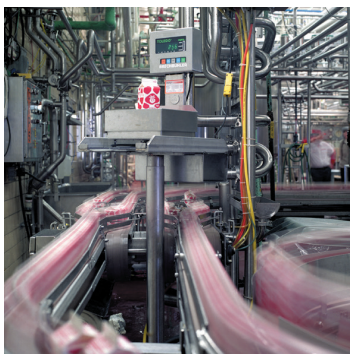




aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



P3L Lite Series Air Preparation System

G1/4" Body Ports

Catalogue PDE2661TCUK April 2021



ENGINEERING YOUR SUCCESS.



WARNING

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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 ½" 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.

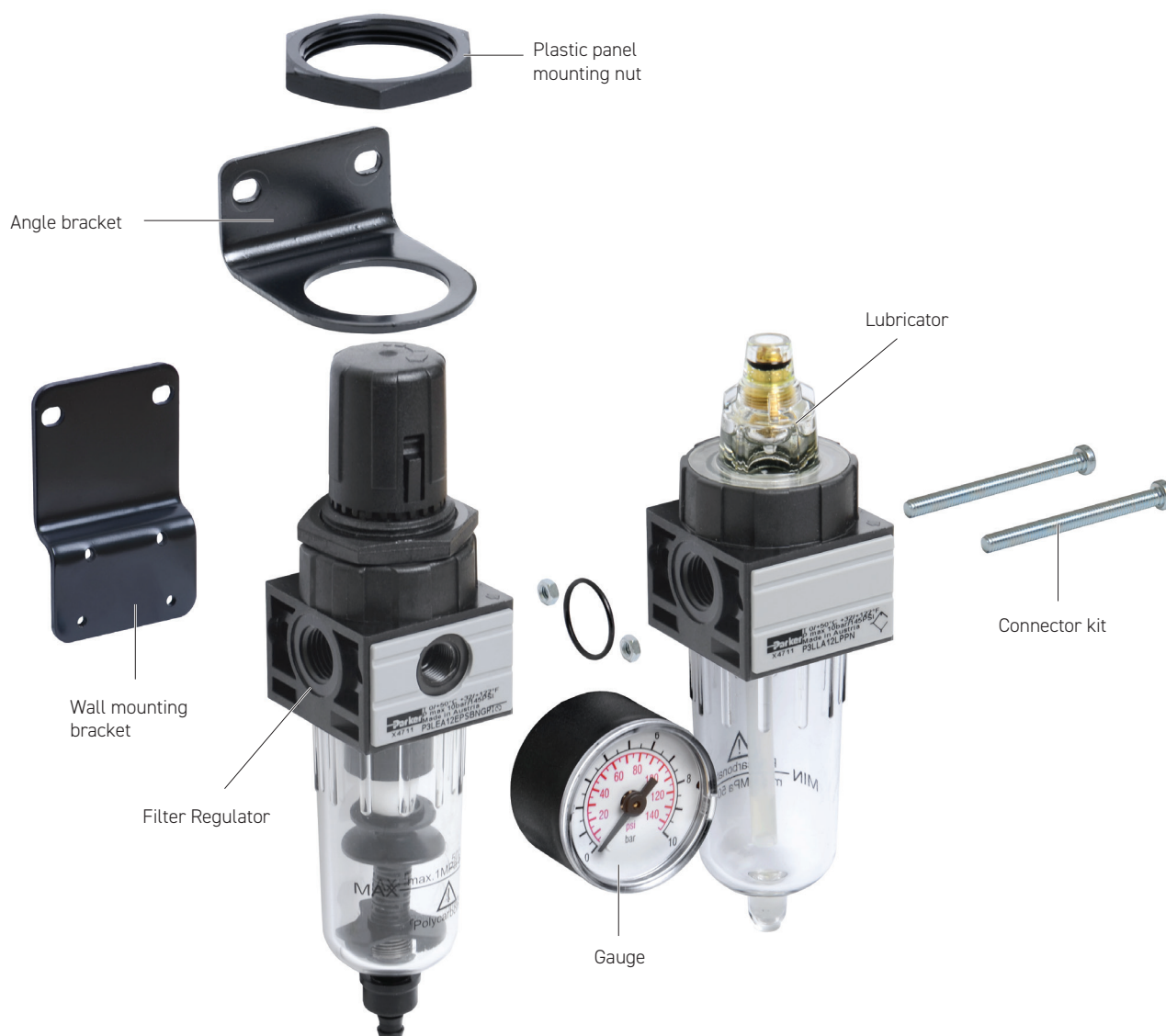
The P3L filters are specially designed to efficiently filter out rust, dirt, moisture and other impurities from compressed air lines. Units are available with a choice of 5 micron or 40 micron elements and with either manual or semi auto drains. Coalescing filters for the removal of liquid aerosols and 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.

