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

Air Preparation System P3L Lite Series

Fully Modular with 1/4" Body Ports

Catalogue PDE2661TCUK August 2012

Parker

ENGINEERING YOUR SUCCESS.

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The System

The new P3L Series FRLs have been developed to provide a rugged, high quality ultra light weight air preparation system with excellent performance and providing real value for money.

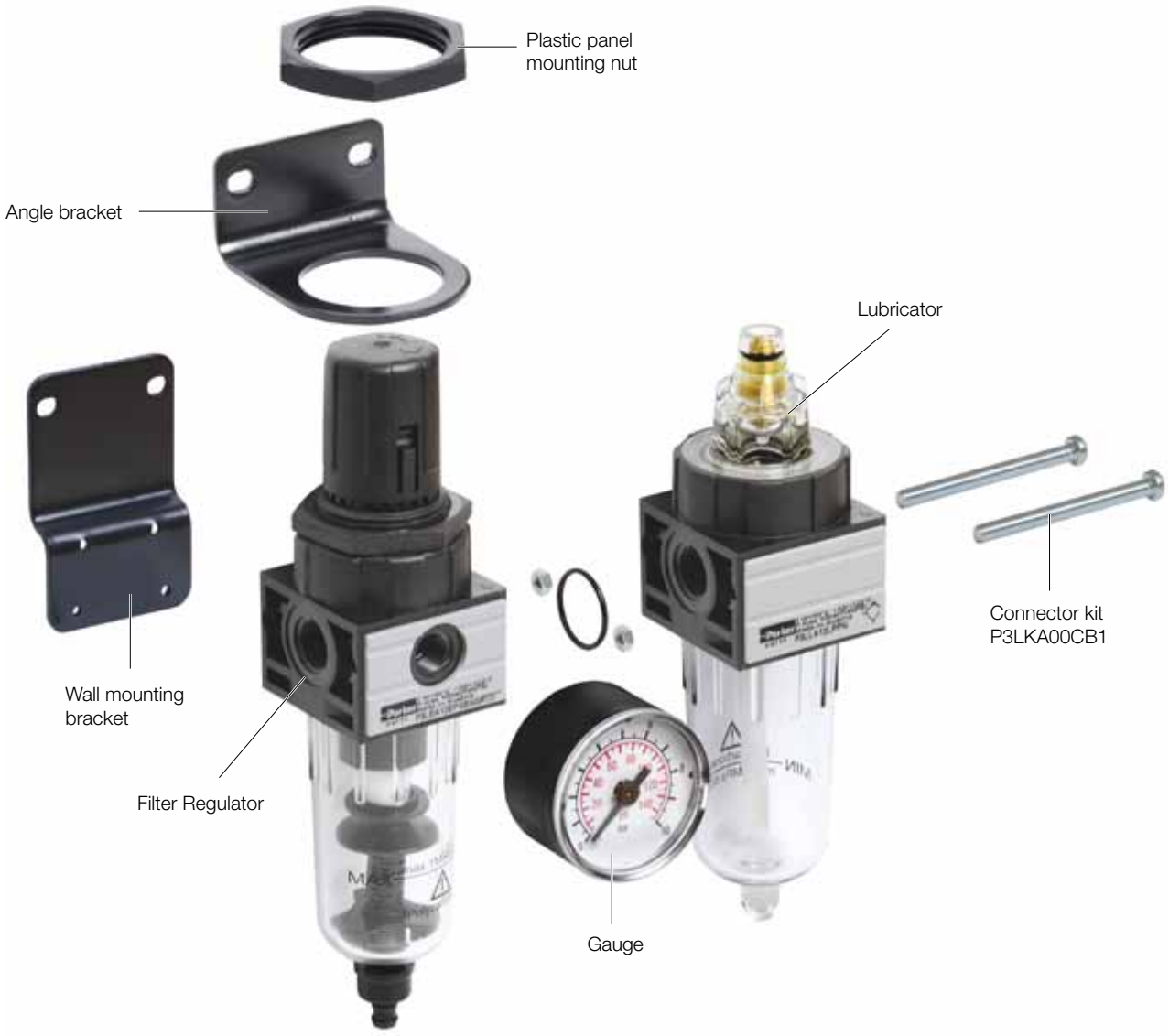
The ¼" ported units may be used individually but are also fully modular which allows units to be connected together, without the use of pipe connectors, saving space; providing constant mounting centres; whilst maintaining a modern aesthetically pleasing appearance.

The P3L filters are specially designed to efficiently filter out rust, dirt, moisture and other impurities from compressed air lines. Units are available with a choice of 5 micron of 40 micron elements and with either manual or semi auto drains. Coalescing filters for the removal of liquid aerosols and sub-micron particles and adsorber filters for the removal of oil vapours and most hydrocarbons to provide high purity air are also included in the series.

The P3L regulators have an unbalanced poppet valve as standard, with a solid control piston. The P3L lubricators are designed to provide lubrication for many general purpose applications in a pneumatic system.
For aggressive environments a brass bodied version is available and both relieving and non-relieving versions are standard options.

