/8, 1/4, and 3/8"



- Low hysteresis**
- Good repeatability**
- High flow capacity at exhaust**
- Manifold mountable**
- Compact design**

### Technical data

Medium:

Compressed air, filtered to 40 µm, lubricated or unlubricated

Mounting position:

Any, preferably vertical

Flow direction:

Fixed

Ambient temperature:

14°F to 104°F (-10°C to +40°C)

Hysteresis:

< 3% FS\*

Repeatability:

< 1% FS\*

Linearity:

See characteristic curves

Response sensitivity:

1% FS\*

\* at 20°C

Degree of protection:

IP 65 with connector

Materials

Body: aluminum alloy

Seals: NBR



| Orifice (mm) | Port size | Outlet pressure P2 (psi) | Maximum inlet pressure P1 (psi) | Rated current (mA) | Model        |
|--------------|-----------|--------------------------|---------------------------------|--------------------|--------------|
| 4            | 1/8 NPT   | 0 to 145                 | 145                             | 0 to 1600 (1800)   | 4088119.7053 |
| 4            | 1/8 NPT   | 0 to 190                 | 230                             | 0 to 1600 (1800)   | 4088217.7053 |
| 6            | 1/4 NPT   | 0 to 30                  | 100                             | 0 to 1600 (1800)   | 4088201.7053 |
| 6            | 1/4 NPT   | 0 to 145                 | 175                             | 0 to 1600 (1800)   | 4088211.7053 |
| 8            | 3/8 NPT   | 0 to 100                 | 145                             | 0 to 1600 (1800)   | 4088311.7071 |



### Drive electronics pQ11

| Model   | Rated current mA | Type of connection               | Remarks                          |
|---------|------------------|----------------------------------|----------------------------------|
| 5980081 | 0 to 2400        | Connector according to DIN 43651 | Suitable for 4088xxx.xxxx valves |
| 5980085 | 0 to 2400        | 2 m cable                        | Suitable for 4088xxx.xxxx valves |



### Drive electronics pQ12

| Model   | Rated current mA | Remarks                          |
|---------|------------------|----------------------------------|
| 5980126 | 0 to 2400        | Suitable for 4088xxx.xxxx valves |

### Electrical information for proportional solenoids

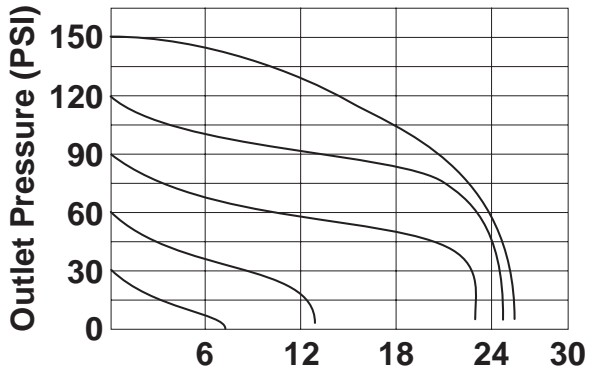
| Nominal diameter | Limiting current IN | Rated power PN | Resistance R20 | Duty cycle |
|------------------|---------------------|----------------|----------------|------------|
| 4, 6 & 8         | 1600 mA             | 22 W           | 6.5 ohms + 3%  | 100%       |

# VP40 Series

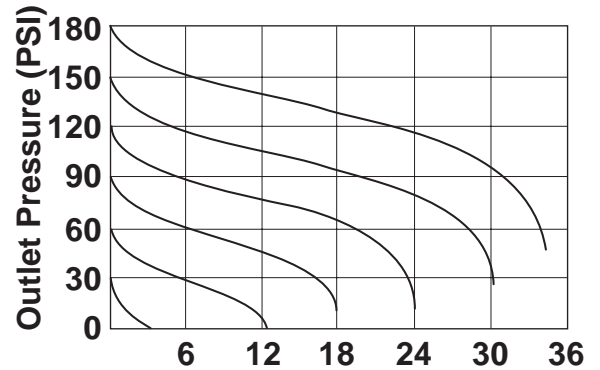
3-way proportional pressure control valves

NPT 1/8, NPT 1/4, NPT 3/8,

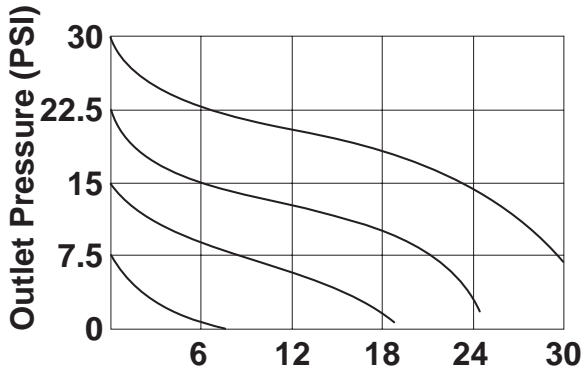
## Characteristic curves



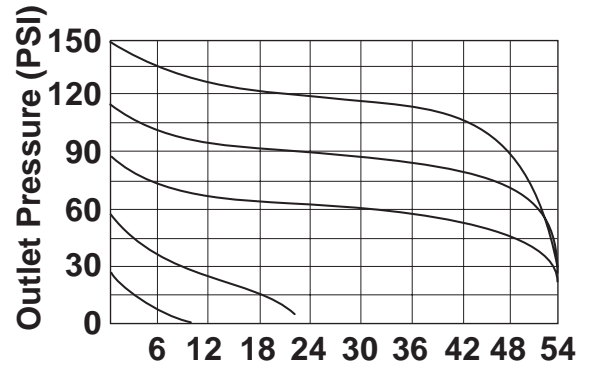
Flow (SCFM)  
Fig. 3 Valve 40-881-19



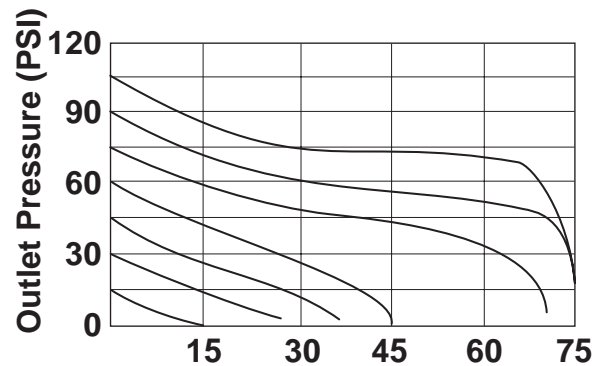
Flow (SCFM)  
Fig. 4 Valve 40-882-17



Flow (SCFM)  
Fig. 5 Valve 40-882-01



Flow (SCFM)  
Fig. 6 Valve 40-882-17



Flow (SCFM)  
Fig. 8 Valve 40-883-11

# VP60

## 5/3 Proportional flow control valve (nominal dia. 8 mm)

Directly operated spool valve with  $\mu$ P-electronics

### Microprocessor control electronics

High dynamic regulation

On-board diagnostics

CE conformance

### Technical data

Medium

Filtered unlubricated air.

