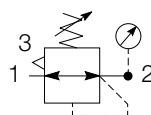


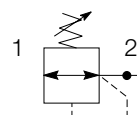
## P3L Lite Regulator



## Symbols



Self relieving regulator  
with gauge



Non relieving regulator

- Integral 1/4 ports (BSPP & NPT)
- Robust but lightweight construction
- Secondary pressure ranges 2, 4 & 8 bar
- Unbalanced poppet valve standard, with solid control piston
- Relieving & Non-relieving types
- Non-rising knob

## Options:

| <b>P 3 L</b>                                          | <b>R A</b> |                                  | <b>2</b> |                                                               | <b>N</b> |                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>P</b> |                  |  |               |  |       |          |       |          |       |          |       |          |       |          |       |          |
|-------------------------------------------------------|------------|----------------------------------|----------|---------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|--|---------------|--|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| <b>Thread type</b><br>BSPP <b>1</b><br>NPT <b>9</b>   |            | <b>Port size</b><br>1/4 <b>2</b> |          | <b>Relief</b><br>Relieving <b>B</b><br>Non relieving <b>N</b> |          | <b>Adjustment range</b><br><table border="1"> <thead> <tr> <th colspan="2">With round gauge</th> <th colspan="2">Without gauge</th> </tr> </thead> <tbody> <tr> <td>2 bar</td> <td><b>Z</b></td> <td>2 bar</td> <td><b>Y</b></td> </tr> <tr> <td>4 bar</td> <td><b>M</b></td> <td>4 bar</td> <td><b>L</b></td> </tr> <tr> <td>8 bar</td> <td><b>G</b></td> <td>8 bar</td> <td><b>N</b></td> </tr> </tbody> </table> |          | With round gauge |  | Without gauge |  | 2 bar | <b>Z</b> | 2 bar | <b>Y</b> | 4 bar | <b>M</b> | 4 bar | <b>L</b> | 8 bar | <b>G</b> | 8 bar | <b>N</b> |
| With round gauge                                      |            | Without gauge                    |          |                                                               |          |                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                  |  |               |  |       |          |       |          |       |          |       |          |       |          |       |          |
| 2 bar                                                 | <b>Z</b>   | 2 bar                            | <b>Y</b> |                                                               |          |                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                  |  |               |  |       |          |       |          |       |          |       |          |       |          |       |          |
| 4 bar                                                 | <b>M</b>   | 4 bar                            | <b>L</b> |                                                               |          |                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                  |  |               |  |       |          |       |          |       |          |       |          |       |          |       |          |
| 8 bar                                                 | <b>G</b>   | 8 bar                            | <b>N</b> |                                                               |          |                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                  |  |               |  |       |          |       |          |       |          |       |          |       |          |       |          |
| <b>Mounting</b><br>Plastic panel mount nut * <b>P</b> |            |                                  |          |                                                               |          |                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                  |  |               |  |       |          |       |          |       |          |       |          |       |          |       |          |
| * for individual mounting bracket see page:19         |            |                                  |          |                                                               |          |                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                  |  |               |  |       |          |       |          |       |          |       |          |       |          |       |          |

| Port size | Description             | Order Code         | Flow<br>dm <sup>3</sup> /s<br>* | (scfm)<br>* | Max<br>bar<br>(psi) | Height<br>mm<br>(Inches) | Width<br>mm<br>(Inches) | Depth<br>mm<br>(Inches) |
|-----------|-------------------------|--------------------|---------------------------------|-------------|---------------------|--------------------------|-------------------------|-------------------------|
| 1/4"      | 8 bar relieving         | <b>P3LRA12BNNP</b> | 12.8                            | (27)        | 10 (150)            | 88 (3.46)                | 40 (1.57)               | 40 (1.57)               |
| 1/4"      | 8 bar relieving + gauge | <b>P3LRA12BNGP</b> | 12.8                            | (27)        | 10 (150)            | 88 (3.46)                | 40 (1.57)               | 72 (2.83)               |

\* flow with 10 bar (145 psi) inlet pressure, 6.3 bar (91.3 psi) set pressure and 1 bar (14.5 psi) pressure drop.