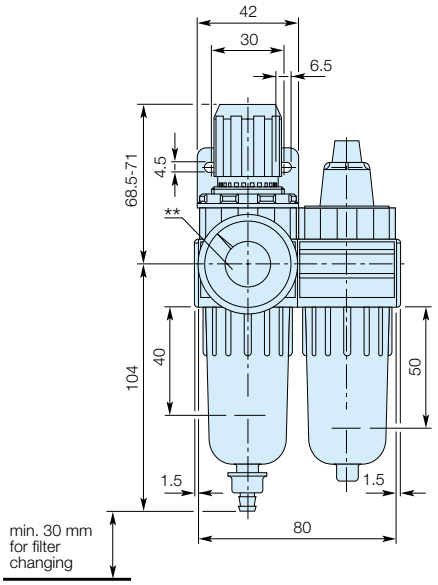
The P3L lubricators are designed to provide proportional lubrication over a wide range of air flows for many general purpose applications in a pneumatic system.

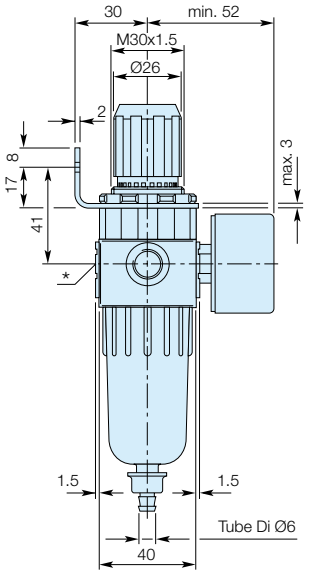
An additional feature of this range is the modular manifold block which enables combinations to be made with "air take off" points at selected points in the combination. This allows for an un-lubricated "air take off" or differing pressure "air take off" to be assembled dependent upon position.

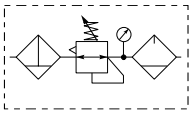


P3L Lite Series Air Preparation System

Popular Combinations :







* On delivery the scew plug is not assembled

** Two opposite gauge ports 1/8

Filter Regulator + Lubricator Combination -

Polycarbonate bowl, 5 micron, 8-bar with Gauge, Wall mounting Bracket.

Port size	Flow dm³/s	(scfm)	Manual Push Drain	Weight	Semi-Auto Drain	Weight
1/4”	8.0	(17.0)	**P3LCA12PEPNGLNW**	0.32 kg (70 lbs)	**P3LCA12PESNGLNW**	0.32 kg (70 lbs)

Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.

P 3 L	C A		2	P			N		L N W
	Filter/Reg + Lubricator	BSPP 1 NPT 9	1/4	5 µ Element E 40 µ Element G		Manual push drain P Semi-auto drain S		2 bar Z 4 bar M 8 bar G	

Modular Connector Kit Assembly

P31KA00CB1
Connects product
(E/R + F/L)

P31KA00CB2
Connects product
(E/R + M + F/L)

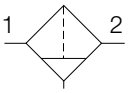
P31KA00CB3
(E/R + F + F)

P31KA00CB4
Connects product
(F + L)

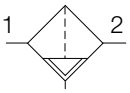
P3L Lite Series Air Preparation System

P3L Lite Particulate Filter

Symbols



Manual drain



Semi-auto drain

- Integral 1/4 ports (BSPP & NPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight construction
- One hand operation for easy element cartridge removal

Options:

P 3 L	F A		2		P		N

Thread type	
BSPP	1
NPT	9

Port size	
1/4	2

Element	
5µ Element	E
40µ Element	G

Bowl type	
Poly bowl	P

Drain type	
Manual push	P
Semi-auto	S

Mounting	
No bracket *	N

* for individual mounting bracket see page:19

Port size	Description	Order Code	Flow dm^3/s *	Flow (scfm) *	Max bar	Max (psi)	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/4”	Poly bowl - Manual drain - 5µ	**P3LFA12EPPN**	30.5	(65)	10	(150)	115 (4.52)	40 (1.58)	40 (1.58)
1/4”	Poly bowl - Semi-auto drain - 5µ	**P3LFA12EPSN**	30.5	(65)	10	(150)	115 (4.52)	40 (1.58)	40 (1.58)
1/4”	Metal bowl - Manual drain - 40µ	**P3LFA12GPPN**	30.5	(65)	10	(150)	115 (4.52)	40 (1.58)	40 (1.58)
1/4”	Metal bowl - Semi-auto drain - 40µ	**P3LFA12GPSN**	30.5	(65)	10	(150)	115 (4.52)	40 (1.58)	40 (1.58)

* flow with 10 bar (145 psi) inlet pressure and 1 bar (14.5 psi) pressure drop.