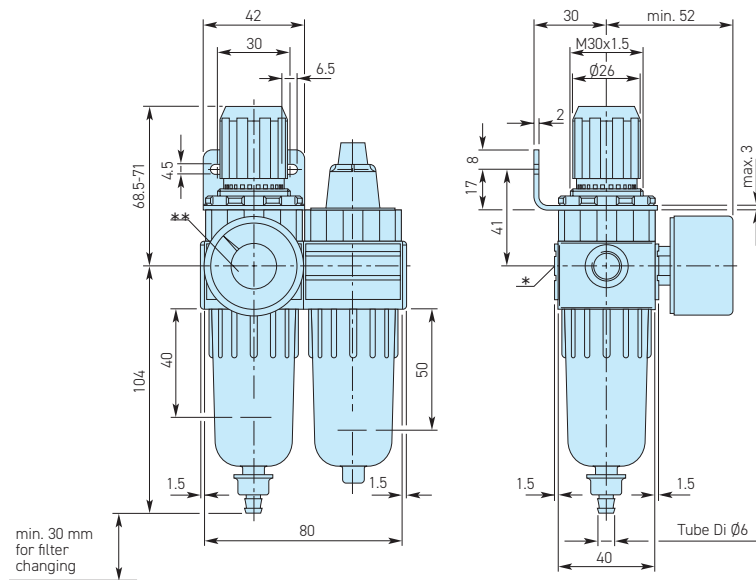
For aggressive environments a brass bodied version is available and both relieving and non-relieving versions are standard options.

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 unlubricated "air take off" or differing pressure "air take off" to be assembled dependent upon position.



Popular Combinations



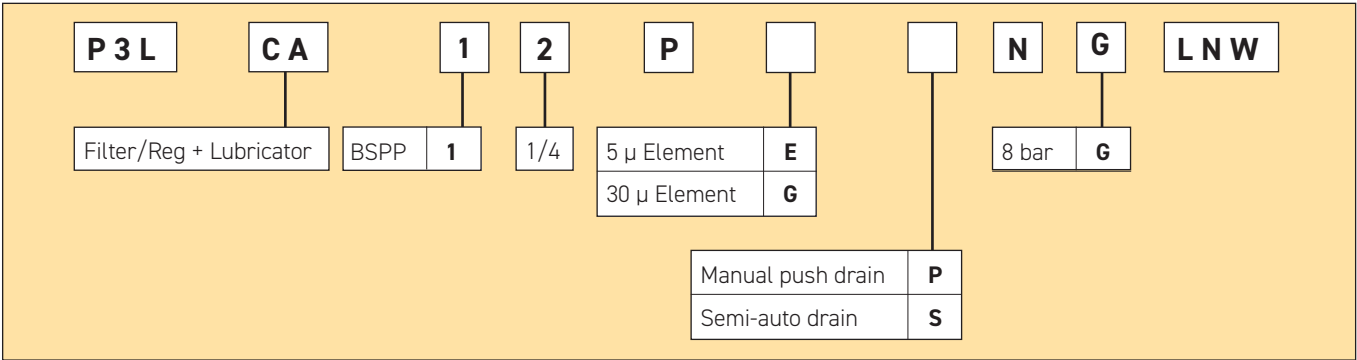
* On delivery the screw plug is not assembled
** Two opposite gauge ports 1/8

Filter Regulator + Lubricator Combination

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

Port size	Flow dm ³ /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)

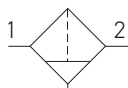
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.



