



aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
**pneumatics**  
process control  
sealing & shielding



# P3X Lite Series Air Preparation System

G1/2 & G3/4 Body Ported

Catalogue no. PDE2620TCUK April 2021



ENGINEERING YOUR SUCCESS.

# Table of Contents

The System .....	3
Nano Mist .....	4
Popular combinations .....	5
Filters .....	6 - 7
Coalescing filters .....	8 - 9
Adsorber filters .....	10 - 11
Regulators .....	12 - 13
Filter regulators .....	14 - 15
Lubricators .....	16 - 17
Proportional Pressure Regulators .....	18 - 19
Combined Soft Start Dump Valves .....	20 - 21
Modular slide valve .....	22
Modular manifold .....	22
Solenoid Coils .....	23
Accessories .....	24

 **WARNING**

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

**SALE CONDITIONS**

The items described in this document are available for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. Any sale contract entered into by Parker will be governed by the provisions stated in Parker's standard terms and conditions of sale (copy available upon request).

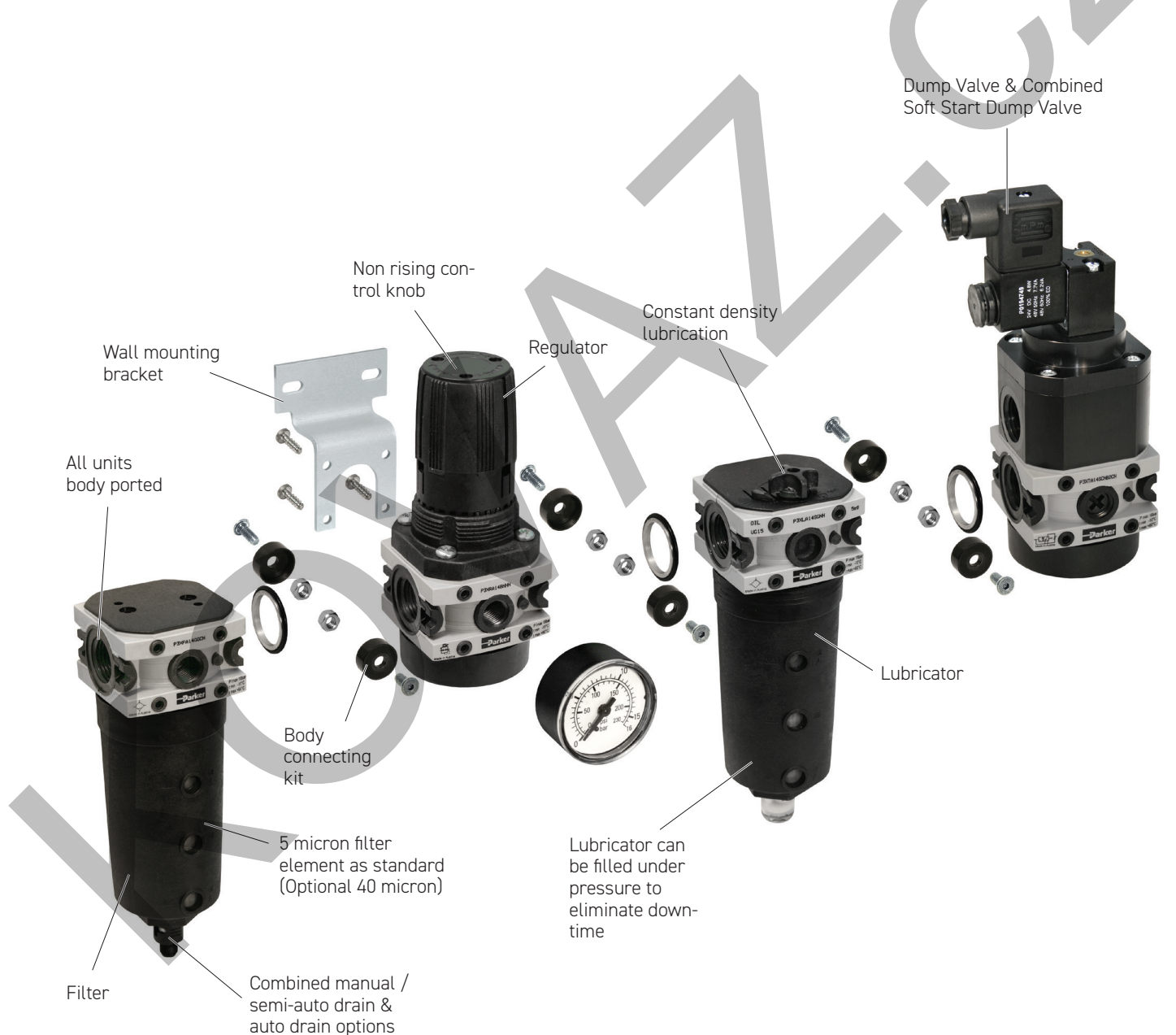
### The System

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**

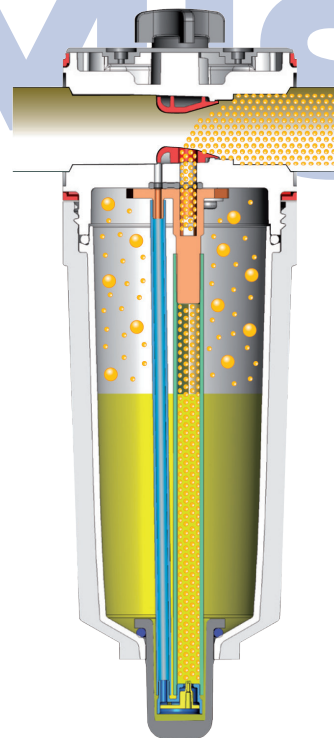
The P3X Lite FRL system is constructed from ultra light weight technopolymers instead of the traditional aluminium or zinc die cast, this means that it is up to 45% lighter than conventional units. This non-metal construction also means that the P3X Lite is corrosion free enabling it to be used in harsh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

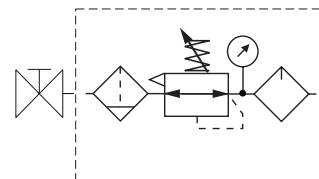

**New Nano Mist Technology,  
New Lubricator Concept.  
Self-Adjusting.**

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.