Note: Using lubricated air may affect dynamic response and lifespan of the valve.

Filtration

Recommended 5 $\mu$

Operation

Moving coil

Connection

1/4 NPT and G1/4"

Flow rate

40 scfm (1200 l/min)

for p1: 90 psi and p2: 75 psi

Mounting position

Any, preferred solenoid on top

Flow direction

1 $\rightarrow$ 4+2 $\rightarrow$ 3; 1 $\rightarrow$ 2+4 $\rightarrow$ 5

Operating temperature: 32°F to 140°F (0°C to 60°C)

No condensation permissible

Materials

Electronic housing: plastic (PAA)

valve housing: aluminum alloy

seals: NBR

solenoid surface: steel

Degree of protection

IP65

Operating pressure [p1]

0 to 175 psi

Leakage

For center position 35 scfh with p1: 145 psi

Reaction time

At p1 = 90 psi and 100% stroke free exhausting:

Dead time: 3 ms

Rise time (10% - 90%): 5ms

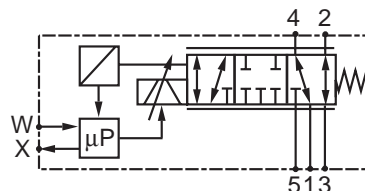
Electromagnetic compatibility

The valve conforms to the EC requirements EN50081-2 (emission) and EN50082-2 (disturbance noise).

For this specification shielded cables have to be used.



Symbol



### Electrical information

| Power supply requirements                      |             |               |
|--|-------------|---------------|
| Supply voltage                                 | $U_B$ [VDC] | 18...32       |
| Current consumption with max. stroke 50 Hz (A) |             | 2.0 at 24 VDC |
| Current consumption in steady state [A]        |             | 0.1 at 24 VDC |

### Input signal

| Analog (single ended types) |                     |            |
|-----------------------------|---------------------|------------|
| Voltage signal              | $U_E$ [V]           | 0...10     |
| Input resistance            | $R_i$ [k $\Omega$ ] | 110        |
| Current signal              | $I_E$ [mA]          | (0) 4...20 |
| Load resistance             | [ $\Omega$ ]        | 500        |

| Analog (differential types) |                     |                   |
|-----------------------------|---------------------|-------------------|
| Voltage signal              | $U_E$ [V]           | 0...10<br>-5...+5 |
| Input resistance            | $R_i$ [k $\Omega$ ] | 110               |
| max. Input voltage range    | [V]                 | -10...40          |

### Output signal

| Spool position feedback (voltage) |            |                              |
|-----------------------------------|------------|------------------------------|
| Voltage signal slide position     | $U_A$ [V]  | 0...10 V = min...max. stroke |
| Max. output current               | $I_A$ [mA] | 1                            |

| Spool position feedback (current) |                    |                               |
|-----------------------------------|--------------------|-------------------------------|
| Current signal slide position     | $I_A$ [mA]         | 0...20 mA = min...max. stroke |
| Load resistance                   | $R_L$ [ $\Omega$ ] | recommended 500               |

# VP60

## 5/3 Proportional control valve

Directly operated spool valve with  $\mu$ P-electronic position control

### Order information

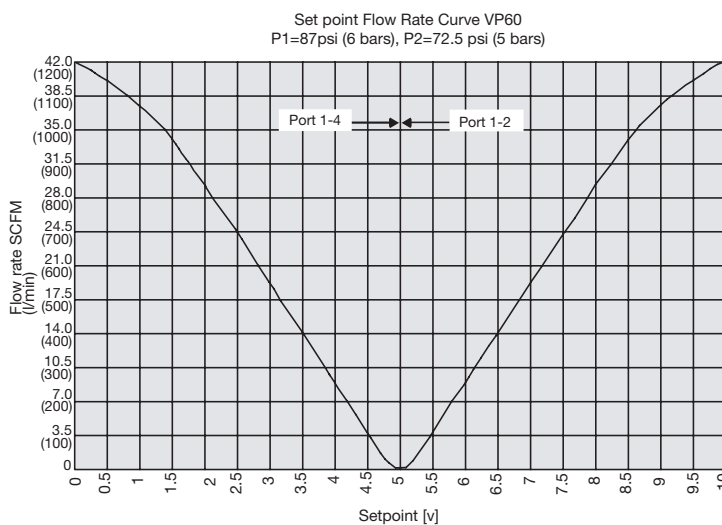
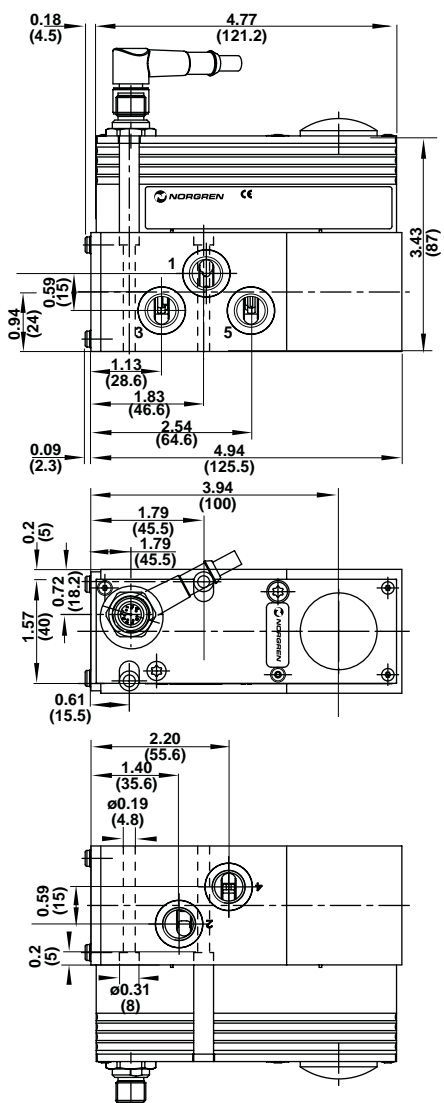
| VP Proportional valve | 60 Family code | xx Flow range | x Unit            | x Port size                    | x Input signal*  | x Feedback**               | x Power supply | x Electrical connector | xxxx Options      |
|-----------------------|----------------|---------------|-------------------|--------------------------------|--|----------------------------|----------------|------------------------|-------------------|
| VP                    | 60             | 10 = 1000     | L = liter/<br>min | J = G 1/4"<br>K = G 1/4<br>NPT | 1 = 0-10V<br>4 = 4-20- mA<br>6 = -5V to +5V<br>7 = 0-10V | 6 = 0-10V<br>and<br>4-20mA | 1 = required   | M = M12 x 1<br>8-pin   | 0000 = no options |

\*Input signal codes 6 and 7 are differential input versions.

