Parker Global Air Preparation System

Global.
Economical.
Modular.

Performance you need,
wherever *you need it.*

The comprehensive Global Air Preparation System is available in three body sizes with either BSPP or NPT to accommodate thread type requirements.

Full featured filters, regulators, filter/regulators, and lubricators are available with a wide range of standard options to meet air preparation needs.

Individual units can easily be assembled into various combinations, utilizing patented modular lightweight body connectors.

www.parker.com/globalfrl

Validated for transport applications

As you would expect from a member of the Rail Industry Association, the Global FRL meets the test specification standards enabling the Global FRL to be used as a validated product in a variety of rail applications.

RAILWAY INDUSTRY ASSOCIATION

CEI/ICE 61373 1999-1 Category 2 (BS EN 61373:1999)

Application Guide

FRL to Valve: The chart below contains recommendations for the correct selection of Global Air Preparation units to suit the number and size of valves in a typical application.

	P31 Mini Series	P32 Compact Series	P33 Standard Series
			

	Number of valves that would actuate at once															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Moduflex 1																
Isys Micro																
HB / Viking Xtreme																
Moduflex 2																
HA / Global ISO																
							See Larger Parker FRL Offering									

Actuator to FRL: The chart below contains recommendations for the correct selection of Global Air Preparation units suitable for each cylinder size. If you have a tube length over 2 m, choose one tube size larger than the chart. The table is based on a Maximum cylinder speed of 0.5m/s

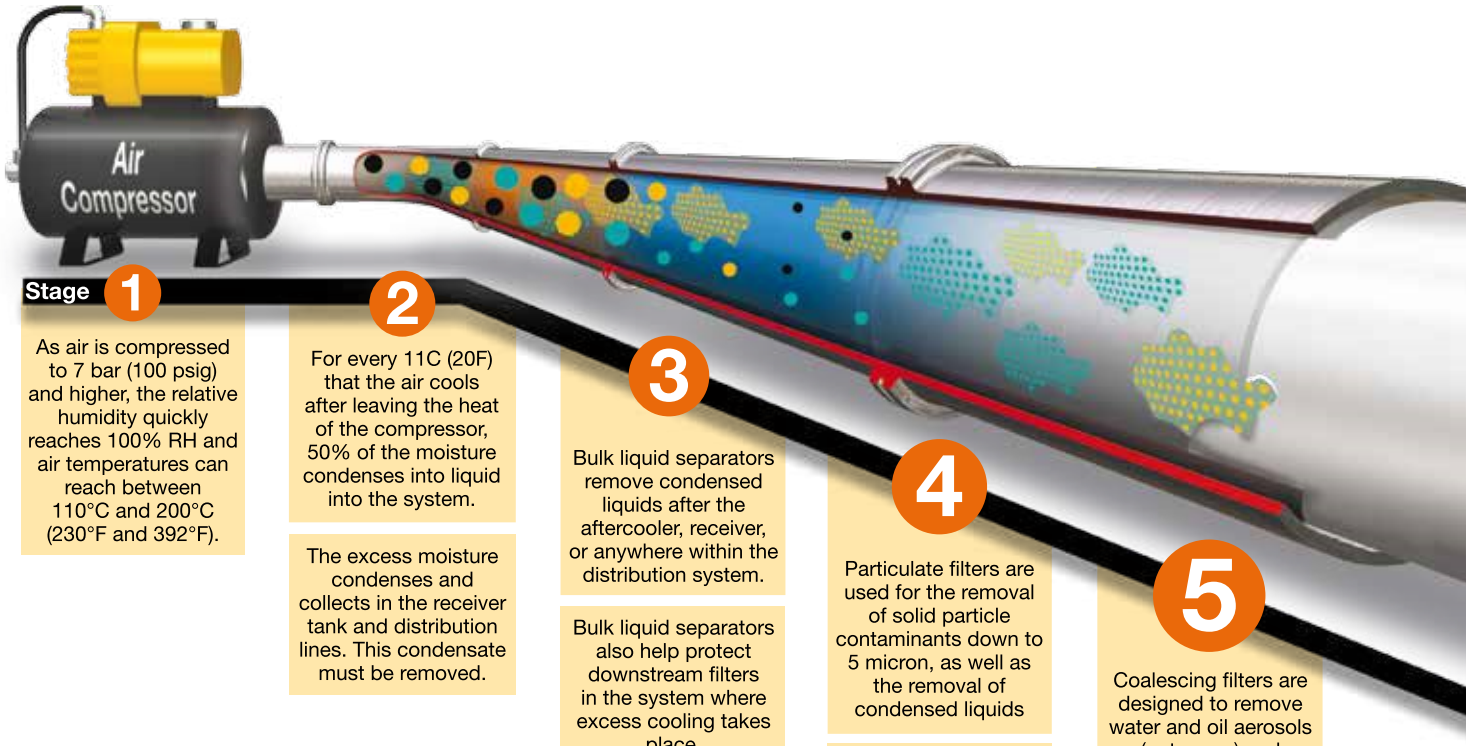
Cyl Ø mm Cyl Ø inches		Cylinder bore size													
		5 (5/16)	10 (7/16)	16 (9/16)	20 (3/4)	25 (1)	28 (1-1/8)	32 (1-1/4)	40 (1-1/2)	45 (1-3/4)	50 (2)	63 (2-1/2)	75 (3)	80 (3-1/4)	100 (4)
Tube Ø mm Tube Ø inches		Tube diameter external													
		4 (5/32)	4 (5/32)	4 (5/32)	6 (1/4)	6 (1/4)	6 (1/4)	6 (1/4)	8 (5/16)	8 (5/16)	8 (5/16)	10 (3/8)	10 (3/8)	12 (1/2)	12 (1/2)
Number of cylinders actuating at once	1														
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
		P31 Mini Series					P32 Compact Series			P33 Standard Series			See Larger Parker FRL Offering		
															

Note: Data listed above is simply a guideline for a typical application only. Proper sizing and correct flow requirements must be taken into account.

Together we can power your application with clean, dry air

Fast cycle times, high product quality, and low downtime all require a clean, dry pneumatic system to function properly. Parker has what it takes to make sure pneumatic systems perform at their best.

Clean, dry pneumatic systems with Parker Global Air Preparation



Stage 1

As air is compressed to 7 bar (100 psig) and higher, the relative humidity quickly reaches 100% RH and air temperatures can reach between 110°C and 200°C (230°F and 392°F).

2

For every 11C (20F) that the air cools after leaving the heat of the compressor, 50% of the moisture condenses into liquid into the system.

The excess moisture condenses and collects in the receiver tank and distribution lines. This condensate must be removed.

3

Bulk liquid separators remove condensed liquids after the aftercooler, receiver, or anywhere within the distribution system.

Bulk liquid separators also help protect downstream filters in the system where excess cooling takes place.

4

Particulate filters are used for the removal of solid particle contaminants down to 5 micron, as well as the removal of condensed liquids

Note: Water and oil, in vapor form, pass through general purpose particulate filters.

This type of filter should be used as a prefilter for the coalescing (oil removal) filter.

5

Coalescing filters are designed to remove water and oil aerosols (not vapor) and particulate from air streams down to 0.01 micron in size.

Installed in pairs, Particulate and Coalescing filters ensure a continuous supply of high quality air.

Key

- **Particulate**
- **Oil**
- **Water**
- **Oil Vapor**
- **Water Vapor**

						
Stages	1 2	3	4	5	6	7
Function	**Air Compressor**	**Bulk Liquid Removal**	**Particulate Filtration**	**Coalescing Filtration**	**Air Dryers**	**Hydrocarbon Removal**
Application	All pneumatic systems	Basic pneumatic systems	Basic pneumatic systems	Systems requiring highest quality air.	Systems requiring air with reduced moisture content	Systems requiring highest quality air for critical applications
Description	Air leaving the compressor room at 93°C (200°F) releases 95% of its moisture into the piping system when it cools to 38°C (100°F)	Removes bulk liquid contamination and protects filters where excess cooling takes place in the distribution piping	Removes solid particulates down to 5 micron, and the separation of bulk contaminants.	Removes liquid aerosols and submicron particulates (not vapor) down to 0.01 micron.	Removes water vapor from air stream. Dew point reduced down to -40'C membrane and -70'C desiccant.	Removal of odors and trace vapors for critical applications.
Parker Global Air Preparation Solution	Customer supplied	P3TF Bulk Liquid Separator	P31, P32, P33 Particulate Filter	P31, P32, P33 Coalescing Filter	P3XJ Membrane Dryer P3TJ Regenerative Desiccant Dryer	P31, P32, P33 Activated Carbon (Adsorber) Filter

DECLARATION

We **Parker Hannifin Manufacturing Austria GmbH**
Badener Straße 12
2700 Wiener Neustadt
Austria

Product	Series	Category
Filter*	P31FB, P32FB, P33FA	for zone 1, 21
Regulator	P31RB, P32RB, P33RA	for zone 1, 21
Filter regulator*	P31EB, P32EB, P33EA	for zone 1, 21
Lubricator*	P31LB, P32LB, P33LA	for zone 1, 21
Ball Valve & Slide Valve	P31VB, P32VB, P33VB	for zone 1, 21
Manifold	P31MA, P32MA, P33MA	for zone 1, 21
For non-fitted solenoid product		
Soft start & Dump Valve	P31TA, P32TA	for zone 1, 21
Soft Start Valve	P31SA, P32SA	for zone 1, 21
Dump Valve	P31DA, P32DA	for zone 1, 21

*Filter, Filter Regulator and Lubricator – This evaluation applies to products fitted with metal bowls only.

Following Ignition Hazard Assessments performed on the non-electrical products listed above, in accordance with the requirements of EN 13463-1:2009, it was considered that the equipment does not contain its own source of ignition, and therefore is not within the scope of directive 94/9/EC.

The products can be used in a Group II Category 2 environment assuming that the ATEX Directive and the following conditions are complied with:

- Installation and maintenance of the product must be undertaken by qualified personnel.
- Do not mount the products in an area where impact may occur.
- Filters must be used to limit the introduction of particles and to capture particles generated in service.
- Supply air quality must be within ISO 8573-1:2010 Class 1.4.2.
- Maximum working temperature to be as stated on product label.
- WARNING – pulsating pressure and/or a closed circuit can generate heat.
- Deposits of dust on the product must not exceed 5mm thickness.
  Refer to technical file for surface areas of plastics.
  The unit must be earthed via the compressed air supply line.
- The unit must not come into contact with liquid solvents, acids or alkalis
  Refer to technical file for chemicals known to be incompatible.
  Product cleaning must be undertaken using a method complying with the specifications of the ATEX zone, preferably by using mild soap and water or antistatic products.
- **Regulators, Filter Regulators:**
  Do not use Regulators or Filter Regulators within systems that can create vibration within the Regulator/Filter Regulator unit.
- **Solenoid Operated Valves:**
  Are suitable for use in an ATEX environment, (Group II Category 2) providing ATEX approved solenoids are fitted.
- Technical file available on request.

Approved by:

Engineering Manager – Air Preparation EMEA

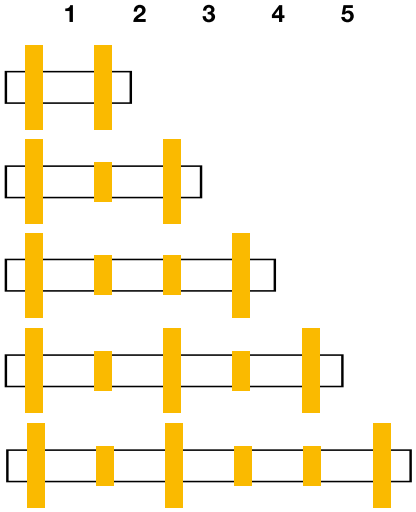
Validated for transport applications

As you would expect from a member of the Rail Industry Association, Global air preparation meets the test specification standards enabling the Global series to be used as a validated product in a variety of rail applications.

Railway Industry Association

CEI/ICE 61373 1999-1 Category 2 (BS EN 61373:1999)

Position of T-Brackets for multiple units

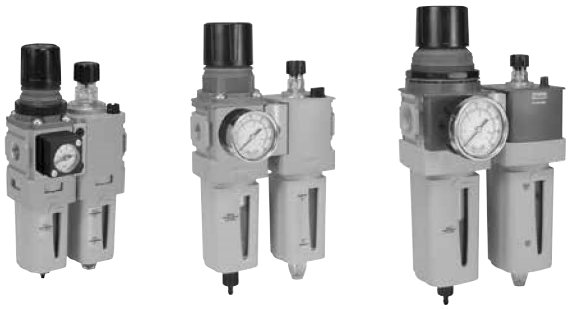


Recommended mounting / fixation method for use in transportation applications.

- The use of a port block kit and T-bracket should be used at all times (angle / L-brackets should not be used in rail applications)
- Additional security is recomended with the use of 'vibration proof adhesive' on the wall mounting screws to the port / connector block
- Inlet (P1) and Outlet (P2) ports should always have a T-Bracket fixation to eliminate product canterlever stress
- 'L' brackets should not be used in the use for rail service

For illustration purposes only

- High flow modular air-preparation series
- Space saving integral gauge (P31 size only)
- Manifold style regulators available
- OSHA compliant shut-off valves



Operating information

Working pressure :
- Plastic bowl: 10 bar max
- Metal bowl: 17 bar max

Working temperature :
- * Plastic bowl: -10°C to +52°C
- * Metal bowl: -10°C to +65.5°C

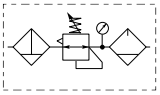
* Refer to Technical Catalogue for individual unit temperatures

Flow characteristics

40mm body width 1/4" Ported		60mm body width 1/4", 3/8", & 1/2" Ported		73mm body width 1/2" & 3/4" Ported	
Flow	**dm³/s**	**Flow**	**dm³/s**	**Flow**	**dm³/s**
Filter	12	Filter	39	Filter	40
Coalescing Filter	3,6	Coalescing Filter	17	Coalescing Filter	34
Regulator	32	Regulator	78	Regulator	111
Filter Regulator	35	Filter Regulator	64	Filter Regulator	108
Lubricator	19	Lubricator	42	Lubricator	71

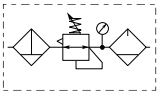
Popular Combinations - P31 Series

Filter + Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.



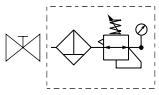
Port size	Flow dm³/s	Flow (scfm)	Manual Drain	Weight	Pulse Drain	Weight
1/4"	13	27	**P31CB12GEMNTLNW**	0.46 kg	**P31CB12GEBNTLNW**	0.46 kg

Filter/Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.



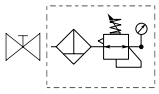
Port size	Flow dm³/s	Flow (scfm)	Manual Drain	Weight	Pulse Drain	Weight
1/4"	14	28	**P31CA12GEMNTLNW**	0.35 kg	**P31CA12GEBNTLNW**	0.35 kg

Ball Valve + Filter/Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.



Port size	Flow dm³/s	Flow (scfm)	Manual Drain	Weight	Pulse Drain	Weight
1/4"	14	28	**P31QA12GEMNTLNW**	0.54 kg	**P31QA12GEBNTLNW**	0.54 kg

Ball Valve + Filter/Regulator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.



Port size	Flow dm³/s	Flow (scfm)	Manual Drain	Weight	Pulse Drain	Weight
1/4"	14	28	**P31QN12GEMNTW**	0.4 kg	**P31QN12GEBNTW**	0.4 kg

P 3 1						E		N		L N	W

Combination	
Combination	C
Shut off + Combi [1]	Q

Thread type	
BSPP	1
NPT	9

Port size	
1/4	2

Drain type	
Manual drain	M
Pulse drain	B

Adjustment range	
With square gauge	
2 bar *	V
4 bar	S
8 bar **	T

Add only for options with Lubricator

Combination type	
F/R+L	A
F+R+L	B
F/R	N

Bowl type	
Poly bowl with bowl guard	G
Metal bowl without sight glass	M

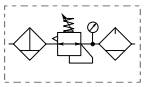
Note: All bowl types are the same for each component
Example: If a "G" is specified for a F+L, both units would get a poly bowl with bowl guard.

* Unit comes with 0-4 bar, gauge respectively

** Unit comes with 0-10 bar, gauge respectively

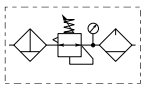
[1] Option not available with F+R+L

Popular Combinations - P32 Series



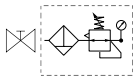
Filter + Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.

Port size	Flow dm³/s	Flow (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/4”	20	42	**P32CB12GEMNGLNW**	1.29 kg	**P32CB12GEANGLNW**	1.29 kg
3/8”	32	68	**P32CB13GEMNGLNW**	1.29 kg	**P32CB13GEANGLNW**	1.29 kg
1/2”	40	85	**P32CB14GEMNGLNW**	1.29 kg	**P32CB14GEANGLNW**	1.29 kg



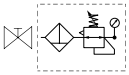
Filter/Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.

Port size	Flow dm³/s	Flow (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/4”	22	45	**P32CA12GEMNGLNW**	1.03 kg	**P32CA12GEANGLNW**	1.03 kg
3/8”	33	70	**P32CA13GEMNGLNW**	1.03 kg	**P32CA13GEANGLNW**	1.03 kg
1/2”	43	90	**P32CA14GEMNGLNW**	1.03 kg	**P32CA14GEANGLNW**	1.03 kg



Ball Valve + Filter/Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.

Port size	Flow dm³/s	Flow (scfm)	Manual Drain	Weight	Auto Drain	Weight
3/8”	33	70	**P32QA13GEMNGLNW**	1.5 kg	**P32QA13GEANGLNW**	1.5 kg
1/2”	43	90	**P32QA14GEMNGLNW**	1.5 kg	**P32QA14GEANGLNW**	1.5 kg



Ball Valve + Filter/Regulator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.

Port size	Flow dm³/s	Flow (scfm)	Manual Drain	Weight	Auto Drain	Weight
3/8”	33	70	**P32QN13GEMNGW**	1.1 kg	**P32QN13GEANGW**	1.1 kg
1/2”	43	90	**P32QN14GEMNGW**	1.1 kg	**P32QN14GEANGW**	1.1 kg

P 3 2 [ ] [ ] [ ] [ ] [ ] **E** [ ] **N** [ ] **L N** **W**

Combination	
Combination	**C**
Shut off + Combination [1]	**Q**

[1] Option not available with F+R+L and 1/4” port size (2)

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

Port size	
1/4	**2**
3/8	**3**
1/2	**4**

Drain type	
Auto drain	**A**
Manual drain	**M**

Adjustment range With round gauge	
0-2 bar; 0-30 psi; 0.2 MPa	**Z**
4 bar; 60 psi; 0.4 MPa	**M**
8 bar; 125 psi; 0.8 MPa	**G**

Add only for options with Lubricator

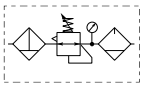
Combination type	
F/R+L	**A**
F+R+L	**B**
F/R	**N**

Bowl type	
Poly bowl with bowl guard	**G**
Metal bowl with sight glass	**S**

Note: All bowl types are the same for each component

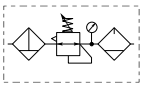
Example: If a “G” is specified for a F+L, both units would get a poly bowl with bowl guard.