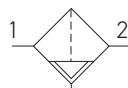
Particulate Filters



Symbols



Manual drain



Semi-auto drain

- Integral 1/4 ports
- 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	1	2		P		N
Thread type		Port size		Bowl type		Mounting	
BSPP		1/4		Poly bowl		No bracket	
1		2		P		N	
Element				Drain type			
5μ Element				Manual push			
30μ Element				Semi-auto			
E				P			
G				S			

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 - 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"	Poly bowl - Manual drain - 30μ	P3LFA12GPPN	30.5	(65)	10 (150)	115 (4.52)	40 (1.58)	40 (1.58)
1/4"	Poly bowl - Semi-auto drain - 30μ	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.

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	BSP	1/4
Weight	0.11 kg (0.24 lbs)	

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

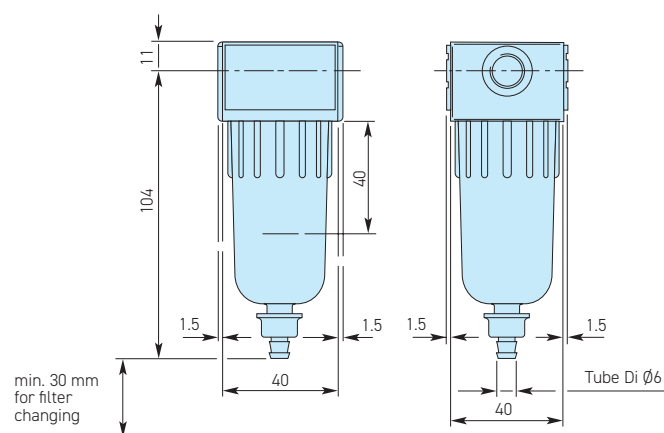
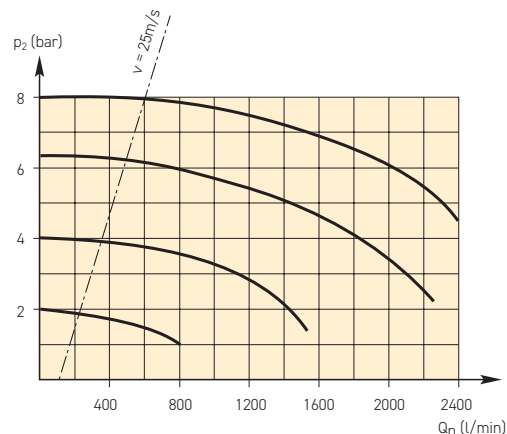
Air quality:

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

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

Materials of Construction

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

Dimensions**Flow Charts****5μ Filter****Repair and Service Kits**

Plastic bowl / semi-auto drain	P3LKA00BPS
5μ particle filter element	P3LKA00ESE
30μ particle filter element	P3LKA00ESG
Individual mounting bracket - P3LFA / P3LLA	P3LKA00MW

Coalescing and Adsorber Filters



- Integral 1/4 ports
- 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

FA

1

2

P

N

Thread type

BSPP1

Port size

1/42

Bowl type

Poly bowlP

Mounting

No bracketN

Element

0.01µ ElementC

AdsorberA

Drain type

Manual pushP

Semi-autoS

Port size	Description	Order Code	Flow dm³/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.

Specifications

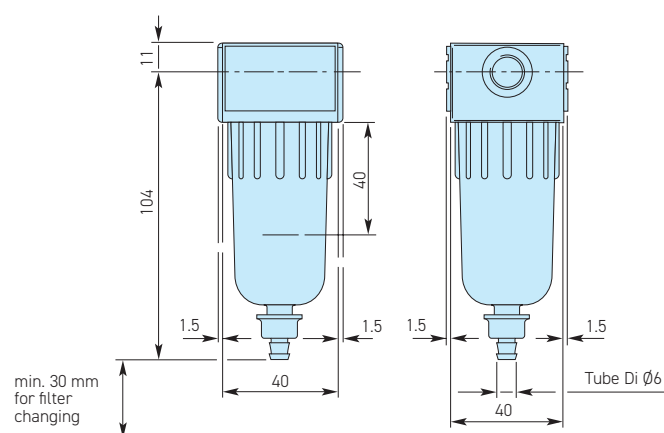
Flow Capacity		2 dm ³ /s (4.2) SCFM	
0.01 Micron Coalescing	Energy Efficient Flow*	2	(4.2)
Maximum Flow**		3.8	(8)
Activated Carbon Adsorber	Rated Flow*	6	(13)
Operating Temperature		0°C (32°F) to 50°C (122°F)	
Max Supply Pressure		10 bar (150 psi)	
Standard Filtration		0.01 Micron ppm wt	
Adsorber	Max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

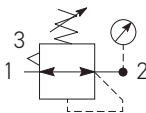
Dimensions**Repair and Service Kits**

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

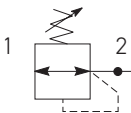
Regulators



Symbols



Self relieving regulator with gauge



Non relieving regulator

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

Options:

P 3 L

R A

1

2

B

N

P

Thread type
BSPP
1

Port size
1/4
2

Relief
Relieving
B

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

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	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.