\*\* Both 0-10V and 4-20 mA feedback signals are available simultaneously.

### Accessories

| Description | Specification                 | Type    |
|-------------|-------------------------------|---------|
| cordset     | M12 x 1, 8-pin, 5m, straight  | 0250811 |
| cordset     | M12 x 1, 8-pin, 5m, 90° angle | 0250813 |



# VP10

## Electronic Pressure Regulator

**Reliable, rugged proportional I/P and E/P converters**

**Suitable for a wide range of applications**

**Excellent accuracy**

**High flow versions**

**NEMA4 environmental protection in normal operation**

### Technical data

**Medium:**

Oil free, dry air, filtered to 5 micron

**Output pressure:**

3-15 psig (0.2-1.0 bar), 3-30 psig (0.2-2.0 bar), 3-60 psig (0.2-4.0 bar), 2-120 psig (0.14-8 bar) three wire version

**Flow capacity:**

Up to 10 scfm (300 l/min)

**Air consumption**

<60 psig (<4 bar): 0.03 scfm (0.85 l/min) typical

>60 psig (>4 bar): 0.06 scfm (1.75 l/min) typical

**Operating pressure:**

At least 10 psig (0.7 bar) above maximum required output pressure

**Connections:**

NPT 1/4" or 1/4" ISO G available

**Operating temperature:**

-4° to 160°F (-20°C to 70°C)

**Response time**

<30 psig (<2 bar): less than 0.5 seconds for 10-90% step change

>30 psig (>2 bar): 2 seconds for 10-90% step change

**Total error:**

±0.5% of span (typical, independent error includes the combined effect of non-linearity, hysteresis, deadzone and repeatability)

**Temperature effect:**

Typically 0.1% of span/°F for span and zero over operating range

**Supply sensitivity:**

>0.025% span output change per % supply pressure change

**Failure mode:**

Signal falls to bleed pressure when electrical supply fails

**Mounting:**

Integral surface mounting bracket provided for preferred vertical mounting. 50 mm pipe mounting kit available

**Material of construction:**

Zinc die-casting passivated and epoxy paint, nitrile diaphragms, stainless steel/nylon flapper nozzle and supply valve

Mass: 3.3 lbs (1500g) approx.



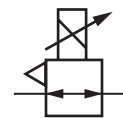
| Part Number    | Pressure range and input signal options |                       |             |              |
|----------------|---|-----------------------|-------------|--------------|
|                | Control signal                          | Output pressure       | Calibration | Thread form* |
| VP1001PK100A00 | 0-10 V                                  | 3-15 psi (0.2-1 bar)  | PSIG        | 1/4" NPT     |
| VP1001PK400A00 | 4-20 mA                                 | 3-15 psi (0.2-1 bar)  | PSIG        | 1/4" NPT     |
| VP1002PK100A00 | 0-10 V                                  | 3-30 psi (0.2-2 bar)  | PSIG        | 1/4" NPT     |
| VP1002PK400A00 | 4-20 mA                                 | 3-30 psi (0.2-2 bar)  | PSIG        | 1/4" NPT     |
| VP1004PK100A00 | 0-10 V                                  | 3-60 psi (0.2-4 bar)  | PSIG        | 1/4" NPT     |
| VP1004PK400A00 | 4-20 mA                                 | 3-60 psi (0.2-4 bar)  | PSIG        | 1/4" NPT     |
| VP1006PK101A00 | 0-10 V                                  | 3-90 psi (0.2-6 bar)  | PSIG        | 1/4" NPT     |
| VP1006PK401A00 | 4-20 mA                                 | 3-90 psi (0.2-6 bar)  | PSIG        | 1/4" NPT     |
| VP1008PK101A00 | 0-10 V                                  | 3-120 psi (0.2-8 bar) | PSIG        | 1/4" NPT     |
| VP1008PK401A00 | 4-20 mA                                 | 3-120 psi (0.2-8 bar) | PSIG        | 1/4" NPT     |

### Electrical Information

|                               |   |
|-------------------------------|---|
| Electromagnetic compatibility | This is a passive electromagnetic instrument and is unaffected by interfering high frequency signals        |
| Electrical signal             | Two wire version 4-20 mA or 0-10 V for 60< PSIG<br>Three wire version requires 12-24 V d.c. supply          |
| Connections                   | 30 mm square connector DIN 43650 provided, mountable in four directions (alternative connections available) |

\* Replace PK w/BJ for calibration in Bar and 1/4 ISO G thread form.

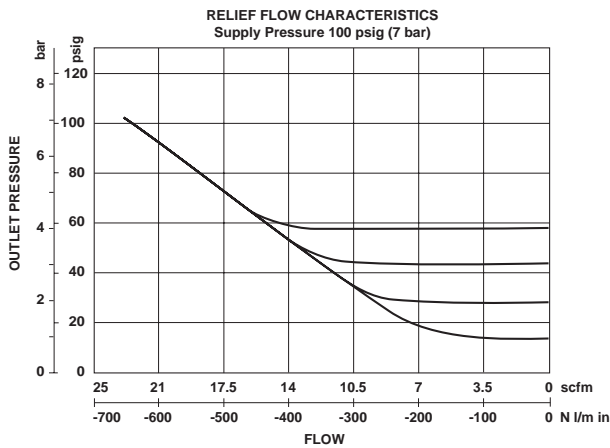
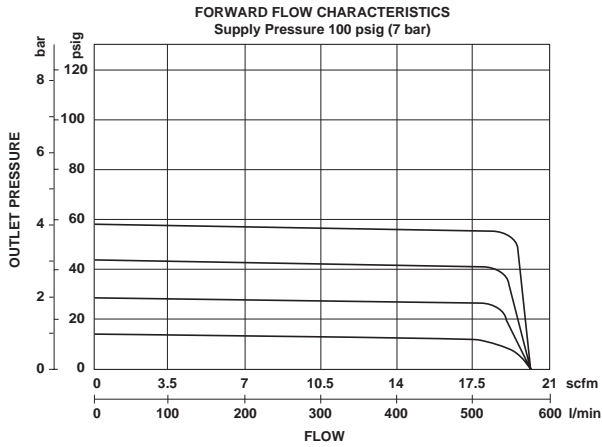
ISO Symbols