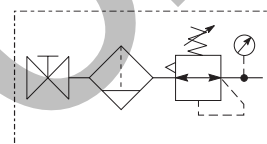


**Popular Combinations**



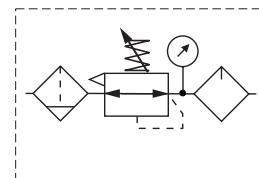
**Slide Valve + Filter/Regulator + Lubricator Combinations (50mg/m<sup>3</sup>)**  
**5 micron element, 8 bar Regulator + Gauge and Wall Mounting Bracket**

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)
G <sup>1</sup> / <sub>2</sub>	<b>P3XAA14GECNGPNW</b>	76	1300	<b>P3XAA14GEANGPNW</b>	76	1300
G <sup>3</sup> / <sub>4</sub>	<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 Bracket**

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)
G <sup>1</sup> / <sub>2</sub>	<b>P3XAN14GECNGW</b>	105	950	<b>P3XAN14GEANGW</b>	105	950
G <sup>3</sup> / <sub>4</sub>	<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 Bracket**

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)
G <sup>1</sup> / <sub>2</sub>	<b>P3XCA14GECNGPNW</b>	76	1000	<b>P3XCA14GEANGPNW</b>	76	1000
G <sup>3</sup> / <sub>4</sub>	<b>P3XCA16GECNGPNW</b>	77	1000	<b>P3XCA16GEANGPNW</b>	77	1000

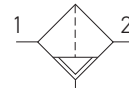
**Options:**

<b>P 3 X</b>		<b>1</b>		<b>G E</b>				<b>PN</b>	<b>W</b>
Filter/Reg + Lubricator	<b>CA</b>	BSPP (G)	<b>1</b>	Combined Manual/Semi Auto Drain	<b>C</b>	0 - 8 bar with gauge	<b>G</b>		
Slide valve + Filter/Reg	<b>AN</b>	NPT*		Auto Drain	<b>A</b>	0 - 16 bar with gauge	<b>J</b>		
Slide valve + Filter/Reg + Lubricator	<b>AA</b>								
* 1/2" NPT see Accessories		1/2	<b>4</b>	Non rise - Standard	<b>N</b>	(50mg/m <sup>3</sup> )	<b>PN</b>	Add only for options with lubricator	
		3/4	<b>6</b>	Tamperproof - Lockable	<b>A</b>				

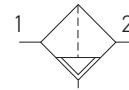
**Particulate Filters**



**Symbols**



Manual / Semi auto drain



Auto drain

- 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

**Options:**

<b>P 3 X F A</b>		<b>1</b>				<b>G</b>	<b>N</b>
BSPP (G)	<b>1</b>	1/2	<b>4</b>	5 Micron Element Standard	<b>E</b>	Combined Manual/Semi Auto Drain	<b>C</b>
NPT*		3/4	<b>6</b>	40 Micron Element Optional	<b>G</b>	Auto Drain	<b>A</b>
				1 Micron Dust Filter	<b>2</b>		

\*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	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**

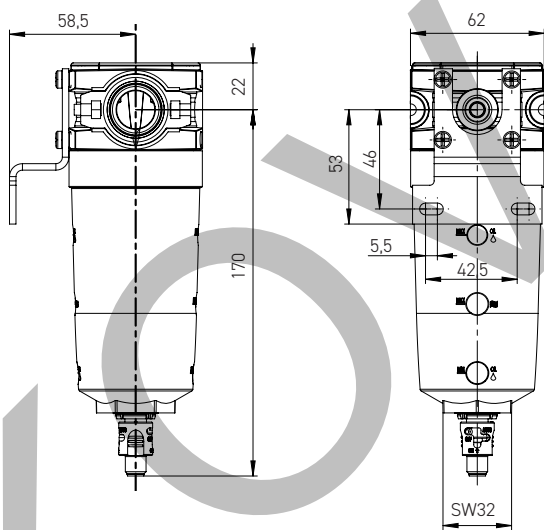
Fluid:	Compressed air
Maximum inlet pressure:	16 bar
Temperature range*:	
Auto drain:	-10°C to +60°C
Combined drain:	-40°C to +60°C
Particle removal:	1, 5 & 40 micron
Typical flow with 5µm element 6,3 bar inlet pressure and 0.5 bar pressure drop:	1/2" 55 dm <sup>3</sup> /s
Semi-auto drain: bowl pressure to close drain	0.8 bar
Auto drain: bowl pressure to close drain Operating range manual override facility	0.8 bar 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
Body cover:	ABS
Element:	Sintered P.E.
Seals:	Nitrile NBR
Drains:	Manual / Semi-auto: Acetal
	Automatic: PA / Brass

**Dimensions (mm)**

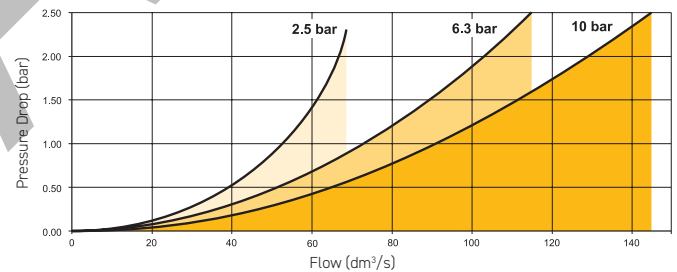


**Service kits**

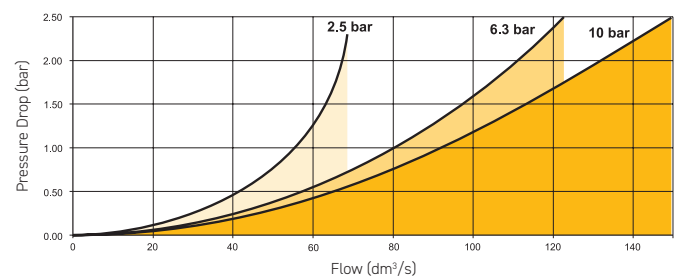
Description	Order code
5 micron element kit	<b>P3XKA00ESE</b>
40 micron element kit	<b>P3XKA00ESG</b>
Bowl kit with combines manual/semi auto drain	<b>P3XKA00BSC</b>
Bowl kit with auto drain	<b>P3XKA00BSA</b>
1 micron element kit	<b>P3XKA00ES9</b>

**Flow characteristics**

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



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



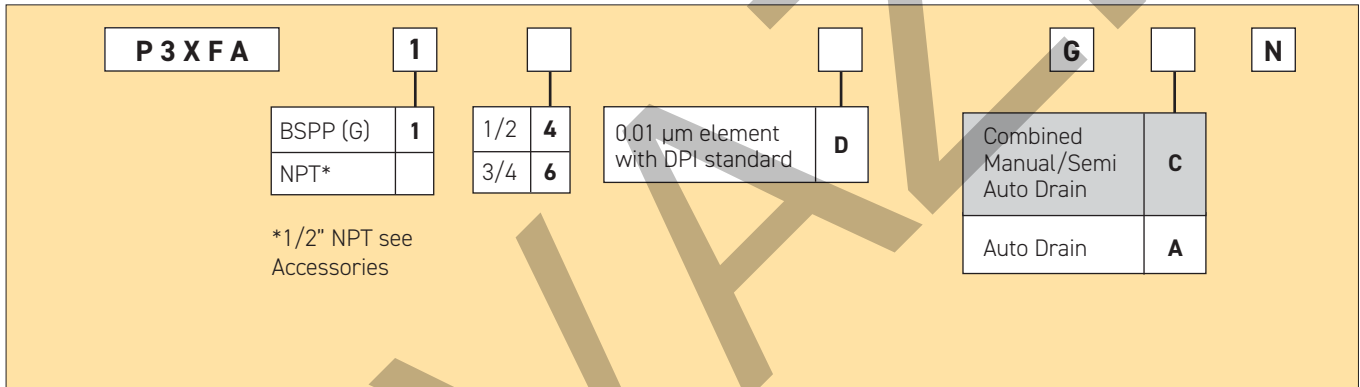
**Coalescing Filters**



- 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 0,2 pressure drop.



