



# AIR PREPARATION SYSTEM P3X LITE SERIES

G1/2 & G3/4 Body ported





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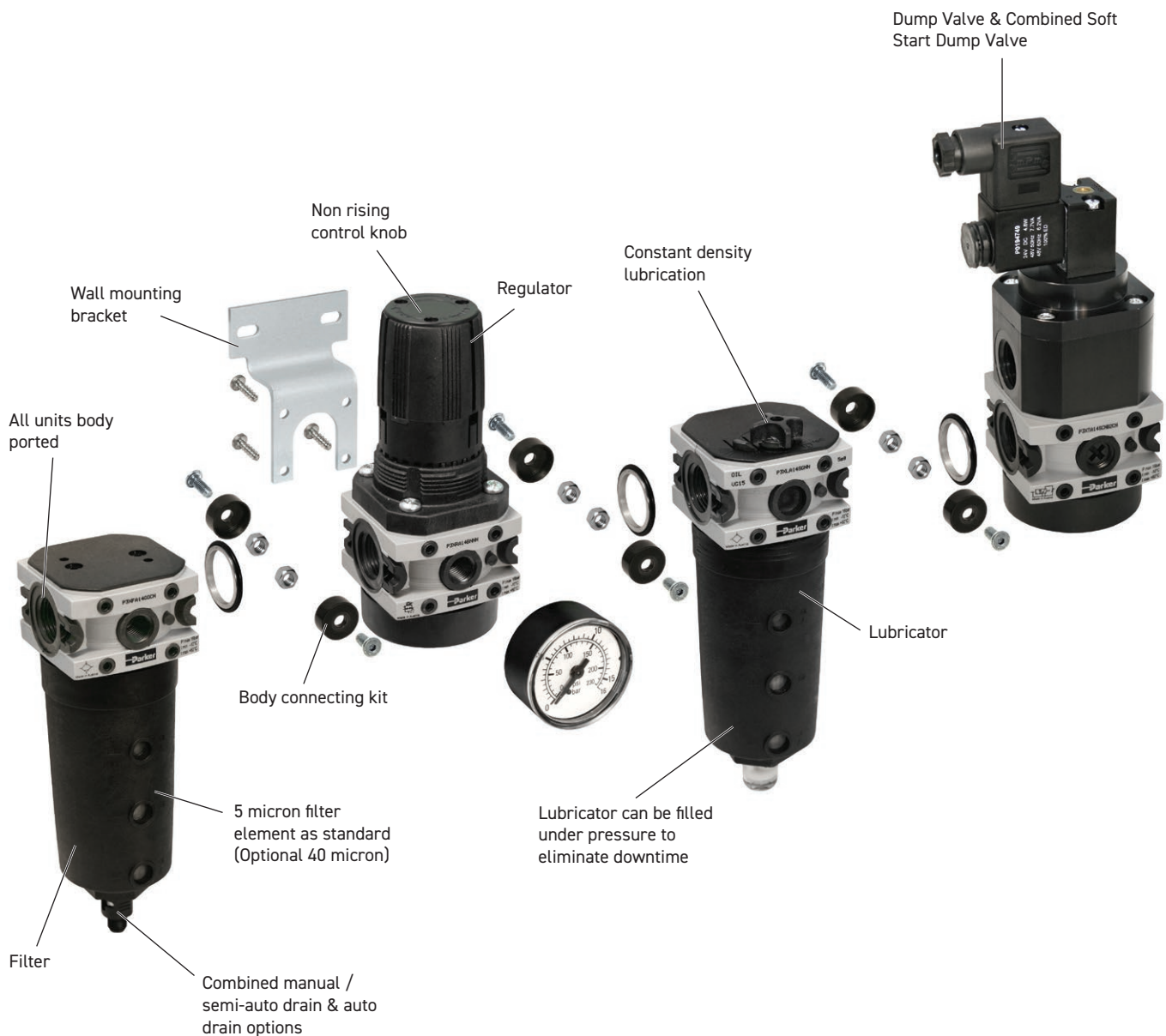
# THE SYSTEM

The P3X system allows units to be connected together, without the use of pipe connectors, saving space; providing constant mounting centres; whilst maintaining a modern aesthetically pleasing appearance.

The P3X Filters are specially designed to efficiently filter out rust, dirt, moisture and other impurities from compressed air lines. Operation is fully automatic with a minimum of pressure drop. Coalescing filters and adsorber filters for high purity air are also included in the P3X series.

The P3X Regulators are designed to provide quick response and accurate pressure regulation for the most demanding hi-flow industrial applications. The rolling diaphragm was designed for long trouble-free operation and will not rupture or tear under high cycle or other demanding applications.

The P3X mist lubricators are designed to provide lubrication for many general purpose applications in a pneumatic system.



# NEW TECHNOLOGY

The P3X Lite FRL system is constructed from ultra light weight technopolymers instead of the traditional aluminium or zinc die cast, this means that is up to 45% lighter than conventional units. This non-metal construction also means that the P3X Lite is corrosion free enabling it to be used in harsh industrial environments where anti freeze or aggressive synthetic oils are present.

The use of technopolymers in the design of P3X Lite has facilitated a universal body design, this has resulted in reducing the number of variants required to cover the full spectrum of applications. This can dramatically lower logistic costs and simplify stock holding for customers making the P3X Lite a very cost effective solution.



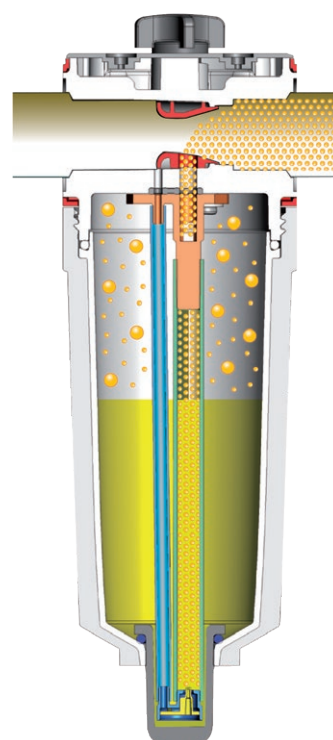
## NANO MIST

### New Nano Mist Technology, New Lubricator Concept. Self-Adjusting.

With conventional lubricators, only the oil volume per time unit can be adjusted. If the demand changes, the quantity dispensed still remains constant.

The P3X Lite lubricator concept sets new benchmarks here. For the first time, the oil volume is automatically adjusted to the flow rate. This ensures that there is neither too little nor too much oil in the system, which leads to clear economic and ecological advantages. In addition, with conventional systems, the distance between the lubricator and the equipment has to be less than 8 meters. With larger distances, the dispensed oil is deposited as a wall flow.

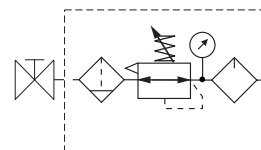
The new lubricator principle of the P3X Lite allows for distances of up to 40 meters. This opens up new scope for the design of even more efficient production systems.



# POPULAR COMBINATIONS



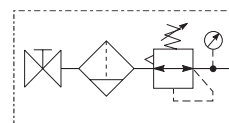
**Slide Valve + Filter/Regulator + Lubricator Combinations (50mg/m<sup>3</sup>)**  
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets



| Port Size | Combined Manual/Semi-Auto Drain | Flow dm <sup>3</sup> /s | Weight (g) | Auto Drain             | Flow dm <sup>3</sup> /s | Weight (g) |
|-----------|---------------------------------|-------------------------|------------|------------------------|-------------------------|------------|
| G1/2      | <b>P3XAA14GECNGPNW</b>          | 76                      | 1300       | <b>P3XAA14GEANGPNW</b> | 76                      | 1300       |
| G3/4      | <b>P3XAA16GECNGPNW</b>          | 77                      | 1300       | <b>P3XAA16GEANGPNW</b> | 77                      | 1300       |



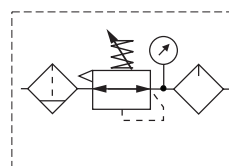
**Slide Valve + Filter/Regulator Combinations**  
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets



| Port Size | Combined Manual/Semi-Auto Drain | Flow dm <sup>3</sup> /s | Weight (g) | Auto Drain           | Flow dm <sup>3</sup> /s | Weight (g) |
|-----------|---------------------------------|-------------------------|------------|----------------------|-------------------------|------------|
| G1/2      | <b>P3XAN14GECNGW</b>            | 105                     | 950        | <b>P3XAN14GEANGW</b> | 105                     | 950        |
| G3/4      | <b>P3XAN16GECNGW</b>            | 106                     | 950        | <b>P3XAN16GEANGW</b> | 106                     | 950        |