Popular Combinations - P33 Series



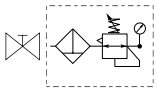
Filter + Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.

Port size	Flow dm³/s	Flow (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/2”	43	90	**P33CB14GEMNGLNW**	1.84 kg (4.06 lbs)	**P33CB14GEANGLNW**	1.84 kg (4.06 lbs)
3/4”	52	110	**P33CB16GEMNGLNW**	1.84 kg (4.06 lbs)	**P33CB16GEANGLNW**	1.84 kg (4.06 lbs)



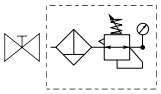
Filter/Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.

Port size	Flow dm³/s	Flow (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/2”	52	110	**P33CA14GEMNGLNW**	1.51 kg (3.33 lbs)	**P33CA14GEANGLNW**	1.51 kg (3.33 lbs)
3/4”	71	150	**P33CA16GEMNGLNW**	1.51 kg (3.33 lbs)	**P33CA16GEANGLNW**	1.51 kg (3.33 lbs)



Ball Valve + Filter/Regulator + Lubricator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.

Port size	Flow dm³/s	Flow (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/2”	52	110	**P33QA14GEMNGLNW**	2.35 kg (5.2 lbs)	**P33QA14GEANGLNW**	2.35 kg (5.2 lbs)
3/4”	71	150	**P33QA16GEMNGLNW**	2.35 kg (5.2 lbs)	**P33QA16GEANGLNW**	2.35 kg (5.2 lbs)



Ball Valve + Filter/Regulator Combinations + Poly bowl
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets
Inlet pressure 10 bar, Secondary pressure 6.3 bar, 1 bar pressure drop.

Port size	Flow dm³/s	Flow (scfm)	Manual Drain	Weight	Auto Drain	Weight
1/2”	52	110	**P33QN14GEMNGW**	1.7 kg (3.75 lbs)	**P33QN14GEANGW**	1.7 kg (3.75 lbs)
3/4”	71	150	**P33QN16GEMNGW**	1.7 kg (3.75 lbs)	**P33QN16GEANGW**	1.7 kg (3.75 lbs)

P33					E		N		LN	W

Combination	
Combination	C
Shut off + Combination [1]	Q

[1] Option not available with F+R+L

Thread type	
BSPP	1
NPT	9

Port size	
1/2	4
3/4	6

Drain type	
Auto drain	A
Manual drain	M

Adjustment range	
With round gauge	
0-2 bar; 0-30 psi; 0.2 MPa	Z
4 bar; 60 psi; 0.4 MPa	M
8 bar; 125 psi; 0.8 MPa	G

Add only for options with Lubricator

Combination type	
F/R+L	A
F+R+L	B
F/R	N

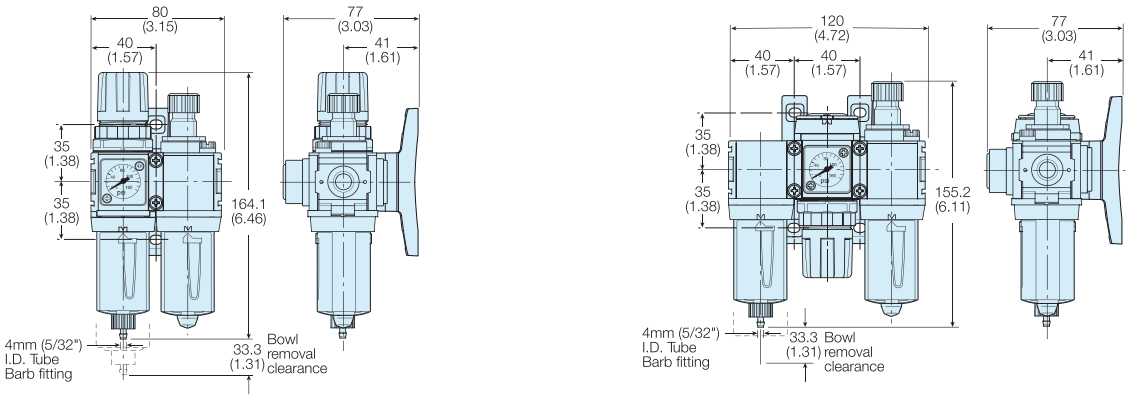
Bowl type	
Poly bowl with bowl guard	G
Metal bowl with sight glass	S

Note: All bowl types are the same for each component

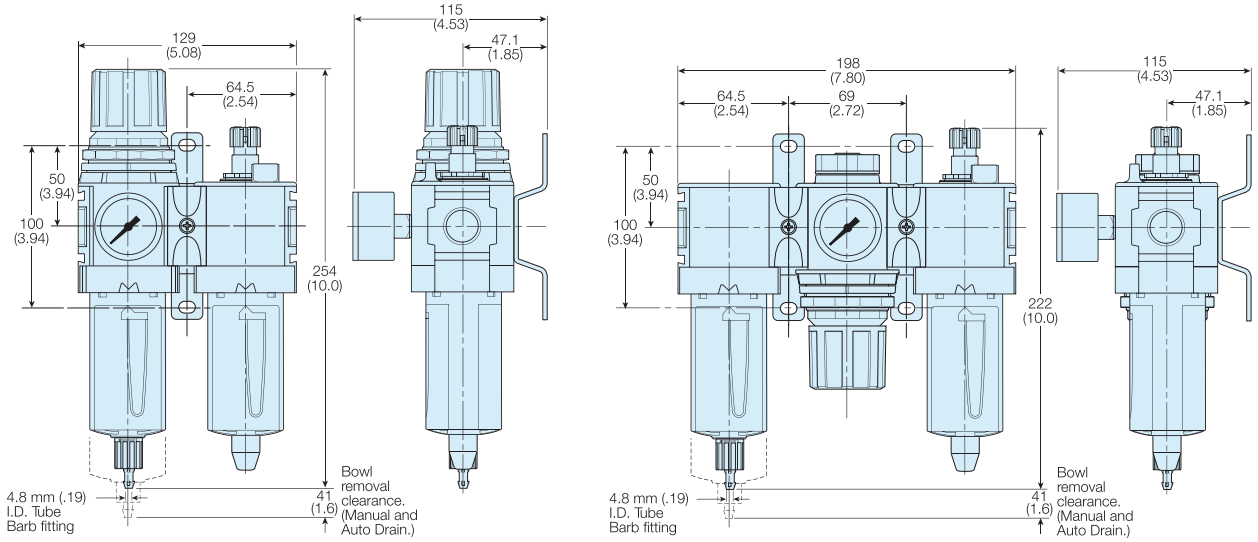
Example: If a “G” is specified for a F+L, both units would get a poly bowl with bowl guard.

Popular Combination Dimensions - mm (inches)

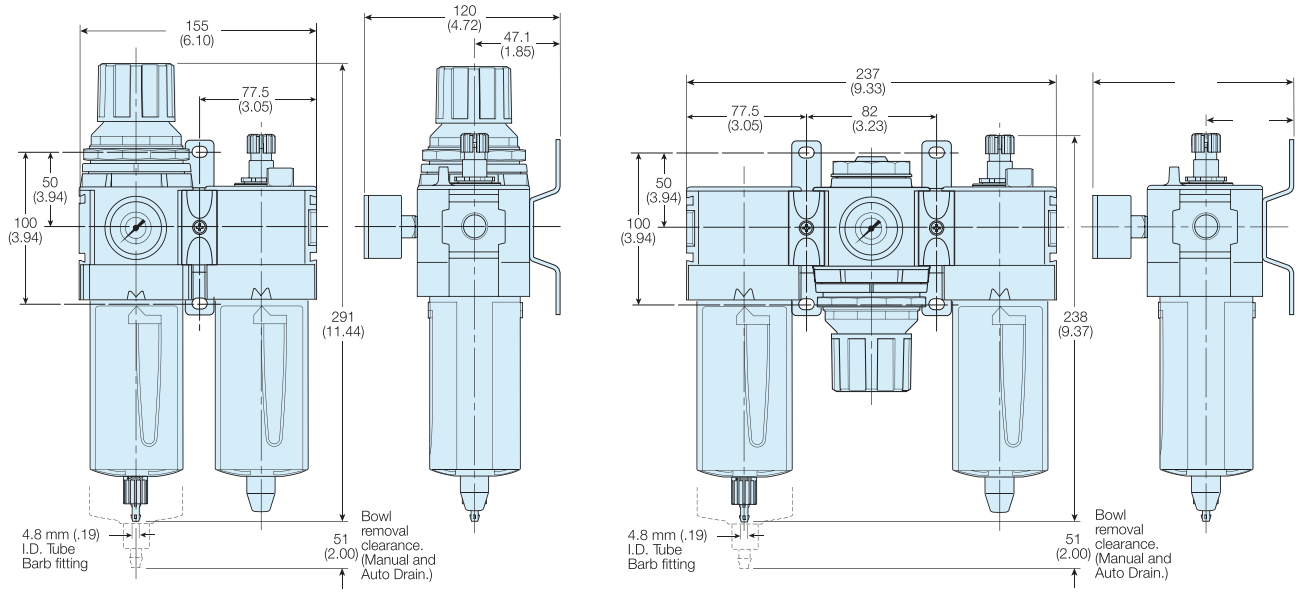
P31



P32



P33



Filters - 5 µm

Port	Description	Order code
1/4”	Poly bowl - Manual drain	**P31FB12EGMN**
1/4”	Poly bowl - Pulse drain	**P31FB12EGBN**
1/4”	Metal bowl - Manual drain	**P31FB12EMMN**
1/4”	Metal bowl - Pulse drain	**P31FB12EMBN**
1/4	Poly bowl - Manual drain	**P32FB12EGMN**
1/4	Poly bowl - Auto drain	**P32FB12EGAN**
1/4	Metal bowl sight glass - Manual drain	**P32FB12ESMN**
1/4	Metal bowl sight glass - Auto drain	**P32FB12ESAN**
3/8	Poly bowl - Manual drain	**P32FB13EGMN**
3/8	Poly bowl - Auto drain	**P32FB13EGAN**
3/8	Metal bowl sight glass - Manual drain	**P32FB13ESMN**
3/8	Metal bowl sight glass - Auto drain	**P32FB13ESAN**
1/2	Poly bowl - Manual drain	**P32FB14EGMN**
1/2	Poly bowl - Auto drain	**P32FB14EGAN**
1/2	Metal bowl sight glass - Manual drain	**P32FB14ESMN**
1/2	Metal bowl sight glass - Auto drain	**P32FB14ESAN**
1/2”	Poly bowl - Manual drain	**P33FA14EGMN**
1/2”	Poly bowl - Auto drain	**P33FA14EGAN**
1/2”	Metal bowl sight glass - Manual drain	**P33FA14ESMN**
1/2”	Metal bowl sight glass - Auto drain	**P33FA14ESAN**
3/4”	Poly bowl - Manual drain	**P33FA16EGMN**
3/4”	Poly bowl - Auto drain	**P33FA16EGAN**
3/4”	Metal bowl sight glass - Manual drain	**P33FA16ESMN**
3/4”	Metal bowl sight glass - Auto drain	**P33FA16ESAN**

Regulators

Port	Description	Order code
1/4”	8 bar relieving	**P31RB12BNNP**
1/4”	8 bar relieving + gauge	**P31RB12BNTP**
1/4”	8 bar (125 psi) Relieving	**P32RB12BNNP**
1/4”	8 bar (125 psi) Relieving + Gauge	**P32RB12BNGP**
3/8”	8 bar (125 psi) Relieving	**P32RB13BNNP**
3/8”	8 bar (125 psi) Relieving + Gauge	**P32RB13BNGP**
1/2”	8 bar (125 psi) Relieving	**P32RB14BNNP**
1/2”	8 bar (125 psi) Relieving + Gauge	**P32RB14BNGP**
1/2”	8 bar (125 psi) Relieving	**P33RA14BNNP**
1/2”	8 bar (125 psi) Relieving + Gauge	**P33RA14BNGP**
3/4”	8 bar (125 psi) Relieving	**P33RA16BNNP**
3/4”	8 bar (125 psi) Relieving + Gauge	**P33RA16BNGP**

Coalescing Filters + Absorbers - 0,01 µm

Port	Description	Order code
1/4”	Poly bowl - 0.01 µ - Manual drain	**P31FB12DGMN**
1/4”	Poly bowl - 0.01 µ - Pulse drain	**P31FB12DGBN**
1/4”	Metal bowl - 0.01 µ - Manual drain	**P31FB12DMMN**
1/4”	Metal bowl - 0.01 µ - Pulse drain	**P31FB12DMBN**
1/4”	Poly bowl - Adsorber	**P31FB12AGMN**
1/4”	Metal bowl - Adsorber	**P31FB12AMMN**
1/4”	Poly bowl - 0.01 µ, Manual drain	**P32FB12DGMN**
1/4”	Poly bowl - 0.01 µ, Auto drain	**P32FB12DGAN**
1/4”	Metal bowl sight glass - 0.01 µ, Man. drain	**P32FB12DSMN**
1/4”	Metal bowl sight glass - 0.01 µ, Auto drain	**P32FB12DSAN**
3/8”	Poly bowl - 0.01 µ, Manual drain	**P32FB13DGMN**
3/8”	Poly bowl - 0.01 µ, Auto drain	**P32FB13DGAN**
3/8”	Metal bowl sight glass - 0.01 µ, Man. drain	**P32FB13DSMN**
3/8”	Metal bowl sight glass - 0.01 µ, Auto drain	**P32FB13DSAN**
1/2”	Poly bowl - 0.01 µ, Manual drain	**P32FB14DGMN**
1/2”	Poly bowl - 0.01 µ, Auto drain	**P32FB14DGAN**
1/2”	Metal bowl sight glass - 0.01 µ, Man. drain	**P32FB14DSMN**
1/2”	Metal bowl sight glass - 0.01 µ, Auto drain	**P32FB14DSAN**
1/4”	Poly bowl - Adsorber	**P32FB12AGMN**
1/4”	Metal bowl sight glass - Adsorber	**P32FB12ASMN**
3/8”	Poly bowl - Adsorber	**P32FB13AGMN**
3/8”	Metal bowl sight glass - Adsorber	**P32FB13ASMN**
1/2”	Poly bowl - Adsorber	**P32FB14AGMN**
1/2”	Metal bowl sight glass - Adsorber	**P32FB14ASMN**
1/2”	Poly bowl - 0.01 µ, Manual drain	**P33FA14DGMN**
1/2”	Poly bowl - 0.01 µ, Auto drain	**P33FA14DGAN**
1/2”	Metal bowl sight glass - 0.01 µ, Man. drain	**P33FA14DSMN**
1/2”	Metal bowl sight glass - 0.01 µ, Auto drain	**P33FA14DSAN**
3/4”	Poly bowl - 0.01 µ, Manual drain	**P33FA16DGMN**
3/4”	Poly bowl - 0.01 µ, Auto drain	**P33FA16DGAN**
3/4”	Metal bowl sight glass - 0.01 µ, Man. drain	**P33FA16DSMN**
3/4”	Metal bowl sight glass - 0.01 µ, Auto drain	**P33FA16DSAN**
1/2”	Poly bowl - Adsorber	**P33FA14AGMN**
1/2”	Metal bowl sight glass - Adsorber	**P33FA14ASMN**
3/4”	Poly bowl - Adsorber	**P33FA16AGMN**
3/4”	Metal bowl sight glass - Adsorber	**P33FA16ASMN**

Filter Regulators - (P31) pressures 2 & 4 bar (P32/P33) pressures 2,4 & 17 bar available.