**Technical Information**

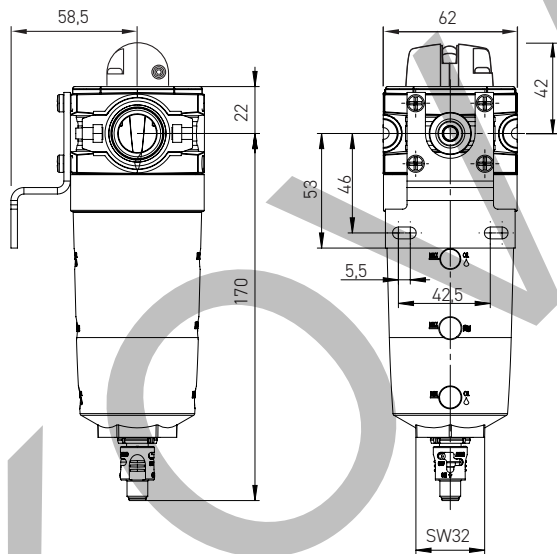
Fluid:	Compressed air
Maximum inlet pressure:	16 bar
Temperature range*:	-10°C to +60°C
Media specifications:	
Coalescing efficiency	(0.3 to 0.6 micron particles): 99.97%
Max. oil carryover (PPM w/w):	0.008 mg/m <sup>3</sup>
Typical flow element @ 6,3 bar inlet pressure and 0.2 bar pressure drop:	16 dm <sup>3</sup> /s
Manual / Semi-auto drain:	
Bowl pressure to close drain	0.8 bar
Auto drain:	
bowl pressure to close drain	0.8 bar
Operating range manual override facility	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**

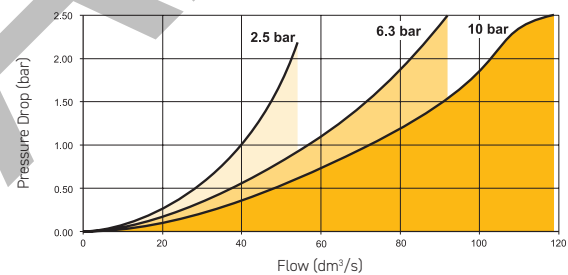
Body:	High tech polymer
Sight glass:	Polypropylene
Filter cover:	ABS
Coalescing element:	Borosilicate & Nano fibres
Top & bottom end cap:	Glass filled nylon - Black
Support cylinders:	Grade 430 stainless steel
Support media:	Polypropylene
Anti re-entrainment barrier:	Polyester
Ensapulate:	Epoxy resin / 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)**

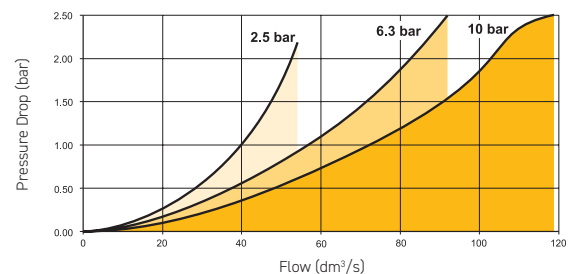


**Flow characteristics**

**(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>

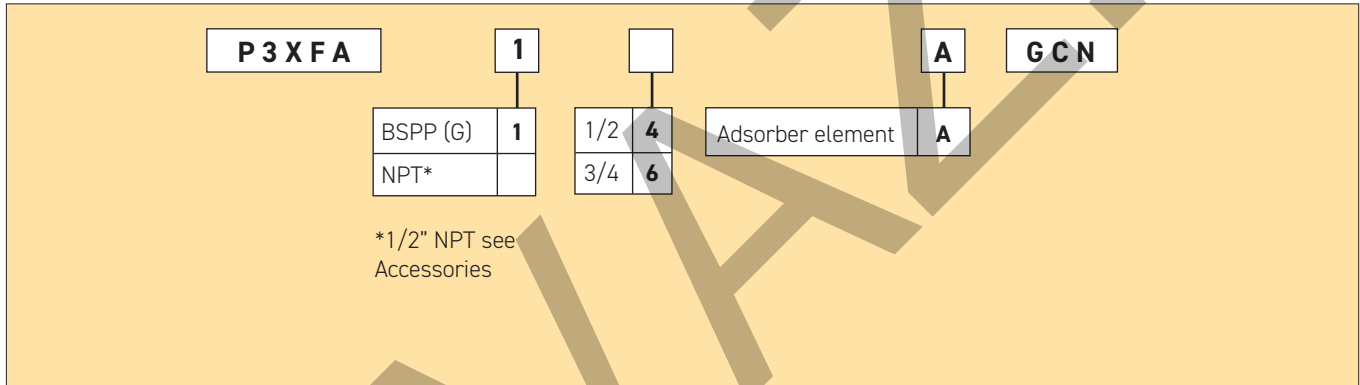
**Adsorber Oil Vapour Filters**



- 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 0,2 pressure drop.

**Technical Information**

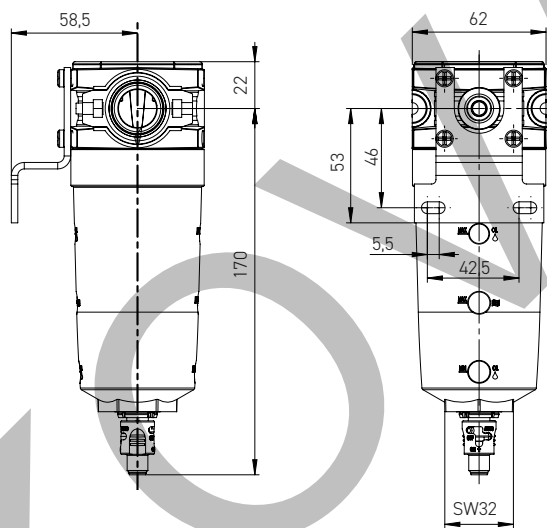
Fluid:	Compressed air	
Maximum inlet pressure:	16 bar	
Temperature range*:	-10°C to +60°C	
Typical flow at 6,3 bar inlet pressure and 0.2 bar pressure drop:	Adsorber	18 dm <sup>3</sup> /s
Manual / Semi-auto drain:	1/8" connection	
to close connection	0.8 bar	