P3L Lite Series Air Preparation System

Specifications

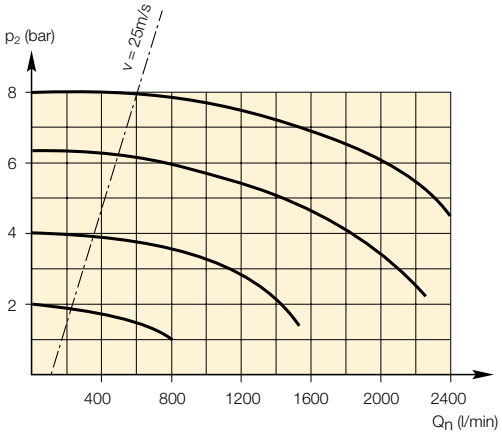
Flow Capacity	1/4	30.5 dm^3/s (65 scfm)
Operating Temperature		0°C (32°F) to 50°C (122°F)
Max Supply Pressure		10 bar (150 psi)
Standard Filtration		5 Micron
Useful Retention		12 cm^3 (0.4 US oz.)
Port Size	BSPP / NPT	1/4
Weight		0.11 kg (0.24 lbs)

* Inlet pressure 10 bar (145 psi). Pressure drop 1 bar (14.5 psi).

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

Flow Charts

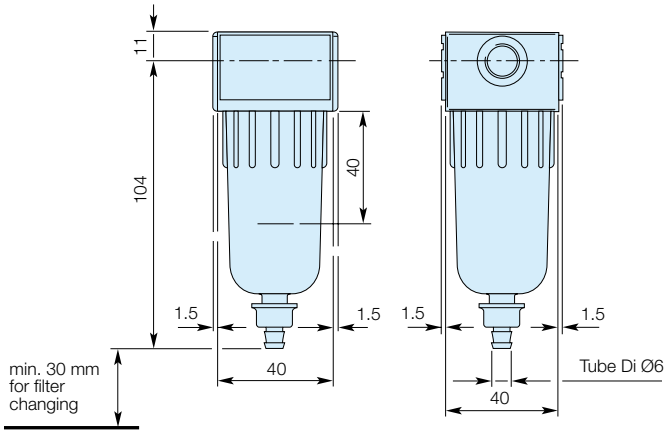
5µ Filter



Materials of Construction

Body	High Tech Polymer
Bowl	Polycarbonate
Element Retainer	POM
Baffle	POM
Filter Element	Sintered Polyethylene
Seals	Nitrile

Dimensions



Repair and Service Kits

Plastic bowl / semi-auto drain	**P3LKA00BPS**
5µ particle filter element	**P3LKA00ESE**
40µ particle filter element	**P3LKA00ESG**
Individual mounting bracket - P3LFA / P3LLA	**P3LKA00MW**

P3L Lite Series Air Preparation System

P3L Lite Coalescing and Adsorber Filters

- Integral 1/4 ports (BSPP & NPT)
- Removes liquid aerosols and sub micron particles
- Oil free air for critical applications, such as air gauging, pneumatic instrumentation and control
- Adsorbing activated carbon element removes oil vapours and most hydrocarbons

Note: To optimise the life of coalescing element, it is advisable to install a P3LF pre-filter with a 5 micron element upstream of the coalescing filter.

To optimise the life of an Adsorber it is advisable to install a P3L Coalescing Filter upstream of the Adsorber. Adsorber element should be replaced approx. every 1000 hours of service

Options:

P 3 L **F A** [ ] **2** [ ] **P** [ ] **N**

Thread type	
BSPP	**1**
NPT	**9**

Port size	
1/4	**2**

Element	
0.01µ Element	**C**
Adsorber	**A**

Bowl type	
Poly bowl	**P**

Drain type	
Manual push	**P**
Semi-auto	**S**

Mounting	
No bracket *	**N**

* for individual mounting bracket see page:19

Port size	Description	Order Code	Flow dm^3/s *	(scfm) *	Max bar	(psi)	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/4"	Poly bowl - 0.01 micron - Manual drain	**P3LFA12CPPN**	2	(4.23)	10	(150)	115 (4.52)	40 (1.58)	40 (1.58)
1/4"	Poly bowl - Adsorber	**P3LFA12APPN**	6	(12.7)	10	(150)	115 (4.52)	40 (1.58)	40 (1.58)

* flow with 6.3 bar (91.3 psi) inlet pressure and 0.2 bar (3 psi) pressure drop.

P3L Lite Series Air Preparation System

Specifications

Flow Capacity		2 dm^3/s	(4.2) SCFM
0.01 Micron Coalescing	Energy Efficient Flow*	2	(4.2)
Maximum Flow**		3.8	(8)
Activated Carbon Adsorber	Rated Flow*	6	(13)
Operating Temperature		0°C (32°F) to 50°C (122°F)	
Max Supply Pressure		10 bar (150 psi)	
Standard Filtration		0.01 Micron ppm wt	
Adsorber	Max oil carryover (ppm w/w)	0.003 @ 21°C (70°F)	
Useful Retention		12 cm^3 (0.4 US oz.)	
Port Size	BSPP / NPT	1/4	
Weight		11kg (24 lbs)	