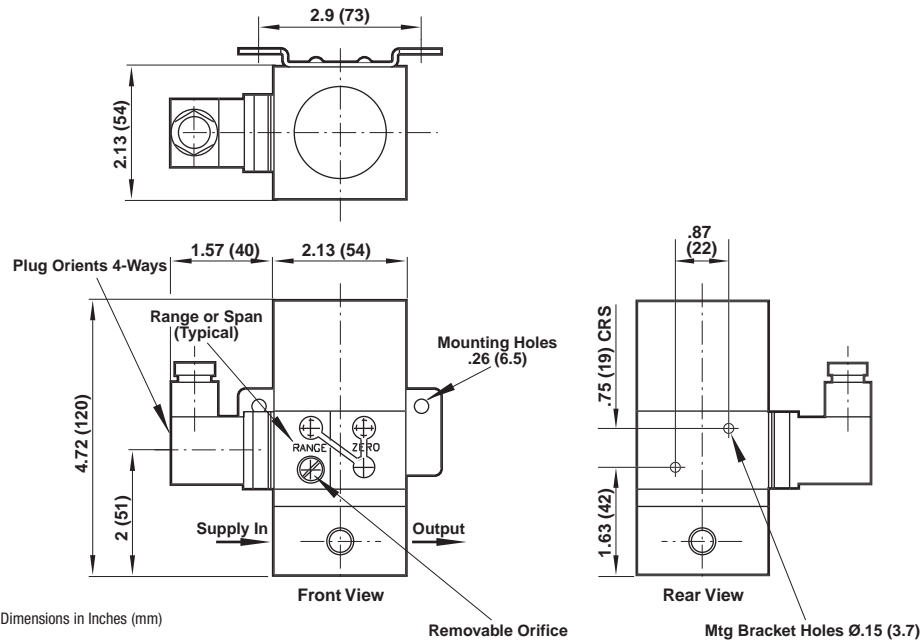
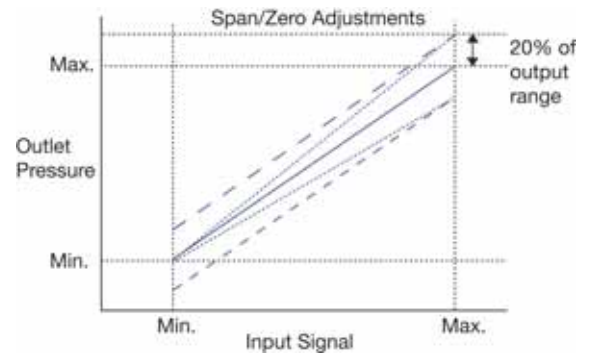
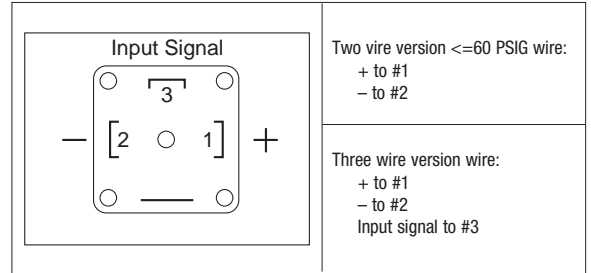
# Typical Performance Characteristics

# VP10

## Electronic Pressure Regulator



### Connector Wiring



NC = Normally closed, NO = Normally open, APB = All ports blocked, COE = Center open exhaust, COP = Center open pressure  
\*\*\*\* Insert coil connector code from Connectors table.

For manual override options, substitute 'x' as follows: 1 = without manual override, 2 = locking, 3 = non-locking,



# VP50

## Proportional Pressure Control Valve

**Air piloted proportional pressure control valve**

**Fully user adjustable for a wide range of applications**

**High speed**

**Lower power consumption**

**High flow capacity**

**Optional manifold mount utilizes the ISO Size 2 subbase**

### Technical Data

Medium:

Compressed air, filtered to 40micron, non-lubricated

Operation:

Proportional, direct acting air piloted spool

**Output Pressure:**

See website

**Supply Pressure:**

200 psig (14 bar) max

**Supply Sensitivity:**

Better than 0.75% span output change per bar supply pressure change

**Flow Capacity:**

Up to 50 scfm (1400 NI/min)

**Response Time:**

< 80 mS (from 10-90% of output pressure into a 0.1 litre load)

**Air Consumption:**

< .177 scfm (5 l/min)

**Port Size:**

1/4 PTF (G1/4)

**Total Error:**

Max. error < ±1% of span (independent error includes the combined effect of non-linearity, hysteresis, deadzone and repeatability)

**Operating Temperature:**

23° to 120°F (-5° to 50°C)

**Temperature Effect:**

Typically better than 0.03% of span/°C for span and zero over operating range

**Degree of protection:**

NEMA 4 (IP65) in normal operation

**Vibration Immunity:**

< 3% output shift for 3g 10-2000Hz

**Mounting Position:**

Any screw mounting or manifold mount



| Part Number*   | Pressure Range and Input Signal Options | Output Pressure in psig (bar) | Port Size |
|----------------|---|-------------------------------|-----------|
| VP5010PK111H00 | 0-10V                                   | 0-145 ( 0-10)                 | 1/4" PTF  |
| VP5010PK411H00 | 4-20mA                                  | 0-145 ( 0-10)                 | 1/4" PTF  |
| VP5006PK111H00 | 0-10V                                   | 0-90 ( 0-6)                   | 1/4" PTF  |
| VP5006PK411H00 | 4-20mA                                  | 0-90 ( 0-6)                   | 1/4" PTF  |
| VP5002PK111H00 | 0-10V                                   | 0-30 ( 0-2)                   | 1/4" PTF  |
| VP5002PK411H00 | 4-20mA                                  | 0-30 ( 0-2)                   | 1/4" PTF  |

\* To specify regulator calibration in BAR use "B" in the 7th position For 1/4" ISO G ports use "J" in the 8th position.