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

**Material Specification**

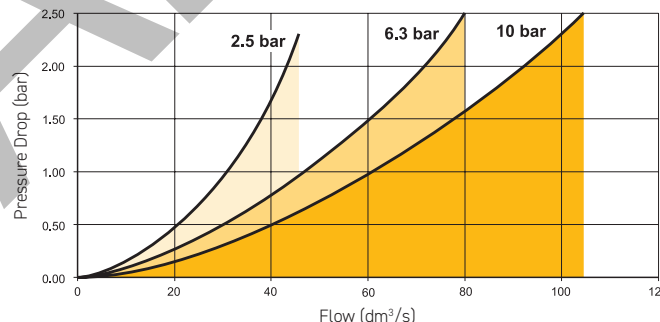
Body:	High tech polymer
Sight glass:	Polypropylene
Filter cover:	ABS
Adsorber element:	Activated carbon
Top & bottom endcap:	Glass filled nylon
Support cylinders:	Grade 430 stainless steel
Support media:	100% spun polypropylene
Support sock:	Polyester needlefelt
Encapsulant:	Epoxy resin / Hardener
Seals: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

**Dimensions (mm)**

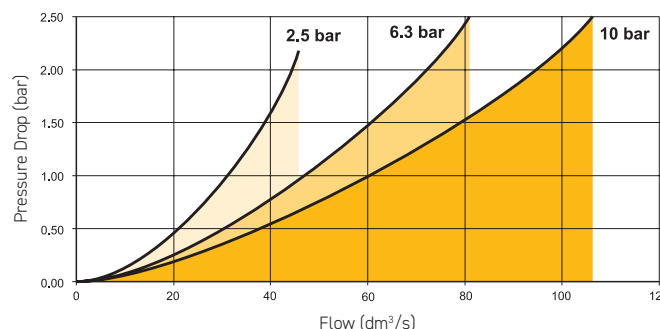


**Flow characteristics**

**(1/2) Adsorber Filter**



**(3/4) Adsorber Filter**



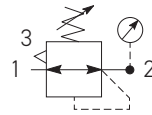
**Service kits**

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

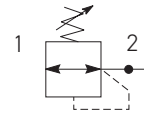
**Regulators**



**Symbols**



Self relieving regulator with gauge



Non relieving regulator

- 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

**Options:**

<b>P 3 X R A</b>		<b>1</b>					<b>N</b>
BSPP (G)	<b>1</b>	1/2	<b>4</b>	Relieving	<b>B</b>	Non rise - standard	<b>N</b>
NPT*		3/4	<b>6</b>			Tamperproof - Lockable	<b>A</b>
*1/2" NPT see Accessories						0 - 4 bar No Gauge	<b>L</b>
						0 - 8 bar No Gauge	<b>N</b>
						0 - 16 bar No Gauge	<b>H</b>
						0 - 4 bar Gauge	<b>M</b>
						0 - 8 bar Gauge	<b>G</b>
						0 - 16 bar Gauge	<b>J</b>

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	<b>P3XRA14BNNN</b>	122	16	-40	60	150	62	62	360
1/2	8 bar relieving + pressure gauge	<b>P3XRA14BNGN</b>	122	16	-10	60	150	62	95	410
3/4	8 bar relieving	<b>P3XRA16BNNN</b>	134	16	-40	60	150	62	62	360
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	<b>P3XRA14BANN</b>	122	16	-40	60	158	62	62	360
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	<b>P3XRA16BANN</b>	134	16	-40	60	158	62	62	360
3/4	8 bar relieving with tamperproof facility + pressure gauge	<b>P3XRA16BAGN</b>	134	16	-10	60	158	62	95	410

\* flow with 10 bar inlet pressure, 6,3 bar set pressure and 1 bar pressure drop.  
 Tamperproof regulator will require lock kit (on opposite page) to lock regulator.

## Technical Information

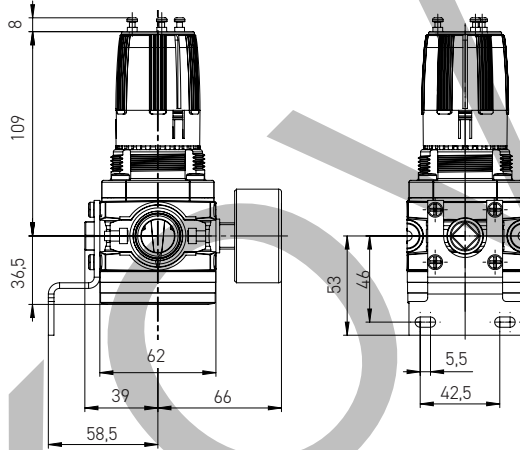
Fluid:	Compressed air
Maximum inlet pressure:	16 bar
Temperature range*:	-40°C to +60°C
Typical flow with 10 bar inlet pressure, 6.3 bar set pressure and 1 bar pressure drop:	1/2" 122 dm <sup>3</sup> /s 3/4" 134 dm <sup>3</sup> /s
Gauge port ( x 2 ):	1/4 BSP

\* 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"	<b>KG8012-00</b>
0 to 16 bar G1/4"	<b>KG8013-00</b>

## Lockable Tamperproof Kit (up to x 3 padlocks)

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



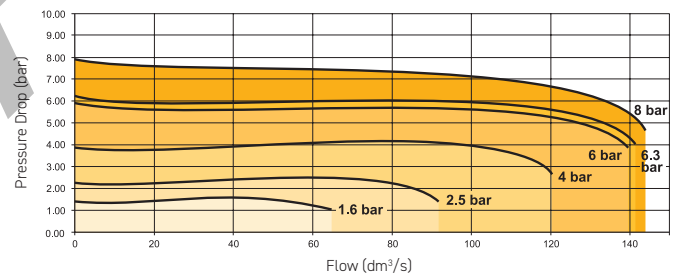
### Order code

1 Padlock each

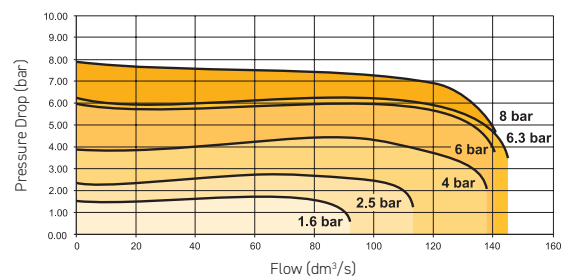
**P3XKA00AS**

## Flow characteristics

### Regulation characteristics: (1/2)



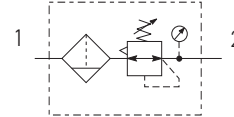
### Regulation characteristics: (3/4)



**Filter \ Regulators**



**Symbols**



- 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

**Options:**

<b>P3XEA</b>	<b>1</b>			<b>G</b>					<b>N</b>
BSPP (G)	1	1/2	4	5 Micron Element Standard	E	Combined Manual/Semi Auto Drain	C	0 - 4 bar No Gauge	L
NPT*		3/4	6	40 Micron Element Option	G	Auto Drain	A	0 - 8 bar No Gauge	N
* 1/2" NPT see Accessories				Relieving	B	Non rise - Standard	N	0 - 16 bar No Gauge	H
						Tamperproof - Lockable*	A	0 - 4 bar Gauge	M
								0 - 8 bar Gauge	G
								0 - 16 bar Gauge	J