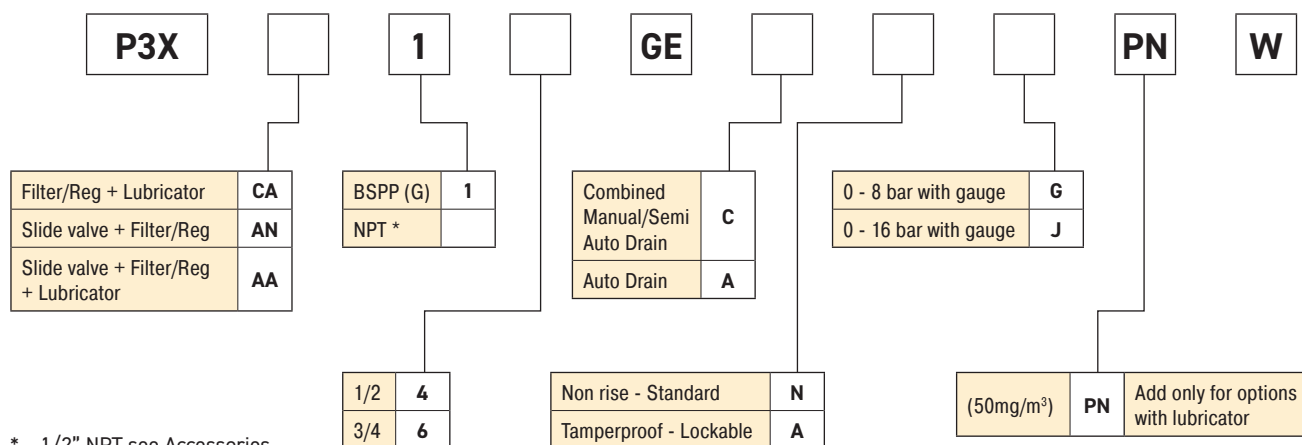


**Filter/Regulator + Lubricator Combinations (50mg/m<sup>3</sup>)**  
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets



| Port Size | Combined Manual/Semi-Auto Drain | Flow dm <sup>3</sup> /s | Weight (g) | Auto Drain             | Flow dm <sup>3</sup> /s | Weight (g) |
|-----------|---------------------------------|-------------------------|------------|------------------------|-------------------------|------------|
| G1/2      | <b>P3XCA14GECNGPNW</b>          | 76                      | 1000       | <b>P3XAA14GEANGPNW</b> | 76                      | 1000       |
| G3/4      | <b>P3XCA16GECNGPNW</b>          | 77                      | 1000       | <b>P3XAA16GEANGPNW</b> | 77                      | 1000       |

## Options

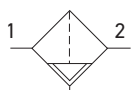


# PARTICULATE FILTERS

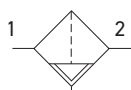
- Integral 1/2 or 3/4" ports
- 2 stage filtration
- High efficiency 5μ particulate element as standard
- Excellent water removal efficiency
- Low temperature -40°C with combined manual/semi auto drain as standard



## Symbols



Manual / Semi auto drain



Auto drain

## Options

**P3XFA**

**1**

|          |          |     |          |
|----------|----------|-----|----------|
| BSPP (G) | <b>1</b> | 1/2 | <b>4</b> |
| NPT *    |          | 3/4 | <b>6</b> |

\* 1/2" NPT see Accessories

|                            |          |
|----------------------------|----------|
| 5 Micron Element Standard  | <b>E</b> |
| 40 Micron Element Optional | <b>G</b> |
| 1 Micron Dust Filter       | <b>2</b> |

**G**

|                                 |          |
|---------------------------------|----------|
| Combined Manual/Semi Auto Drain | <b>C</b> |
| Auto Drain                      | <b>A</b> |

**N**

| Port size | Description                     | Order code         | Flow dm <sup>3</sup> /s * | Max bar | Min temp °C | Max temp °C | Bowl capacity cm <sup>3</sup> | Height mm | Width mm | Depth mm | Weight (g) |
|-----------|---------------------------------|--------------------|---------------------------|---------|-------------|-------------|-------------------------------|-----------|----------|----------|------------|
| 1/2       | Combined manual/semi auto drain | <b>P3XFA14EGCN</b> | 55                        | 16      | -40         | 60          | 60                            | 192       | 62       | 62       | 320        |
| 1/2       | Auto drain                      | <b>P3XFA14EGAN</b> | 55                        | 16      | -10         | 60          | 60                            | 192       | 62       | 62       | 320        |
| 3/4       | Combined manual/semi auto drain | <b>P3XFA16EGCN</b> | 57                        | 16      | -40         | 60          | 60                            | 192       | 62       | 62       | 320        |
| 3/4       | Auto drain                      | <b>P3XFA16EGAN</b> | 57                        | 16      | -10         | 60          | 60                            | 192       | 62       | 62       | 320        |

\* flow with 6,3 bar inlet pressure and 0,5 pressure drop.

### Technical Information

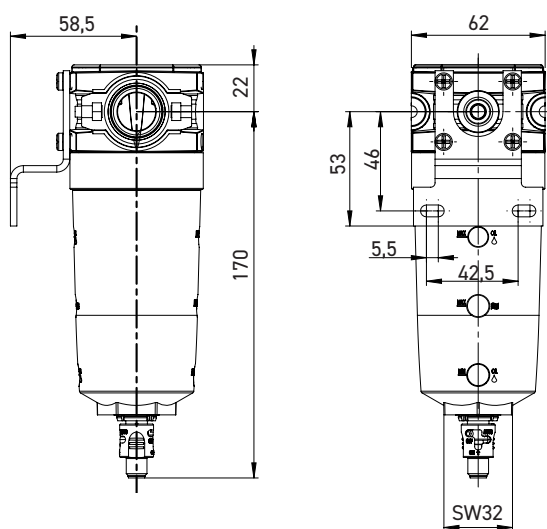
|                                                                                         |                              |
|-----------------------------------------------------------------------------------------|------------------------------|
| Fluid:                                                                                  | Compressed air               |
| Maximum inlet pressure:                                                                 | 16 bar                       |
| Temperature range*:<br>Auto drain:<br>Combined drain:                                   | -10 to +60°C<br>-40 to +60°C |
| Particle removal:                                                                       | 1, 5 & 40 micron             |
| Typical flow with 5µm element 6,3 bar inlet pressure and 0.5 bar pressure drop:         | 1/2" 55 dm³/s                |
| Semi-auto drain:<br>bowl pressure to close drain                                        | 0.8 bar                      |
| Auto drain:<br>bowl pressure to close drain<br>Operating range manual override facility | 0.8 bar<br>0.8 to 16 bar     |
| Bowl sump capacity:                                                                     | 60 cm³                       |

\* Air supply must be dry enough to avoid ice formation at temperatures below +2°C

### Material Specification

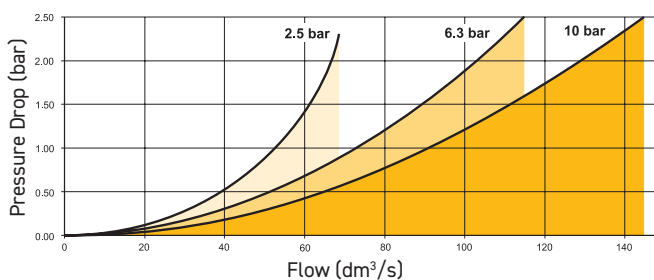
|              |                     |                   |
|--------------|---------------------|-------------------|
| Body:        |                     | High tech polymer |
| Sight glass: |                     | Polypropylene     |
| Body cover:  |                     | ABS               |
| Element:     |                     | Sintered P.E.     |
| Seals:       |                     | Nitrile NBR       |
| Drains:      | Manual / Semi-auto: | Acetal            |
|              | Automatic:          | PA / Brass        |

### Dimensions (mm)

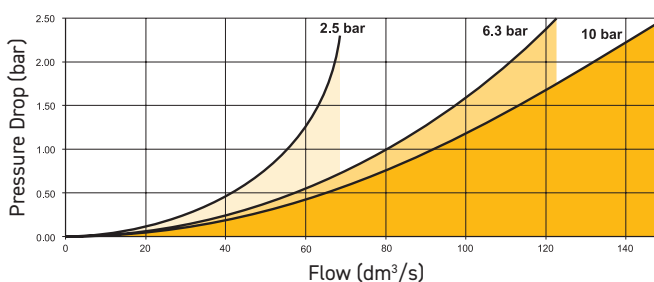


### Flow characteristics

#### (1/2) 5 Micron Filter



#### (3/4) 5 Micron Filter



### Service kits

| Description                                   | Order code        |
|-----------------------------------------------|-------------------|
| 5 micron element kit                          | <b>P3XKA00ESE</b> |
| 40 micron element kit                         | <b>P3XKA00ESG</b> |
| Bowl kit with combines manual/semi auto drain | <b>P3XKA00BSC</b> |
| Bowl kit with auto drain                      | <b>P3XKA00BSA</b> |
| 1 micron element kit                          | <b>P3XKA00ES9</b> |