To order the VP50 with interface for manifold mounting, indicate an "X" in the 8th position of the part number.

All units shipped with M12 five pin electrical connector

### Electrical information

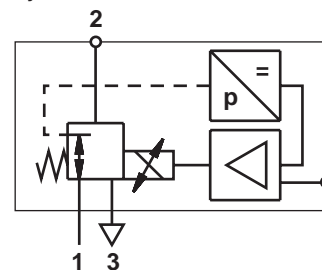
|                                 |  |
|---------------------------------|--|
| Electromagnetic Compatibility   | CE marked: conforms to E.C. requirements EN 50081-2 (1994) and EN 50082-2 (1995) |
| Electrical Input Signal         | 4-20mA or 0-10V factory set  |
| Electrical Power Input          | 24V dc ±25% (power consumption < 1W)   |
| Output Pressure Feedback Signal | 0-10V full range   |
| Connections                     | DIN 43650 or Brad Harrison connection for feedback output                        |

### Material of Construction:

Aluminium body, zinc diecast lid and end cover

Weight: 1.76 lbs. (800g) approx

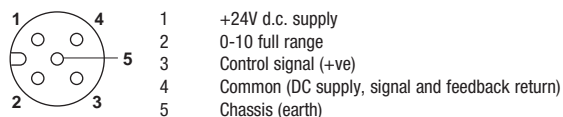
### Symbol



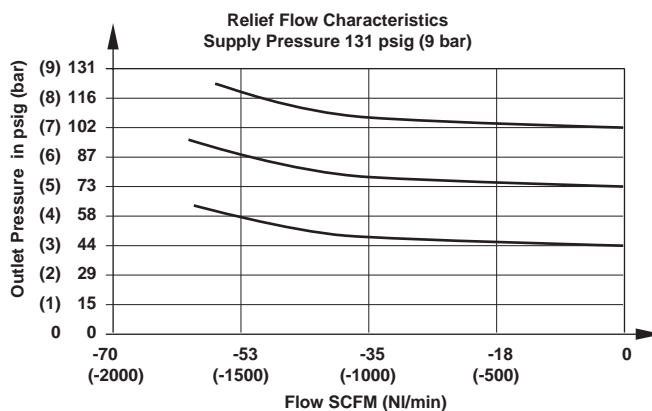
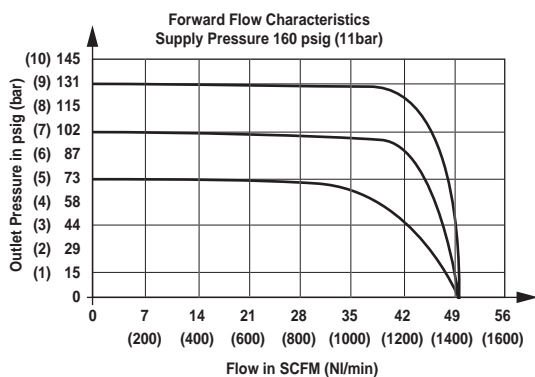
# VP50

## Proportional Pressure Control Valve

### Instrument pin configuration



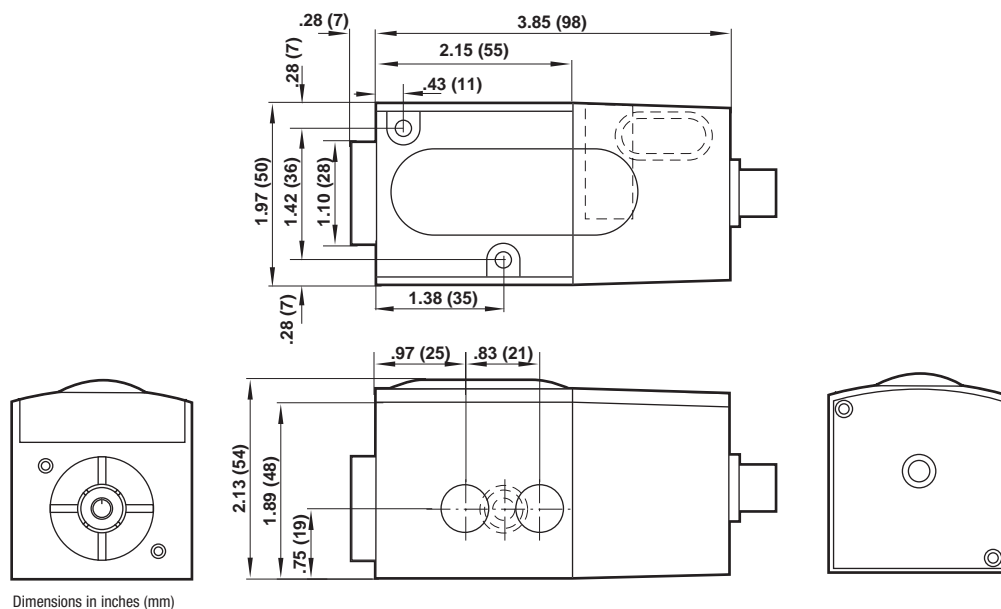
### Characteristic Curves



### Accessories

| Designation           | Specification  | Type     |
|-----------------------|--|----------|
| Connectors with cable | M12 x 1.5 pin; 16 ft (5m) 5 x 0.34 mm <sup>2</sup>   | 0250081  |
|                       | M12 x 1.5 pin; 30 ft (10 m) 5 x 0.34 mm <sup>2</sup> | 0250472  |
| Manifold Mounting Kit | Interface plate, gasket, mounting screws             | 53ZZ5M00 |

NOTE: Refer to website to select an ISO 2 size base and accessories.



# VP51

## Programmable proportional pressure control valve G1/4, 1/4 NPT

Fully programmable with on-board diagnostics

Multi-option language display

Password protection option at first level functionality

Instant LED warning functions

Application specific set-up

Pressure output display; no gauge necessary

High speed response

Optional manifold mount utilizes the ISO Size 2 subbase

### Technical data

Medium

Compressed air filtered to 40 µm, non-lubricated

Supply pressure

205 psig (14 bar) max.