Specifications

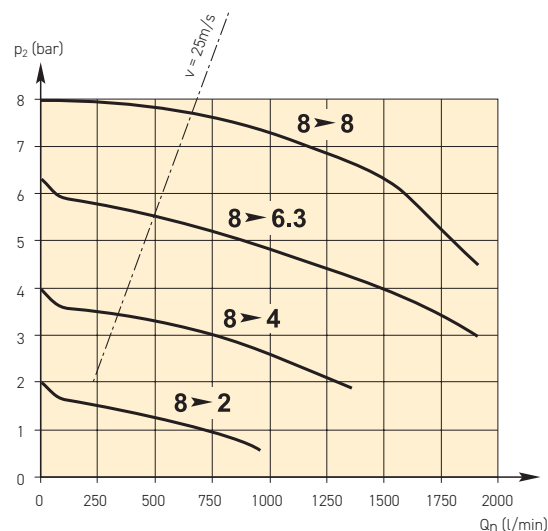
Flow Capacity*	1/4	12.8 dm³/s (27 scfm)
Operating Temperature	0°C (32°F) to 50°C (122°F)	
Max Supply Pressure	10 bar (150 psi)	
Adjusting Range Pressure	0-2 bar (30 psi)	
	0-4 bar (60 psi)	
	0-8 bar (125 psi)	
Port Size	BSPP	1/4
Gauge Port (2 ea.)	BSPP	1/8
Weight	0.11 kg (24 lbs)	
Inlet pressure 10 bar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

Materials of Construction

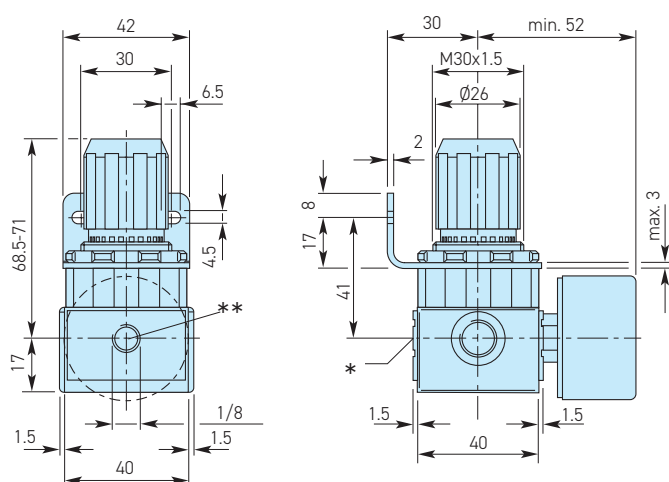
Body	High Tech Polymer
Adjustment Knob	Polyamide
Bonnet	High Tech Polymer
Piston	Brass / Nitrile
Springs	Steel
Seals	Nitrile
Panel Nut	Polyamide

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

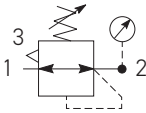
40mm (1 1/2") Round 1/8" centre back mount

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

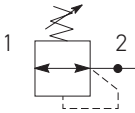
Brass Regulators



Symbols



Self relieving regulator
with gauge



Non relieving regulator

- Integral 1/4 ports
- 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

Options:

P 3 L

R X

1

2

B

N

P

Thread type	
BSPP	1

Port size	
1/4	2

Relief	
Relieving	B

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

Port size	Description	Order Code	Flow dm³/s *	(scfm) *	Max bar (psi)	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/4"	8 bar relieving	P3LRX12BNNP	9.8	(20.7)	8 (116)	79 (3.11)	40 (1.57)	40 (1.57)
1/4"	8 bar relieving + gauge	P3LRX12BNGP	9.8	(20.7)	8 (116)	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.