# COALESCING FILTERS

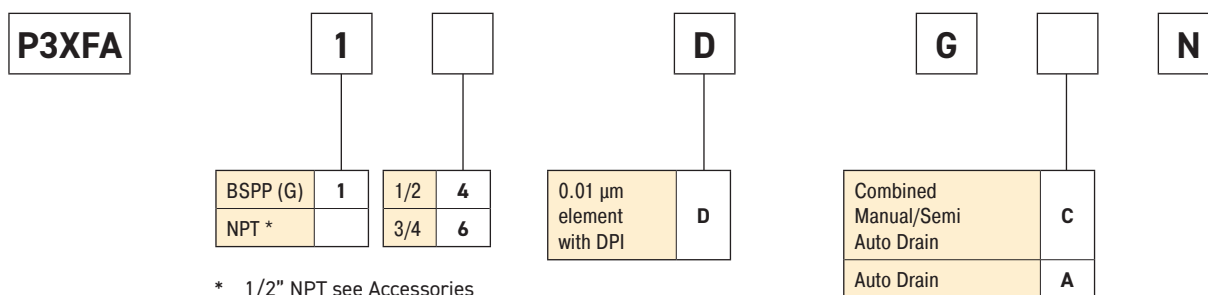
- Integral 1/2 or 3/4 ports
- Removes liquid aerosols and sub micron particles
- Oil free air for critical applications, such as air gauging, pneumatic instrumentation and control

## Note:

To optimise the life of the coalescing element, it is advisable to install a P3XFA pre-filter with a 5 or 1 micron element upstream of the coalescing filter.



## Options



| Port size | Description                                               | Order code         | Flow dm <sup>3</sup> /s * | Max bar | Min temp °C | Max temp °C | Bowl capacity cm <sup>3</sup> | Height mm | Width mm | Depth mm | Weight (g) |
|-----------|-----------------------------------------------------------|--------------------|---------------------------|---------|-------------|-------------|-------------------------------|-----------|----------|----------|------------|
| 1/2       | Coalescing Filter 0.01µm, Combined manual/semi auto drain | <b>P3XFA14DGCN</b> | 24                        | 16      | -10         | 60          | 60                            | 217       | 62       | 62       | 320        |
| 1/2       | Coalescing Filter 0.01µm, auto drain                      | <b>P3XFA14DGAN</b> | 24                        | 16      | -10         | 60          | 60                            | 217       | 62       | 62       | 320        |
| 3/4       | Coalescing Filter 0.01µm, Combined manual/semi auto drain | <b>P3XFA16DGCN</b> | 24                        | 16      | -10         | 60          | 60                            | 217       | 62       | 62       | 320        |
| 3/4       | Coalescing Filter 0.01µm, auto drain                      | <b>P3XFA16DGAN</b> | 24                        | 16      | -10         | 60          | 60                            | 217       | 62       | 62       | 320        |

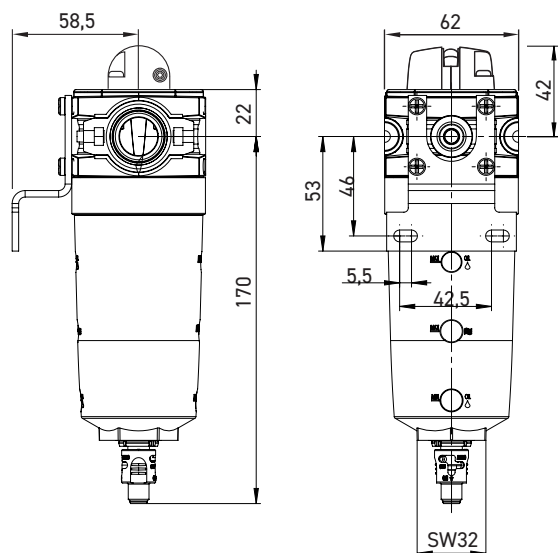
\* flow with 6,3 bar inlet pressure and 0,5 pressure drop.

| Technical Information                                                                   |                                                                  |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Fluid:                                                                                  | Compressed air                                                   |
| Maximum inlet pressure:                                                                 | 16 bar                                                           |
| Temperature range*:                                                                     | -10 to +60°C                                                     |
| Media specifications:<br>Coalescing efficiency<br>Max. oil carryover (PPM w/w):         | (0.3 to 0.6 micron particles): 99.97%<br>0.008 mg/m <sup>3</sup> |
| Typical flow with 5µm element 6,3 bar inlet pressure and 0.5 bar pressure drop:         | 16 dm <sup>3</sup> /s                                            |
| Semi-auto drain:<br>bowl pressure to close drain                                        | 0.8 bar                                                          |
| Auto drain:<br>bowl pressure to close drain<br>Operating range manual override facility | 0.8 bar<br>0.8 to 16 bar                                         |
| Bowl sump capacity:                                                                     | 60 cm <sup>3</sup>                                               |

\* Air supply must be dry enough to avoid ice formation at temperatures below +2°C

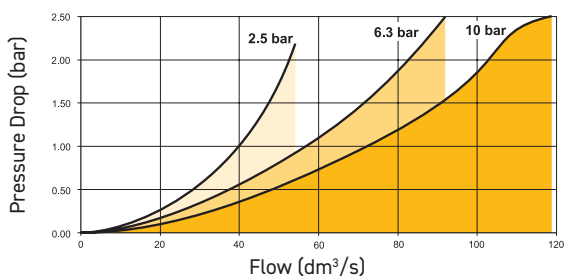
| Material Specification                     |                            |            |
|--------------------------------------------|----------------------------|------------|
| Body:                                      | High tech polymer          |            |
| Sight glass:                               | Polypropylene              |            |
| Filter cover:                              | ABS                        |            |
| Coalescing element:                        | Borosilicate & Nano fibres |            |
| Top & bottom end cap:                      | Glass filled nylon - Black |            |
| Support cylinders:                         | Grade 430 stainless steel  |            |
| Support media:                             | Polypropylene              |            |
| Anti re-entrainment barrier:               | Polyester                  |            |
| Ensapulate:                                | Epoxy resin / Hardener     |            |
| Seals:                                     | Nitrile NBR                |            |
| Drains:                                    | Manual / Semi-auto:        | Acetal     |
|                                            | Automatic:                 | PA / Brass |
| Differential pressure indicator materials: |                            |            |
| Body:                                      | Acetal                     |            |
| Internal parts:                            | Acetal                     |            |
| Spring:                                    | Stainless steel            |            |
| Seals:                                     | Nitrile NBR                |            |
| Screws:                                    | Steel / zinc plated        |            |

## Dimensions (mm)

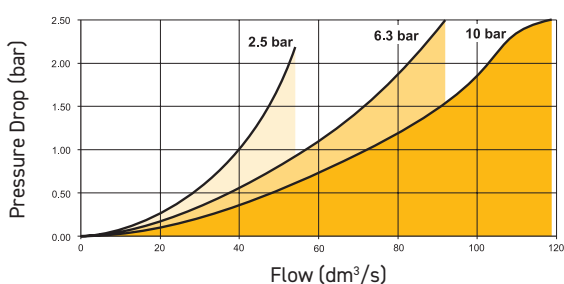


## Flow characteristics

### (1/2) 0.01µm Coalescing Filter Saturated



### (3/4) 0.01µm Coalescing Filter Saturated



## Service kits

| Description                                   | Order code        |
|-----------------------------------------------|-------------------|
| 0.01 micron coalescing element kit            | <b>P3XKA00ESC</b> |
| Bowl kit with combines manual/semi auto drain | <b>P3XKA00BSC</b> |
| Bowl kit with auto drain                      | <b>P3XKA00BSA</b> |
| Differential pressure indicator kit           | <b>P3XKA00RQ</b>  |

# ADSORBER FILTERS

## Adsorber Oil Vapour Filters

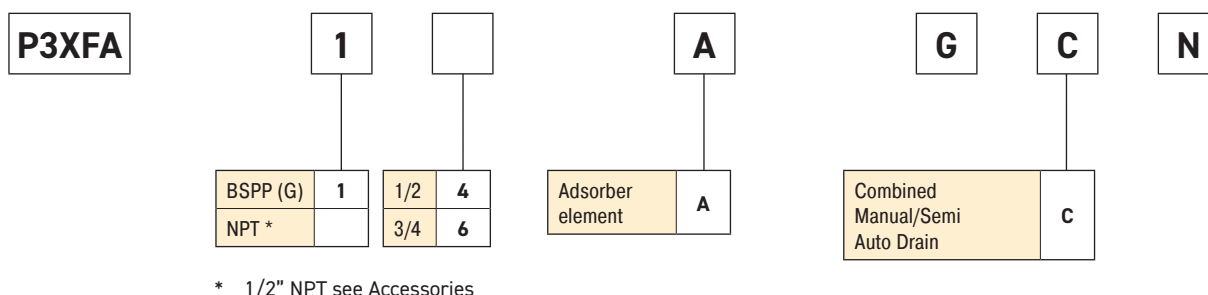
- Integral 1/2 or 3/4 ports
- Adsorber activated carbon element removes oil vapours and most hydrocarbons

### Note:

To optimise the life of the adsorber element, it is advisable to install a P3X pre filter 1 or 5 micron and a coalescer 0.01 µm filter upstream of the adsorber filter.