\* 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, Combined manual/semi auto drain	<b>P3XEA14EGCBNNN</b>	111	16	-40	60	60	280	62	62	500
1/2	8 bar relieving, auto drain	<b>P3XEA14EGABNNN</b>	111	16	-10	60	60	280	62	62	500
1/2	8 bar, relieving, gauge 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, Combined manual/semi auto drain	<b>P3XEA16EGCBNNN</b>	113	16	-40	60	60	280	62	62	500
3/4	8 bar relieving, auto drain	<b>P3XEA16EGABNNN</b>	113	16	-10	60	60	280	62	62	500
3/4	8 bar, relieving, gauge 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

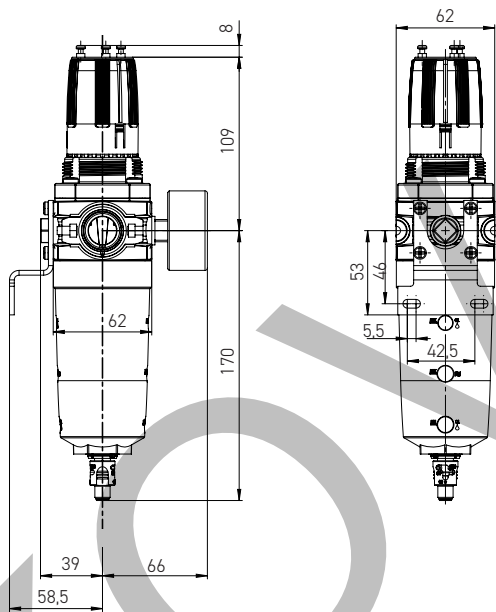
\* flow with 10 bar inlet pressure, 6,3 bar set pressure and 1 bar pressure drop.

**Technical Information**

Fluid:	Compressed air
Maximum inlet pressure:	16 bar
Temperature range*:	
Auto drain:	-10°C to +60°C
Combined drain:	-40°C 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 dm <sup>3</sup> /s
Manual / Semi-auto drain: pressure to close drain	0.8 bar
Auto drain: bowl pressure to close drain	0.8 bar
Operating range manual override facility	0.8 to 16 bar
Bowl sump capacity:	60 cm <sup>3</sup>
Gauge ports ( x 2 ):	1/4 BSP

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

**Dimensions (mm)**



**Service kits**

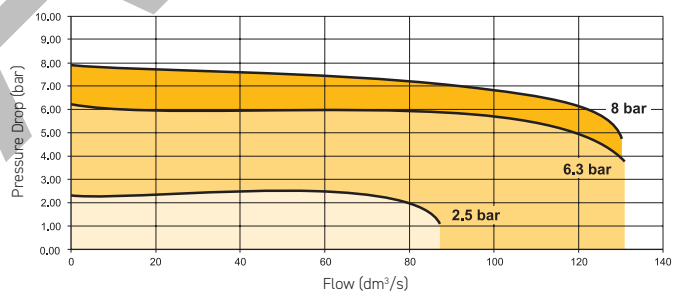
Description	Order code
5 micron element kit	<b>P3XKA00ESE</b>
40 micron element kit	<b>P3XKA00ESG</b>
Bowl kit with combined manual/semi auto drain	<b>P3XKA00BSC</b>
Bowl kit with auto drain	<b>P3XKA00BSA</b>
Tamper-proof knob kit (keylock)	<b>P3XKA00AS</b>
Diaphragm kit (relieving type)	<b>P3XKA00RR</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 10 bar G1/4"	<b>KG8012-00</b>
Key Lock	<b>P3XKA00AS</b>

**Material Specification**

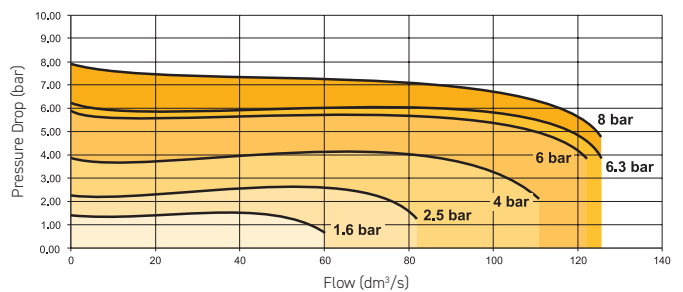
Body:	High tech polymer
Sight glass:	Polypropylene
Body cover:	ABS
Element:	Sintered P.E.
Seals:	Nitrile NBR
Drains:	Manual / Semi-auto: Acetal
	Automatic: PA / Brass
Bonnet:	High tech polymer
Control knob:	Polyamide
Valve:	Brass / Nitrile
Screws:	Stainless steel

**Flow characteristics**

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



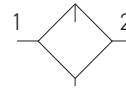
**(3/4) 5 Micron Filter/Regulator**



**Lubricators**



**Symbols**



Lubricator

- 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

**Options:**

<b>P3XLA</b>	<b>1</b>			<b>GNN</b>
BSPP (G)	<b>1</b>	1/2	<b>4</b>	50 mg/m <sup>3</sup>
NPT*		3/4	<b>6</b>	<b>P</b> <sup>2)</sup>

\* 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°C to +60°C

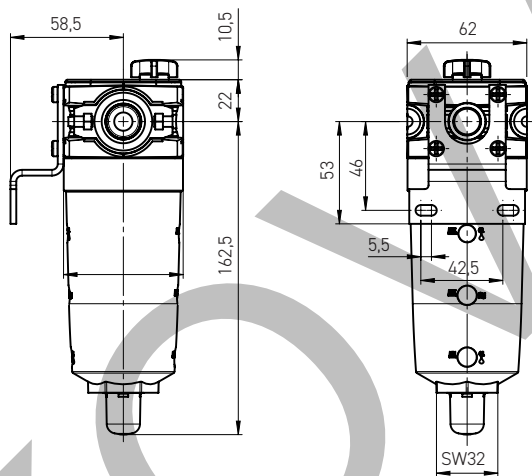
\* Air supply must be dry enough to avoid ice formation at temperatures below +2° C  
 Low flow start point (lubrication pick-up): at 6.3bar inlet pressure 7 dm<sup>3</sup>/s  
 Typical flow with 6.3bar inlet pressure and 0.5 bar pressure drop: 78 dm<sup>3</sup>/s

**Note :** Fill lubricant from top only

**Material Specification**

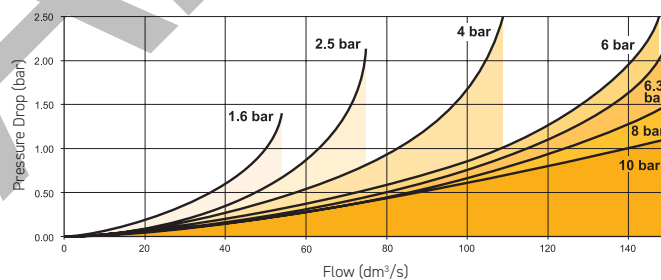
Body:	High tech polymer
Bowl sight glass:	Polypropylene
Sight dome:	PA (Nylon)
Lubricator cover:	ABS
Seals:	Nitrile NBR