Port	Description	Order code
1/4”	8 bar (125 psi) Relieving - Poly bowl - Manual drain	**P31EB12EGMBNTP**
1/4”	8 bar (125 psi) Relieving - Poly bowl - Pulse drain	**P31EB12EGBBNTP**
1/4”	8 bar (125 psi) Relieving - Metal bowl - Manual drain	**P31EB12EMMBNTP**
1/4”	8 bar (125 psi) Relieving - Metal bowl - Pulse drain	**P31EB12EMBBNTP**
1/4”	8 bar (125 psi) Relieving - Poly bowl - Manual drain	**P32EB12EGMBNGP**
1/4”	8 bar (125 psi) Relieving - Poly bowl - Auto drain	**P32EB12EGABNGP**
1/4”	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	**P32EB12ESMBNGP**
1/4”	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	**P32EB12ESABNGP**
3/8”	8 bar (125 psi) Relieving - Poly bowl - Manual drain	**P32EB13EGMBNGP**
3/8”	8 bar (125 psi) Relieving - Poly bowl - Auto drain	**P32EB13EGABNGP**
3/8”	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	**P32EB13ESMBNGP**
3/8”	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	**P32EB13ESABNGP**
1/2”	8 bar (125 psi) Relieving - Poly bowl - Manual drain	**P32EB14EGMBNGP**
1/2”	8 bar (125 psi) Relieving - Poly bowl - Auto drain	**P32EB14EGABNGP**
1/2”	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	**P32EB14ESMBNGP**
1/2”	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	**P32EB14ESABNGP**
1/2”	8 bar (125 psi) Relieving - Poly bowl - Manual drain	**P33EA14EGMBNGP**
1/2”	8 bar (125 psi) Relieving - Poly bowl - Auto drain	**P33EA14EGABNGP**
1/2”	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	**P33EA14ESMBNGP**
1/2”	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	**P33EA14ESABNGP**
3/4”	8 bar (125 psi) Relieving - Poly bowl - Manual drain	**P33EA16EGMBNGP**
3/4”	8 bar (125 psi) Relieving - Poly bowl - Auto drain	**P33EA16EGABNGP**
3/4”	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	**P33EA16ESMBNGP**
3/4”	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	**P33EA16ESABNGP**

Lubricators

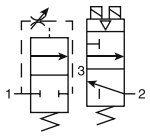
Port	Description	Order code
1/4”	Poly bowl - No drain	**P31LB12LGNN**
1/4”	Metal bowl - No drain	**P31LB12LMNN**
1/4”	Poly bowl - No drain	**P32LB12LGNN**
1/4”	Metal bowl - No drain	**P32LB12LSNN**
3/8”	Poly bowl - No drain	**P32LB13LGNN**
3/8”	Metal bowl - No drain	**P32LB13LSNN**
1/2”	Poly bowl - No drain	**P32LB14LGNN**
1/2”	Metal bowl - No drain	**P32LB14LSNN**
1/2”	Poly bowl - No drain	**P33LA14LGNN**
1/2”	Metal bowl - No drain	**P33LA14LSNN**
3/4”	Poly bowl - No drain	**P33LA16LGNN**
3/4”	Metal bowl - No drain	**P33LA16LSNN**

Gauges

Port	Description			Order code
P31	Square Flush Mounting Gauge Kit	0-4 bar 0-11 bar		**K4511SCR04B** **K4511SCR11B**
P31	40mm Round Gauge	0-30 psi / 0-2 bar 0-60 psi / 0-4.1 bar 0-160 psi / 0-10 bar	1/8” 1/8” 1/8”	**P3D-KAB1AYN** **P3D-KAB1ALN** **P3D-KAB1ANN**
P32 / P33	40mm Round Gauge	0-60 psi / 0-4.1 bar 0-160 psi / 0-10 bar 0-300 psi / 0-20 bar	1/4” 1/4” 1/4”	**P6G-ERB2040** **P6G-ERB2110** **P6G-ERB2200**

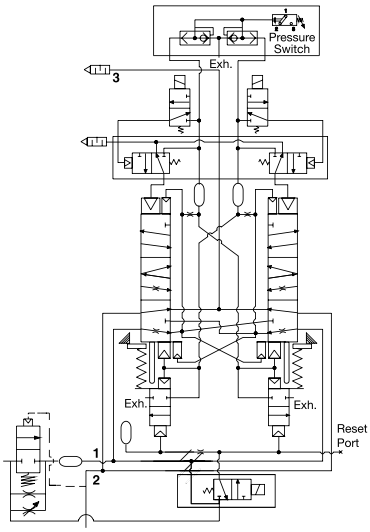
Redundant Safety Exhaust Valve

Symbol



- Proven control reliable technology with integrated soft start
- Soft start application of air to the system when energized; can be adjusted for slower or faster buildup of system pressure
- Rapid exhaust of downstream air when de-energized to remove stored energy and allow safe access
- Memory, monitoring, and air flow control functions are integrated into two identical valve elements. Valves lock-out if asynchronous movement of valve elements occurs during actuation or de-actuation, resulting in a residual outlet pressure of less than 1% of supply.
- Reset can only be accomplished by the integrated electrical (solenoid) reset. Cannot be reset by removing and re-applying supply pressure.
- Basic 3/2 normally closed valve function: Dirt tolerant, wear compensating poppet design for quick response and high flow capacity.
- LED indicators of main solenoid operation, reset solenoid operation, and status indicator condition.
- Optional transducer for monitoring of downstream pressure in the system.
- Dual exhaust silencers included.
- Not for use with clutch / brake applications.
- For use in conjunction with a safety relay or safety PLC.

P33T Schematic



Options:

P33TA [ ] **6** **R** **G** **4** [ ] **2CN**

Body size	
Standard	**P33T**

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

Port size	
3/4"	**6**

Type	
Solenoid pilot + gauge	**R**

Operator	
15mm Solenoid	**G**

Mounting	
Cat 4 w/ bracket	**4**

Solenoid	
Dual M12 connector without transducer	**F**
Triple M12 connector with transducer	**G**

Voltage	
24VDC with manual override	**2CN**

Port size			Cv		Height	Width	Depth	Weight	
Inlet	Outlet	Transducer	1 to 2	2 to 3	mm (inches)	mm (inches)	mm (inches)	kg (lb)	Part number*
3/4	3/4	w/o transducer	3.7	8.5	273.8 (10.78)	136.0 (5.35)	147.6 (581)	7.3 (16.1)	**P33TA16RG4F2CN**
3/4	3/4	w/ transducer	3.7	8.5	273.8 (10.78)	136.0 (5.35)	147.6 (581)	7.4 (16.3)	**P33TA16RG4G2CN**

* BSPP port threads. For NPT threads, replace "1" in the part number with a "9".

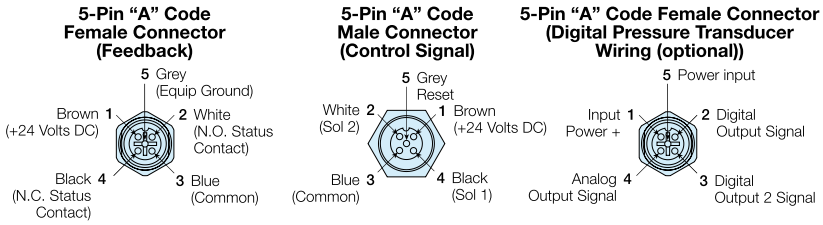
Technical Information

Pilot Solenoids:	According to VDE 0580
Enclosure rating:	According to DIN 400 50 IP65
Connector socket:	According to DIN 43650 Form A
	Three solenoids, rated for continuous duty
Standard voltages:	24VDC
Power consumption (each solenoid): for primary and reset solenoids:	1.2 Watts on DC
Enclosure rating:	IP65, IEC 60529
Electrical connection:	M12, 5-pin
Ambient temperature:	15°F to 122°F (-10°C to 50°C)
Media temperature:	40°F to 175°F (4°C to 80°C)
Flow media:	Compressed Air, Filtered to Minimum 40 Micron
Inlet pressure:	30 to 150 PSIG (2 to 10 bar)
Pressure switch rating (Status indicator):	5 Amps at 30 Volts DC.
Monitoring:	Dynamically, cyclically, internally during each actuating and de-actuating movement. Monitoring function has memory and requires an overt act to reset unit after lockout.
Mounting orientation:	Vertically with pilot solenoids on top
Port threads:	3/4 NPT, 3/4 BSPP
Control reliable:	Category 4 (Cat 4); performance Level e (PLe) in accordance with Machine directive - EN ISO 13849-1 (Certification pending)

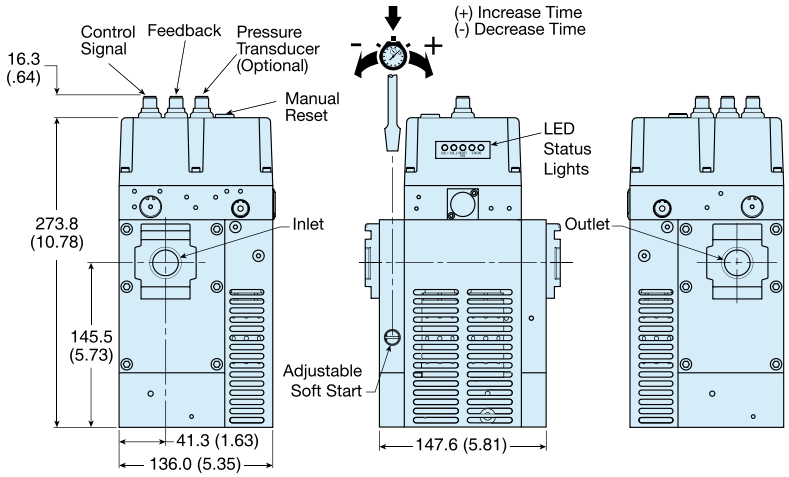
Repair and Service Kits

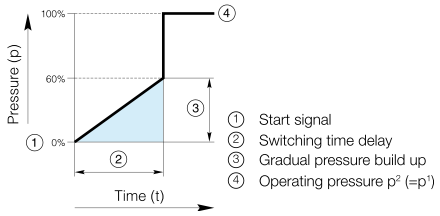
Description	Part number
Black grill	**1834C05-001**
Body connector	**P32KA00CB**
Cables	
M12, 5-pin female to flying lead cable, TPE; 2 m (6.6 ft)	**RKC 4.5T-2/S1587**
M12, 5-pin male to flying lead cable, TPE; 2 m (6.6 ft)	**RSC 4.5T-2/S1587**
Port block kit	
1/2 NPT	**P32KA94CP**
3/4 NPT	**P32KA96CP**
1/2 BSPP	**P32KA14CP**
3/4 BSPP	**P32KA16CP**
Pressure switch	**1227A30-001**
Pressure transducer (Optional)	**1232H30-001**
T-bracket w/ body connector	**P32KA00MT**
T-bracket (Fits to body connector or port block)	**P32KA00MB**
Silencer(s) 3/4"	**5500A5013**
Solenoid (Main & reset)	**1527B7916-001**
Square flush mounting gauge kit, 0-160 psig	**K4511SCR160**

Valve Wiring

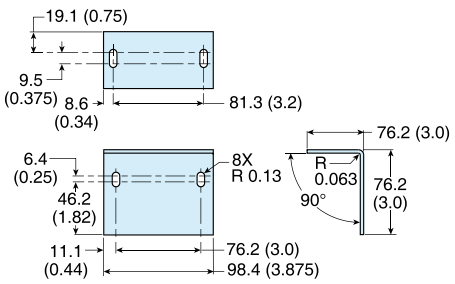


Dimensions mm (inches)





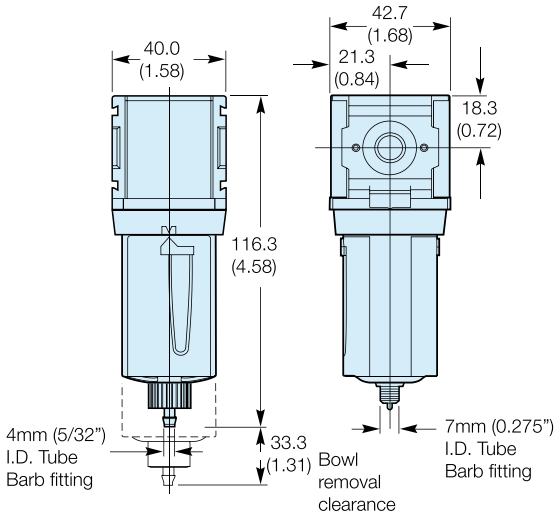
Angle Mounting Bracket



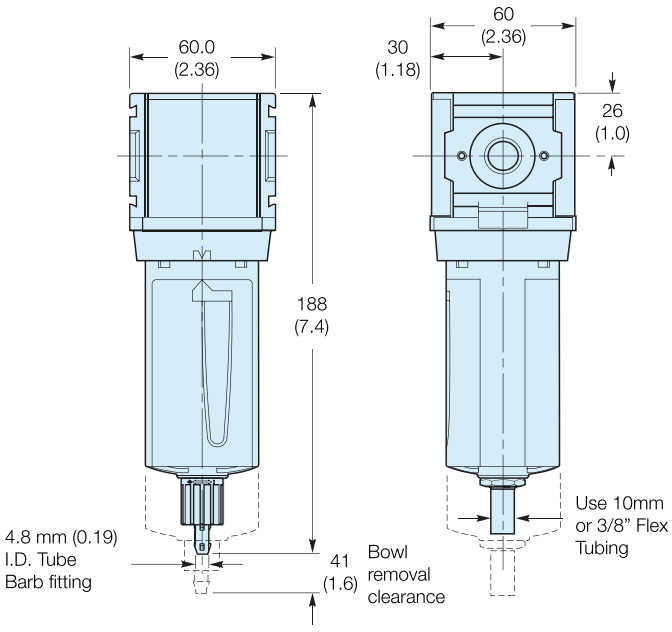
Note: Mounting bracket and installation screws included and required to install unit in the system.

Filter Dimensions - mm (inches)

P31

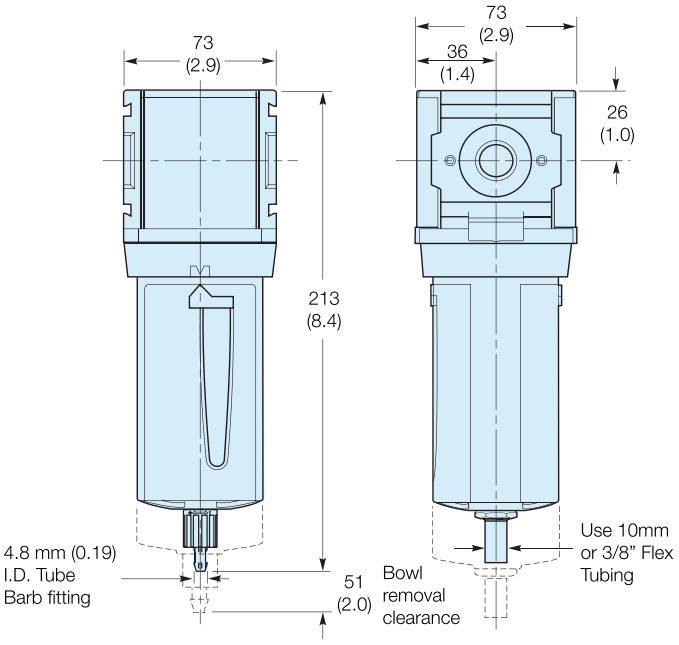


P32



Manual Drain **Automatic Drain**

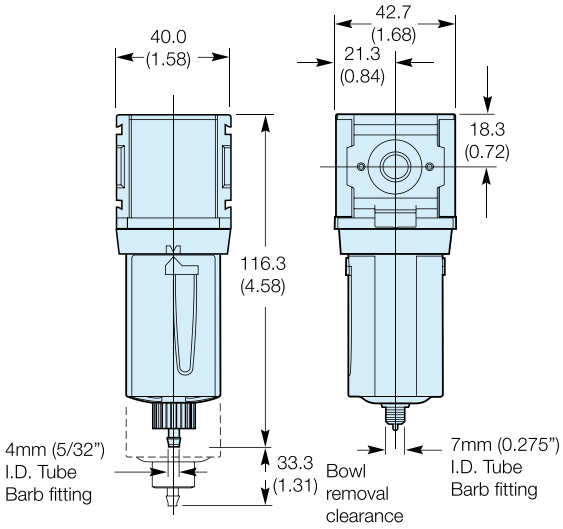
P33



Manual Drain **Automatic Drain**

Coalescing / Adsorber Filter Dimensions - mm (inches)

P31



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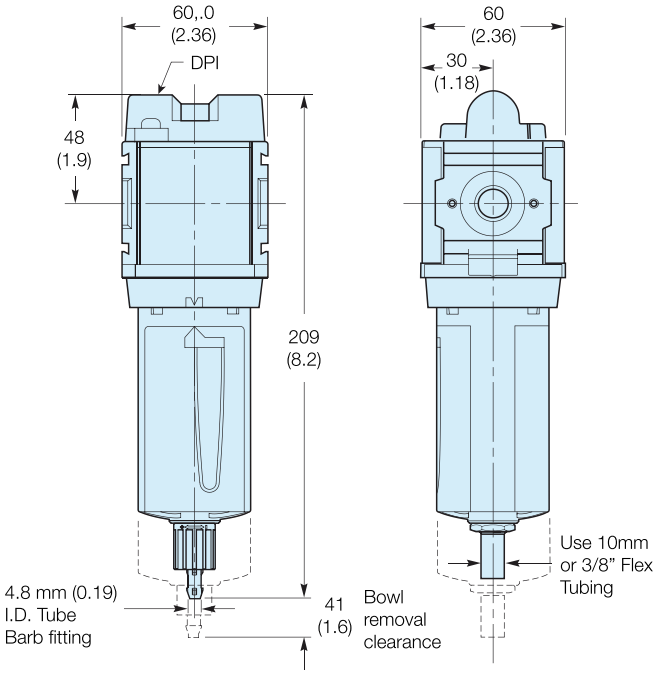
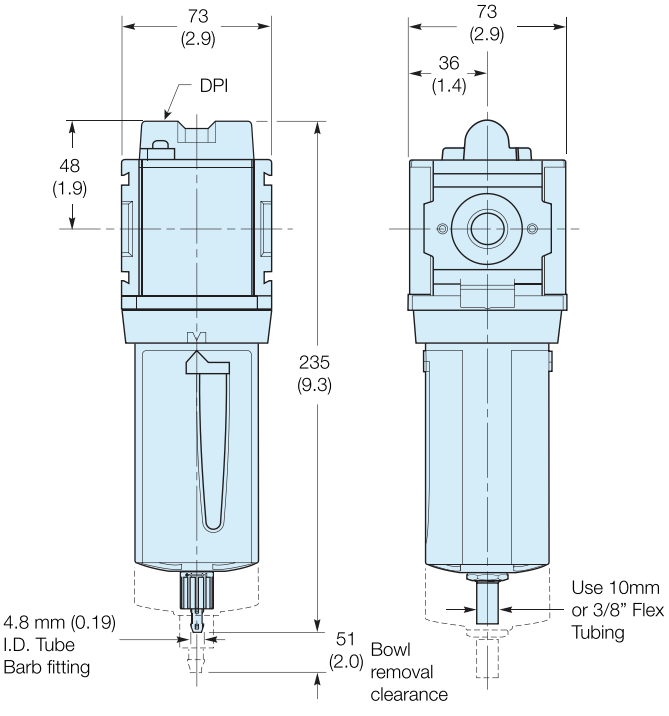


Manual Drain **Automatic Drain**

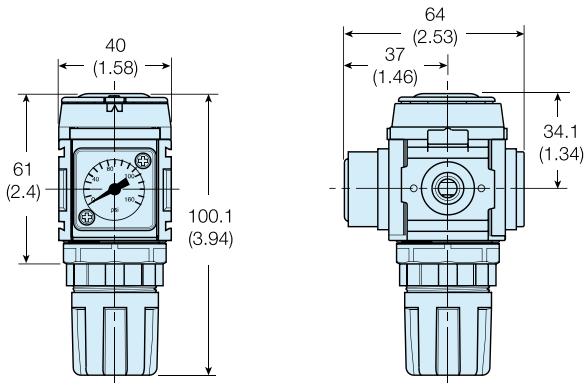
P33



Manual Drain **Automatic Drain**

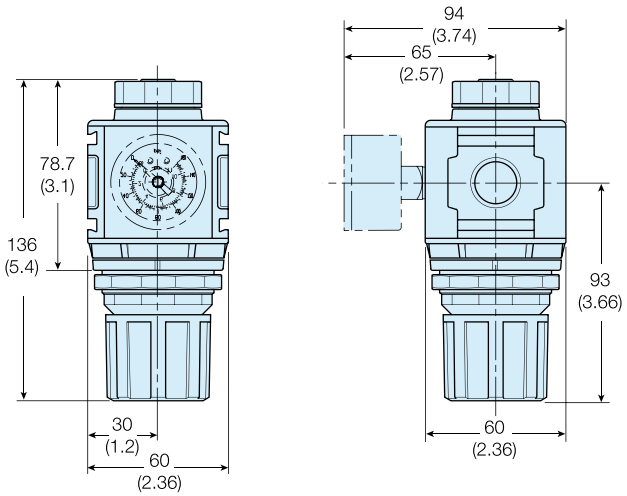
Regulator Dimensions - mm (inches)

P31



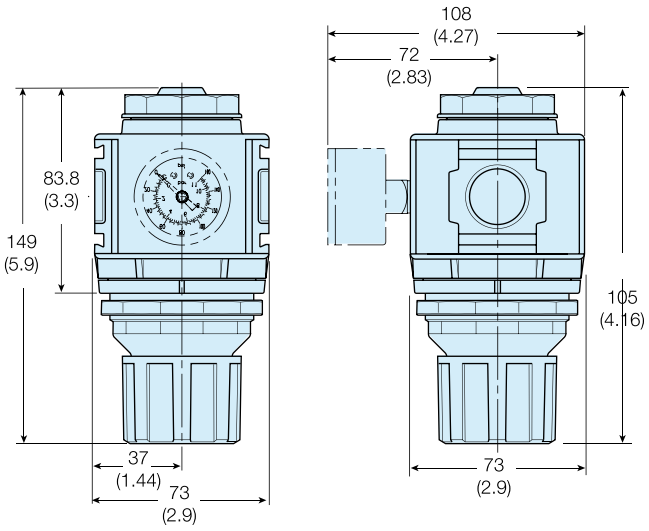
NOTE: Ø 30 mm hole required for panel nut mounting.