## Options



| Port size | Description                             | Order code         | Flow dm <sup>3</sup> /s * | Max bar | Min temp °C | Max temp °C | Bowl capacity cm <sup>3</sup> | Height mm | Width mm | Depth mm | Weight (g) |
|-----------|-----------------------------------------|--------------------|---------------------------|---------|-------------|-------------|-------------------------------|-----------|----------|----------|------------|
| 1/2       | Adsorber Filter, Manual/Semi-auto drain | <b>P3XFA14AGCN</b> | 18                        | 16      | -10         | 60          | 60                            | 192       | 62       | 62       | 320        |
| 3/4       | Adsorber Filter, Manual/Semi-auto drain | <b>P3XFA16AGCN</b> | 18                        | 16      | -10         | 60          | 60                            | 192       | 62       | 62       | 320        |

\* flow with 6,3 bar inlet pressure and 0,5 pressure drop.

### Technical Information

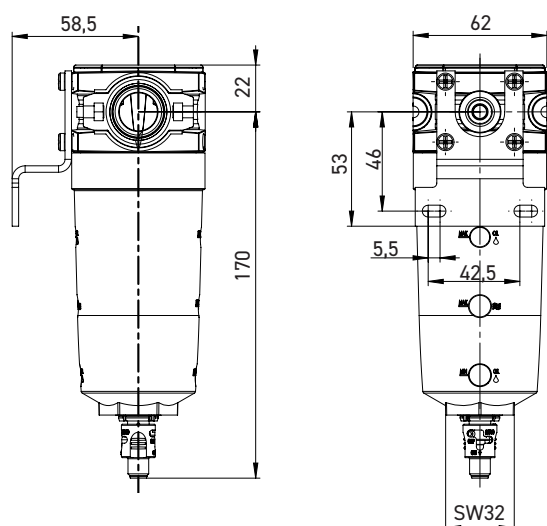
|                                                                   |                            |
|-------------------------------------------------------------------|----------------------------|
| Fluid:                                                            | Compressed air             |
| Maximum inlet pressure:                                           | 16 bar                     |
| Temperature range*:                                               | -10 to +60°C               |
| Typical flow at 6,3 bar inlet pressure and 0.2 bar pressure drop: | Adsorber 18 dm³/s          |
| Manual / Semi-auto drain: to close connection                     | 1/8" connection<br>0.8 bar |

\* Air supply must be dry enough to avoid ice formation at temperatures below +2°C

### Material Specification

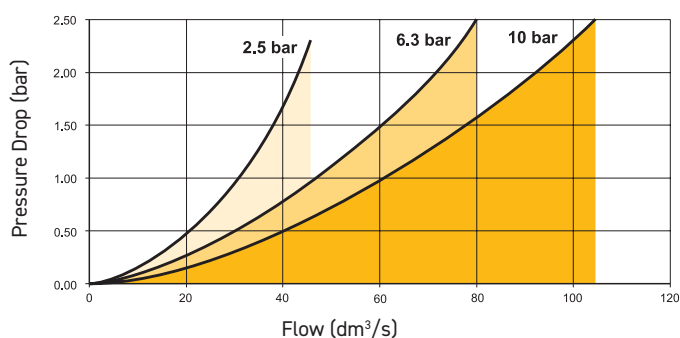
|                           |                           |
|---------------------------|---------------------------|
| Body:                     | High tech polymer         |
| Sight glass:              | Polypropylene             |
| Filter cover:             | ABS                       |
| Adsorber element:         | Activated carbon          |
| Top & bottom endcap:      | Glass filled nylon        |
| Support cylinders:        | Grade 430 stainless steel |
| Support media:            | 100% spun polypropylene   |
| Support sock:             | Polyester needlefelt      |
| Encapsulant:              | Epoxy resin / Hardener    |
| Seals:                    | Nitrile NBR               |
| Drain: Manual / Semi-auto | Acetal                    |

### Dimensions (mm)

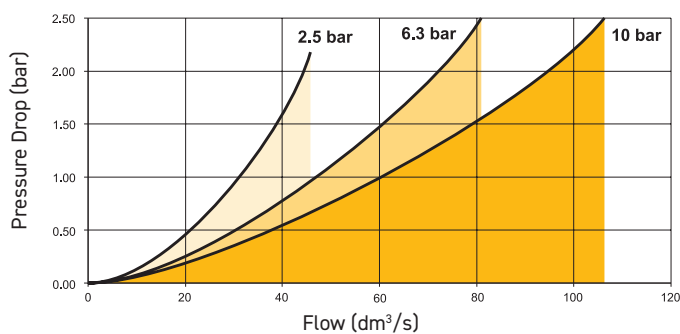


### Flow characteristics

#### (1/2) Adsorber Filter



#### (3/4) Adsorber Filter



### Service kits

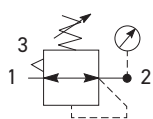
| Description                | Order code        |
|----------------------------|-------------------|
| Adsorber element kit       | <b>P3XKA00ESA</b> |
| Bowl kit with manual drain | <b>P3XKA00BSC</b> |

# REGULATORS

- Integral 1/2 or 3/4 ports
- Secondary pressure ranges 8 & 16 bar
- Rolling diaphragm for extended life
- Secondary aspiration plus rolling diaphragm provides quick response and accurate pressure regulation.
- Optional tamperproof regulator, up to x 3 padlocks
- Relieving & Non-relieving types
- Low temperature -40°C as standard



## Symbols



Self relieving regulator with gauge

## Options

|              |          |     |          |           |   |                        |   |                  |   |
|--------------|----------|-----|----------|-----------|---|------------------------|---|------------------|---|
| <b>P3XRA</b> | <b>1</b> |     | <b>B</b> |           |   | <b>N</b>               |   |                  |   |
| BSPP (G)     | 1        | 1/2 | 4        | Relieving | B | Non rise - standard    | N | 0 - 4 bar Gauge  | M |
| NPT *        |          | 3/4 | 6        |           |   | Tamperproof - Lockable | A | 0 - 8 bar Gauge  | G |
|              |          |     |          |           |   |                        |   | 0 - 16 bar Gauge | J |

\* 1/2" NPT see Accessories

\* 1/2" NPT see Accessories

| Port size | Description                                                | Order code         | Flow dm <sup>3</sup> /s * | Max bar | Min temp °C | Max temp °C | Height mm | Width mm | Depth mm | Weight (g) |
|-----------|------------------------------------------------------------|--------------------|---------------------------|---------|-------------|-------------|-----------|----------|----------|------------|
| 1/2       | 8 bar relieving + pressure gauge                           | <b>P3XRA14BNGN</b> | 122                       | 16      | -10         | 60          | 150       | 62       | 95       | 410        |
| 3/4       | 8 bar relieving + pressure gauge                           | <b>P3XRA16BNGN</b> | 134                       | 16      | -10         | 60          | 150       | 62       | 95       | 410        |
| 1/2       | 8 bar relieving with tamperproof facility + pressure gauge | <b>P3XRA14BAGN</b> | 122                       | 16      | -10         | 60          | 158       | 62       | 95       | 410        |
| 3/4       | 8 bar relieving with tamperproof facility + pressure gauge | <b>P3XRA16BAGN</b> | 134                       | 16      | -10         | 60          | 158       | 62       | 95       | 410        |

\* flow with 6,3 bar inlet pressure and 0,5 pressure drop.  
 Tamperproof regulator will require lock kit (on opposite page) to lock regulator.

