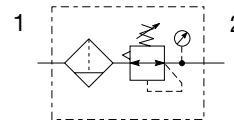


Global Air Preparation System

Compact Filter / Regulator - P32



Symbols



- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges 0-2 bar (0-30 psig), 0-4 bar (0-60 psig), 0-8 bar (0-125 psig), 0-17 bar (0-250 psig)
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation

Options:

| <b>P32E</b>  | <b>A</b>                       | <b>9</b>  | <b>2</b>                       | <b>E</b>                                    | <b>G</b>   | <b>M</b>  | <b>B</b>  | <b>N</b>  | <b>N</b>          | <b>P</b> |                  |  |      |     |   |   |         |        |                         |                         |        |       |                            |  |         |       |  |  |               |  |  |  |  |  |                           |  |  |  |                           |  |  |  |                            |  |  |  |  |  |  |
|--|--------------------------------|---|--------------------------------|---|--|---|---|---|-------------------|----------|------------------|--|------|-----|---|---|---------|--------|-------------------------|-------------------------|--------|-------|----------------------------|--|---------|-------|--|--|---------------|--|--|--|--|--|---------------------------|--|--|--|---------------------------|--|--|--|----------------------------|--|--|--|--|--|--|
| <b>Basic series</b><br>Global modular mini filter / regulator P32E | <b>Engr level</b><br>Current A | <b>Thread type</b><br>BSPP 1<br>BSPT 2<br>NPT 9 | <b>Element</b><br>5µ Element E | <b>Port size</b><br>1/4 2<br>3/8 3<br>1/2 4 | <b>Bowl type</b><br>Poly bowl with bowl guard G<br>Metal bowl without sight gauge M<br>Metal bowl with sight gauge S | <b>Drain type</b><br>M Manual drain<br>A Auto drain | <b>Relief</b><br>B Relieving<br>N Non-relieving | <b>Adjustment range</b><br><table border="1"> <tr> <th colspan="2">With square gauge</th> <th colspan="2">With round gauge</th> </tr> <tr> <th>psig</th> <th>bar</th> <th>Z</th> <th>M</th> </tr> <tr> <td>1 = 30*</td> <td>V = 2*</td> <td>2 bar; 30 psig; 0.2 MPa</td> <td>4 bar; 60 psig; 0.4 MPa</td> </tr> <tr> <td>3 = 60</td> <td>S = 4</td> <td>G 8 bar; 125 psig; 0.8 MPa</td> <td></td> </tr> <tr> <td>5 = 125</td> <td>T = 8</td> <td>J<sup>§</sup> 17 bar; 250 psig; 1.7 MPa</td> <td></td> </tr> <tr> <th colspan="4">Without gauge</th> </tr> <tr> <td></td> <td></td> <td>Y 2 bar; 30 psig; 0.2 MPa</td> <td></td> </tr> <tr> <td></td> <td></td> <td>L 4 bar; 60 psig; 0.4 MPa</td> <td></td> </tr> <tr> <td></td> <td></td> <td>N 8 bar; 125 psig; 0.8 MPa</td> <td></td> </tr> <tr> <td></td> <td></td> <td>H<sup>§</sup> 17 bar; 250 psig; 1.7 MPa</td> <td></td> </tr> </table> | With square gauge |          | With round gauge |  | psig | bar | Z | M | 1 = 30* | V = 2* | 2 bar; 30 psig; 0.2 MPa | 4 bar; 60 psig; 0.4 MPa | 3 = 60 | S = 4 | G 8 bar; 125 psig; 0.8 MPa |  | 5 = 125 | T = 8 | J <sup>§</sup> 17 bar; 250 psig; 1.7 MPa |  | Without gauge |  |  |  |  |  | Y 2 bar; 30 psig; 0.2 MPa |  |  |  | L 4 bar; 60 psig; 0.4 MPa |  |  |  | N 8 bar; 125 psig; 0.8 MPa |  |  |  | H <sup>§</sup> 17 bar; 250 psig; 1.7 MPa |  | <b>Mounting</b><br>P Plastic panel mount nut |
| With square gauge  |                                | With round gauge                                |                                |   |  |   |   |   |                   |          |                  |  |      |     |   |   |         |        |                         |                         |        |       |                            |  |         |       |  |  |               |  |  |  |  |  |                           |  |  |  |                           |  |  |  |                            |  |  |  |  |  |  |
| psig   | bar                            | Z   | M                              |   |  |   |   |   |                   |          |                  |  |      |     |   |   |         |        |                         |                         |        |       |                            |  |         |       |  |  |               |  |  |  |  |  |                           |  |  |  |                           |  |  |  |                            |  |  |  |  |  |  |