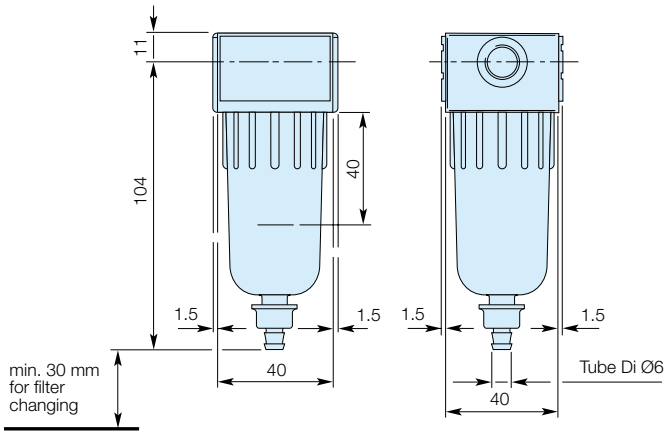
* Inlet pressure 6.3 bar (90 psi), Pressure drop 0.2 bar (3 psi), Saturated Element.

** Inlet pressure 6.3 bar (90 psi), Pressure drop 0.4 bar (6 psi), Saturated Element.

Materials of Construction

Body		High Tech Polymer
Bowl		Polycarbonate
Filter Element	0.01 Micron	Borosilicate Cloth
Adsorber		Activated Carbon
Seals		Nitrile

Dimensions



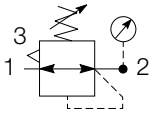
Repair and Service Kits

Plastic bowl / manual push drain Coalescing	**P3LKA00BPP1**
Plastic bowl / manual push drain, Adsorber	**P3LKA00BPP2**
0.01µ coalescing filter element	**P3LKA00ESC**
Activated carbon adsorber filter element	**P3LKA00ESA**
Individual mounting bracket - P3LFA / P3LLA	**P3LKA00MW**

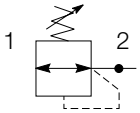
P3L Lite Series Air Preparation System

P3L Lite Regulator

Symbols



Self relieving regulator with gauge



Non relieving regulator

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

Options:

P 3 L	R A		2		N		P

Thread type	
BSPP	1
NPT	9

Port size	
1/4	2

Relief	
Relieving	B
Non relieving	N

Adjustment range			
With round gauge		Without gauge	
2 bar	Z	2 bar	Y
4 bar	M	4 bar	L
8 bar	G	8 bar	N

Mounting	
Plastic panel mount nut *	P

* for individual mounting bracket see page:19

Port size	Description	Order Code	Flow dm³/s *	Flow (scfm) *	Max bar	Max (psi)	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/4”	8 bar relieving	**P3LRA12BNNP**	12.8	(27)	10	(150)	88 (3.46)	40 (1.57)	40 (1.57)
1/4”	8 bar relieving + gauge	**P3LRA12BNGP**	12.8	(27)	10	(150)	88 (3.46)	40 (1.57)	72 (2.83)

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

P3L Lite Series Air Preparation System

Specifications

Flow Capacity*	1/4	12.8 dm³/s (27 scfm)
Operating Temperature		0°C (32°F) to 50°C (122°F)
Max Supply Pressure		10 bar (150 psi)
Adjusting Range Pressure		0-2 bar (30 psi) 0-4 bar (60 psi) 0-8 bar (125 psi)
Port Size	BSPP / NPT	1/4
Gauge Port (2 ea.)	BSPP / NPSI	1/8
Weight		0.11 kg (24 lbs)

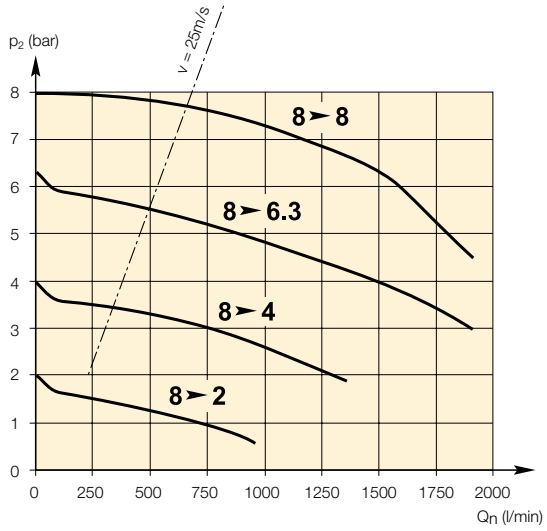
Inlet pressure 10 bar (145 psi), 6.3 bar (91.3 psi) set pressure and 1 bar (14.5 psi) pressure drop.