Output pressure

0 - 145 psig (0 - 10)

Supply sensitivity

<= 50 mbar between 160 and 90 psig (11 and 6 bar) supply

Response time

< 100 ms (from 10 to 90% of output pressure into a 0,1 litre load)

Air consumption

< .177 scfm (5 l/min)

Total error

Maximum error ± 1.45 psig (100 mbar) of total span (independent error includes the combined effect of non-linearity, hysteresis, deadzone and repeatability)

Ambient temperature

-4 to 122°F (-20° to 50°C)

Temperature effect

Typically .04 psig (3 mbar)/°C for full scale and zero over operating range

Degree of protection

NEMA 4 in normal operation

Vibration immunity

<3% output shift for 3 g ~ 10 to 150 Hz

Weight

1.76 lbs (0.8 kg)

Mounting position

Any screw mounting or ISO 2 subbase manifold mount

Materials

Body: aluminum

Lid and end cover: zinc diecast



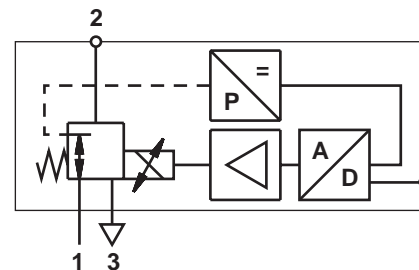
### General information

| Control signal | Output pressure range psig (bar) | Model          | Connection | Output units |
|----------------|----------------------------------|----------------|------------|--------------|
| 0-10 V         | 0 to 145 (10)                    | VP5110PK111H00 | 1/4 NPT    | psig         |
| 4-20 mA        | 0 to 145 (10)                    | VP5110PK411H00 | 1/4 NPT    | psig         |
| 0-10 V         | 0 to 145 (10)                    | VP5110BJ111H00 | ISO G 1/4  | bar          |
| 4-20 mA        | 0 to 145 (10)                    | VP5110BJ411H00 | ISO G 1/4  | bar          |

\*To order the VP50 with interface for manifold mounting, indicate "X" in the 8th position of the part number.

All units shipped with M12 five pin electrical connectors with interface for manifold mounting.

### Symbol



### Electromagnetic compatibility

The valve conforms to the EC requirements EN50081-2 (emission) and EN50082-2 (disturbance noise). For this specification shielded cables have to be used

# VP51

Programmable proportional pressure  
control valve G1/4, 1/4 NPT

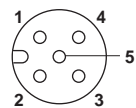
## User functionality options

| Password protection |   |
|---------------------|---|
| Display set-up      | Display language<br>Pressure units<br>Offline set-up<br>Online set-up |
| Speed set-up        | 0 fastest to 7 slowest  |
| Monitor set-up      | Analogue 0 ... 10 V   |
| Monitor output      | Hi = P2 > x psi<br>Hi = P2 OK   |
| Local control       | Manual control<br>Max./min. ramp<br>Max./min. stairs                  |
| Device database     | Read only data: unit specific<br>Tag number<br>Help display           |
| Factory defaults    | Restore factory defaults  |

## Electrical information

|                                 |  |
|---------------------------------|--|
| Electromagnetic compatibility   | CE marked: conforms to EC requirements EN 50081-2 (1994) and EN 50082-2 (1995) |
| Electrical input signal         | 4 ... 20 mA or 0 ... 10 V factory set  |
| Electrical power input          | 24 V d.c. ±25% (power consumption < 1 W)                                       |
| Output pressure feedback signal | User configurable 0 ... 10V analog or Hi-Lo mode                               |

## Instrument pin configuration M12 x 1 (5 pin)



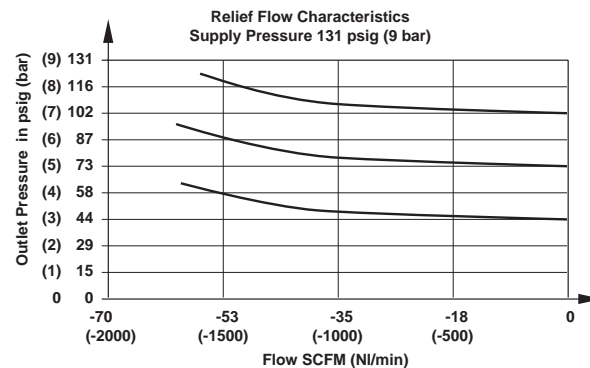
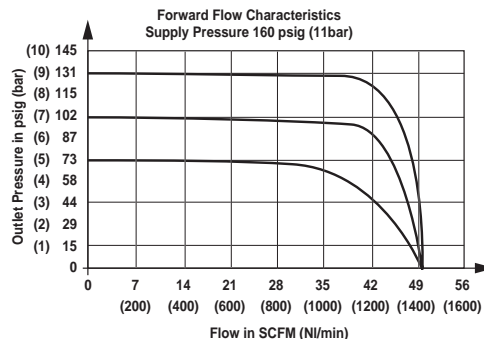
| Pin | Designation                                      | Color*            |
|-----|--|-------------------|
| 1   | +24V d.c. supply                                 | brown/red         |
| 2   | 1 v/bar monitor output                           | white             |
| 3   | Control signal (+ve)                             | blue              |
| 4   | Common (d.c. supply, signal and feedback return) | black             |
| 5   | Chassis (earth)                                  | grey/green/yellow |

## Accessories

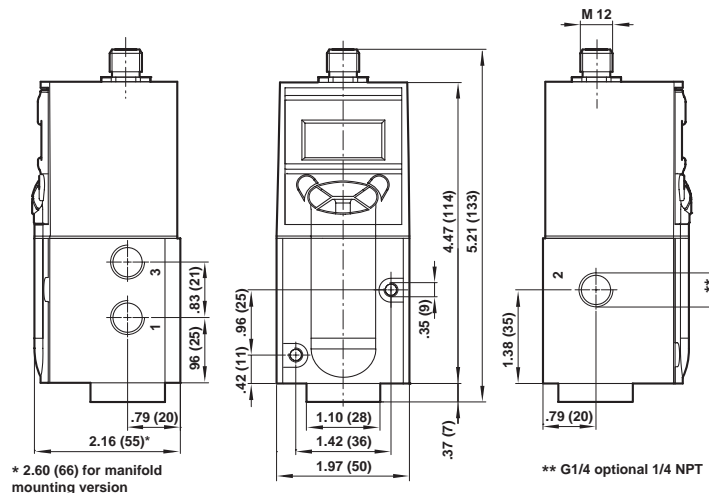
| Designation            | Specification                            | Type     |
|------------------------|--|----------|
| Connectors with cable  | M12 x 1.5 pin; 16 ft (5m) 5 x 0.34 mm2   | 0250081  |
|                        | M12 x 1.5 pin; 30 ft (10 m) 5 x 0.34 mm2 | 0250472  |
| *Manifold Mounting Kit | Interface plate, gasket, mounting screws | 53Z25M00 |

For ISO 2 Manifold see website

## Characteristic curves



## General dimensions



# R-27 Series

## Manostat Precision

### Air Pressure Regulators

High precision pressure regulators

Suitable for dead end or flow applications

Excellent long term stability

Handwheel, lever, plunger or pilot operated

#### Technical Data

Medium:

Dry, oil free air filter to 25 microns

Operation:

Two stage servo mechanized regulator with integral precision measuring capsule

Mounting:

Any position. Panel mounting or through mounting holes on the unit (lever, plunger and pilot versions)

Port sizes:

G 1/4

Output pressure ranges:

See individual details

Supply pressure:

Minimum at least 2.9 psig (0.2 bar) above output pressure.