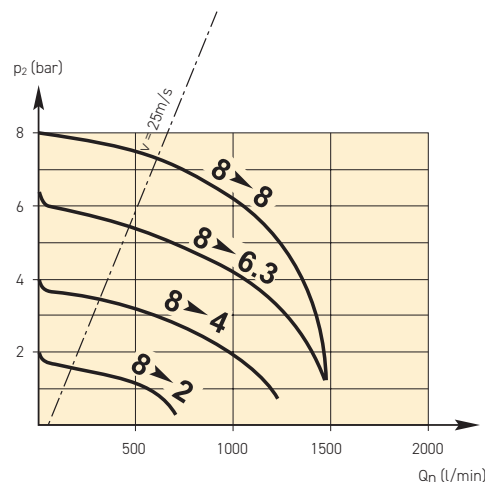
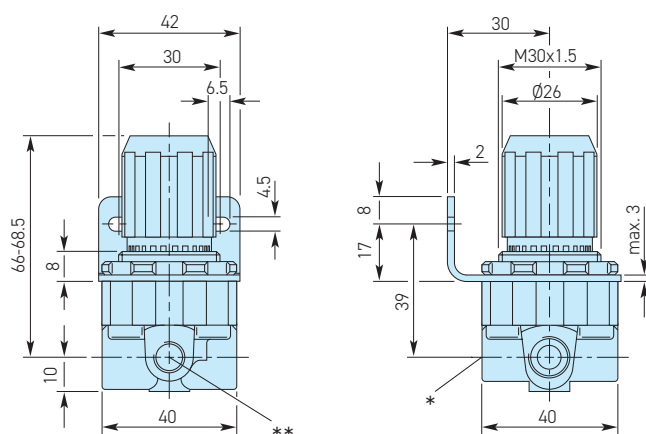
Specifications

Flow Capacity*	1/4	9.8 dm ³ /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	1/4
Gauge Port (2 ea.)	BSPP	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 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

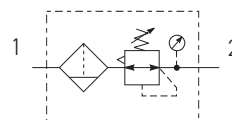
Gauges**40mm (1 1/2") Round 1/8" centre back mount**

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

Filter/Regulators



Symbols



- Integral 1/4 ports
- 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	EA	1	2	P	B	N	P																
Thread type		Port size		Drain type		Mounting																	
BSPP		1/4		Manual push		Plastic panel mount nut																	
1		2		Semi-auto		P																	
Element		Bowl type		Relief		Adjustment range																	
5µ Element		Poly bowl		Relieving		<table border="1"> <tr> <th colspan="2">With round gauge</th> <th colspan="2">Without gauge</th> </tr> <tr> <td>2 bar</td> <td>Z</td> <td>2 bar</td> <td>Y</td> </tr> <tr> <td>4 bar</td> <td>M</td> <td>4 bar</td> <td>L</td> </tr> <tr> <td>8 bar</td> <td>G</td> <td>8 bar</td> <td>N</td> </tr> </table>		With round gauge		Without gauge		2 bar	Z	2 bar	Y	4 bar	M	4 bar	L	8 bar	G	8 bar	N
With round gauge		Without gauge																					
2 bar	Z	2 bar	Y																				
4 bar	M	4 bar	L																				
8 bar	G	8 bar	N																				
30µ Element		P		B		N																	
E		P		B		N																	
G		P		B		N																	

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 - Poly bowl - Manual drain 5µ	P3LEA12EPPBNP	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 5µ	P3LEA12EPSBNP	12.9 (27.3)	10 (150)	175 (6.89)	40 (1.57)	40 (1.57)
1/4"	8 bar Relieving - Poly bowl - Manual drain 5µ + 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 5µ + 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.