**Dimensions (mm)**

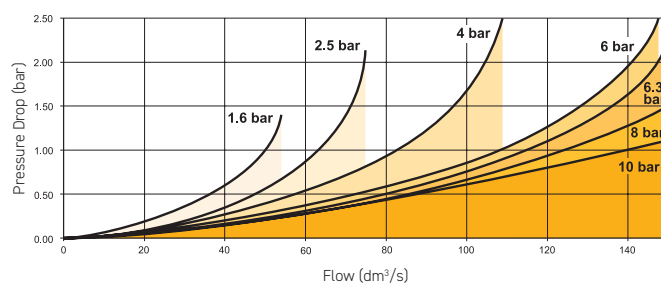


**Flow characteristics**

**(1/2) Lubricator**



**(3/4) Lubricator**



**Service kits**

Description	Order code
Bowl kit	<b>P3XKA00BSN</b>
Refill plug	<b>P3XKA00PL</b>
Oil VG15 - 100ml	<b>P3XKA00PPA</b>



**Technical Information**

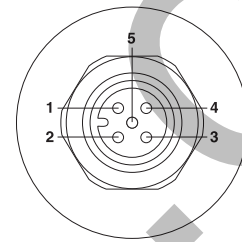
Operating pressure range	P <sup>1</sup> min	1 bar
Inlet pressure <sup>1)</sup>	P <sup>1</sup> max	16 bar
Operating pressure range	P <sup>2</sup> min	0.2 bar
Outlet pressure	P <sup>2</sup> max	10 bar
Operating Temperature	0°C to +50°C	
Maximum Flow <sup>2)</sup>	Q <sub>n</sub>	dm <sup>3</sup> /s 160
Hysteresis	P <sup>2</sup> max	< 1%
Repeatability	P <sup>2</sup> max	< 0.5%
Sensitivity	P <sup>2</sup> max	< 0.5%
Linearity	P <sup>2</sup> max	< 1%
Nominal voltage	U <sub>n</sub> V DC	24V = ±10%
Residual ripple	10%	
Power consumption	I <sub>Bmax</sub>	0.15 A
Set value input	U <sub>w</sub>	V 0 - 10
	I	mA 0 - 20
		mA 4 - 20
Input resistance	R <sub>E</sub>	243 K Ω
Actual valve output	U <sub>x</sub>	0 - 10 V
Output current	I <sub>Amax</sub>	10 mA
Degree of protection	IP65 to DIN 40050, EN 60529	

- 1)  $p_1 > p_2 + 10\% p_2$
- 2) at  $p_1 - 10$  bar to  $p_2 - 6.3$  bar

**Material Specification**

Body:	High tech polymer
Booster valve:	Brass / Nitrile
Standard seals:	NBR
Body cover screws:	Steel / zinc plated
Body Cover:	Aluminium
Pilot piston:	Aluminium / Nitrile
Exhaust piston:	Brass / Nitrile
Electronic cover:	Zinc

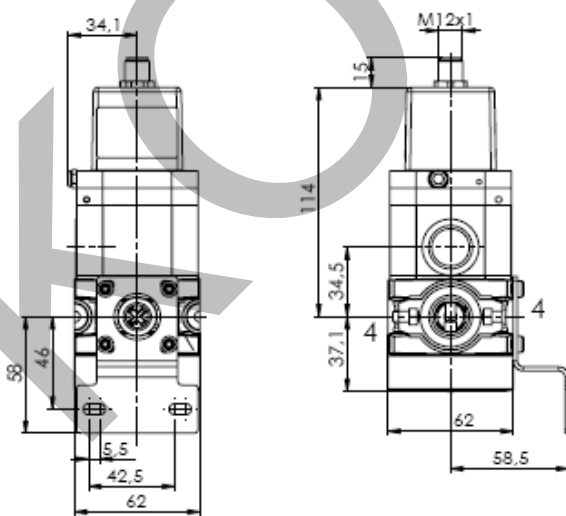
**Connection diagram**



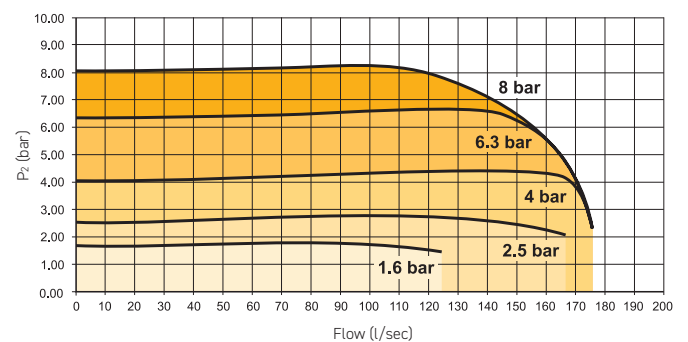
**Connector M12 x 1**

- Pin 1:** Power supply Plus +24 V DC ± 10% 0.15 A Residual ripple 10%
- Pin 2:** Power supply 0 V Reference and mass capacity for set value and actual value
- Pin 3:** Set value input 0 - 10 V
- Pin 4:** 0 V set signal (connected on board with pin 2 as standard)
- Pin 5:** Analogue actual value output 0 - 10 V Tolerance ± 0.15 V

**Dimensions (mm)**



**Flow characteristics**

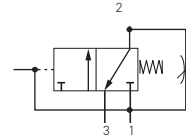


- \* Two opposite gauge ports G1/4, plug screw mounted
- \*\* Connection for 5-pin plug M12 x 1
- \*\*\* Exhaust port 1/2"

**Soft Start/Dump Valves  
 Dump Valves**



**Symbols**



- Integral 1/2 or 3/4 ports
- 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

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:**

<b>P 3 X</b>	<b>A</b>	<b>1</b>	<b>N</b>	<b>Solenoid type only</b>
Combined soft start dump valve	<b>T</b>	External air pilot	<b>P</b>	None (operator is fitted to valve) <b>O</b>
Dump valve	<b>D</b>	Solenoid pilot	<b>S</b>	30mm CNOMO coil (Form connection) <b>A</b>
				22mm coil (Form connection) <b>B</b>
				Solenoid / coil not fitted <b>000</b>
				24V DC <b>2CN</b>
BSPP (G) <b>1</b>	1/2 <b>4</b>	30mm operator <b>C</b>		
NPT * <b>1</b>	3/4 <b>6</b>	Threaded air pilot <b>P</b>		

\* 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 kg
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
1/2	Air pilot operated	<b>P3XTA14PPN</b>	80	16	-10	60	127.5	62	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
3/4	Air pilot operated	<b>P3XTA16PPN</b>	88	16	-10	60	127.5	62	62	0.75