P32



NOTE: Ø 47 mm hole required for panel nut mounting.

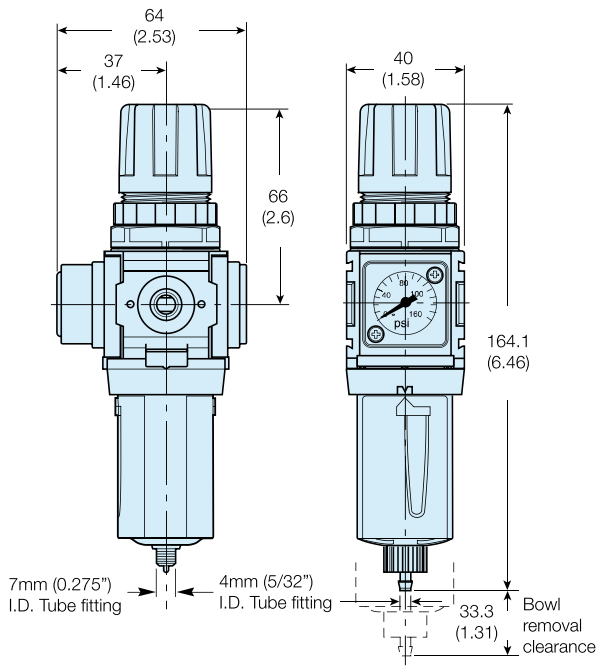
P33



NOTE: Ø 60 mm hole required for panel nut mounting.

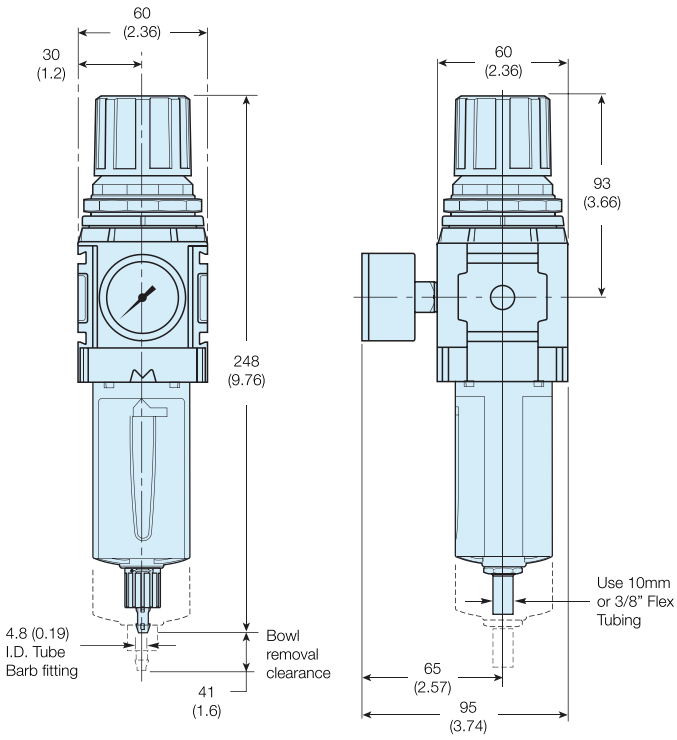
Filter Regulator Dimensions - mm (inches)

P31



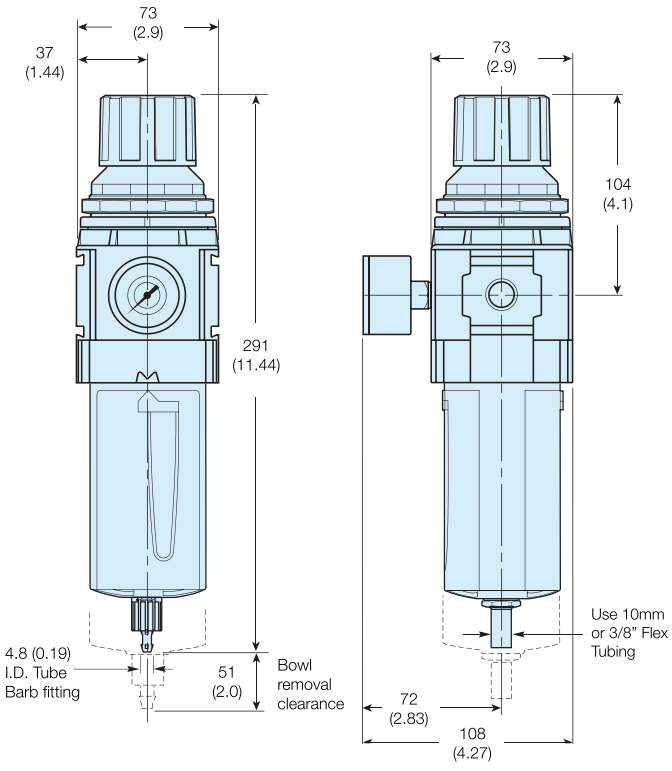
Note:
Flush-mounted gauge kits will not fit units originally purchased with threaded gauge ports.

P32



Manual Drain **Automatic Drain**

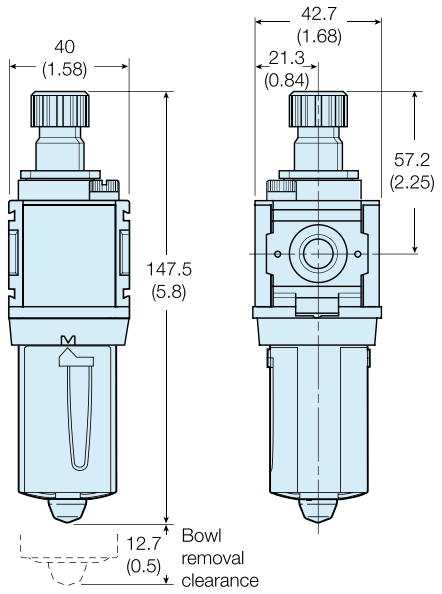
P33



Manual Drain **Automatic Drain**

Lubricator Dimensions - mm (inches)

P31



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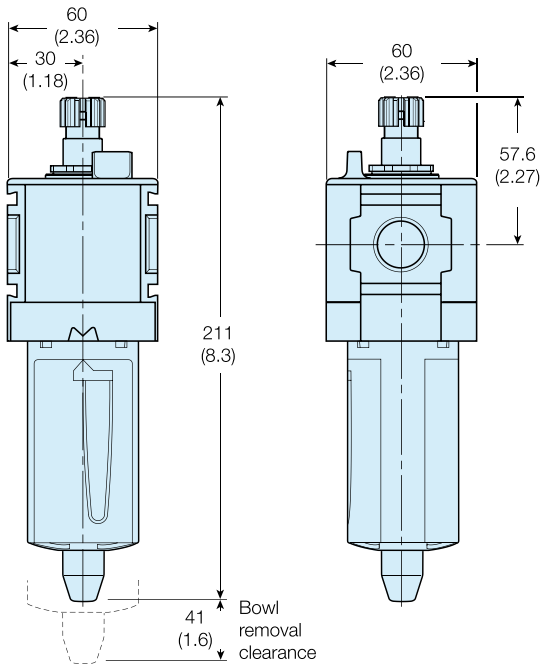

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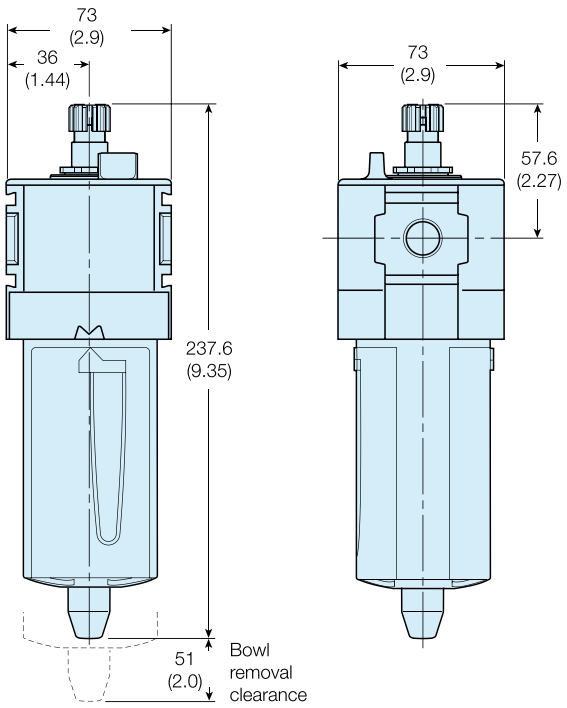
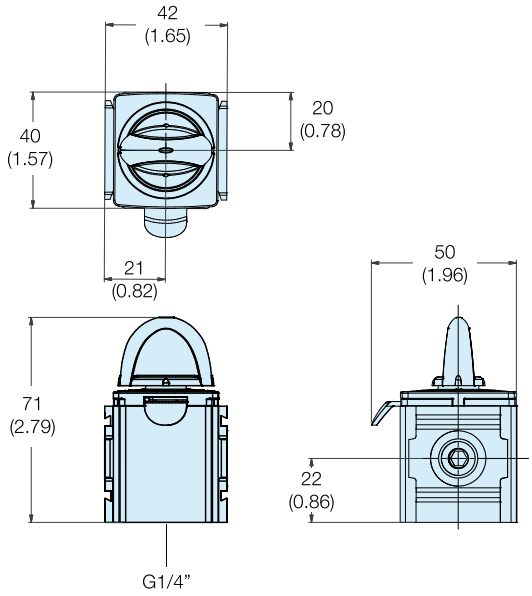
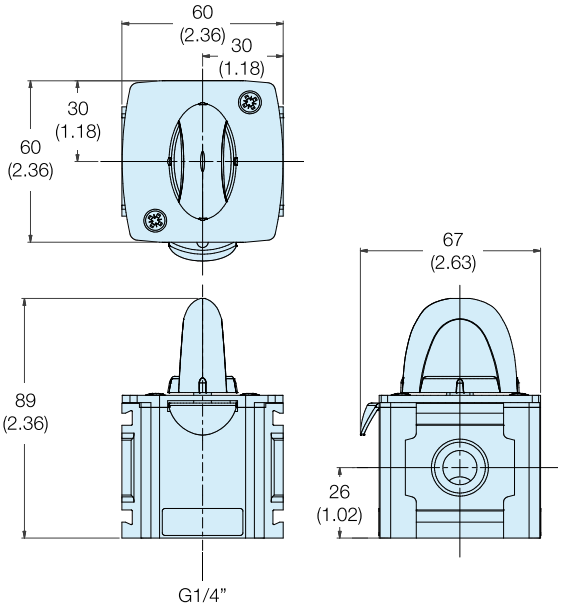


Modular Ball Valve Dimensions - mm (inches)

P31



P32



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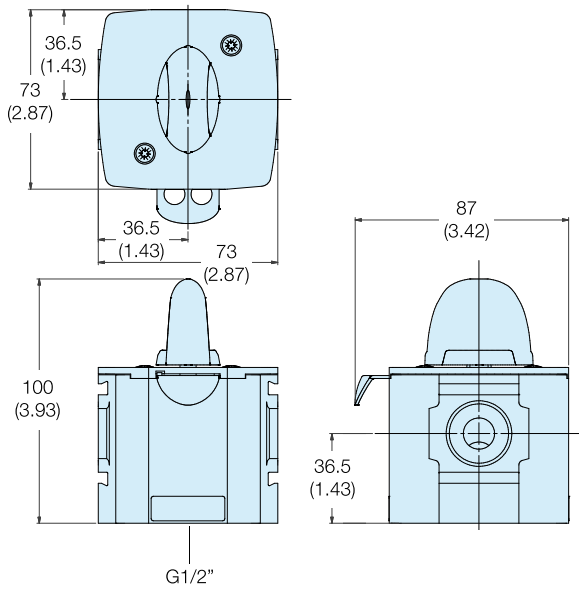
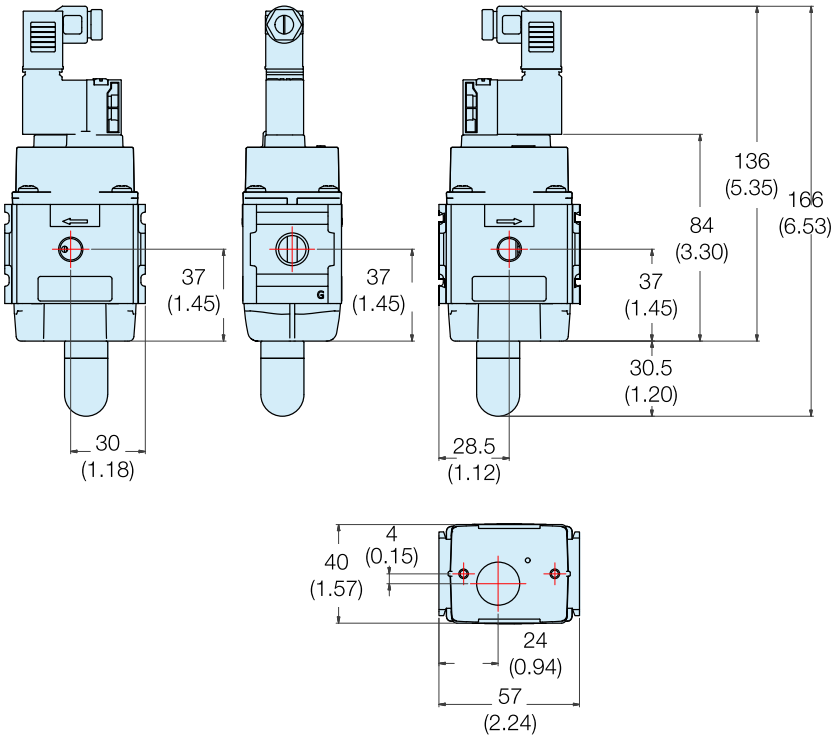
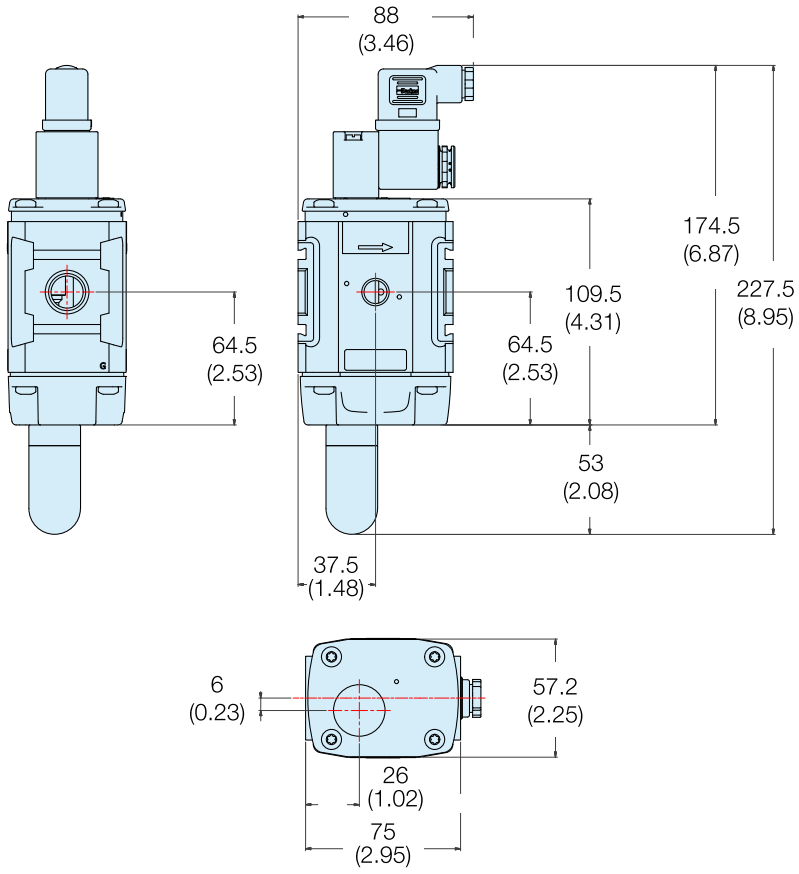


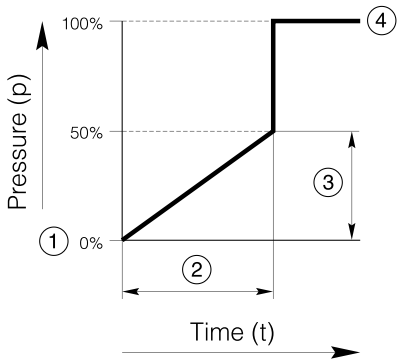
Combined Soft Start Dump Valve and Remote Operated Dump Valve Dimensions - mm (inches)

P31



P32





① Start signal
② Switching time delay
③ Gradual pressure build up
④ Operating pressure p^2 (=p^1)

Combined Soft Start Dump Valve and Remote Operated Dump Valve

Port	Description	Order code
1/4	Solenoid operated (not included)	**P31TA12SGN0000**
1/4	24VDC Solenoid & cable plug	**P31TA12SGNC2CN**
1/4	Air pilot operated	**P31TA12PPN**
1/2	Solenoid operated (not included)	**P32TA14SCN0000**
1/2	24VDC 30mm coil & cable plug incl.	**P32TA14SCNA2CN**
1/2	Air pilot operated	**P32TA14PPN**
1/2	Solenoid operated (not included) Category 2 - Machine Directive Valve Contact - Sales Office for further details.	**P32TA14SC20000**