### Technical Information

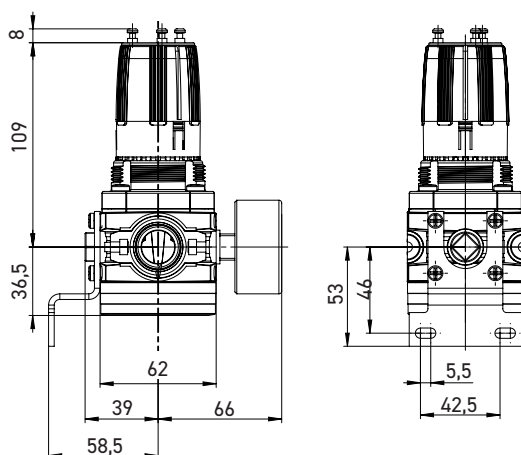
|                                                                                        |                                                            |
|----------------------------------------------------------------------------------------|------------------------------------------------------------|
| Fluid:                                                                                 | Compressed air                                             |
| Maximum inlet pressure:                                                                | 16 bar                                                     |
| Temperature range*:                                                                    | -10 to +60°C                                               |
| Typical flow with 10 bar inlet pressure, 6.3 bar set pressure and 1 bar pressure drop: | 1/2" 122 dm <sup>3</sup> /s<br>3/4" 134 dm <sup>3</sup> /s |
| Gauge port ( x 2 ):                                                                    | 1/4"                                                       |

\* Air supply must be dry enough to avoid ice formation at temperatures below +2°C

### Material Specification

|                  |                   |
|------------------|-------------------|
| Body:            | High tech polymer |
| Bonnet:          | High tech polymer |
| Regulator cover: | ABS               |
| Control Knob:    | Polyamide         |
| Valve:           | Brass / Nitrile   |
| Seals:           | Nitrile NBR       |
| Screws:          | Stainless steel   |

### Dimensions (mm)



### Service kits

| Description                        | Order code        |
|------------------------------------|-------------------|
| Wall bracket - Stainless steel     | <b>P3XKA00MW</b>  |
| Panel mounting nut                 | <b>P3XKA00MM</b>  |
| Key lock                           | <b>P3XKA00AS</b>  |
| Diaphragm kit (relieving type)     | <b>P3XKA00RR</b>  |
| Diaphragm kit (non-relieving type) | <b>P3XKA00RN</b>  |
| Pressure Gauge                     | 0 to 10 bar G1/4" |
|                                    | 0 to 16 bar G1/4" |

### Lockable Tamperproof Kit

(up to x 3 padlocks)

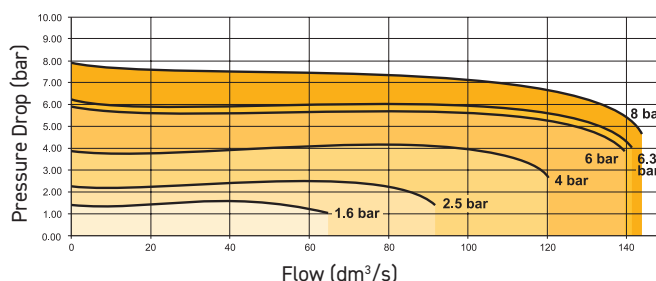
This facilitates the tamperproofing of the Regulator and Filter-Regulator units. (On request)



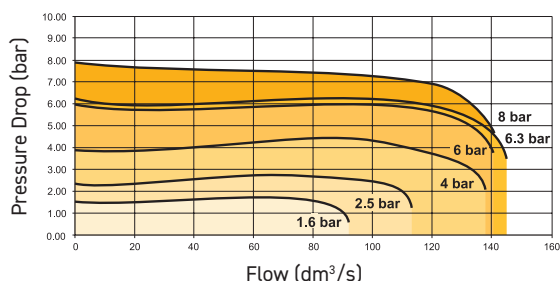
| Description    | Order code       |
|----------------|------------------|
| 1 Padlock each | <b>P3XKA00AS</b> |

### Flow characteristics

#### Regulation characteristics: (1/2)



#### Regulation characteristics: (3/4)

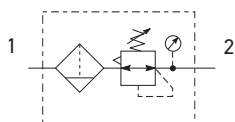


# FILTERS/REGULATORS

- Integral 1/2 or 3/4 ports
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Secondary pressure ranges 8 and 16 bar
- Rolling diaphragm for extended life
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Low temperature -40°C with combined manual/semi - auto drain as standard

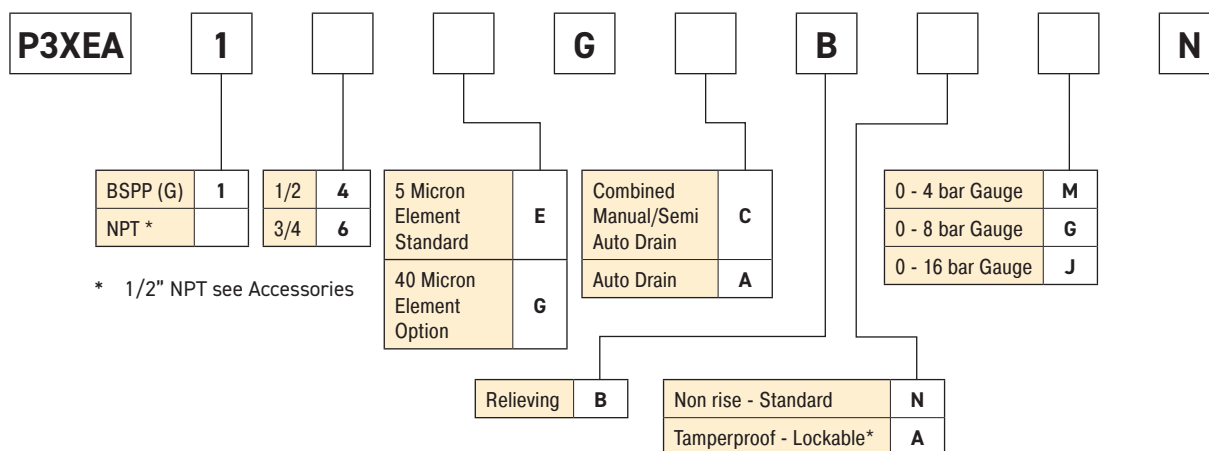


## Symbols



Self relieving regulator with gauge

## Options



\* Tamperproof regulator will require lock kit (see Accessories) to lock regulator.

| Port size | Description                                                | Order code            | Flow dm <sup>3</sup> /s * | Max bar | Min temp °C | Max temp °C | Bowl capacity cm <sup>3</sup> | Height mm | Width mm | Depth mm | Weight (g) |
|-----------|------------------------------------------------------------|-----------------------|---------------------------|---------|-------------|-------------|-------------------------------|-----------|----------|----------|------------|
| 1/2       | 8 bar, relieving, gauge<br>Combined manual/semi auto drain | <b>P3XEA14EGCBNGN</b> | 111                       | 16      | -10         | 60          | 60                            | 280       | 62       | 62       | 550        |
| 1/2       | 8 bar relieving, gauge, auto drain                         | <b>P3XEA14EGABNGN</b> | 111                       | 16      | -10         | 60          | 60                            | 280       | 62       | 62       | 550        |
| 3/4       | 8 bar, relieving, gauge<br>Combined manual/semi auto drain | <b>P3XEA16EGCBNGN</b> | 113                       | 16      | -10         | 60          | 60                            | 280       | 62       | 62       | 550        |
| 3/4       | 8 bar relieving, gauge, auto drain                         | <b>P3XEA16EGABNGN</b> | 113                       | 16      | -10         | 60          | 60                            | 280       | 62       | 62       | 550        |

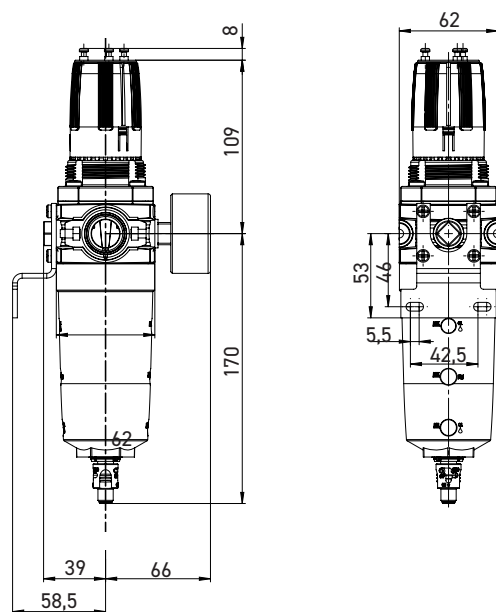
\* flow with 6,3 bar inlet pressure and 0,5 pressure drop.