Materials of Construction

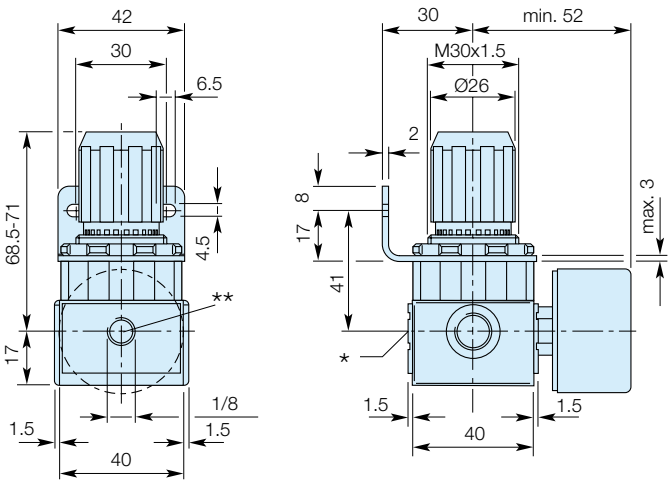
Body	High Tech Polymer
Adjustment Knob	Polyamide
Bonnet	High Tech Polymer
Piston	Brass / Nitrile
Springs	Steel
Seals	Nitrile
Panel Nut	Polyamide

Flow Charts

Regulator



Dimensions



* On delivery the screw plug is not assembled

** Two opposite gauge ports 1/8”

Repair and Service Kits

Panel mount nut - Aluminium	**P3LKA00MM**
Panel mount nut - Plastic	**P3LKA00MP**
Angle Bracket (uses panel mount threads)	**P3LKA00MR**

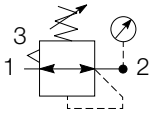
Gauges

40mm (1½”) Round 1/8” centre back mount

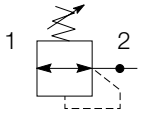
0-30 PSI / 0-2 bar	**KZ8810-00**
0-58 PSI / 0-4 bar	**KZ8811-00**
0-160 PSI / 0-10 bar	**KZ8813-00**

P3L Lite Regulator - Brass

Symbols



Self relieving regulator with gauge



Non relieving regulator

- Integral 1/4 ports (BSPP & NPT)
- Robust brass construction
- Secondary pressure ranges 2, 4, 8 & 16 bar
- Unbalanced poppet valve standard, with solid control piston
- Relieving & Non-relieving types
- Non-rising knob
- Industrial water & Drinking water applications on request

Options:

P 3 L **R X** [ ] **2** [ ] **N** [ ] **P**

Thread type	
BSPP	**1**
NPT	**9**

Port size	
1/4	**2**

Relief	
Relieving	**B**
Non relieving	**N**

Adjustment range			
With round gauge		**Without gauge**	
2 bar	**Z**	2 bar	**Y**
4 bar	**M**	4 bar	**L**
8 bar	**G**	8 bar	**N**
16 bar	**J**	16 bar	**H**

Mounting	
Plastic panel mount nut *	**P**

* for individual mounting bracket see page:19

Port size	Description	Order Code	Flow dm^3/s *	(scfm) *	Max bar	(psi)	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/4”	8 bar relieving	**P3LRX12BNNP**	9.8	(20.7)	16	(232)	79 (3.11)	40 (1.57)	40 (1.57)
1/4”	8 bar relieving + gauge	**P3LRX12BNGP**	9.8	(20.7)	16	(232)	79 (3.11)	40 (1.57)	72 (2.83)

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

P3L Lite Series Air Preparation System

Specifications

Flow Capacity*	1/4	9.8 dm³/s (20.7 scfm)
Operating Temperature		0°C (32°F) to 60°C (140°F)
Max Supply Pressure		16 bar (232 psi)
Adjusting Range Pressure		0-2 bar (30 psi) 0-4 bar (60 psi) 0-8 bar (125 psi)
Port Size	BSPP / NPT	1/4
Gauge Port (2 ea.)	BSPP / NPSI	1/8
Weight		0.2 kg (0.44 lbs)

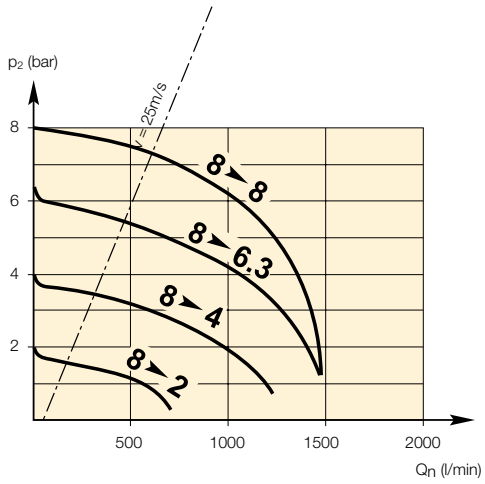
* Inlet pressure 10 bar (145 psi), 6.3 bar (91.3 psi) set pressure and 1 bar (14.5 psi) pressure drop.