Modular Ball Valve / Lockout Valve

Model type	Port size	Thread type	Flow dm^3/s (scfm)	Modular Ball Valve Flow from left to right
P31	1/4"	BSPP	20 (42.4)	**P31VB12LBNN**
P32	3/8"	BSPP	90 (190.7)	**P32VB13LBNN**
	1/2"	BSPP	122 (258.5)	**P32VB14LBNN**
P33	1/2"	BSPP	122 (258.5)	**P33VB14LBNN**
	3/4"	BSPP	122 (258.5)	**P33VB16LBNN**

For thread type: BSPP **1**
NPT **9**

Soft Start Valve

Port	Description	Order code
1/4	Solenoid operated (not included)	**P31SA12SGN0000**
1/4	24VDC Solenoid & cable plug	**P31SA12SGNC2CN**
1/4	External air pilot (1/8 threaded)	**P31SA12PPN**
1/2	Solenoid operated (not included)	**P32SA14SCN0000**
1/2	24VDC 30mm coil & cable plug	**P32SA14SCNA2CN**
1/2	Internal air pilot operated	**P32SA14Y0N**
1/2	External air pilot (1/8 threaded)	**P32SA14PPN**

Manifold Blocks

Model Type	In / Out Port Size	Auxiliary Port Size Top	Auxilliary Port Size Bottom	Thread Type	Order Code
P31	1/4"	1/4"	1/4"	BSPP	**P31MA12022N**
P32	1/2"	1/4"	1/2"	BSPP	**P32MA14024N**
P33	3/4"	1/4"	1/2"	BSPP	**P33MA16024N**

For thread type: BSPP **1**
NPT **9**

Remote Operated Dump Valve

Port	Description	Order code
1/4	Solenoid operated (not included)	**P31DA12SGN0000**
1/4	24VDC Solenoid & cable plug	**P31DA12SGNC2CN**
1/4	Air pilot operated	**P31DA12PPN**
1/2	Solenoid operated (not included)	**P32DA14SCN0000**
1/2	24VDC 30mm coil & cable plug incl.	**P32DA14SCNA2CN**
1/2	Air pilot operated	**P32DA14PPN**
1/2	Solenoid operated (not included) Category 2 - Machine Directive Valve Contact - Sales Office for further details.	**P32DA14SC20000**

Branch Manifold

P32	1/2"	1/4"	1/4"	BSPP	**P32MD14022N**
P32	1/4"	1/4"	1/4"	BSPP	**P32MD12022N**

C-Bracket
(Fits to filter and lubricator body)

P31	
P31KA00MW	

T-Bracket
(Fits to body connector or port block)

	P32	**P33**
	P32KA00MB	**P32KA00MB**

T-Bracket w / Body Connector

P31	**P32**	**P33**
P31KA00MT	**P32KA00MT**	**P32KA00MT**

L-Bracket
(Fits to filter and lubricator body)

	P32	**P33**
	P32KA00ML	**P33KA00ML**

Angle Bracket
(Fits to regulator and filter/regulator)

P31	**P32**	**P33**
P31KB00MR	**P32KB00MR**	**P33KA00MR**

Panel mounting nut
(Aluminium)

P31	**P32**	**P33**
P31KA00MM	**P32KA00MM**	**P33KA00MM**

Body Connector 'O' ring kit -
Pack of 5

P31	**P32**
P31KA00CY	**P32KA00CY**

Body Connector

P31	**P32**	**P33**
P31KA00CB	**P32KA00CB**	**P32KA00CB**

Accessories Kits

Series	Description	Order Code	
P31 P32 P33	Panel Mount Nut (Plastic)	**P31KA00MP** **P32KA00MP** **P33KA00MP**	
P31 P32 P33	Panel Mount Nut (Aluminium)	**P31KA00MM** **P32KA00MM** **P33KA00MM**	
P31 P32 P33	5µ Element Kit	**P31KA00ESE** **P32KA00ESE** **P33KA00ESE**	
P31 P32 P33	40µ Element Kit	**P31KA00ESG** **P32KA00ESG** **P33KA00ESG**	
P31 P32 P33	1µ Element Kit	**P31KA00ES9** **P32KA00ES9** **P33KA00ES9**	
P31 P32 P33	0.01µ Element Kit	**P31KA00ESC** **P32KA00ESC** **P33KA00ESC**	
P31 P32 P33	Adsorber Element Kit	**P31KA00ESA** **P32KA00ESA** **P33KA00ESA**	
P32 / P33	Auto Drain Kit	**P32KA00DA**	
P31 P32 / P33	Differential Pressure Indicator Kit	**P31KB00RQ** **P32KA00RQ**	
P31 P32 / P33	Fill Plug Kit	**P31KA00PL** **P32KA00PL**	
P31 / P32 / P33	Drip Control Assembly Kit	**P32KA00PG**	

Accessories Kits

Series	Description	Order Code	
P31 P32 P33	Plastic Bowl with Bowl Guard & Manual Drain	**P31KB00BGM** **P32KB00BGM** **P33KA00BGM**	
P31	Plastic Bowl with Bowl Guard & Pulse Drain	**P31KB00BGB**	
P32 P33	Plastic Bowl with Bowl Guard & Auto Drain	**P32KB00BGA** **P33KA00BGA**	
P31	Metal Bowl without Sight Gauge & Pulse Drain	**P31KB00BMB**	
P32 P33	Metal Bowl with Sight Gauge & Manual Drain	**P32KB00BSM** **P33KA00BSM**	
P32 P33	Metal Bowl with Sight Gauge & Auto Drain	**P32KB00BSA** **P33KA00BSA**	
P31 P32 P33	Lubricator - Plastic Bowl with Bowl Guard & Close End	**P31KB00BGN** **P32KB00BGN** **P33KA00BGN**	
P31 P32 P33	Lubricator - Metal Bowl Without Sight Gauge, No Drain Lubricator - Metal Bowl With Sight Gauge, No Drain Lubricator - Metal Bowl With Sight Gauge, No Drain	**P31KB00BMN** **P32KB00BSN** **P33KA00BSN**	

- Compact body ported units.
- Port size G1/4
- Unique deflector plate ensuring maximum water and particulate removal.
- Solid control piston with lip seal for extended life.
- Proportional oil delivery over a wide range of air flows.
- Tamperproof options available.

Operating information

Working pressure:	Max 10 bar
Working temperature:	-10 °C to +52 °C

Flow characteristics

Flow dm^3/s	1/4
Filter	30.5
Coalescing Filter	5.9
Adsorber Filter	5.9
Regulator	12.9
Regulator - Brass	9.8
Filter Regulator	9.2
Lubricator	23.3

Filters

Port size	Description	Order Code
G1/4	Poly bowl - Manual drain - 5µ	**P3LFA12EPPN**
G1/4	Poly bowl - Pulse drain - 5µ	**P3LFA12EPSN**
G1/4	Poly bowl - Manual drain - 40µ	**P3LFA12GPPN**
G1/4	Poly bowl - Pulse drain - 40µ	**P3LFA12GPSN**
Individual mounting bracket - P3LFA / P3LLA		**P3LKA00MW**

Regulators - 2 & 4 bar - relieving type & non relieving type

Port size	Description	Order Code
G1/4	8 bar relieving	**P3LRA12BNNP**
G1/4	8 bar relieving + gauge	**P3LRA12BNGP**
G1/4	8 bar relieving + Tamperproof	**P3LRA12BANP**
G1/4	8 bar relieving + gauge - Tamperproof	**P3LRA12BAGP**

Regulators (Brass) - 2, 4 &16 bar-relieving type & non relieving type

Port size	Description	Order Code
G1/4	8 bar relieving	**P3LRX12BNNP**
G1/4	8 bar relieving + gauge	**P3LRX12BNGP**
G1/4	16 bar relieving	**P3LRX12BNHP**
G1/4	8 bar relieving + Tamperproof	**P3LRX12BANP**
G1/4	8 bar relieving + gauge - Tamperproof	**P3LRX12BAGP**
G1/4	16 bar relieving + Tamperproof	**P3LRX12BAHP**

Pressure Gauges

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

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

Coalescing Filters - 0.01µ element

Port size	Description	Order Code
G1/4	Poly bowl - Manual drain - 0.01µ	**P3LFA12CPPN**
Individual mounting bracket - P3LFA / P3LLA		**P3LKA00MW**

Adsorber Filters

Port size	Description	Order Code
G1/4	Poly bowl - Adsorber	**P3LFA12APPN**

Filter/Regulators - 2 & 4 bar pressure, 40µ available

Port size	Description	Order Code
G1/4	8 bar relieving - Poly bowl Manual drain - 5µ	**P3LEA12EPPBNNP**
G1/4	8 bar relieving - Poly bowl Semi auto-drain - 5µ	**P3LEA12EPSBNNP**
G1/4	8 bar relieving - Poly bowl Manual drain + Gauge - 5µ	**P3LEA12EPPBNGP**
G1/4	8 bar relieving - Poly bowl Semi auto-drain + Gauge - 5µ	**P3LEA12EPSBNGP**

Lubricators

Port size	Description	Order Code
G1/4	Poly bowl - No drain	**P3LLA12LPNN**
	Lubricator OIL VG32-1 Litre	**P3YKA00PPBB**

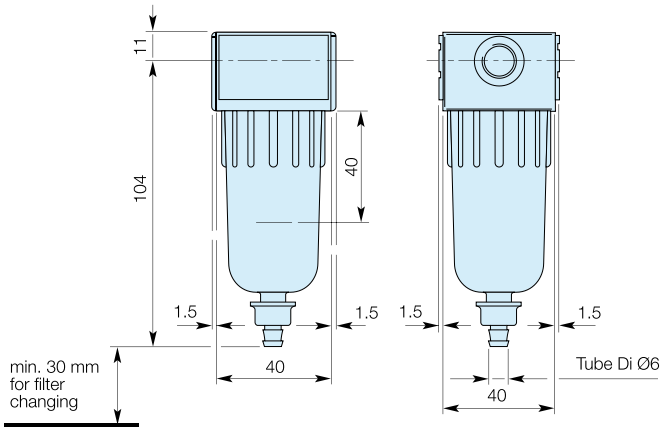
Filter/Regulator + Lubricator Combination

Available in boxed quantities of 25

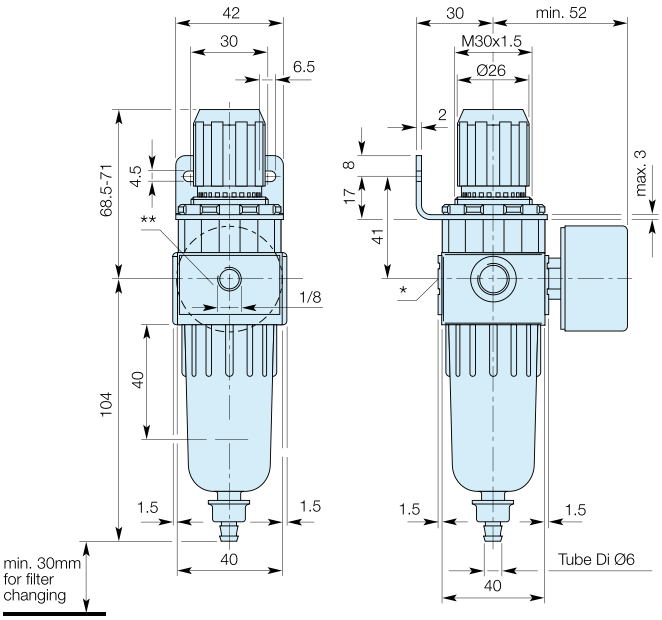
Port size	Description	Order Code
G1/4	Manual push drain	**P3LCA12PEPNGLNWQ25**
G1/4	Semi auto drain	**P3LCA12PESNGLNWQ25**

Dimensions (mm)

Filters

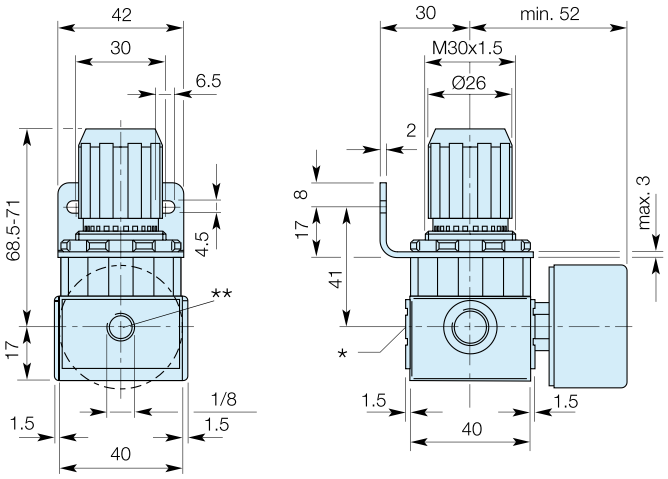


Filter/Regulators



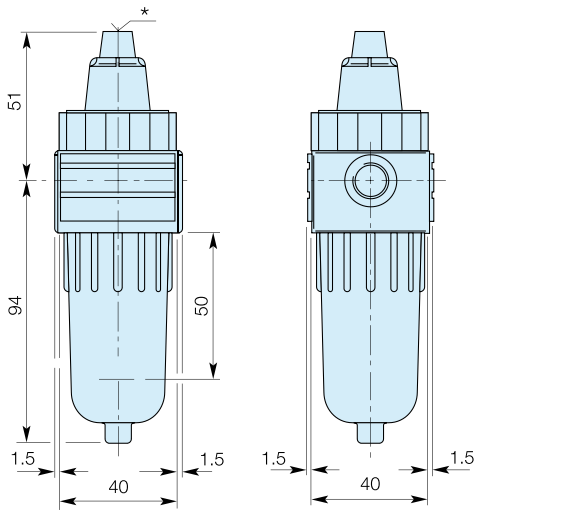
* On delivery the screw plug is not assembled
** Two opposite gauge ports 1/8”

Regulators



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

Lubricators



* Oil adjustment screw

Service kits

Description	Order code
Plastic bowl / manual push drain	**P3LKA00BPP**
Plastic bowl / semi-auto drain	**P3LKA00BPS**
Plastic bowl - no drain	**P3LKA00BPN**
5µ particle filter element	**P3LKA00ESE**
40µ Element Kit	**P3LKA00ESG**
0.01µ coalescing filter element	**P3LKA00ESC**
Activated carbon adsorber filter element	**P3LKA00ESA**

Accessories

Description	Order code
Connector kit (E/R + L/F)	**P3LKA00CB1**
Connector kit (E/R + M + L)	**P3LKA00CB2**
Connector kit (E/R + F + F)	**P3LKA00CB3**
Connector kit (F + L/F)	**P3LKA00CB4**
Manifold block	**P3LMA12020C**
Mounting bracket (F/L)	**P3LKA00MW**
Panel mount nut - Aluminium	**P3LKA00MM**
Panel mount nut - Plastic	**P3LKA00MP**
Angle Bracket (uses panel mount threads)	**P3LKA00MR**

- Port size G1/4 - G3/8
- Modular air preparation series
- Robust and lightweight zinc body construction
- Rolling diaphragm for extended life
- Soft start valve for slow pressure build up in pneumatic circuits
- Dump valves for quick downstream pressure exhaust
- Tamperproof regulator options available
- Secondary pressure ranges 4, 8 and 16 bar

Operating information

Working pressure:	Max 16 bar
Working temperature:	0 °C to +50 °C

* Low temperature capabilities -40°C for Filters, Filter/Regulators and Regulators on request.

Flow characteristics

Flow m^3/h	**1/4**	**3/8**
Filter + Regulator + Lubricator	50	47
Filter-Regulator + Lubricator	53	47
Filter-Water-Separator	86	91
Dust Filter	80	97
Coalescing Filter	35	35
Adsorber Filter	35	35
Regulator	171	198
Filter Regulator	137	192
Lubricator	110	113

Filters

5 micron (40 micron options available)

Port size	Description	**Order Code**
G1/4	Standard with 5µ element	**P3SFA12EPPN**
G1/4	Semi auto drain 5µ element	**P3SFA12EPSN**
G1/4	Auto drain 5µ element	**P3SFA12EPAN**
G1/4	Metal bowl with sight glass 5µ element	**P3SFA12ESPN**
G3/8	Standard with 5µ element	**P3SFA13EPPN**
G3/8	Semi auto drain 5µ element	**P3SFA13EPSN**
G3/8	Auto drain 5µ element	**P3SFA13EPAN**
G3/8	Metal bowl with sight glass 5µ element	**P3SFA13ESPN**

Regulators

4, 8 & 16 bar (non relieving options available)

Port size	Description	**Order Code**
G1/4	Standard 8 bar	**P3SRA12BNNP**
G1/4	Standard 8 bar with Gauge	**P3SRA12BNGP**
G1/4	With adaptor for key lock	**P3SRA12BANP**
G1/4	With common p1 supply	**P3SHA12BNNP**
G1/4	Pilot operated	**P3SRA12BPPP**
G3/8	Standard 8 bar	**P3SRA13BNNP**
G3/8	Standard 8 bar with Gauge	**P3SRA13BNGP**
G3/8	With adaptor for key lock	**P3SRA13BANP**
G3/8	With common p1 supply	**P3SHA13BNNP**
G3/8	Pilot operated	**P3SRA13BPPP**

Coalescing Filters

0,01 micron element

Port size	Description	**Order Code**
G1/4	Standard with manual drain	**P3SFA12CPPN**
G1/4	Metal bowl with sight glass	**P3SFA12CSPN**
G3/8	Standard with manual drain	**P3SFA13CPPN**
G3/8	Metal bowl with sight glass	**P3SFA13CSPN**

Adsorber Filters

Port size	Description	**Order Code**
G1/4	Standard with manual drain	**P3SFA12APPN**
G1/4	Metal bowl with sight glass	**P3SFA12ASPN**
G3/8	Standard with manual drain	**P3SFA13APPN**
G3/8	Metal bowl with sight glass	**P3SFA13ASPN**

Lubricators

Port size	Description	**Order Code**
G1/4	Standard	**P3SLA12LPNN**
G1/4	Closed metal bowl with sight glass	**P3SLA12LSNN**
G3/8	Standard	**P3SLA13LPNN**
G3/8	Closed metal bowl with sight glass	**P3SLA13LSNN**

Filter + Regulator + Lubricator combination
(wall bracket mount and gauge included)

Port size	Description	Order Code
G1/4	Standard with 5µ element, manual drain	**P3SCB12PEPNGLNW**
G1/4	Semi auto drain 5µ element, manual drain	**P3SCB12PESNGLNW**
G1/4	Auto drain 5µ element, manual drain	**P3SCB12PEANGLNW**
G3/8	Standard with 5µ element, manual drain	**P3SCB13PEPNGLNW**
G3/8	Semi auto drain 5µ element, manual drain	**P3SCB13PESNGLNW**
G3/8	Auto drain 5µ element, manual drain	**P3SCB13PEANGLNW**