### Technical Information

|                                                                                                |                                |
|------------------------------------------------------------------------------------------------|--------------------------------|
| Fluid:                                                                                         | Compressed air                 |
| Maximum inlet pressure:                                                                        | 16 bar                         |
| Temperature range*:<br>Auto drain:<br>Combined drain:                                          | -10° to +60°C<br>-40° to +60°C |
| Particle removal:                                                                              | 5 micron and 40 micron         |
| Typical flow with 10 bar inlet pressure 6,3 bar set pressure and 1 bar pressure drop 106 dm³/s |                                |
| Manual / Semi-auto drain:<br>pressure to close drain                                           | 0.8 bar                        |
| Auto drain:<br>bowl pressure to close drain<br>Operating range manual override facility        | 0.8 bar<br>0.8 to 16 bar       |
| Bowl sump capacity:                                                                            | 60 cm³                         |
| Gauge ports ( x 2 ):                                                                           | 1/4"                           |

\* Air supply must be dry enough to avoid ice formation at temperatures below +2°C

### Dimensions (mm)



### Service kits

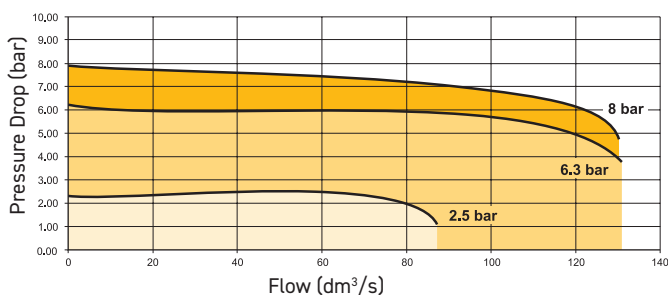
| Description                                   | Order code        |       |                  |
|-----------------------------------------------|-------------------|-------|------------------|
| 5 micron element kit                          | <b>P3XKA00ESE</b> |       |                  |
| 40 micron element kit                         | <b>P3XKA00ESG</b> |       |                  |
| Bowl kit with combined manual/semi auto drain | <b>P3XKA00BSC</b> |       |                  |
| Bowl kit with auto drain                      | <b>P3XKA00BSA</b> |       |                  |
| Tamper-proof knob kit (keylock)               | <b>P3XKA00AS</b>  |       |                  |
| Diaphragm kit (relieving type)                | <b>P3XKA00RR</b>  |       |                  |
| Diaphragm kit (non-relieving type)            | <b>P3XKA00RN</b>  |       |                  |
| Wall bracket kit - Stainless steel            | <b>P3XKA00MW</b>  |       |                  |
| Panel mount nut                               | <b>P3XKA00MM</b>  |       |                  |
| Pressure Gauge                                | 0 to 10 bar       | G1/4" | <b>KG8012-00</b> |
|                                               | 0 to 16 bar       | G1/4" | <b>KG8013-00</b> |
| Key Lock                                      | <b>P3XKA00AS</b>  |       |                  |

### Material Specification

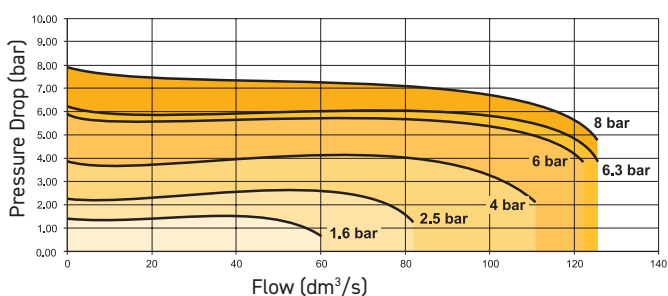
|                                            |                     |                   |
|--------------------------------------------|---------------------|-------------------|
| Body:                                      |                     | High tech polymer |
| Sight glass:                               |                     | Polypropylene     |
| Body cover:                                |                     | ABS               |
| Element:                                   |                     | Sintered P.E.     |
| Seals:                                     |                     | Nitrile NBR       |
| Drains:                                    | Manual / Semi-auto: | Acetal            |
|                                            | Automatic:          | PA / Brass        |
| Differential pressure indicator materials: |                     |                   |
| Bonnet:                                    |                     | High tech polymer |
| Control knob:                              |                     | Polyamide         |
| Valve:                                     |                     | Brass / Nitrile   |
| Screws:                                    |                     | Stainless steel   |

### Flow characteristics

#### (1/2) 5 Micron Filter/Regulator



#### (3/4) 5 Micron Filter/Regulator

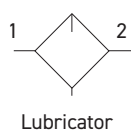


# LUBRICATORS

- Integral 1/2 or 3/4 ports
- Proportional oil delivery over a wide range of air flows.
- No adjustment necessary (self adjusting)
- Fill from top under system pressure



## Symbols



## Options

**P3XLA**

**1**

|          |   |     |   |
|----------|---|-----|---|
| BSPP (G) | 1 | 1/2 | 4 |
| NPT *    |   | 3/4 | 6 |

**P**

|                      |                 |
|----------------------|-----------------|
| 50 mg/m <sup>3</sup> | P <sup>1)</sup> |
|----------------------|-----------------|

**GNN**

\* 1/2" NPT see Accessories

| Port size | Description                                          | Order code         | Flow dm <sup>3</sup> /s * | Max bar | Min temp °C | Max temp °C | Bowl capacity cm <sup>3</sup> | Height mm | Width mm | Depth mm | Weight (g) |
|-----------|------------------------------------------------------|--------------------|---------------------------|---------|-------------|-------------|-------------------------------|-----------|----------|----------|------------|
| 1/2       | Oil mist, fill under pressure (50mg/m <sup>3</sup> ) | <b>P3XLA14PGNN</b> | 78                        | 16      | -10         | 60          | 90                            | 195       | 62       | 62       | 300        |
| 3/4       | Oil mist, fill under pressure (50mg/m <sup>3</sup> ) | <b>P3XLA16PGNN</b> | 78                        | 16      | -10         | 60          | 90                            | 195       | 62       | 62       | 300        |

\* flow with 6,3 bar inlet pressure and 0,5 pressure drop.

<sup>1)</sup> Best for components which require effective lubrication (e.g. vane driven pneumatic motors / air tools etc.)

### Technical Information

|                         |                |
|-------------------------|----------------|
| Fluid:                  | Compressed air |
| Maximum inlet pressure: | 16 bar         |
| Temperature range*:     | -10 to +60°C   |

\* Air supply must be dry enough to avoid ice formation at temperatures below +2°C

Low flow start point (lubrication pick-up): at 6.3bar inlet pressure 7 dm<sup>3</sup>/s

Typical flow with 6.3bar inlet pressure and 0.5 bar pressure drop: 78 dm<sup>3</sup>/s

### Note:

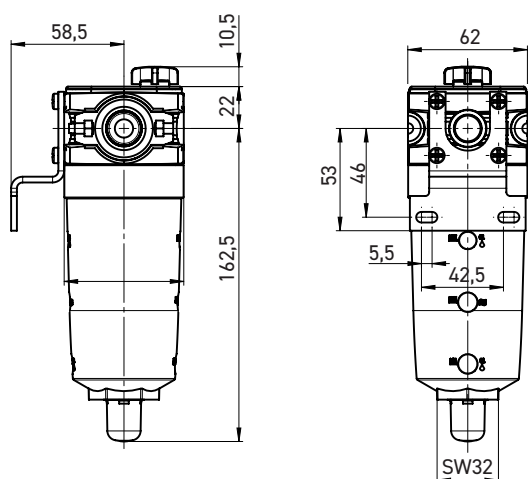
Fill lubricant from top only

Recommendation to use VG15 oil following ISO3448

### Material Specification

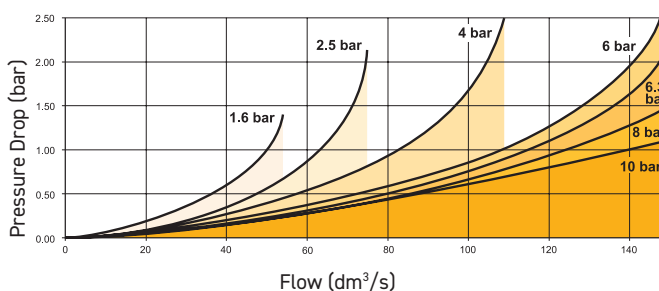
|                   |                   |
|-------------------|-------------------|
| Body:             | High tech polymer |
| Bowl sight glass: | Polypropylene     |
| Sight dome:       | PA (Nylon)        |
| Lubricator cover: | ABS               |
| Seals:            | Nitrile NBR       |