Materials of Construction

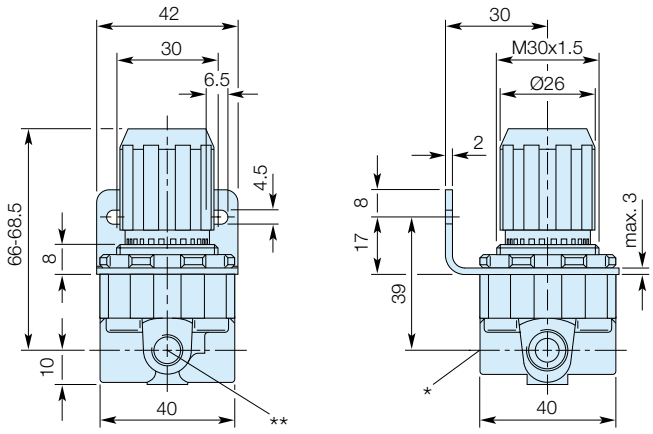
Body	Brass
Adjustment Knob	Polyamide
Bonnet	High Tech Polymer
Piston	Brass / Nitrile
Springs	Steel
Seals	Nitrile
Panel Nut	Polyamide

Flow Charts

Regulator - Brass



Dimensions



* On delivery the scew plug is not assembled

** Two opposite gauge ports 1/8

Repair and Service Kits

Panel mount nut - Aluminium	**P3LKA00MM**
Panel mount nut - Plastic	**P3LKA00MP**
Angle Bracket (uses panel mount threads)	**P3LKA00MR**

Gauges

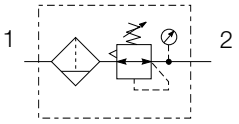
40mm (1½") Round 1/8" centre back mount

0-30 PSIG / 0-2 bar	**KZ8810-00**
0-58 PSIG / 0-4 bar	**KZ8811-00**
0-160 PSIG / 0-10 bar	**KZ8813-00**

P3L Lite Series Air Preparation System

P3L Lite Filter / Regulator

Symbols



- Integral 1/4 ports (BSPP & NPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight construction
- Secondary pressure ranges 2, 4 & 8 bar
- Unbalanced poppet valve standard, with solid piston control

Options:

P 3 L | E A | [ ] | 2 | [ ] | P | [ ] | [ ] | N | [ ] | P

Thread type	
BSPP	1
NPT	9

Port size	
1/4	2

Element	
5µ Element	E
40µ Element	G

Bowl type	
Poly bowl	P

Drain type	
Manual push	P
Semi-auto	S

Relief	
Relieving	B
Non relieving	N

Adjustment range			
With round gauge		Without gauge	
2 bar	Z	2 bar	Y
4 bar	M	4 bar	L
8 bar	G	8 bar	N

Mounting	
Plastic panel mount nut *	P

* for individual mounting bracket see page:19

Port size	Description	Order Code	Flow dm³/s *	Flow (scfm) *	Max bar	Max (psi)	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/4"	8 bar Relieving - Poly bowl - Manual drain	**P3LEA12EPPBNNP**	12.9	(27.3)	10	(150)	175 (6.89)	40 (1.57)	40 (1.57)
1/4"	8 bar Relieving - Poly bowl - Semi-auto drain	**P3LEA12EPSBNNP**	12.9	(27.3)	10	(150)	175 (6.89)	40 (1.57)	40 (1.57)
1/4"	8 bar Relieving - Poly bowl - Manual drain + Gauge	**P3LEA12EPPBNGP**	12.9	(27.3)	10	(150)	175 (6.89)	40 (1.57)	72 (2.83)
1/4"	8 bar Relieving - Poly bowl - Semi-auto drain + Gauge	**P3LEA12EPSBNGP**	12.9	(27.3)	10	(150)	175 (6.89)	40 (1.57)	72 (2.83)

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

P3L Lite Series Air Preparation System

Specifications

Flow Capacity*	1/4	12.9 dm³/s (27.3 scfm)
Operating Temperature		0°C (32°F) to 50°C (122°F)
Max Supply Pressure		10 bar (150 psi)
Standard Filtration		5 Micron
Useful Retention		12 cm³ (0.4 US oz.)
Adjusting Range Pressure		0-2 bar (30 psi) 0-4 bar (60 psi) 0-8 bar (125 psi)
Port Size	BSPP / NPT	1/4
Gauge Port (2 ea.)	BSPP / NPSI	1/8
Weight		0.12 kg (26 lbs)

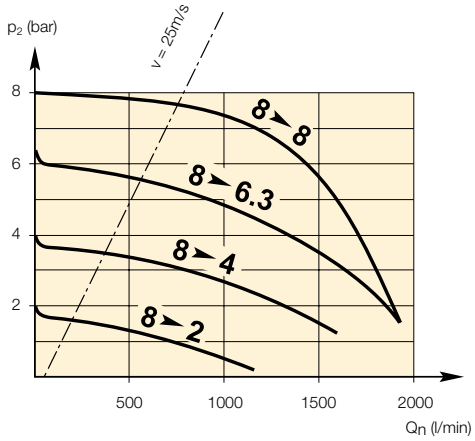
* Inlet pressure 10 bar (145 psi), 6.3 bar (91.3 psi) set pressure and 1 bar (14.5 psi) pressure drop.