Filter/Regulators
4, 8 & 16 bar (40 micron options available)

Port size	Description	Order Code
G1/4	Standard with 5µ element	**P3SEA12EPPBNNN**
G1/4	Semi auto drain 5µ element	**P3SEA12EPSBNNN**
G1/4	Auto drain 5µ element	**P3SEA12EPABNNN**
G1/4	Metal bowl with sight glass 5µ element	**P3SEA12ESPNGLNW**
G3/8	Standard with 5µ element	**P3SEA13EPPBNNN**
G3/8	Semi auto drain 5µ element	**P3SEA13EPSBNNN**
G3/8	Auto drain 5µ element	**P3SEA13EPABNNN**
G3/8	Metal bowl with sight glass 5µ element	**P3SEA13ESPNGLNW**

Proportional Pressure Regulator

Port size	Description	Order Code
G1/4	Normally closed, Control Signal 0-10V Pressure Range 0-10 bar	**P3SPA12AD2VA2A**
G1/4	Normally closed, Control Signal 4-20mA Pressure Range 0-10 bar	**P3SPA12AD2AA2A**
G1/4	Normally open / fail safe Control Signal 0-10V Pressure Range 0-10 bar	**P3SPA12ED2VA2A**
G1/4	Normally open / fail safe Control Signal 4-20mA Pressure Range 0-10 bar	**P3SPA12ED2AA2A**
G3/8	Normally closed, Control Signal 0-10V Pressure Range 0-10 bar	**P3SPA13AD2VA2A**
G3/8	Normally closed, Control Signal 4-20mA Pressure Range 0-10 bar	**P3SPA13AD2AA2A**
G3/8	Normally open / fail safe Control Signal 0-10V Pressure Range 0-10 bar	**P3SPA13ED2VA2A**
G3/8	Normally open / fail safe Control Signal 4-20mA Pressure Range 0-10 bar	**P3SPA13ED2AA2A**

Filter/Regulator + Lubricator combination
(wall bracket mount and gauge included)

Port size	Description	Order Code
G1/4	Standard with 5µ element, manual drain	**P3SCA12PEPNGLNW**
G1/4	Semi auto drain 5µ element	**P3SCA12PESNGLNW**
G1/4	Auto drain 5µ element	**P3SCA12PEANGLNW**
G1/4	Metal bowl with sight glass 5µ element	**P3SCA12SEPNGLNW**
G3/8	Standard with 5µ element, manual drain	**P3SCA13PEPNGLNW**
G3/8	Semi auto drain 5µ element	**P3SCA13PESNGLNW**
G3/8	Auto drain 5µ element	**P3SCA13PEANGLNW**
G3/8	Metal bowl with sight glass 5µ element	**P3SCA13SEPNGLNW**

Slider Valve

Port size	Description	Order Code
G1/4	3/2 way shut off valve 3-fold lockable	**P3SVA12LSN**
G3/8	3/2 way shut off valve 3-fold lockable	**P3SVA13LSN**

Soft Start Valve & Dump Valves

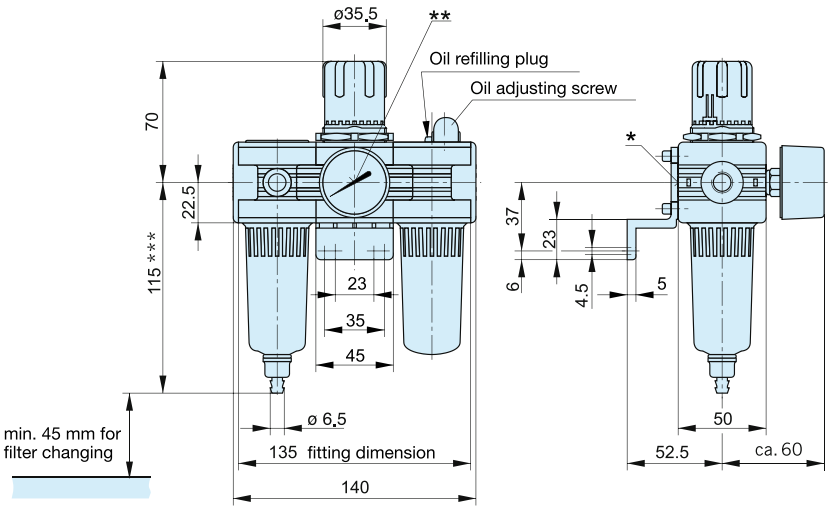
Port size	Description	Order Code
G1/4	Soft Start Valve	**P3SSA12Y0N**
G1/4	Dump Valve Air Pilot	**P3SDA12PPN**
G1/4	Solenoid Pilot 24V =	**P3SDA12SCNB2CN**
G1/4	Solenoid Operated (solenoid not included)	**P3SDA12SCN0000**
G3/8	Soft Start Valve	**P3SSA13Y0N**
G3/8	Dump Valve Air Pilot	**P3SDA13PPN**
G3/8	Solenoid Pilot 24V =	**P3SDA13SCNB2CN**
G3/8	Solenoid Operated (solenoid not included)	**P3SDA13SCN0000**

Accessories

Description	Order Code
Wall Mount Kit - standard	**P3SKA00MW**
Wall Mount Kit for common p1 regulator	**P3SKA00MB**
Assembly Kit	**P3SKA00CB**
Branch manifold, 3 x G1/8, 1 x G1/4 for pressure switch incl. assembly material	**P3SMA1V0N**
Gauge Ø 40, 0-10 bar, G1/8	**KZ8813-00**
Lock for tamperproof regulator	**P3XKA00AS**

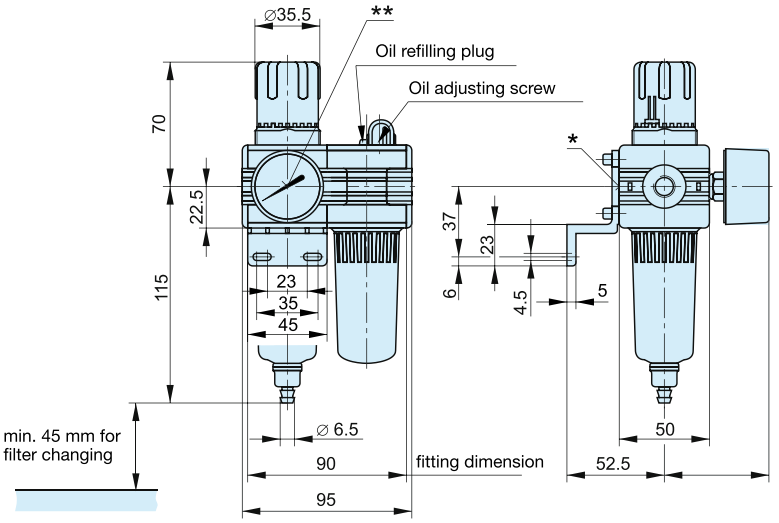
Dimensions (mm)

Filter + Regulator + Lubricator combination



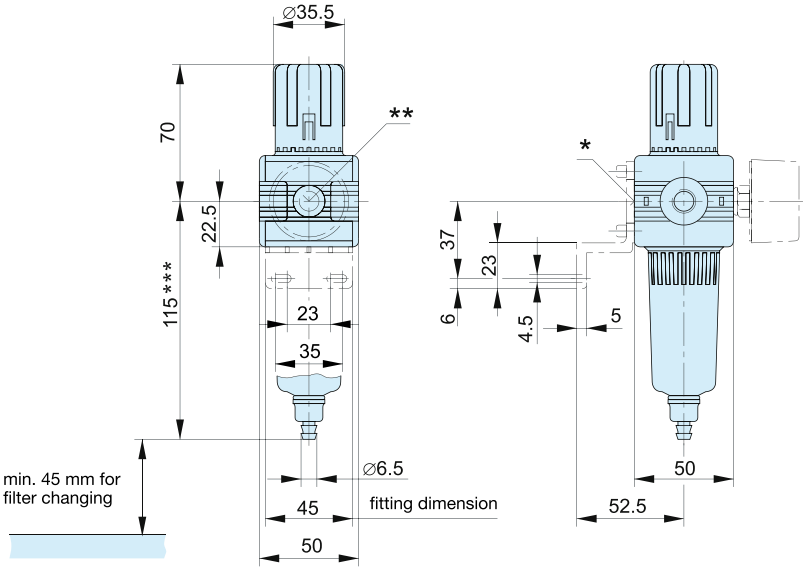
* On delivery the plug screw is not assembled
** Two opposite gauge ports G1/8
*** 148 mm on version with automatic drainage

Filter/Regulator + Lubricator combination



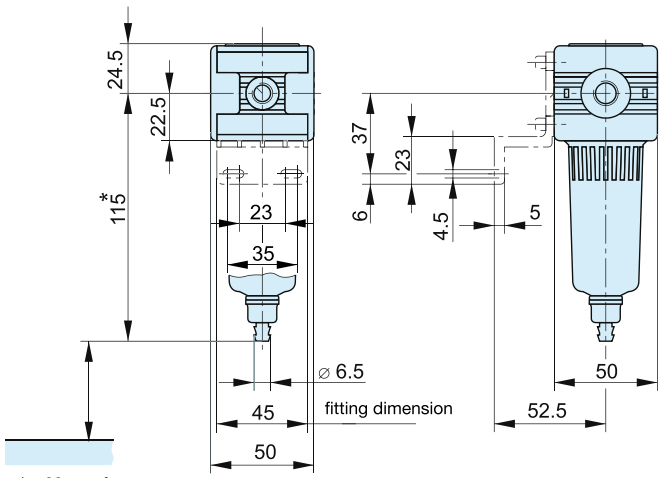
* On delivery the plug screw is not assembled
** Two opposite gauge ports G1/8
*** 148 mm on version with automatic drainage

Filter/Regulator



Dimensions (mm)

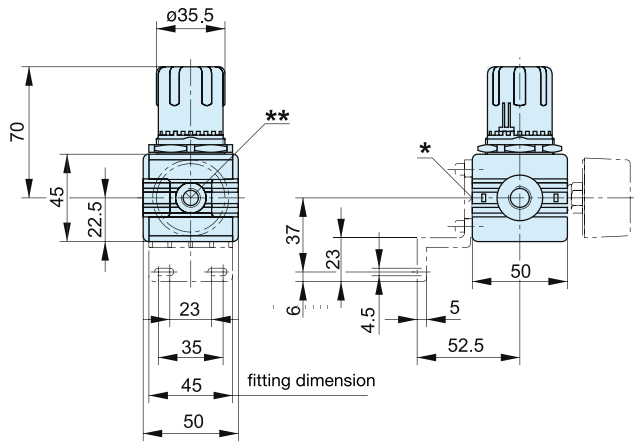
Filter



min. 60 mm for filter changing

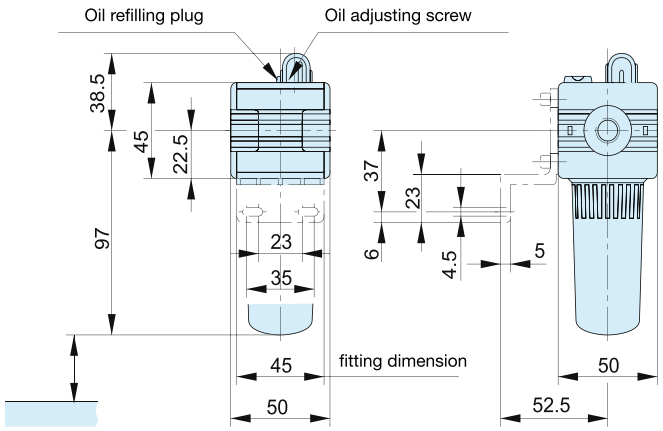
* 148 mm on Automatic drain version

Regulator



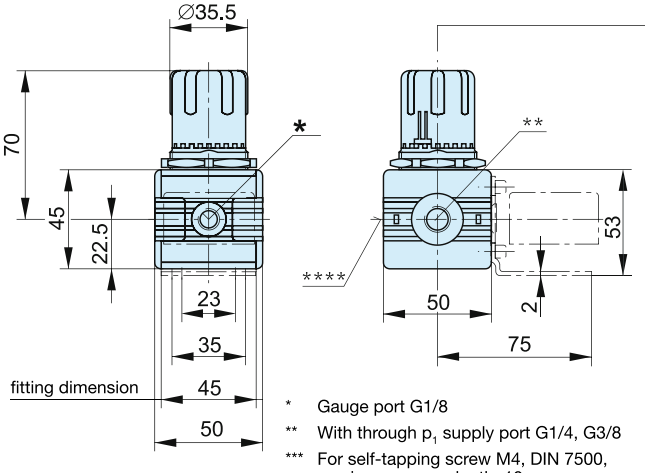
* On delivery the plug screw is not assembled
** Two opposite gauge ports G1/8
*** For self-tapping screw M4, DIN 7500, maximum screw depth: 10 mm

Lubricator



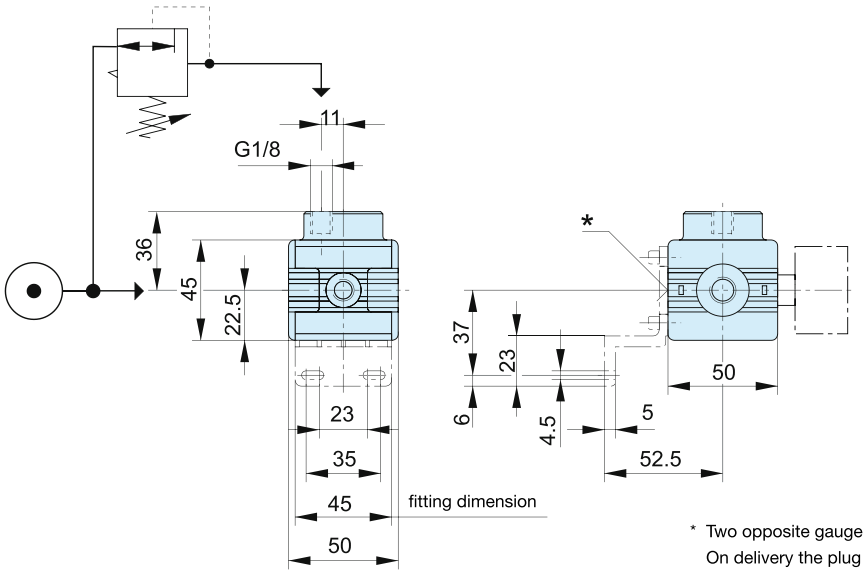
min. 45 mm for filter changing

Common - P1 Regulator



* Gauge port G1/8
** With through p_1 supply port G1/4, G3/8
*** For self-tapping screw M4, DIN 7500, maximum screw depth: 10 mm
**** p_2 port G1/4

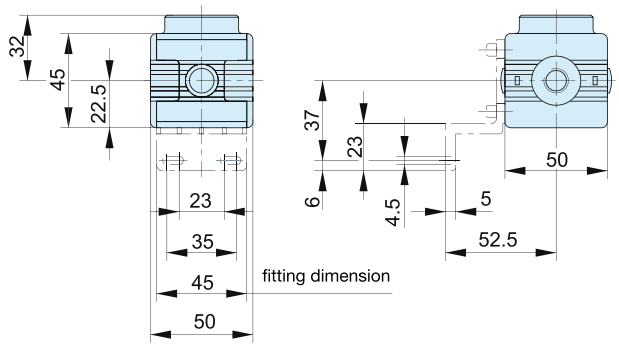
Pilot Operated Regulator



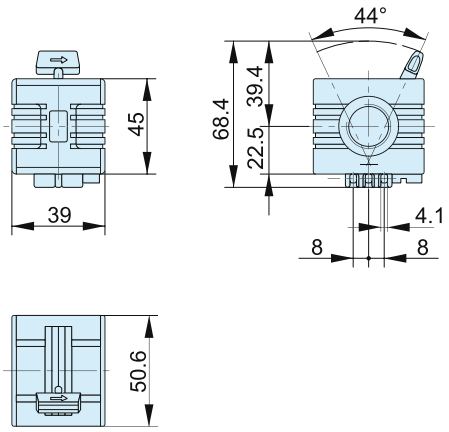
* Two opposite gauge ports G1/8
On delivery the plug screw is not assembled

Dimensions (mm)

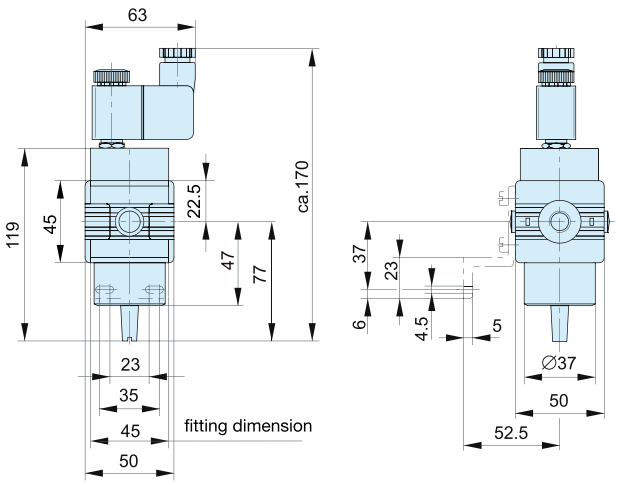
Start Valve



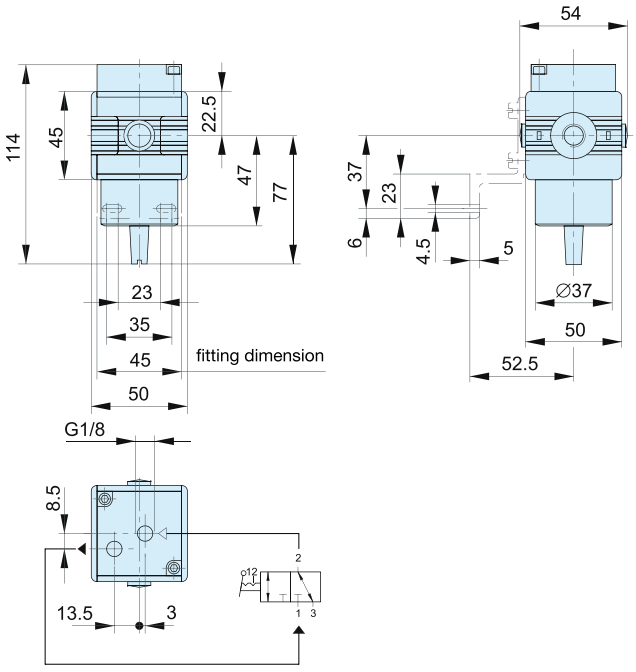
Slider Valve



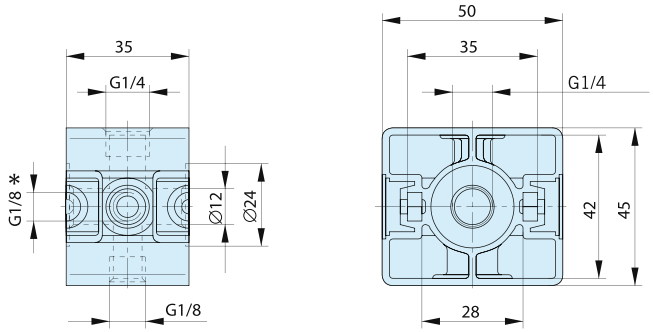
Remote Operated Dump Valve (electrically actuated)



Remote Operated Dump Valve (pneumatically actuated)



Branch Manifold



* G1/8 thread on both sides

Nano Mist

Simple. Convincing in the Details

There are innovations that bring selective improvements.
And then there are real innovations.
*Innovations that set **new** standards.*
*Like the **new Parker Moduflex Lite** series.*

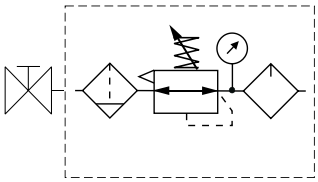
New Nano Mist Technology, New Lubricator Concept. Self-Adjusting.