| 1 = 30*  | V = 2*                         | 2 bar; 30 psig; 0.2 MPa                         | 4 bar; 60 psig; 0.4 MPa        |   |  |   |   |   |                   |          |                  |  |      |     |   |   |         |        |                         |                         |        |       |                            |  |         |       |  |  |               |  |  |  |  |  |                           |  |  |  |                           |  |  |  |                            |  |  |  |  |  |  |
| 3 = 60   | S = 4                          | G 8 bar; 125 psig; 0.8 MPa                      |                                |   |  |   |   |   |                   |          |                  |  |      |     |   |   |         |        |                         |                         |        |       |                            |  |         |       |  |  |               |  |  |  |  |  |                           |  |  |  |                           |  |  |  |                            |  |  |  |  |  |  |
| 5 = 125  | T = 8                          | J <sup>§</sup> 17 bar; 250 psig; 1.7 MPa        |                                |   |  |   |   |   |                   |          |                  |  |      |     |   |   |         |        |                         |                         |        |       |                            |  |         |       |  |  |               |  |  |  |  |  |                           |  |  |  |                           |  |  |  |                            |  |  |  |  |  |  |
| Without gauge  |                                |   |                                |   |  |   |   |   |                   |          |                  |  |      |     |   |   |         |        |                         |                         |        |       |                            |  |         |       |  |  |               |  |  |  |  |  |                           |  |  |  |                           |  |  |  |                            |  |  |  |  |  |  |
|  |                                | Y 2 bar; 30 psig; 0.2 MPa                       |                                |   |  |   |   |   |                   |          |                  |  |      |     |   |   |         |        |                         |                         |        |       |                            |  |         |       |  |  |               |  |  |  |  |  |                           |  |  |  |                           |  |  |  |                            |  |  |  |  |  |  |
|  |                                | L 4 bar; 60 psig; 0.4 MPa                       |                                |   |  |   |   |   |                   |          |                  |  |      |     |   |   |         |        |                         |                         |        |       |                            |  |         |       |  |  |               |  |  |  |  |  |                           |  |  |  |                           |  |  |  |                            |  |  |  |  |  |  |
|  |                                | N 8 bar; 125 psig; 0.8 MPa                      |                                |   |  |   |   |   |                   |          |                  |  |      |     |   |   |         |        |                         |                         |        |       |                            |  |         |       |  |  |               |  |  |  |  |  |                           |  |  |  |                           |  |  |  |                            |  |  |  |  |  |  |
|  |                                | H <sup>§</sup> 17 bar; 250 psig; 1.7 MPa        |                                |   |  |   |   |   |                   |          |                  |  |      |     |   |   |         |        |                         |                         |        |       |                            |  |         |       |  |  |               |  |  |  |  |  |                           |  |  |  |                           |  |  |  |                            |  |  |  |  |  |  |