### Dimensions (mm)

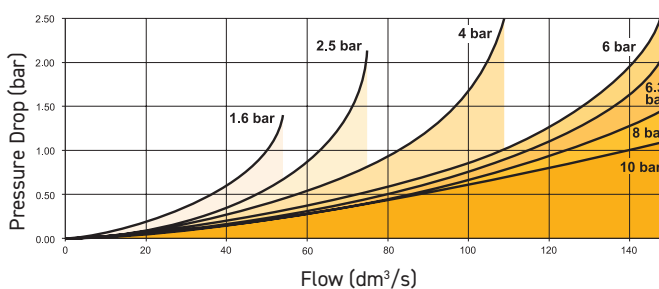


### Flow characteristics

#### (1/2) Lubricator



#### (3/4) Lubricator



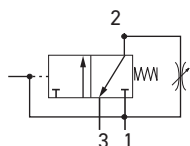
### Service kits

| Description | Order code        |
|-------------|-------------------|
| Bowl kit    | <b>P3XKA00BSN</b> |
| Refill plug | <b>P3XKA00PL</b>  |

# DUMP VALVE & COMBINED SOFT START DUMP

- Modular design with 1/2" & 3/4" integral ports (BSPP or NPT)
- Provides for the safe introduction of pressure
- Automatically dumps downstream pressure on the loss of pilot signal
- Adjustable slow start
- Solenoid or air pilot options
- High flow & exhaust capability

## Symbols

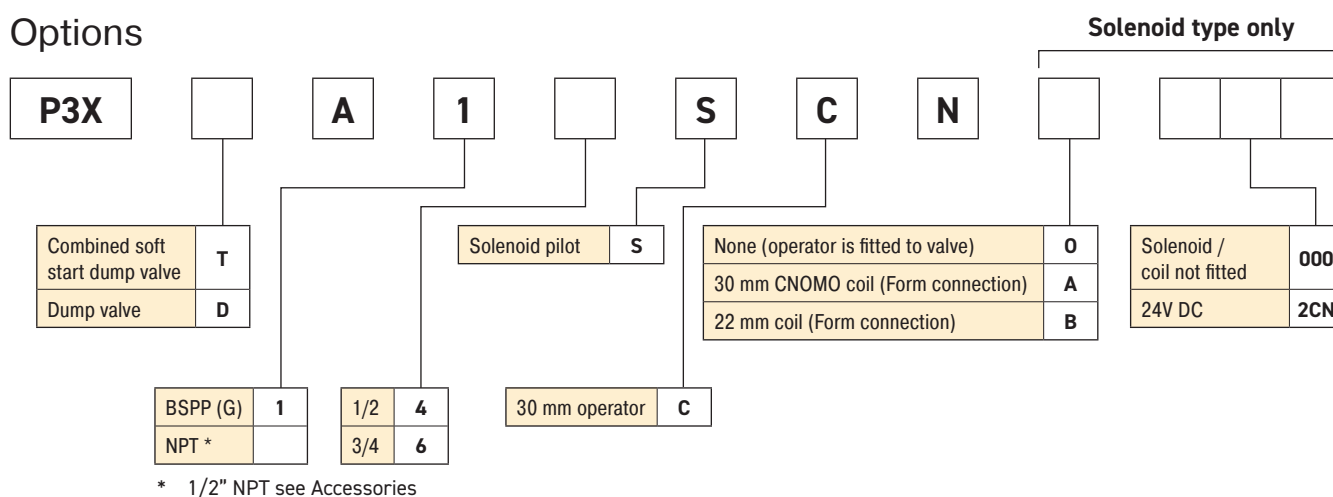


P3X Series Combined Soft Start/Dump Valves, provide for the safe introduction of pressure to machines or systems. Soft Start/Dump Valves when set, allow the pressure to gradually build to the set point before fully opening to deliver full flow at line pressure.

The controlled introduction of pressure can be an important safety factor and prevent damage to tooling when air pressure is introduced at machine or system start up.



## Options



| Port size | Description                      | Order code            | Flow dm <sup>3</sup> /s * | Max bar | Min temp °C | Max temp °C | Height mm | Width mm | Depth mm | Weight (g) |
|-----------|----------------------------------|-----------------------|---------------------------|---------|-------------|-------------|-----------|----------|----------|------------|
| 1/2       | Solenoid operated (not included) | <b>P3XTA14SCN0000</b> | 80                        | 16      | -10         | 60          | 144       | 62       | 62       | 0.75       |
| 1/2       | 24VDC 22mm coil                  | <b>P3XTA14SCNB2CN</b> | 80                        | 10      | -10         | 60          | 174       | 88       | 62       | 0.75       |
| 1/2       | 24VDC 30mm coil                  | <b>P3XTA14SCNA2CN</b> | 80                        | 16      | -10         | 60          | 174       | 88       | 62       | 0.75       |
| 3/4       | Solenoid operated (not included) | <b>P3XTA16SCN0000</b> | 88                        | 16      | -10         | 60          | 144       | 62       | 62       | 0.75       |
| 3/4       | 24VDC 22mm coil                  | <b>P3XTA16SCNB2CN</b> | 88                        | 10      | -10         | 60          | 174       | 88       | 62       | 0.75       |
| 3/4       | 24VDC 30mm coil                  | <b>P3XTA16SCNA2CN</b> | 88                        | 16      | -10         | 60          | 174       | 88       | 62       | 0.75       |

### Technical Information

|                                                                   |                                |
|-------------------------------------------------------------------|--------------------------------|
| Fluid:                                                            | Compressed air                 |
| Maximum pressure Solenoid operated 22 mm coil:                    | 10 bar                         |
| Maximum pressure Solenoid operated 30 mm coil:                    | 16 bar                         |
| Minimum operating pressure:                                       | 2 bar                          |
| Temperature range* Solenoid operated:                             | -10° to + 60°C                 |
| Temperature range* Air Pilot operated:                            | -10° to + 60°C                 |
| Air Pilot port:                                                   | 1/8 BSP                        |
| Exhaust port:                                                     | 1/2 BSP                        |
| Gauge port:                                                       | 1/4 BSP                        |
| Typical flow with 6.3 bar inlet pressure and 1 bar pressure drop: | 1/2" 80 dm³/s<br>3/4" 80 dm³/s |

\* Air supply must be dry enough to avoid ice formation at temperatures below +2°C

Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure

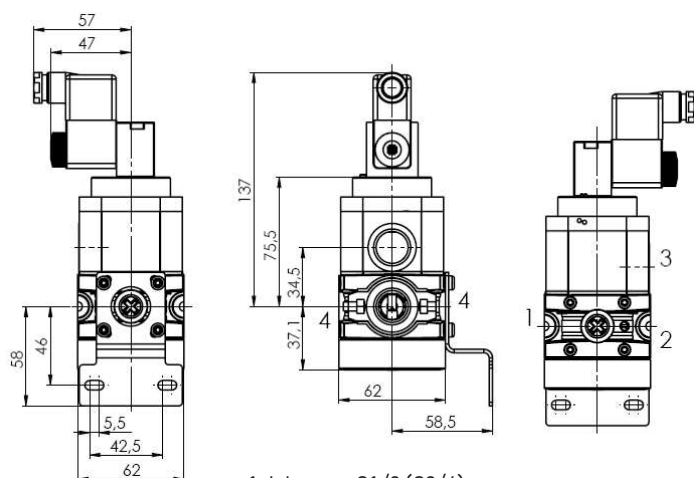
### Material Specification

|                      |                       |
|----------------------|-----------------------|
| Body:                | Aluminium             |
| Body cover:          | ABS                   |
| Valve:               | Brass / NBR composite |
| Pilot valve booster: | Aluminium             |
| Seals:               | Nitrile NBR           |

## Solenoid coils

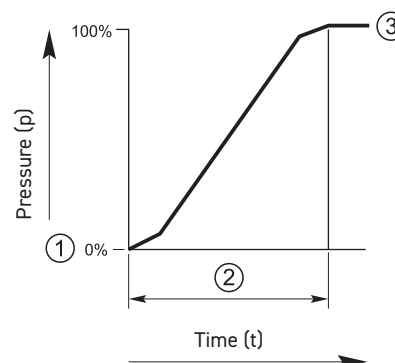
For Solenoid coil information refer to Solenoid Coils section.