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PDE2661TCUK  
**P3L Lite Series Air Preparation System**

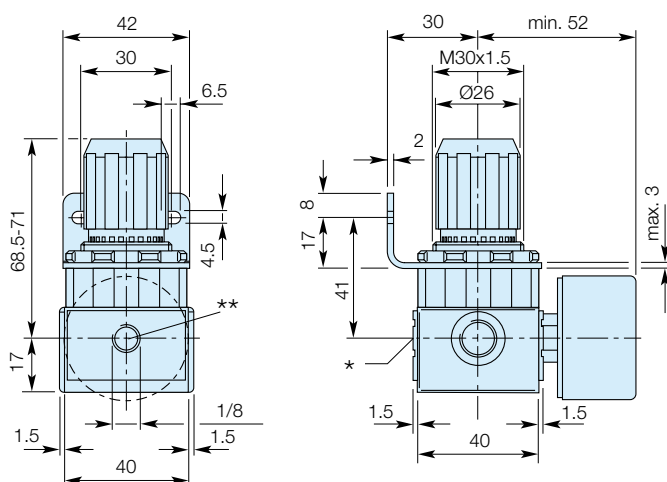
## Specifications

|                                                                                                      |                                                           |                      |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------|
| Flow Capacity*                                                                                       | 1/4                                                       | 12.8 dm³/s (27 scfm) |
| Operating Temperature                                                                                | 0°C (32°F) to 50°C (122°F)                                |                      |
| Max Supply Pressure                                                                                  | 10 bar (150 psi)                                          |                      |
| Adjusting Range Pressure                                                                             | 0-2 bar (30 psi)<br>0-4 bar (60 psi)<br>0-8 bar (125 psi) |                      |
| Port Size                                                                                            | BSPP / NPT                                                | 1/4                  |
| Gauge Port (2 ea.)                                                                                   | BSPP / NPSI                                               | 1/8                  |
| Weight                                                                                               | 0.11 kg (24 lbs)                                          |                      |
| Inlet pressure 10 bar (145 psi), 6.3 bar (91.3 psi) set pressure and 1 bar (14.5 psi) pressure drop. |                                                           |                      |

## Materials of Construction

|                 |                   |
|-----------------|-------------------|
| Body            | High Tech Polymer |
| Adjustment Knob | Polyamide         |
| Bonnet          | High Tech Polymer |
| Piston          | Brass / Nitrile   |
| Springs         | Steel             |
| Seals           | Nitrile           |
| Panel Nut       | Polyamide         |

## Dimensions

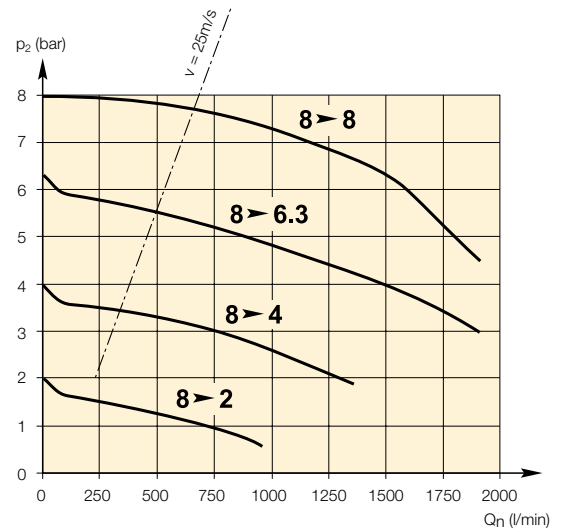


\* On delivery the screw plug is not assembled

\*\* Two opposite gauge ports 1/8"

## Flow Charts

### Regulator



## Repair and Service Kits

|                                          |                  |
|------------------------------------------|------------------|
| Panel mount nut - Aluminium              | <b>P3LKA00MM</b> |
| Panel mount nut - Plastic                | <b>P3LKA00MP</b> |
| Angle Bracket (uses panel mount threads) | <b>P3LKA00MR</b> |

## Gauges

### 40mm (1 1/2") Round 1/8" centre back mount

|                      |                  |
|----------------------|------------------|
| 0-30 PSI / 0-2 bar   | <b>KZ8810-00</b> |
| 0-58 PSI / 0-4 bar   | <b>KZ8811-00</b> |
| 0-160 PSI / 0-10 bar | <b>KZ8813-00</b> |