**Technical Information**

Fluid:	Compressed air
Maximum pressure Solenoid operated 22mm coil:	10 bar
Maximum pressure Solenoid operated 30mm 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 6.3bar inlet pressure and 1 bar pressure drop:	1/2" 80 dm <sup>3</sup> /s
	3/4" 80 dm <sup>3</sup> /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

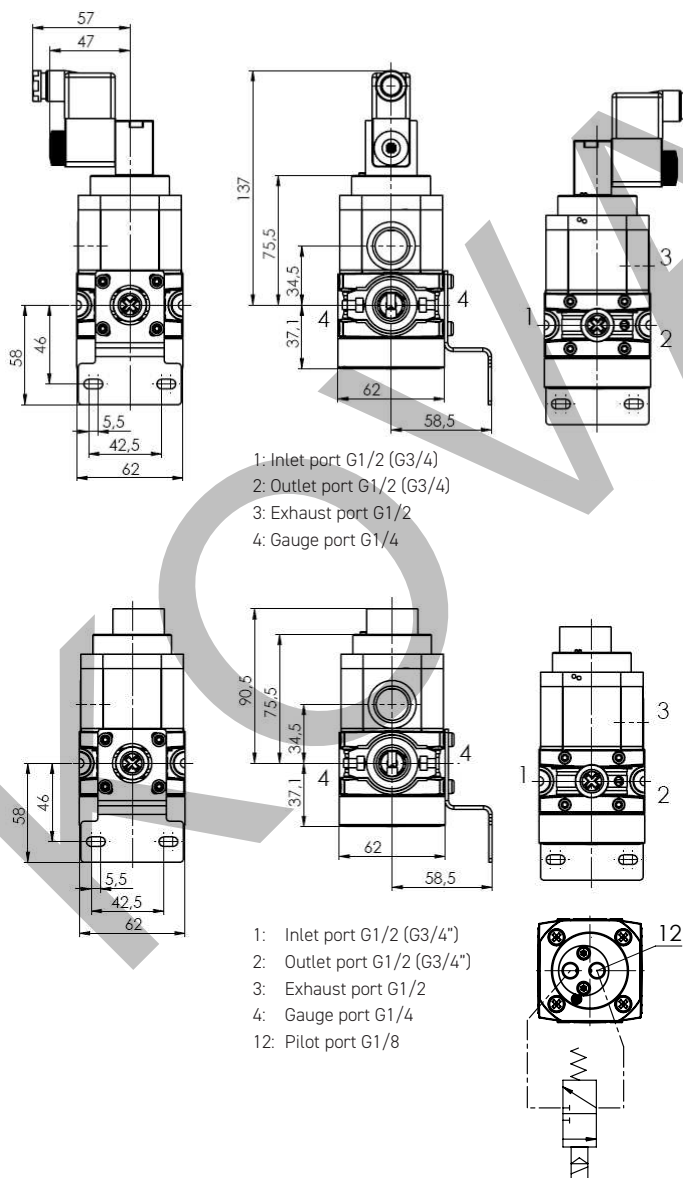
**Material Specification**

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

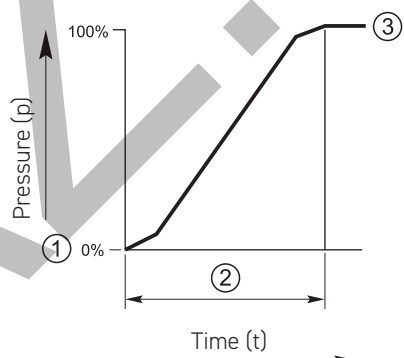
**Solenoid coils**

For Solenoid coil information refer to Solenoid Coils section.

**Dimensions (mm)**

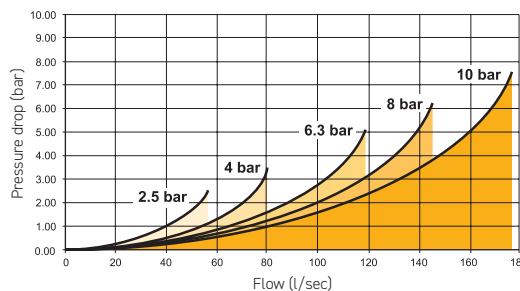


**Flow characteristics**



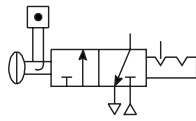
- ① Start signal
- ② Switching time delay
- ③ Operating pressure  $p^2 (=p^1)$

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



**Modular Slide Valves**

**Symbol**



- 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>P 3 X</b>	<b>VA</b>	<b>1</b>		<b>LSN</b>
BSPP (G)	<b>1</b>	G1/2	<b>4</b>	
NPT *		G3/4	<b>6</b>	

\*1/2" NPT see Accessories

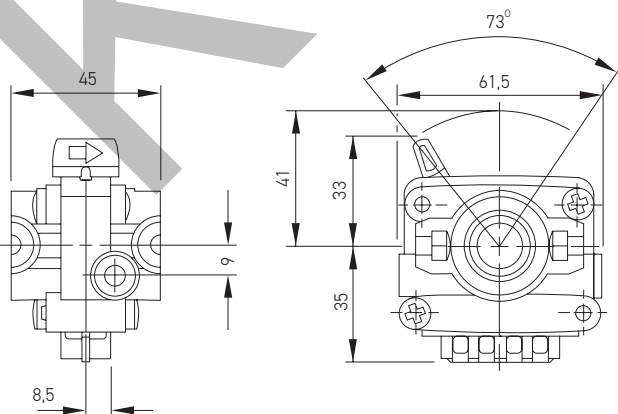
**Technical Information**

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

**Material specification:**

Body:	High tech polymer
Handle:	Polyamide
Seals:	Nitrile NBR
Exhaust muffler:	Sintered bronze

**Dimensions (mm)**



**Modular Manifolds**



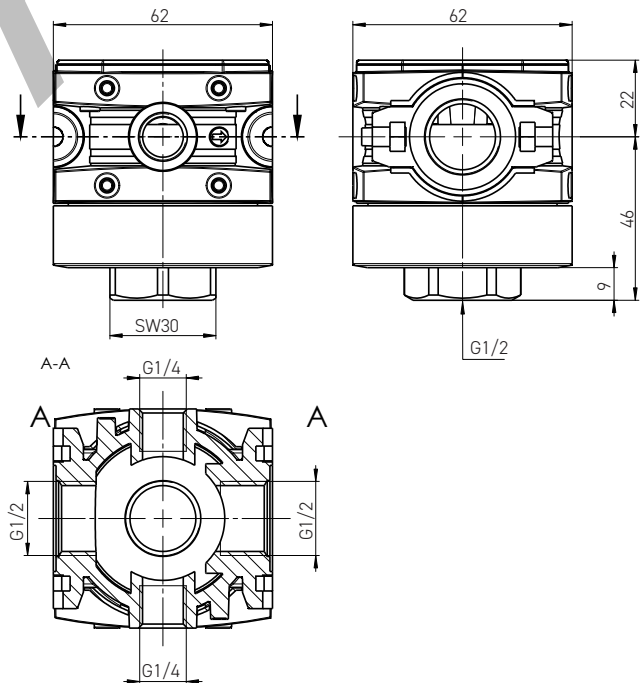
P3X Series Manifolds, provide up to 2 extra outlet ports, they may be assembled at any position in a combination e.g. before the lubricator to provide oil free take off or at the end of a combination to provide extra outlet ports.