Specifications

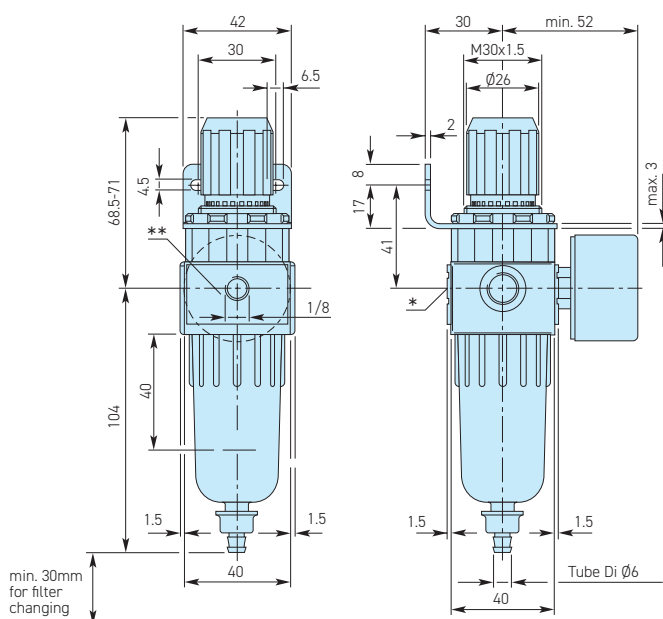
Flow Capacity*	1/4	12.9 dm ³ /s (27.3 scfm)
Operating Temperature		0°C (32°F) to 50°C (122°F)
Max Supply Pressure		10 bar (150 psi)
Standard Filtration		5 Micron
Useful Retention		12 cm ³ (0.4 US oz.)
Adjusting Range Pressure		0-2 bar (30 psi) 0-4 bar (60 psi) 0-8 bar (125 psi)
Port Size	BSPP	1/4
Gauge Port (2 ea.)	BSPP	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

Dimensions

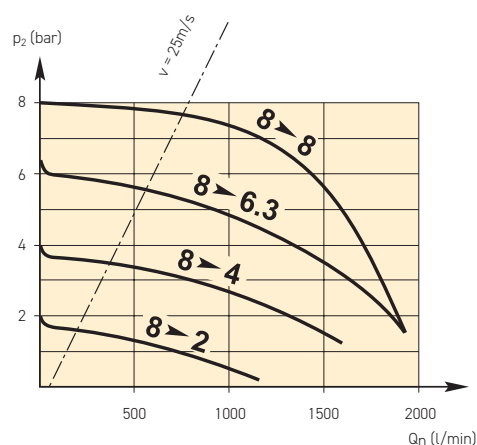


* On delivery the scuw plug is not assembled

** Two opposite gauge ports 1/8"

Flow Charts

Filter / Regulator



Repair and Service Kits

Plastic bowl / semi-auto drain	P3LKA00BPS
5µ particle filter element	P3LKA00ESE
30µ particle filter element	P3LKA00ESG
Panel mount nut - Aluminium	P3LKA00MM
Panel mount nut - Plastic	P3LKA00MP
Angle Bracket (uses panel mount threads)	P3LKA00MR

Gauges

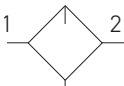
40mm (1½") Round 1/8" centre back mount

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

Lubricators



Symbols



- Integral 1/4 ports
- 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

LA

1

2

L

P

N

N

Thread type

BSPP1

Port size

1/42

Bowl type

Poly bowlP

Mounting

No bracketN

Type

Oil mist standard sight domeL

Drain type

No drain; closed endN

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 - 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.

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	1/4
Weight		0.09 kg (20 lbs)

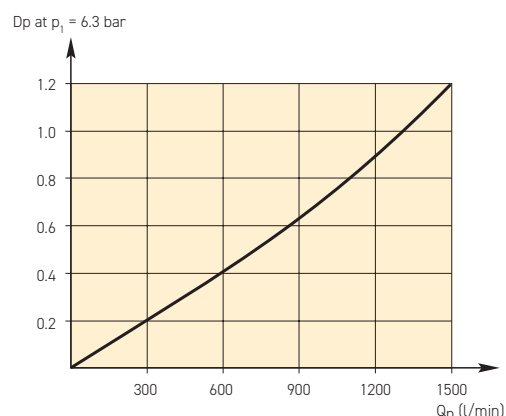
* Inlet pressure 6.3 bar. Pressure drop 1 bar.