## Dimensions (mm)



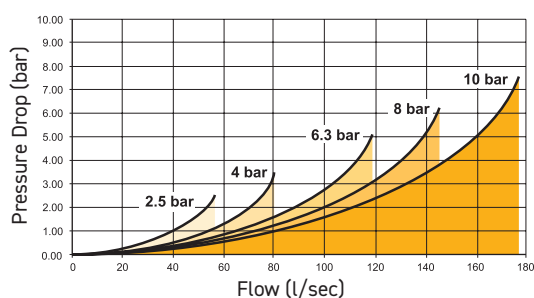
- 1: Inlet port G1/2 (G3/4)
- 2: Outlet port G1/2 (G3/4)
- 3: Exhaust port G1/2
- 4: Gauge port G1/4

## Flow characteristics



- ① Start signal
- ② Switching time delay
- ③ Operating pressure  $p^2 (=p^1)$

### Soft Start Dump Valve 24v 1/2" Port



# MODULAR BALL VALVES

## Slide Valves

- Padlockable
- When the inlet pressure is turned off the downstream vents through the exhaust port

P3X Series Slide Valves provide shut off line pressure to prevent unauthorised adjustment.

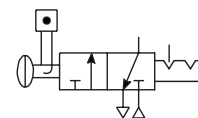
### Options

|            |           |          |     |            |
|------------|-----------|----------|-----|------------|
| <b>P3X</b> | <b>VA</b> | <b>1</b> |     | <b>LSN</b> |
|            | BSPP (G)  | 1        | 1/2 | 4          |
|            | NPT *     |          | 3/4 | 6          |

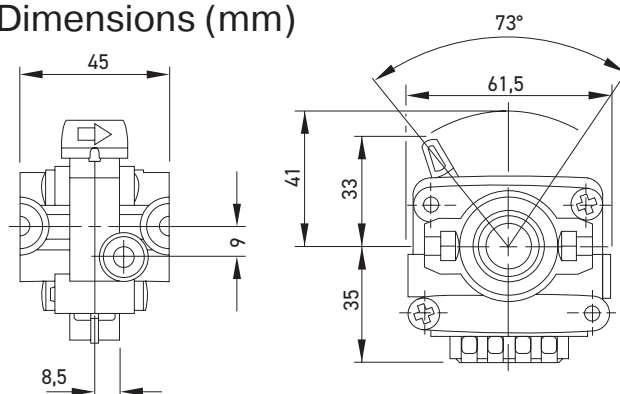
\* 1/2" NPT see Accessories



### Symbols



### Dimensions (mm)



| Technical Information    |       |               |  |
|--------------------------|-------|---------------|--|
| Operating Temperature:   |       | -10° to +60°C |  |
| Maximum Supply Pressure: |       | 16 bar        |  |
| Weight (g):              | G1/2" | 300 g         |  |
|                          | G3/4" | 300 g         |  |

| Material specification |                   |
|------------------------|-------------------|
| Body:                  | High tech polymer |
| Handle:                | Polyamide         |
| Seals:                 | Nitrile NBR       |
| Exhaust muffler:       | Sintered bronze   |

## Manifolds

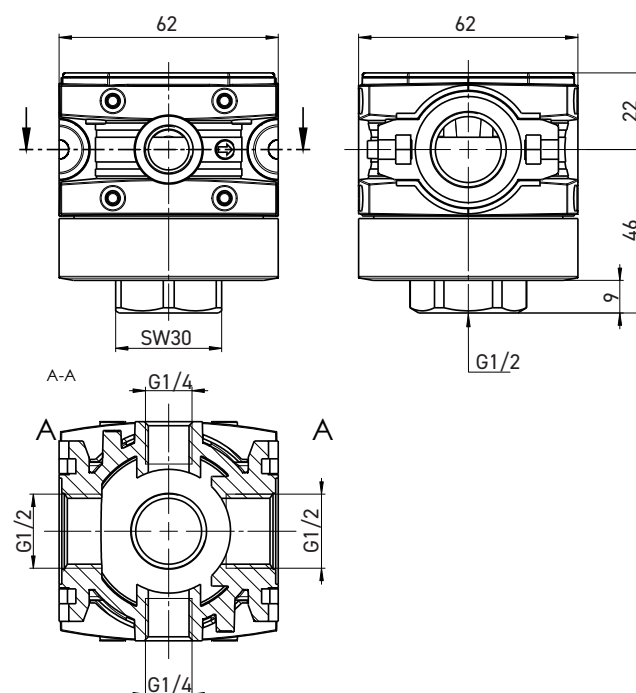


P3X Series Manifolds, provide up to 2 extra outlet ports, they may be assembled at any position in a combination e.g. before the lubricator to provide oil free take off or at the end of a combination to provide extra outlet ports.

| Description | Order code<br>BSPP | Weight<br>(g) |
|-------------|--------------------|---------------|
| G1/2        | <b>P3XMA1V0N</b>   | 170           |

| Material specification |                   |
|------------------------|-------------------|
| Body:                  | High tech polymer |
| Manifold Cover:        | ABS               |

### Dimensions (mm)



| Inlet port | Bottom | Front and Back |
|------------|--------|----------------|
| 1/2        | 1/2"   | 1/4"           |

# SOLENOID COILS

## Solenoid coils with Din A or Industrial B connection

| Voltage              | 30 mm x 30 mm<br>Order code DIN A<br>Standard | Weight (Kg) | 22 mm x 30 mm<br>Order code Industrial B<br>standard | Weight (Kg) |
|----------------------|-----------------------------------------------|-------------|------------------------------------------------------|-------------|
| Direct current       |                                               |             |                                                      |             |
| 12V DC               | <b>P2FCA445</b>                               | 0.105       | <b>P2FCB445</b>                                      | 0.093       |
| 24V DC               | <b>P2FCA449</b>                               | 0.105       | <b>P2FCB449</b>                                      | 0.093       |
| 48V DC               | <b>P2FCA453*</b>                              | 0.105       | <b>P2FCB451</b>                                      | 0.093       |
| Alternative current  |                                               |             |                                                      |             |
| 12V 50/60Hz          | <b>P2FCA440</b>                               | 0.105       | <b>P2FCB440</b>                                      | 0.093       |
| 24V 50/60Hz          | <b>P2FCA442</b>                               | 0.105       | <b>P2FCB442</b>                                      | 0.093       |
| 48V 50/60Hz          | <b>P2FCA469#</b>                              | 0.105       |                                                      |             |
| 110V 50Hz, 120V 60Hz | <b>P2FCA453</b>                               | 0.105       | <b>P2FCB453</b>                                      | 0.093       |
| 230V 50Hz, 230V 60Hz | <b>P2FCA457</b>                               | 0.105       | <b>P2FCB457</b>                                      | 0.093       |

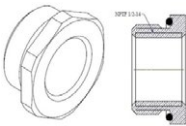
\* P2FCA453 is compatible with 110 V AC and 48 V DC

# P2FCA469 is 24 V DC 6.8W or 48 V 50Hz 9.9 VA

## Solenoid coils with M12 connection

| Voltage        | Order code Form A<br>30 x 30 | Weight (Kg) | Order code Form B<br>22 x 30 | Weight (Kg) |
|----------------|------------------------------|-------------|------------------------------|-------------|
| Direct current |                              |             |                              |             |
| 24V DC         | <b>P2FC6419</b>              | 0.065       | <b>P2FC7419</b>              | 0.065       |

# ACCESSORIES

| Description                                                                                                     | Connection   | Weight (g) | Order code                           |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------|--------------|------------|--------------------------------------|---------------------------------------------------------------------------------------|
| Panel mounting nut                                                                                              |              | 10         | <b>P3XKA00MM</b>                     |    |
| Stainless steel - Wall bracket kit                                                                              |              | 80         | <b>P3XKA00MW</b>                     |    |
| P3X connecting kit                                                                                              |              | 10         | <b>P3XKA00CB</b>                     |    |
| Pressure gauge<br>0 to 10 bar<br>0 to 16 bar                                                                    | 1/4"<br>1/4" | 60<br>60   | <b>KG8012-00</b><br><b>KG8013-00</b> |    |
| Connector O-ring kit<br>Qty: 5                                                                                  |              |            | <b>P3XKA04CY</b>                     |   |
| Regulator & Filter/Regulator - Key Lock Kit                                                                     |              | 0.05       | <b>P3XKA00AS</b>                     |  |
| Kit to convert 3/4" BSP to 1/2" NPT air ports<br>(2 O-Rings with 2 Adaptors). Body width 72 mm instead of 70 mm |              |            | <b>P3XKA00CA</b>                     |  |

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