**Bold items are most common.**

\* Unit comes with 0-4 bar or 0-60 psig gauge respectively.  
§ Not available with poly bowl with bowl guard.

| Port size | Description  | Order code†           | Flow‡<br>dm <sup>3</sup> /s (scfm) | Max. bar (psig) | Height<br>mm (inches) | Width<br>mm (inches) | Depth<br>mm (inches) |
|-----------|--|-----------------------|------------------------------------|-----------------|-----------------------|----------------------|----------------------|
| 1/4"      | 8 bar (125 psig) relieving - poly bowl - manual drain  | <b>P32EA92EGMBNGP</b> | 42 (89)                            | 10 (150)        | 254 (10.0)            | 60 (2.36)            | 60 (2.36)            |
| 1/4"      | 8 bar (125 psig) relieving - poly bowl - auto drain    | <b>P32EA92EGABNGP</b> | 42 (89)                            | 10 (150)        | 248 (9.76)            | 60 (2.36)            | 60 (2.36)            |
| 1/4"      | 8 bar (125 psig) relieving - metal bowl - manual drain | <b>P32EA92ESMBNGP</b> | 42 (89)                            | 17 (250)        | 245 (9.66)            | 60 (2.36)            | 60 (2.36)            |
| 1/4"      | 8 bar (125 psig) relieving - metal bowl - auto drain   | <b>P32EA92ESABNGP</b> | 42 (89)                            | 17 (250)        | 254 (10.0)            | 60 (2.36)            | 95 (3.74)            |
| 3/8"      | 8 bar (125 psig) relieving - poly bowl - manual drain  | <b>P32EA93EGMBNGP</b> | 58 (123)                           | 10 (150)        | 254 (10.0)            | 60 (2.36)            | 60 (2.36)            |
| 3/8"      | 8 bar (125 psig) relieving - poly bowl - auto drain    | <b>P32EA93EGABNGP</b> | 58 (123)                           | 10 (150)        | 248 (9.76)            | 60 (2.36)            | 60 (2.36)            |
| 3/8"      | 8 bar (125 psig) relieving - metal bowl - manual drain | <b>P32EA93ESMBNGP</b> | 58 (123)                           | 17 (250)        | 245 (9.66)            | 60 (2.36)            | 60 (2.36)            |
| 3/8"      | 8 bar (125 psig) relieving - metal bowl - auto drain   | <b>P32EA93ESABNGP</b> | 58 (123)                           | 17 (250)        | 254 (10.0)            | 60 (2.36)            | 95 (3.74)            |
| 1/2"      | 8 bar (125 psig) relieving - poly bowl - manual drain  | <b>P32EA94EGMBNGP</b> | 64 (136)                           | 10 (150)        | 245 (9.66)            | 60 (2.36)            | 95 (3.74)            |
| 1/2"      | 8 bar (125 psig) relieving - poly bowl - auto drain    | <b>P32EA94EGABNGP</b> | 64 (136)                           | 10 (150)        | 248 (9.76)            | 60 (2.36)            | 95 (3.74)            |
| 1/2"      | 8 bar (125 psig) relieving - metal bowl - manual drain | <b>P32EA94ESMBNGP</b> | 64 (136)                           | 17 (250)        | 245 (9.66)            | 60 (2.36)            | 60 (2.36)            |
| 1/2"      | 8 bar (125 psig) relieving - metal bowl - auto drain   | <b>P32EA94ESABNGP</b> | 64 (136)                           | 17 (250)        | 254 (10.0)            | 60 (2.36)            | 60 (2.36)            |

† Standard part numbers shown in bold. For other models refer to Options chart above.

‡ Flow with 10 bar (145 psig) inlet pressure, 6.3 bar (91.3 psig) set pressure and 1 bar (14.5 psig) pressure drop.



# Global Air Preparation System

## Specifications

|                          |                   |                                  |
|--------------------------|-------------------|----------------------------------|
| Flow capacity*           | 1/4               | 42 dm <sup>3</sup> /s (89 scfm)  |
|                          | 3/8               | 58 dm <sup>3</sup> /s (123 scfm) |
|                          | 1/2               | 64 dm <sup>3</sup> /s (136 scfm) |
| Operating temperature    | Plastic bowl      | -25°C to 52°C (-13°F to 125°F)   |
|                          | Metal bowl        | -25°C to 65.5°C (-13°F to 150°F) |
| Max. supply pressure     | Plastic bowl      | 10 bar (150 psig)                |
|                          | Metal bowl        | 17 bar (250 psig)                |
| Standard filtration      |                   | 5 micron                         |
| Useful retention†        |                   | 51 cm <sup>3</sup> (1.7 US oz.)  |
| Adjusting range pressure |                   | 0-2 bar (30 psig)                |
|                          |                   | 0-4 bar (60 psig)                |
|                          |                   | 0-8 bar (125 psig)               |
|                          |                   | 0-17 bar (250 psig)              |
| Port size                | BSPP / BSPT / NPT | 1/4, 3/8, 1/2                    |
| Gauge port (2 ea.)       | BSPP / BSPT / NPT | 1/4                              |
| Weight                   |                   | 0.53 kg (1.17 lbs)               |

\* Inlet pressure 10 bar (145 psig). Secondary pressure 6.3 bar (91.3 psig).  
 † Useful retention refers to volume below the quiet zone baffle.

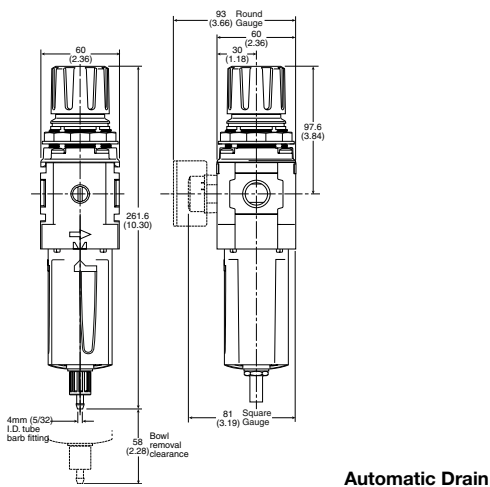
### Air quality:

Within ISO 8573-1: 1991 Class 3 (Particulates)  
 Within ISO 8573-1: 2001 Class 6 (Particulates)