Materials of Construction

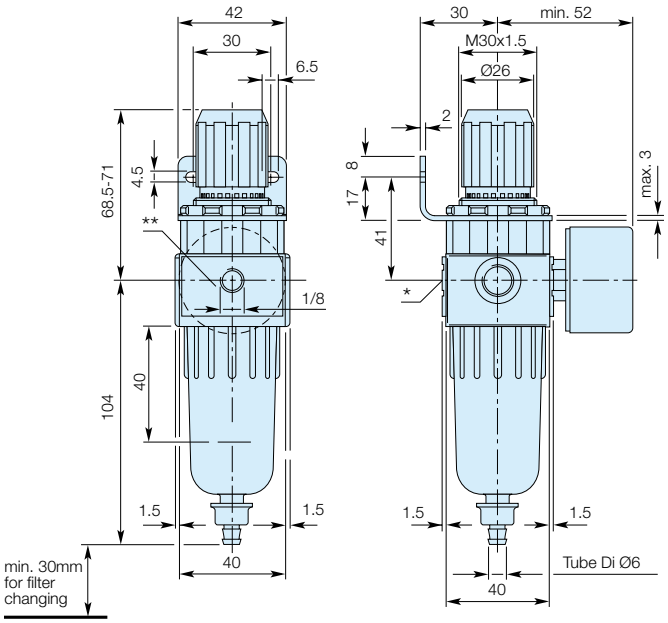
Body	HIgh Tech Polymer
Adjustment Knob	Polyamide
Bonnet	Polyamide
Bowl	Polycarbonate
Filter element	Polyethylene
Seals	Nitrile
Springs	Steel
Piston	Brass / Nitrile
Panel Nut	Polyamide

Flow Charts

Filter / Regulator



Dimensions



* On delivery the scew plug is not assembled

** Two opposite gauge ports 1/8

Repair and Service Kits

Plastic bowl / semi-auto drain	**P3LKA00BPS**
5µ particle filter element	**P3LKA00ESE**
40µ particle filter element	**P3LKA00ESG**
Panel mount nut - Aluminium	**P3LKA00MM**
Panel mount nut - Plastic	**P3LKA00MP**
Angle Bracket (uses panel mount threads)	**P3LKA00MR**

Gauges

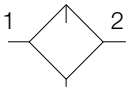
40mm (1½") Round 1/8" centre back mount

0-30 PSI / 0-2 bar	**KZ8810-00**
0-58 PSI / 0-4 bar	**KZ8811-00**
0-160 PSI / 0-10 bar	**KZ8813-00**

P3L Lite Series Air Preparation System

P3L Lite Lubricator

Symbols



- Integral 1/4 ports (BSPP & NPT)
- Robust but lightweight construction
- Proportional oil delivery over a wide range of air flows.
- Screw slot control for precise oil drip rate adjustment

Options:

P 3 L	L A		2	L	P	N	N

Thread type	
BSPP	**1**
NPT	**9**

Port size	
1/4	**2**

Bowl type	
Poly bowl	**P**

Mounting	
No bracket *	**N**

* for individual mounting bracket see page:19

Type	
Oil mist standard sight dome	**L**

Drain type	
No drain; closed end	**N**

Port size	Description	Order Code	Flow dm^3/s *	Flow (scfm) *	Max bar	Max (psi)	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/4”	Poly bowl - No drain	**P3LLA12LPNN**	23.3	(49)	10	(150)	145 (5.7)	40 (1.57)	40 (1.57)

* flow with 6.3 bar (91.3 psi) inlet pressure and 1 bar (14.5 psi) pressure drop.

Parker Hannifin Corporation
Pneumatic Division - Europe

P3L Lite Series Air Preparation System

Specifications

Flow Capacity*	1/4	23.3 dm^3/s (49 scfm)
Operating Temperature		0°C (32°F) to 50°C (122°F)
Max Supply Pressure		10 bar (150 psi)
Useful Retention		12 cm^3 (0.4 US oz.)
Port Size	BSPP / NPT	1/4
Weight		0.09 kg (20 lbs)

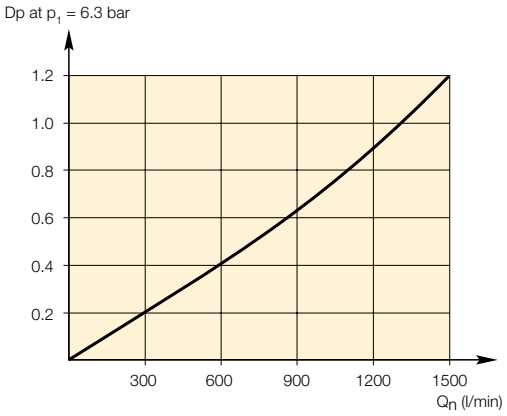
* Inlet pressure 6.3 bar. Pressure drop 1 bar.