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

The Moduflex Lite lubricator concept sets new benchmarks here. For the first time, the oil volume is automatically adjusted to the flow rate.

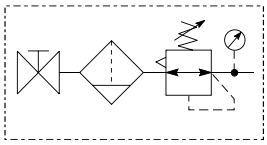
This ensures that there is neither too little nor too much oil in the system, which leads to clear economic and ecological advantages. In addition, with conventional systems, the distance between the lubricator and the equipment has to be less than 8 meters. With larger distances, the dispensed oil is deposited as a wall flow.
The new lubricator principle of the Moduflex 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



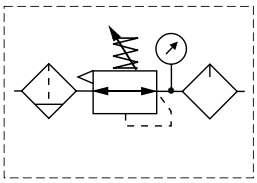
Slide Valve + Filter/Regulator + Lubricator Combinations (50mg/m³)
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets

Port size	Combined Manual/Semi-Auto Drain	Flow dm³/s	Weight (g)	Auto Drain	Flow dm³/s	Weight (g)
G1/2	**P3XAA14GECNGPNW**	76	1300	**P3XAA14GEANGPNW**	76	1300
G3/4	**P3XAA16GECNGPNW**	77	1300	**P3XAA16GEANGPNW**	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 dm³/s	Weight (g)	Auto Drain	Flow dm³/s	Weight (g)
G1/2	**P3XAN14GECNGW**	105	950	**P3XAN14GEANGW**	105	950
G3/4	**P3XAN16GECNGW**	106	950	**P3XAN16GEANGW**	106	950



Filter/Regulator + Lubricator Combinations (50mg/m³)
5 micron element, 8 bar Regulator + Gauge and Wall Mounting Brackets

Port size	Combined Manual/Semi-Auto Drain	Flow dm³/s	Weight (g)	Auto Drain	Flow dm³/s	Weight (g)
G1/2	**P3XCA14GECNGPNW**	76	1000	**P3XCA14GEANGPNW**	76	1000
G3/4	**P3XCA16GECNGPNW**	77	1000	**P3XCA16GEANGPNW**	77	1000

Options:

P 3 X [ ] [ ] [ ] **G E** [ ] [ ] [ ] [ ] **W**

Filter/Reg + Lubricator	**CA**
Slide valve + Filter/Reg	**AN**
Slide valve + Filter/Reg + Lubricator	**AA**

BSPP (G)	**1**
NPT *	**9**

Combined Manual/Semi Auto Drain	**C**
Auto Drain	**A**

0 - 8 bar with gauge	**G**
0 - 16 bar with gauge	**J**

* NPT ports on request 1/2" size only

1/2	**4**
3/4	**6**

Non rise - Standard	**N**
Tamperproof - Lockable	**A**

(50mg/m³)	**PN**	Add only for options with lubricator
(5mg/m³)	**SN**	

- Integral 1/2 or 3/4 ports
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Secondary pressure ranges 4, 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 Regulators/Filters and Filter Regulators using combined manual/semi auto drain as standard without pressure gauge.

Operating information

Working pressure:	Max 16 bar
Working temperature:	-40 °C to +60 °C

Flow characteristics

Flow dm^3/s	1/2	3/4
Filter	55	57
Coalescing Filter	24	24
Adsorber Filter	18	18
Regulator	122	134
Filter Regulator	111	113
Lubricator	78	78

Filters - 5 micron element

Port size	Description	Order Code
G1/2	Manual drain/Semi auto	**P3XFA14EGCN**
G1/2	Auto drain	**P3XFA14EGAN**
G3/4	Manual drain / Semi auto	**P3XFA16EGCN**
G3/4	Auto drain	**P3XFA16EGAN**
	Mounting bracket	**P3XKA00MW**

Regulators - 4 & 8 bar - non relieving options available

Port size	Description	Order Code
G1/2	8 bar relieving	**P3XRA14BNNN**
G1/2	8 bar relieving + gauge	**P3XRA14BNGN**
G3/4	8 bar relieving	**P3XRA16BNNN**
G3/4	8 bar relieving + gauge	**P3XRA16BNGN**
G1/2	8 bar relieving, tamperproof	**P3XRA14BANN**
G1/2	8 bar relieving, tamperproof + gauge	**P3XRA14BAGN**
G3/4	8 bar relieving, tamperproof	**P3XRA16BANN**
G3/4	8 bar relieving, tamperproof + gauge	**P3XRA16BAGN**
G1/2	Air-pilot regulator	**P3XRA14BPPN**
G3/4	Air-pilot regulator	**P3XRA16BPPN**

Lubricators

Port size	Description	Order Code
G1/2	Oil mist, fill under pressure (50mg/m^3)	**P3XLA14PGNN**
G3/4	Oil mist, fill under pressure (50mg/m^3)	**P3XLA16PGNN**
G1/2	Oil mist, fill under pressure (5mg/m^3)	**P3XLA14SGNN**
G3/4	Oil mist, fill under pressure (5mg/m^3)	**P3XLA16SGNN**
	Lubricator OIL VG15:ISO3448 - 100ml	**P3XKA00PPA**
	Lubricator OIL VG32-1 Litre	**P3YKA00PPBB**

Coalescing Filters - 0.01 micron element

Port size	Description	Order Code
G1/2	Coalescing 0.01µm, manual/semi auto drain	**P3XFA14DGCN**
G1/2	Coalescing Filter 0.01µm, auto drain	**P3XFA14DGAN**
G3/4	Coalescing 0.01µm, manual/semi auto drain	**P3XFA16DGCN**
G3/4	Coalescing Filter 0.01µm, auto drain	**P3XFA16DGAN**

Adsorber Filters

Port size	Description	Order Code
G1/2	Adsorber, manual/semi auto drain	**P3XFA14AGCN**
G3/4	Adsorber, manual/semi auto drain	**P3XFA16AGCN**

Filter/Regulators

4 and 16 bar, non relieving options available

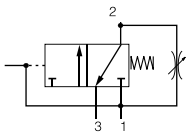
Port size	Description	Order Code
G1/2	8 bar, relieving manual/semi auto drain	**P3XEA14EGCBNNN**
G1/2	8 bar, relieving auto drain	**P3XEA14EGABNNN**
G1/2	8 bar, relieving manual/semi auto + gauge	**P3XEA14EGCBNGN**
G1/2	8 bar, relieving auto drain + gauge	**P3XEA14EGABNGN**
G3/4	8 bar, relieving manual/semi auto drain	**P3XEA16EGCBNNN**
G3/4	8 bar, relieving auto drain	**P3XEA16EGABNNN**
G3/4	8 bar, relieving manual/semi auto + gauge	**P3XEA16EGCBNGN**
G3/4	8 bar, relieving auto drain + gauge	**P3XEA16EGABNGN**

Pressure Gauges

	Order Code
0 - 10 bar	**KG8012-00**
0 - 16 bar	**KG8013-00**

Dump Valve & Combined Soft Start Dump Valve

Symbols



- 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

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:

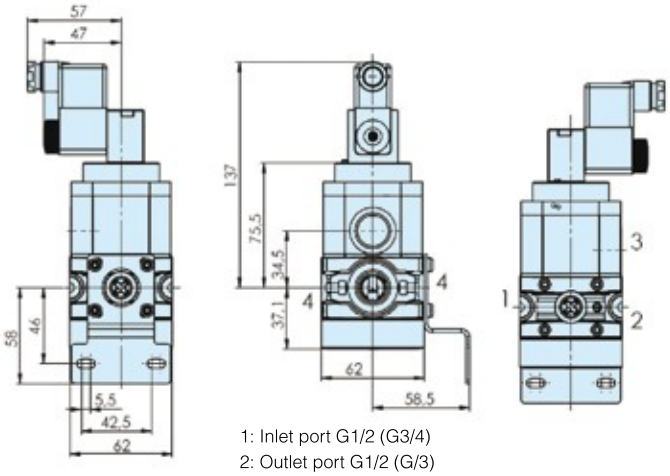
P 3 X		A					N		Solenoid type only	
		Combined soft start dump valve	T	External air pilot	P		None (operator is fitted to valve)	0	Solenoid / coil not fitted	000
		Dump valve	D	Solenoid pilot	S		30mm CNOMO coil (Form connection)	A	24V DC	2CN
	BSPP (G)	1	1/2	4	30mm operator	C	22mm coil (Form connection)	B		
	NPT *	9	3/4	6	Threaded air pilot	P	30mm CNOMO coil (M12 connection)	D		
							22mm coil (M12 connection)	E		

* NPT Ports on request 1/2” size only

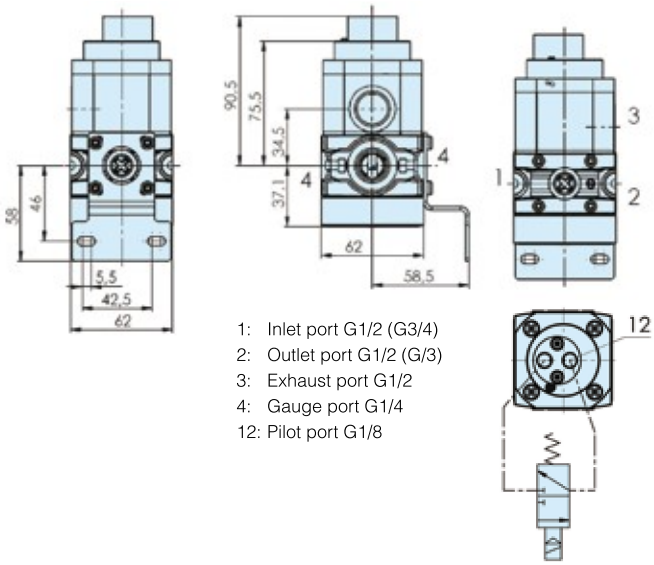
Combined soft start dump valve

Port size	Description	Order Code	Flow dm^3/s	Max bar	Min temp °C	Max temp °C	Height mm	Width mm	Depth mm	Weight kg
1/2	Solenoid operated (not included)	**P3XTA14SCN0000**	80	16	-10	60	144	62	62	0.75
1/2	24VDC 22mm coil	**P3XTA14SCNB2CN**	80	10	-10	60	174	88	62	0.75
1/2	24VDC 30mm coil	**P3XTA14SCNA2CN**	80	16	-10	60	174	88	62	0.75
1/2	Air pilot operated	**P3XTA14PPN**	80	16	-10	60	127.5	62	62	0.75
3/4	Solenoid operated (not included)	**P3XTA16SCN0000**	88	16	-10	60	144	62	62	0.75
3/4	24VDC 22mm coil	**P3XTA16SCNB2CN**	88	10	-10	60	174	88	62	0.75
3/4	24VDC 30mm coil	**P3XTA16SCNA2CN**	88	16	-10	60	174	88	62	0.75
3/4	Air pilot operated	**P3XTA16PPN**	88	16	-10	60	127.5	62	62	0.75

Dimensions (mm)



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



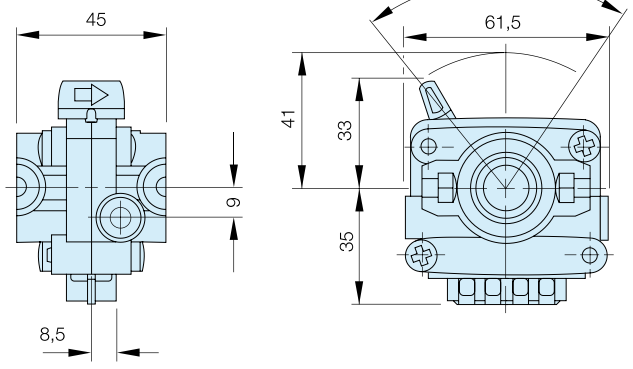
1: Inlet port G1/2 (G3/4)
2: Outlet port G1/2 (G/3)
3: Exhaust port G1/2
4: Gauge port G1/4
12: Pilot port G1/8

Modular Slide Valve

P3X **VA** [ ] [ ] **LSN**

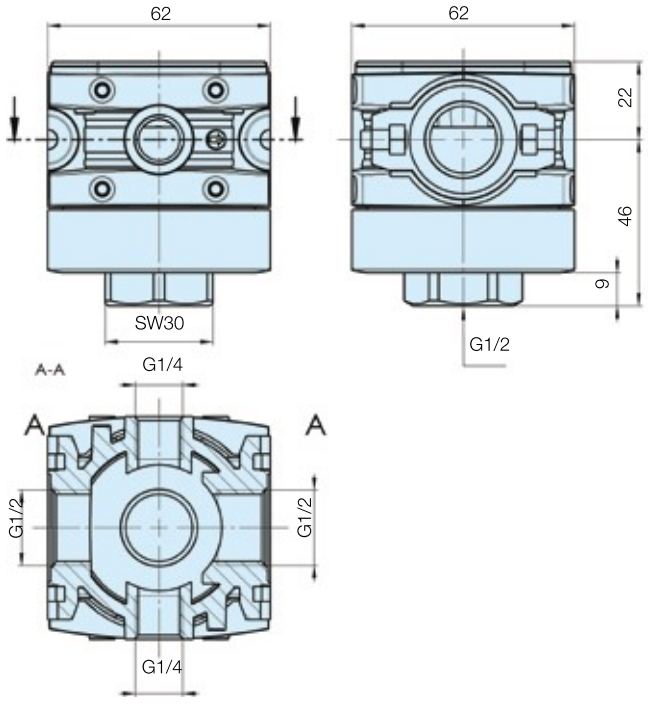
BSPP (G)	**1**	G1/2	**4**
NPT *	**9**	G3/4	**6**

* NPT ports on request (1/2" size only)



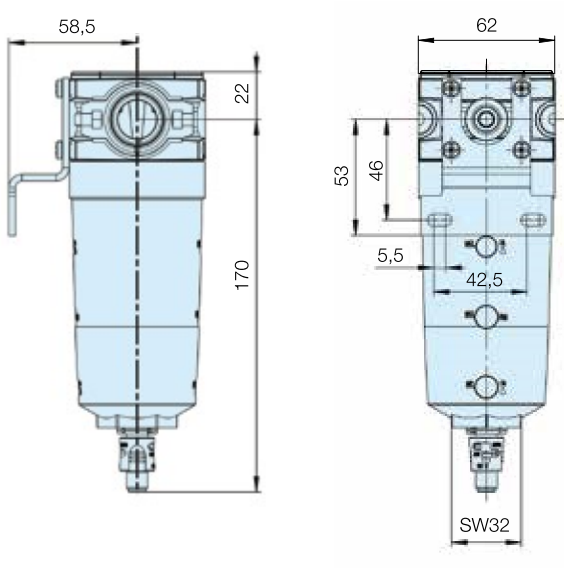
Modular Manifold

Description	Order code BSPP	Order code NPT	Weight (g)
G1/2"	**P3XMA1V0N**	**P3XMA9V0N**	170
G3/4"	**P3XMA160N**		170

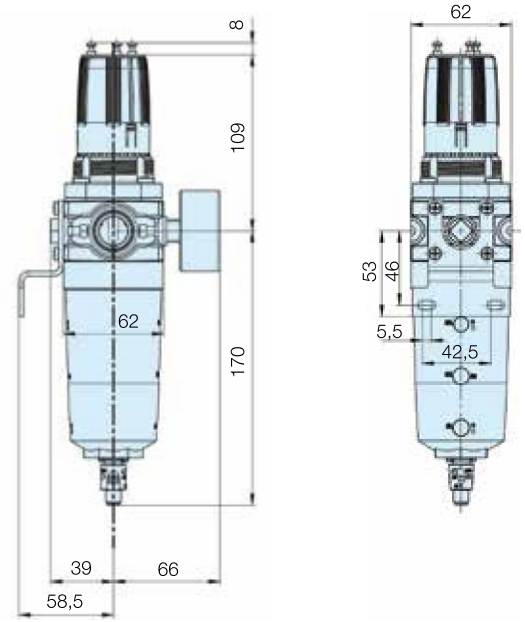


Dimensions (mm)

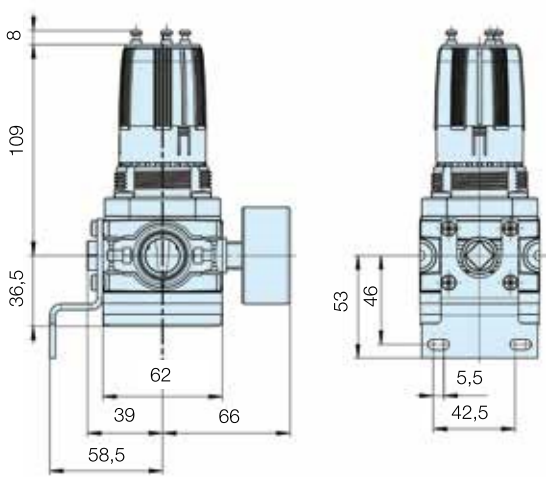
Filters



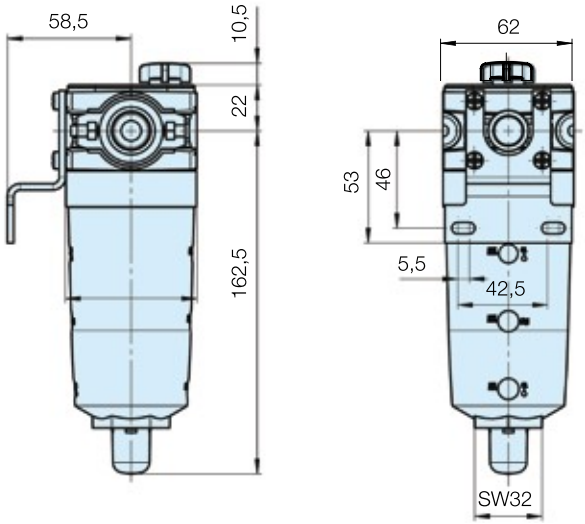
Filter/Regulators



Regulators



Lubricators



Service kits

Description	Order code
Adsorber element kit	**P3XKA00ESA**
0.01 micron element kit	**P3XKA00ESC**
1 micron element kit	**P3XKA00ES9**
5 micron element kit	**P3XKA00ESE**
40 micron element kit	**P3XKA00ESG**
Bowl kit with combined manual/semi auto drain	**P3XKA00BSC**
Bowl kit with auto drain	**P3XKA00BSA**
Diaphragm kit (relieving type)	**P3XKA00RR**
Diaphragm kit (non-relieving type)	**P3XKA00RN**
Connecting kit	**P3XKA00CB**

Accessories

Description	Order code
Connector kit	**P3XKA00CB**
Connector O'ring kit (5)	**P3XKA04CY**
Tamper-proof knob kit (keylock)	**P3XKA00AS**
Wall bracket kit	**P3XKA00MW**
Panel mount nut	**P3XKA00MM**

- Removes water vapour & lowers the PDP
- Compact design
- No electrical connections necessary
- Suitable for hazardous environments
- No moving parts
- Maintenance & wear free
- No change in air consumption
- Low pressure drop less than 0.1 bar
- Minimal purge air consumption
- Modular design - compatible with the P3X air prep series

Operating information

Operating pressure range:	5 to 16 bar
Temperature range:	2 °C to 60 °C
Pressure drop:	0.1 bar
Purge air (at 20K PDP reduction):	10%
Max Flow at inlet (size 50):	2800 l/m

Note:
For optimum system performance and maintenance free conditions, Parker recommend the dryer is preceeded with a 5 micron and 0.01 coalescer filter from the P3X series.