Description	Order code BSPP	Weight (g)
G1/2"	<b>P3XMA1V0N</b>	170
G3/4"	<b>P3XMA160N</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"
3/4	3/4"	1/4"

## Solenoid coils with Din A or Industrial B connection

Voltage	30mm x 30mm Order code DIN A Standard	Weight (Kg)	22mm x 30mm Order code Industrial B 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 30 x 30	Weight (Kg)	Order code Form B 22 x 30	Weight (Kg)
Direct current				
24V DC	<b>P2FC6419</b>	0.065	<b>P2FC7419</b>	0.065

**Accessories**

Description	Connection	Weight	Order code (g)		
Panel mounting nut			10	<b>P3XKA00MM</b>	
Stainless steel - Wall bracket kit			80	<b>P3XKA00MW</b>	
P3X connecting kit			10	<b>P3XKA00CB</b>	
Lubricator Oil	VG15 : ISO 3448 - 100ml		100	<b>P3XKA00PPA</b>	
Pressure gauge	0 to 10 bar 0 to 16 bar	1/4" 1/4"	60 60	<b>KG8012-00</b> <b>KG8013-00</b>	
Connector O-ring kit	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 (2 O-Rings with 2 Adaptors). Body width 72 mm instead of 70 mm				<b>P3XKA00CA</b>	



KOLVANZ.CZ

KOLVANZ.CZ

KOLVANZ.CZ

# Parker Worldwide

## Europe, Middle East, Africa

**AE – United Arab Emirates, Dubai**  
Tel: +971 4 8127100  
parker.me@parker.com

**AT – Austria, St. Florian**  
Tel: +43 (0)7224 66201  
parker.austria@parker.com

**AZ – Azerbaijan, Baku**  
Tel: +994 50 2233 458  
parker.azerbaijan@parker.com

**BE/NL/LU – Benelux, Hendrik Ido Ambacht**  
Tel: +32 (0)0541 585 000  
parker.nl@parker.com

**BG – Bulgaria, Sofia**  
Tel: +359 2 980 1344  
parker.bulgaria@parker.com

**BY – Belarus, Minsk**  
Tel: +48 (0)22 573 24 00  
parker.poland@parker.com

**CH – Switzerland, Etoy**  
Tel: +41 (0)21 821 87 00  
parker.switzerland@parker.com

**CZ – Czech Republic, Klecany**  
Tel: +420 284 083 111  
parker.czechrepublic@parker.com

**DE – Germany, Kaarst**  
Tel: +49 (0)2131 4016 0  
parker.germany@parker.com

**DK – Denmark, Ballerup**  
Tel: +45 43 56 04 00  
parker.denmark@parker.com

**ES – Spain, Madrid**  
Tel: +34 902 330 001  
parker.spain@parker.com

**FI – Finland, Vantaa**  
Tel: +358 (0)20 753 2500  
parker.finland@parker.com

**FR – France, Contamine s/Arve**  
Tel: +33 (0)4 50 25 80 25  
parker.france@parker.com

**GR – Greece, Piraeus**  
Tel: +30 210 933 6450  
parker.greece@parker.com

**HU – Hungary, Budaors**  
Tel: +36 23 885 470  
parker.hungary@parker.com

**IE – Ireland, Dublin**  
Tel: +353 (0)1 466 6370  
parker.ireland@parker.com

**IL – Israel**  
Tel: +39 02 45 19 21  
parker.israel@parker.com

**IT – Italy, Corsico (MI)**  
Tel: +39 02 45 19 21  
parker.italy@parker.com

**KZ – Kazakhstan, Almaty**  
Tel: +7 7273 561 000  
parker.easteurope@parker.com

**NO – Norway, Asker**  
Tel: +47 66 75 34 00  
parker.norway@parker.com

**PL – Poland, Warsaw**  
Tel: +48 (0)22 573 24 00  
parker.poland@parker.com

**PT – Portugal, Leca da Palmeira**  
Tel: +351 22 999 7360  
parker.portugal@parker.com

**RO – Romania, Bucharest**  
Tel: +40 21 252 1382  
parker.romania@parker.com

**RU – Russia, Moscow**  
Tel: +7 495 645-2156  
parker.russia@parker.com

**SE – Sweden, Spånga**  
Tel: +46 (0)8 59 79 50 00  
parker.sweden@parker.com

**SK – Slovakia, Banská Bystrica**  
Tel: +421 484 162 252  
parker.slovakia@parker.com

**SL – Slovenia, Novo Mesto**  
Tel: +386 7 337 6650  
parker.slovenia@parker.com

**TR – Turkey, Istanbul**  
Tel: +90 216 4997081  
parker.turkey@parker.com

**UA – Ukraine, Kiev**  
Tel: +48 (0) 22 572 24 00  
parker.poland@parker.com

**UK – United Kingdom, Warwick**  
Tel: +44 (0)1926 317 878  
parker.uk@parker.com

**ZA – South Africa, Kempton Park**  
Tel: +27 (0)11 961 0700  
parker.southafrica@parker.com

## North America

**CA – Canada, Milton, Ontario**  
Tel: +1 905 693 3000

**US – USA, Cleveland**  
Tel: +1 216 896 3000

## Asia Pacific

**AU – Australia, Castle Hill**  
Tel: +61 (0)2-9634 7777

**CN – China, Shanghai**  
Tel: +86 21 2899 5000

**HK – Hong Kong**  
Tel: +852 2428 8008

**IN – India, Mumbai**  
Tel: +91 22 6513 7081-85

**JP – Japan, Tokyo**  
Tel: +81 (0)3 6408 3901

**KR – South Korea, Seoul**  
Tel: +82 2 559 0400

**MY – Malaysia, Shah Alam**  
Tel: +60 3 7849 0800

**NZ – New Zealand, Mt Wellington**  
Tel: +64 9 574 1744

**SG – Singapore**  
Tel: +65 6887 6300

**TH – Thailand, Bangkok**  
Tel: +662 186 7000

**TW – Taiwan, Taipei**  
Tel: +886 2 2298 8987

## South America

**AR – Argentina, Buenos Aires**  
Tel: +54 3327 44 4129

**BR – Brazil, Sao Jose dos Campos**  
Tel: +55 800 727 5374

**CL – Chile, Santiago**  
Tel: +56 2 623 1216

**MX – Mexico, Toluca**  
Tel: +52 72 2275 4200

European Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

## Parker Hannifin Ltd.

Tachbrook Park Drive  
Tachbrook Park,  
Warwick, CV34 6TU  
United Kingdom  
Tel.: +44 (0) 1926 317 878  
Fax: +44 (0) 1926 317 855  
parker.uk@parker.com  
www.parker.com