Materials of Construction

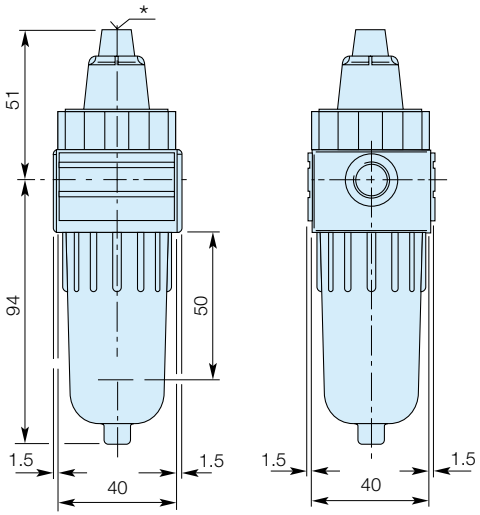
Body	High Tech Polymer
Bowl	Polycarbonate
Seals	Nitrile
Sight Dome	Polycarbonate
Suggested Lubricant	ISO / ASTM VG32

Flow Charts

Lubricator



Dimensions



* Oil adjustment screw

Repair and Service Kits

Plastic bowl - no drain	**P3LKA00BPN**
Lubricator Oil - VG32 - 1 litre	**P3YKA00PPBB**

Parker Hannifin Corporation
Pneumatic Division - Europe

Modular Manifold

Features

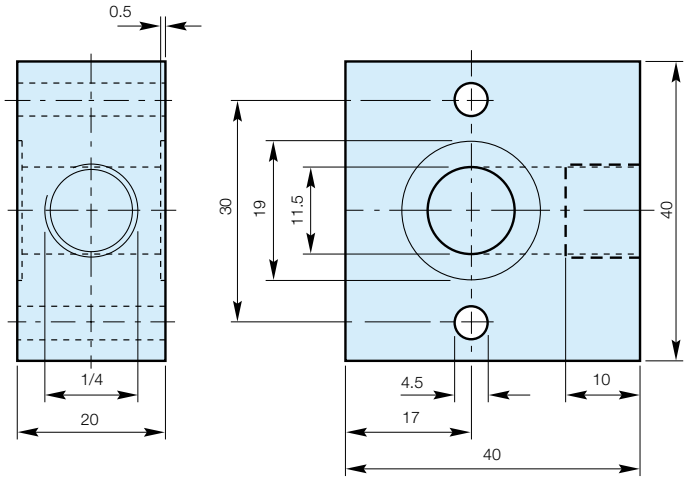
- 1/4 ported (BSPP & NPT)
- 1 take-off 1/4 Top or Bottom
- Coupling kit P3LKA00CB2 supplied with 2 sealing rings.

Material

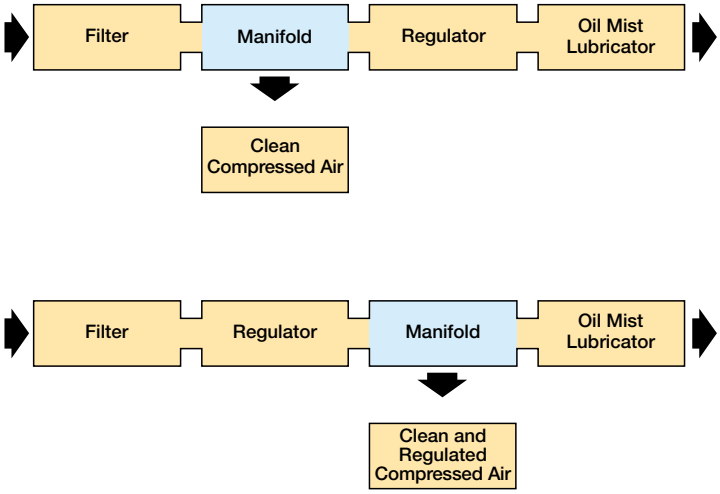
Aluminium - Black anodised

Description	Order code BSPP	Order code NPT	Weight (g)
1/4”	**P3LMA12020C**	**P3LMA92020C**	95

Dimensions (mm)



Installation Instructions



Accessories Kits

Description	Order Code	
Panel Mount Nut (Plastic)	**P3LKA00MP**	
Panel Mount Nut (Aluminium)	**P3LKA00MM**	
5µ Element Kit 40µ Element Kit	**P3LKA00ESE** **P3LKA00ESG**	
0.01µ Element Kit	**P3LKA00ESC**	
Adsorber Element Kit	**P3LKA00ESA**	
Individual mounting bracket fits - Filter & Lubricator	**P3LKA00MW**	
Angle mounting bracket fits - Regulator & Filter Regulator	**P3LKA00MR**	
Gauge 0 - 2 bar Gauge 0 - 4 bar Gauge 0 - 10 bar	**KZ8810-00** **KZ8811-00** **KZ8813-00**	
Modular connector kit fits - Regulator or Filter Regulator + Filter or Lubricator Regulator or Filter Regulator + Manifold + Filter or Lubricator Regulator or Filter Regulator + Filter + Filter Filter + Lubricator	 **P3LKA00CB1** **P3LKA00CB2** **P3LKA00CB3** **P3LKA00CB4**	

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