Maximum 145 psig (10 bar)

Flow capacity:

Up to 10.6 scfm (300 l/m)

Hysteresis and repeatability:

Less than 0.005% setting at midrange

Sensitivity:

Better than 0.3 mbar

Air consumption:

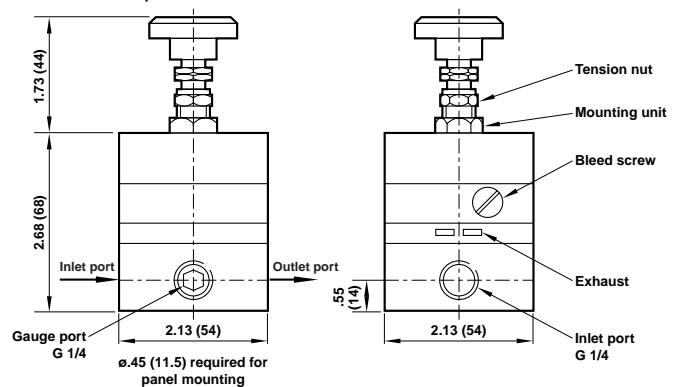
See individual details



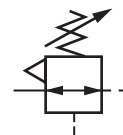
#### Ordering Information

| Description                           | Model       | Control Type                                       | Output Pressure Range psig (bar)      | Air Consumption scfm (l/m) | Weight lbs (kg) |
|---------------------------------------|-------------|--|---------------------------------------|----------------------------|-----------------|
| Standard regulator                    | 53-1002-00R | Handwheel 2.5-3 turns                              | 2-25 (.14-2)                          | .01 (.3)                   | 1.59 (.72)      |
| Standard regulator                    | 53-1003-00R | Handwheel 2.5-3 turns                              | 2-60 (.14-4)                          | .02 (.6)                   | 1.59 (.72)      |
| Standard regulator                    | 53-1004-00R | Handwheel 2.5-3 turns                              | 2-120 (.14-8)                         | .04 (1.2)                  | 1.59 (.72)      |
| Lever operated regulator              | 53-1802-00R | Lever control 125° Rotation                        | 2-25 (.14-2)                          | .01 (.3)                   | 1.59 (.72)      |
| Lever operated regulator              | 53-1803-00R | Lever control 125° Rotation                        | 2-60 (.14-4)                          | .02 (.6)                   | 1.59 (.72)      |
| Lever operated regulator              | 53-1804-00R | Lever control 125° Rotation                        | 2-120 (.14-8)                         | .04 (1.2)                  | 1.59 (.72)      |
| Plunger operated regulator            | 53-1404-00R | Plunger travel .065 (1.65)                         | 2-60 (.14-4)                          | .02 (.6)                   | 1.59 (.72)      |
| Plunger operated regulator            | 53-1604-00R | Plunger travel .065 (1.65)                         | 2-120 (.14-8)                         | .04 (1.2)                  | 1.59 (.72)      |
| Pilot operated relay                  | 53-1904-00R | Pilot pressure signal                              | 2-120 (.14-8)                         | .04 (1.2)                  | 1.59 (.72)      |
| Pilot operated relay with manual bias | 53-2204-00R | Pilot pressure signal<br>Handwheel controlled bias | 2-120 (.14-8)<br>bias of up to 30 (2) | .04 (1.2)                  | 1.59 (.72)      |

#### Handwheel Operated

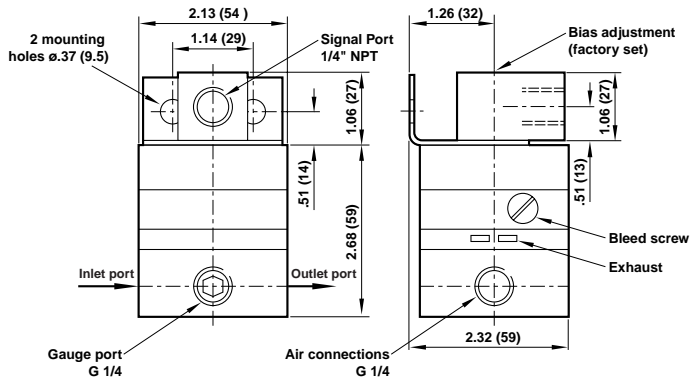


#### ISO Symbols

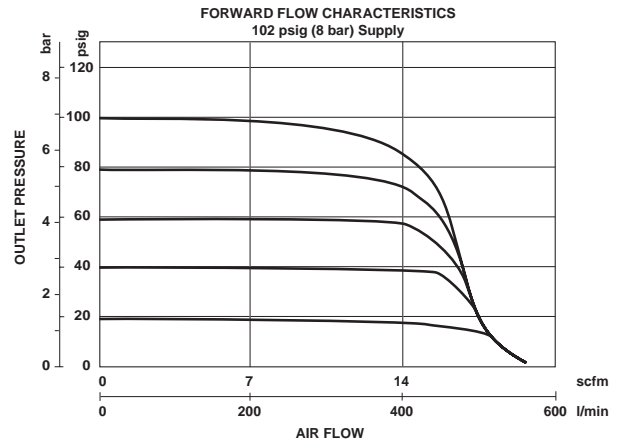


All Dimensions in Inches (mm)