Materials of Construction

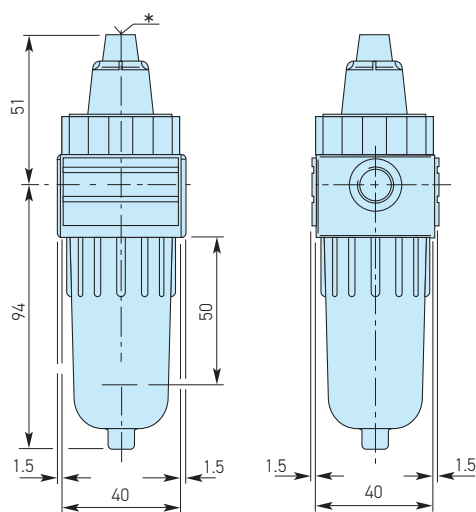
Body	High Tech Polymer
Bowl	Polycarbonate
Seals	Nitrile
Sight Dome	Polycarbonate
Suggested Lubricant	ISO / ASTM VG32

Flow Charts

Lubricator



Dimensions



* Oil adjustment screw

Repair and Service Kits

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

Modular Manifold

Features

- 1/4 ported
- 1 take-off 1/4 Top or Bottom
- Coupling kit P3LKA00CB2 supplied with 2 sealing rings.

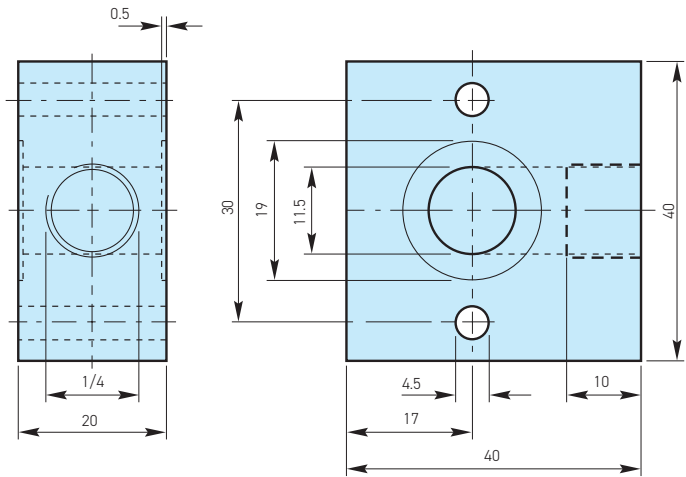
Material

Aluminium - Black anodised

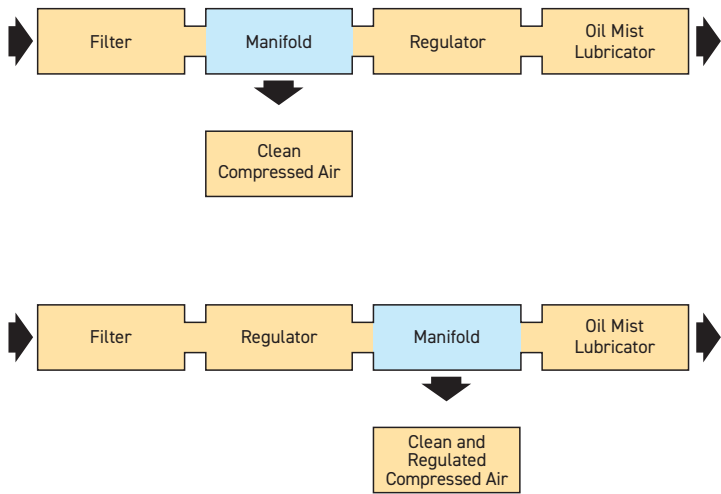


Description	Order code BSPP	Weight (g)
1/4"	P3LMA12020C	95

Dimensions (mm)



Installation Instructions



P3L Lite Series Air Preparation System**Accessories Kits**

Description	Order Code	
Panel Mount Nut (Plastic)	P3LKA00MP	
Panel Mount Nut (Aluminium)	P3LKA00MM	
5µ Element Kit	P3LKA00ESE	
30µ Element Kit	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	

Parker Worldwide

Europe, Middle East, Africa

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

AT – Austria, Wiener Neustadt
Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt
Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

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

BE/LU – Belgium, Nivelles
Tel: +32 (0)67 280 900
parker.belgium@parker.com

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

BY – Belarus, Minsk
Tel: +375 17 209 9399
parker.belarus@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, Athens
Tel: +30 210 933 6450
parker.greece@parker.com

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

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

NL – The Netherlands, Oldenzaal
Tel: +31 (0)541 585 000
parker.nl@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

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: +380 44 494 2731
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 12 4009 3500

CL – Chile, Santiago
Tel: +562 2303 9640

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