## Material Specifications

|                           |                         |               |
|---------------------------|-------------------------|---------------|
| Body                      | Aluminum                |               |
| Adjustment knob           | Acetal                  |               |
| Body cap                  | ABS                     |               |
| Element retainer / Baffle | Acetal                  |               |
| Bowl                      | Plastic bowl            | Polycarbonate |
|                           | Metal bowl              | Zinc          |
| Bowl guard                | Nylon                   |               |
| Filter element            | Sintered polyethylene   |               |
| Seals                     | Nitrile                 |               |
| Springs                   | Main regulating / valve | Steel / S.S.  |
| Valve assembly            | Brass / Nitrile         |               |
| Diaphragm assembly        | Nitrile / Zinc          |               |
| Panel nut                 | Acetal                  |               |
| Sight gauge               | Metal bowl              | Polycarbonate |

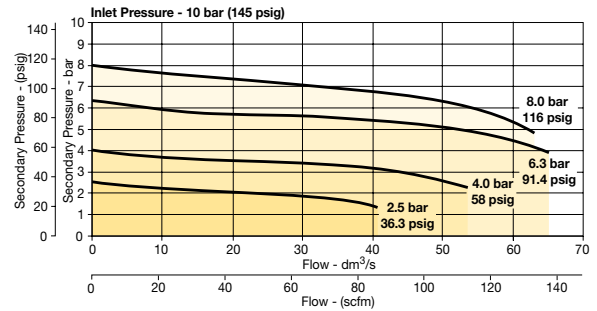
## Dimensions mm (inches)



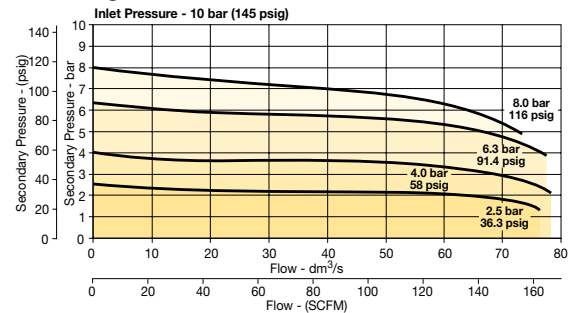
**WARNING**  
 Product rupture can cause serious injury.  
 Do not connect regulator to bottled gas.  
 Do not exceed Maximum primary pressure rating.

## Flow Charts

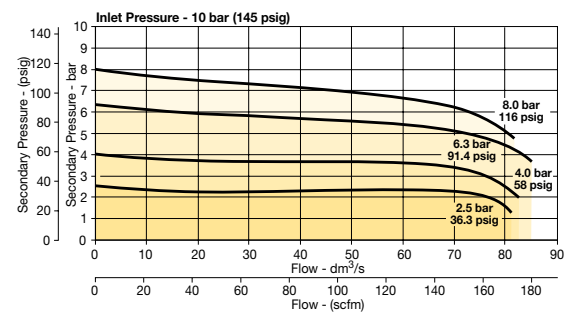
### 1/4 Filter / Regulator



### 3/8 Filter/Regulator



### 1/2 Filter/Regulator



## Repair and Service Kits

|   |                   |
|---|-------------------|
| Plastic bowl / Bowl guard manual drain      | <b>P32KA00BGM</b> |
| Metal bowl / Sight gauge manual drain       | <b>P32KA00BSM</b> |
| Auto drain                                  | <b>P32KA00DA</b>  |
| 5µ particle filter element                  | <b>P32KA00ESE</b> |
| Regulator repair kit - relieving            | <b>P32KA00RB</b>  |
| Regulator repair kit - non-relieving        | <b>P32KA00RC</b>  |
| Panel mount nut - aluminum                  | <b>P32KA00MM</b>  |
| Panel mount nut - plastic                   | <b>P32KA00MP</b>  |
| Angle bracket (fits to panel mount threads) | <b>P32KA00MR</b>  |
| T-bracket (fits to body connector)          | <b>P32KA00MB</b>  |
| T-bracket with body connector               | <b>P32KA00MT</b>  |
| Body connector                              | <b>P32KA00CB</b>  |

## Gauges

### 50mm (2") Round 1/4" center back mount

|                       |                    |
|-----------------------|--------------------|
| 0-30 psig / 0-2 bar   | <b>K4520N14030</b> |
| 0-60 psig / 0-4 bar   | <b>K4520N14060</b> |
| 0-160 psig / 0-11 bar | <b>K4520N14160</b> |
| 0-300 psig / 0-20 bar | <b>K4520N14300</b> |

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