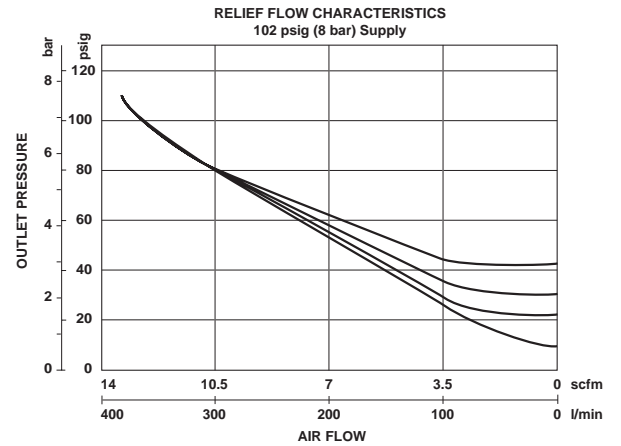
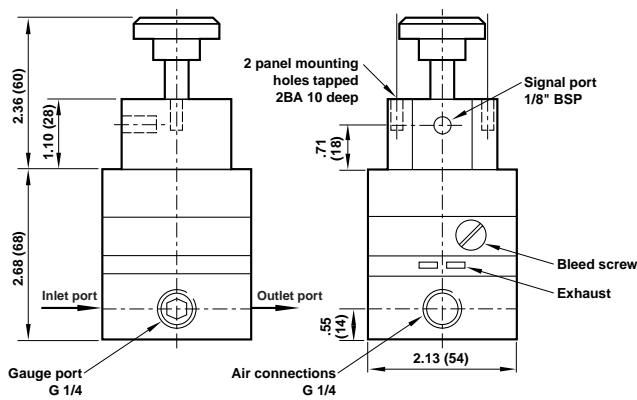
### Pilot Operated



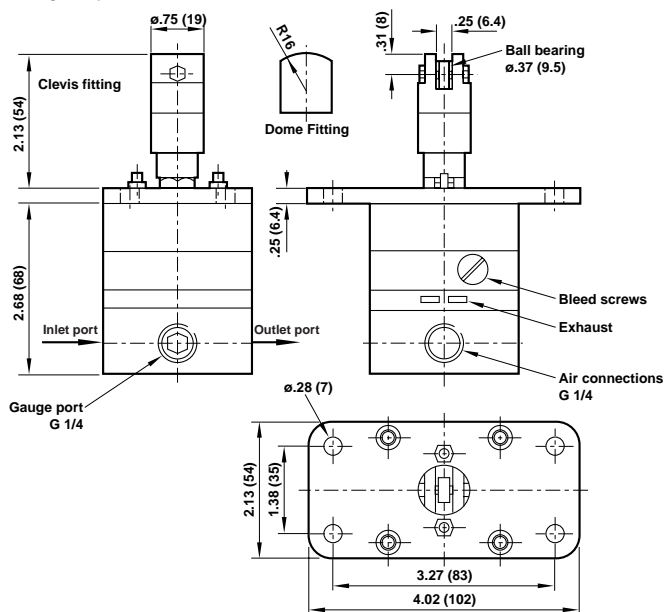
### Typical Performance Characteristics



### Pilot Operated with Bias



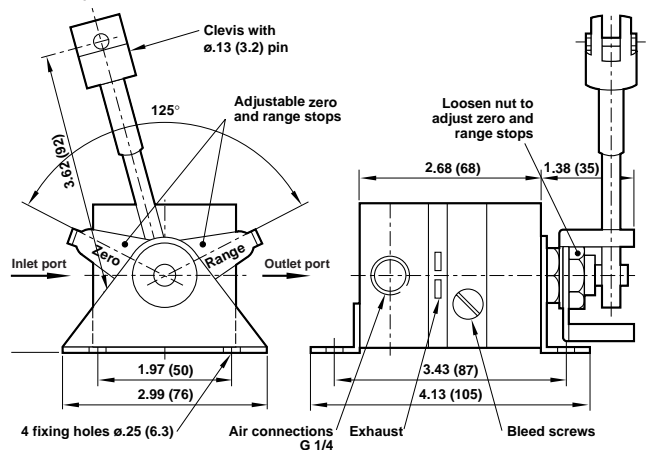
### Plunger Operated



### Diaphragm Repair Kits

| Type                  | Part number  |
|-----------------------|--------------|
| Units up to 25 psig   | 53-1000-95R  |
| Units up to 60 psig   | 53-1000-99R  |
| Units up to 120 psig  | 53-1000-98R  |
| Tamperproof Nut       | 53-1000-97R  |
| Wall Mounting Bracket | 53-ABR-00700 |

### Lever Operated



## Additional Valve Products

### Type 68 P/I

Transmitter type 68

Type 68 converts pneumatic pressure into a 4-20 ma electrical signal for uses with data loggers or PLC controls.

The unit is suitable for DIN rail or line mounting and requires only a non-critical DC power supply.

Optional IP65 weatherproof versions are available.



### Type 421

Compact failsafe rail mount I/P converter

A rugged, electronic I/P converter designed for high density rail or manifold mounting, at a spacing of only 1" (25mm)

Advanced electronic control using surface mount electronics and a precision pressure transducer and offers excellent performance characteristics

Employs a high sensitivity microminiature Reedex valve for pressure control

Great reliability, long life, freedom from vibration effects, and are significantly less prone to mechanical derangement than older conventional designs

Can be mounted on DIN rail, surface mounted, or mounted onto a high density manifold



### Type 422

Failfreeze Electronic Converter

A major advance in I/P converter design, offering failfreeze in addition to conventional I/P features

Advanced electronic control and a precision pressure transducer to achieve outstanding performance

Intended for field application in which rugged construction, vibration immunity, weatherproofing and reliability are essential, together with the enhanced system safety gained from its failfreeze characteristic

Two wire operation from a 4-20mA control signal with output pressures up to 120 psig (8 bar) as standard



## Type 423

Failsafe Electronic I/P Converter

For field mount process control applications

State-of-art electronics, precision internal pressure measurement, digital pressure control and excellent environmental and vibration characteristics

Rugged high sensitivity Reedex Valve for pressure control

Extreme reliability, freedom from vibration effect and long life, together with very low air consumption and hysteresis.

Allows an output capacity of up to 10 scfm, so that no volume booster is necessary for high flow applications such as large valves



## Type 140

Electronic I/P Converter

For service in demanding process control applications, the Type 140 is used to convert a 4-20 mA control current to a 3-15 psi pneumatic signal for operating a control valve actuator.

The internal closed-loop control electronics assure high resolution and long-term accuracy.

Fully encapsulated circuit boards provide added environmental protection.

Type 140 is available in Intrinsically Safe and Explosion proof versions with ATEX, CSA and FM approvals.