Membrane dryer

Port size	Size	Description	Order Code
G1/2	10	Membrane dryer with return tube - size 10	**P3XJA14CA1N**
G1/2	15	Membrane dryer with return tube - size 15	**P3XJA14CB1N**
G1/2	20	Membrane dryer with return tube - size 20	**P3XJA14CC1N**
G1/2	25	Membrane dryer with return tube - size 25	**P3XJA14CD1N**
G1/2	35	Membrane dryer serial type - size 35	**P3XJA14CE1N**
G1/2	50	Membrane dryer serial type - size 50	**P3XJA14CF1N**

Note: For NPT threaded connections replace the 6th digit from a 1 to 9 ie: **P3XJA94CA1N**

Wall mounting bracket kit

Order Code
P3XKA00MWD

Note:
For optimum system performance and maintenance free conditions, Parker recommend the dryer is proceeded with a 5 micron and 0.01 coalecer filter from the P3X series.

Complete Filter / Dryer System combinations available on request

F + Fc + MD

F + Fc + MD + R

F + Fc + MD + R + Fa

Selection Criteria

To correctly slect the dryer best suited for your application, the following information is required to ensure optimum performance and trouble free operation.

- Maximum inlet pressure dew point (^{o}C)
- Outlet PDP (^{o}C)
- Working pressure (bar)
- Maximum inlet flow rate (m^3/h)

Conversion factor for calculation of corrected flow rate

Operating pressure range p (bar)	5	6	7	8	9	10	11	12	13	14	15	16
Conversion factor f_p	0.57	0.78	1.0	1.21	1.42	1.64	1.85	2.06	2.28	2.49	2.70	2.92

Working Example:

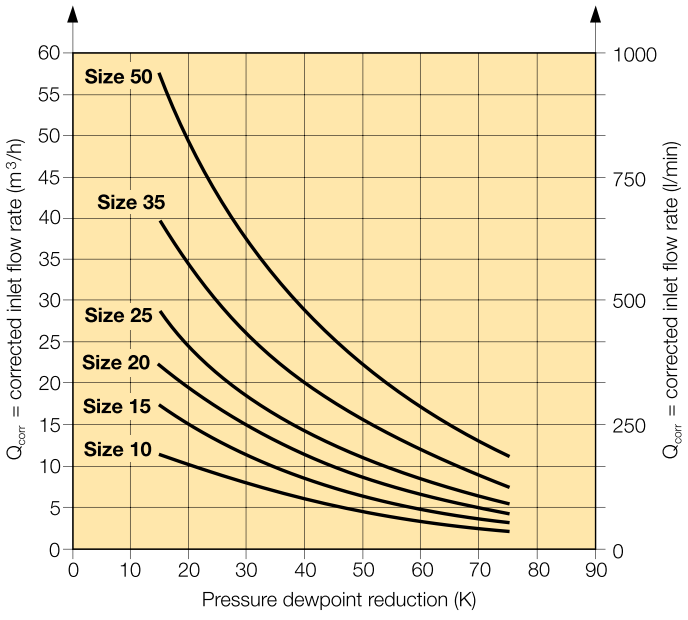
Selecting a dryer with an inlet pressure dew point of 35^{o}C, a PDP reduction of 35K with a working / operating pressure of 6 bar and an inlet flow of 11 m^3/h.

Step 1
From the correction factor table select the required pressure (6 bar) and read below the corrected factor value (0.78)

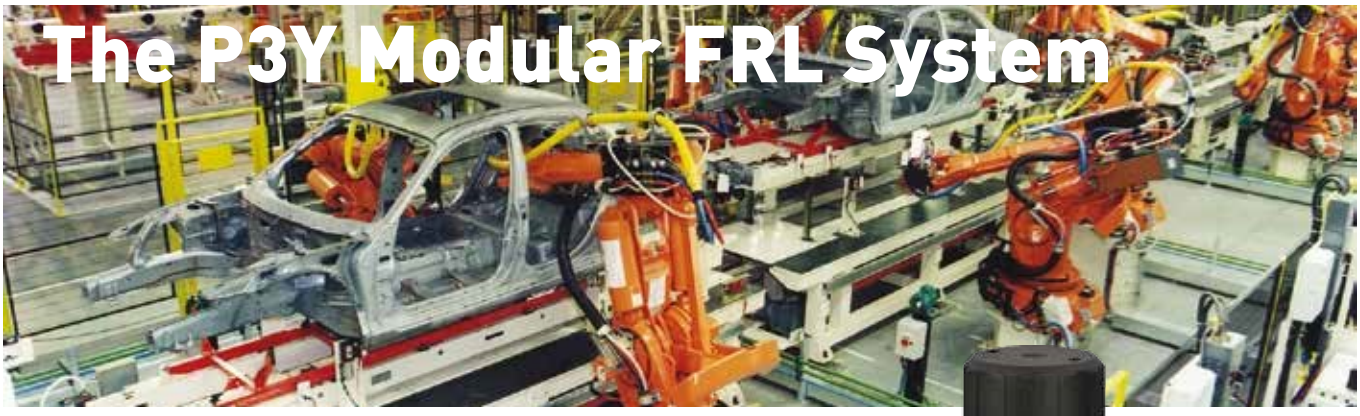
Step 2
To adjust the flow for your application, divide the required flow by the 0.78 correction factor

$$\text{Sizing capacity} = \frac{\text{Actual flow}}{\text{Correction factor}} \qquad \frac{11\ m^3/h}{0.78} \qquad = \qquad 14.1\ m^3/h$$

Step 3
Plot the values on the selection graph (below). Where the dew point reduction value of 35K intersects with the corrected flow value of 14.1 m^3/h, select the dryer flow curve which is equal or above the intersection point. For example: the optimum dryer would be **size 25 (P3XJA14CD1N)**



For the most demanding hi-flow industrial applications



The P3Y 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 P3Y 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 P3Y series.

The P3Y 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.

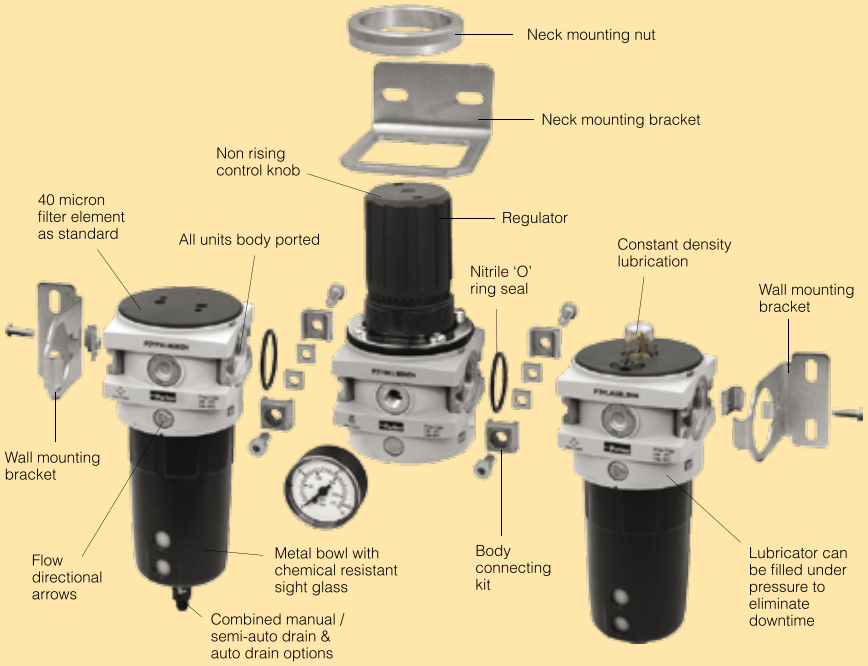
Selection of Filters

Standard Filter

Coalescing Filter

Adsorber Filter

Dust Filter



DECLARATION

We **Parker Hannifin Manufacturing Austria GmbH**
Pneumatic Division
Dr. Alexander Schärfstrasse 12
2700 Wiener Neustadt
Austria

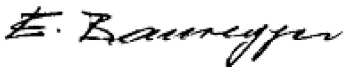
Product	**Series**	**Category**
Filter	P3YFA	for zone 1, 21
Regulator	P3YRA	for zone 1, 21
Filter regulator	P3YEA	for zone 1, 21
Lubricator	P3YLA	for zone 1, 21
Ball Valve	P3YVA	for zone 1, 21
Manifold	P3YMA	for zone 1, 21
For non-fitted solenoid product		
Soft Start & Dump Valve	P3YTA	for zone 1, 21
Soft Start Valve	P3YSA	for zone 1, 21
Dump Valve	P3YDA	for zone 1, 21

Following Ignition Hazard Assessments performed on the non-electrical products listed above, in accordance with the requirements of EN 13463-1:2009, it was considered that the equipment does not contain its own source of ignition, and therefore is not within the scope of directive 94/9/EC.

The products can be used in a Group II Category 2 environment assuming that the ATEX Directive and the following conditions are complied with:

- Installation and maintenance of the product must be undertaken by qualified personnel.
- Do not mount the products in an area where impact may occur.
- Filters must be used to limit the introduction of particles and to capture particles generated in service.
- Supply air quality must be within ISO 8573-1:2010 Class 1.4.2.
- Maximum working temperature to be as stated on product label.
- WARNING – pulsating pressure and/or a closed circuit can generate heat.
- Deposits of dust on the product must not exceed 5mm thickness.
  Refer to technical file for surface areas of plastics.
  The unit must be earthed via the compressed air supply line.
- The unit must not come into contact with liquid solvents, acids or alkalis.
  Refer to technical file for chemicals known to be incompatible.
  Product cleaning must be undertaken using a method complying with the specification of the ATEX zone, preferably by using mild soap and water or antistatic products.
- **Regulators, Filter Regulators:**
  Do not use Regulators or Filter Regulators within systems that can create vibration within the Regulator/Filter Regulator unit.
- **Solenoid Operated Valves:**
  Are suitable for use in an ATEX environment, (Group II Category 2) providing ATEX approved solenoids are fitted.
- Technical file available on request.

Approved by:



E. Bauregger (Location Engineering Manager)

- Integral 3/4 or 1” ports (BSPP or NPT)
- High efficiency element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminium construction
- Secondary pressure ranges 12 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 Regulators/Filters and Filter Regulators using combined manual/semi auto drain as standard without pressure gauge.

Operating information

Working pressure:	Max 17.5 bar
Working temperature:	-40 °C to +60 °C

Flow characteristics

Flow dm^3/s	3/4	1”
Filter	116	119
Dust Filter	137	145
Coalescing Filter	49	59
Adsorber Filter	47	50
Regulator	155	321
Filter Regulator	190	237
Lubricator	162	184

Filters - 40 micron element

Port size	Description	Order Code
G3/4	Manual drain/Semi auto	**P3YFA16GSCN**
G3/4	Auto drain	**P3YFA16GSAN**
G1”	Manual drain / Semi auto	**P3YFA18GSCN**
G1”	Auto drain	**P3YFA18GSAN**
	Mounting bracket	**P3YKA00CW**

Dust Filters - 1 micron element

Port size	Description	Order Code
G3/4	Manual drain/Semi auto	**P3YFA162SCN**
G3/4	Auto drain	**P3YFA162SAN**
G1”	Manual drain / Semi auto	**P3YFA182SCN**
G1”	Auto drain	**P3YFA182SAN**

Regulators - relieving type - non relieving options available

Port size	Description	Order Code
G3/4	12 bar relieving	**P3YRA16BNEN**
G3/4	12 bar relieving + gauge	**P3YRA16BNFN**
G1”	12 bar relieving	**P3YRA18BNEN**
G1”	12 bar relieving + gauge	**P3YRA18BNFN**
G3/4	12 bar relieving, lockable	**P3YRA16BAEN**
G3/4	12 bar relieving, lockable + gauge	**P3YRA16BAFN**
G1”	12 bar relieving, lockable	**P3YRA18BAEN**
G1”	12 bar relieving, lockable + gauge	**P3YRA18BAFN**

Pressure Gauges

	Order Code
0 - 10 bar	**KG8012-00**
0 - 16 bar	**KG8013-00**

Coalescing Filters - 0.01 micron element

Port size	Description	Order Code
G3/4	Coalescing 0.01µm, manual/semi auto drain	**P3YFA16DSCN**
G3/4	Coalescing Filter 0.01µm, auto drain	**P3YFA16DSAN**
G1”	Coalescing 0.01µm, manual/semi auto drain	**P3YFA18DSCN**
G1”	Coalescing Filter 0.01µm, auto drain	**P3YFA18DSAN**

Adsorber Filters

Port size	Description	Order Code
G3/4	Adsorber, manual drain	**P3YFA16ASCN**
G1”	Adsorber, manual drain	**P3YFA18ASCN**

Lubricators

Port size	Description	Order Code
G3/4	Oil mist, fill under pressure	**P3YLA16LSNN**
G1”	Oil mist, fill under pressure	**P3YLA18LSNN**

Filter/Regulators - relieving type - non relieving options available

Port size	Description	Order Code
G3/4	12 bar, relieving manual/semi auto drain	**P3YEA16GSCBNEN**
G3/4	12 bar, relieving auto drain	**P3YEA16GSABNEN**
G3/4	12 bar, relieving manual/semi auto + gauge	**P3YEA16GSCBNFN**
G3/4	12 bar, relieving auto drain + gauge	**P3YEA16GSABNFN**
G1”	12 bar, relieving manual/semi auto drain	**P3YEA18GSCBNEN**
G1”	12 bar, relieving auto drain	**P3YEA18GSABNEN**
G1”	12 bar, relieving manual/semi auto + gauge	**P3YEA18GSCBNFN**
G1”	12 bar, relieving auto drain + gauge	**P3YEA18GSABNFN**

Combined Soft Start Dump Valve and Remote Operated Dump Valve

Port size	Description	Order Code
G3/4	Solenoid operated (not included)	**P3YTA16SCN0000**
G3/4	24VDC 22mm coil	**P3YTA16SCNB2CN**
G3/4	Air pilot operated	**P3YTA16PPN**
G1”	Solenoid operated (not included)	**P3YTA18SCN0000**
G1”	24VDC 22mm coil	**P3YTA18SCNB2CN**
G1”	Air pilot operated	**P3YTA18PPN**

Soft Start Valve

Port size	Description	Order Code
G3/4	Soft start valve	**P3YSA16Y0N**
G1”	Soft start valve	**P3YSA18Y0N**

Neck mounting bracket kit

Description	Order Code
Neck mounting bracket kit	**P3YKA00MS**

Wall mounting brackets

Description	Order Code
Wall mounting brackets	**P3YKA00CW**

Pilot Operated Regulator

Port size	Description	Order Code
G3/4	Pilot operated regulator	**P3YRA16BPPN**
G1”	Pilot operated regulator	**P3YRA18BPPN**

Modular Ball Valve

Port size	Description	Order Code
G3/4	Modular Ball Valve	**P3YVA16LBN**
G1”	Modular Ball Valve	**P3YVA18LBN**

Modular Manifold

Port size	Description	Width	Order Code
G3/4	Modular Manifold	(80 mm)	**P3YMA1V0N**
G1”	Modular Manifold	(80 mm)	**P3YMA9V0N**
G3/4	Modular Manifold	(35 mm)	**P3YMA16024N**

Optional Port Block Kits

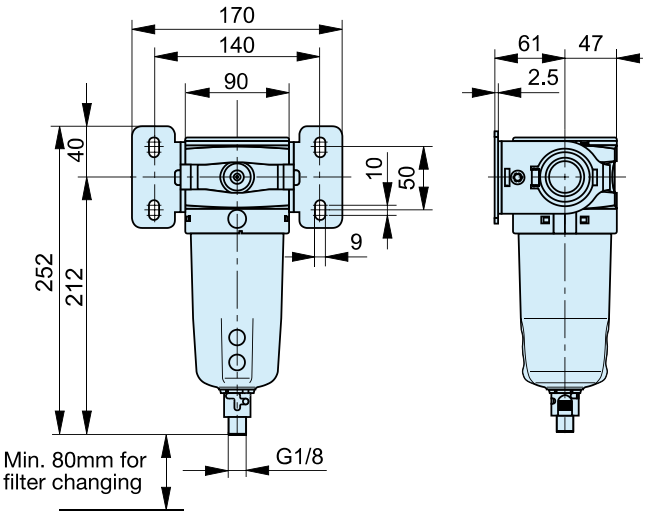
Port size	Description	Order Code
G1 1/4”	Port block kit - BSPP	**P3YKA1ACP**
G1 1/2”	Port block kit - BSPP	**P3YKA1BCP**
G3/4”	Port block kit - BSPP	**P3YKA16CP**
G1”	Port block kit - BSPP	**P3YKA18CP**

Connector kit

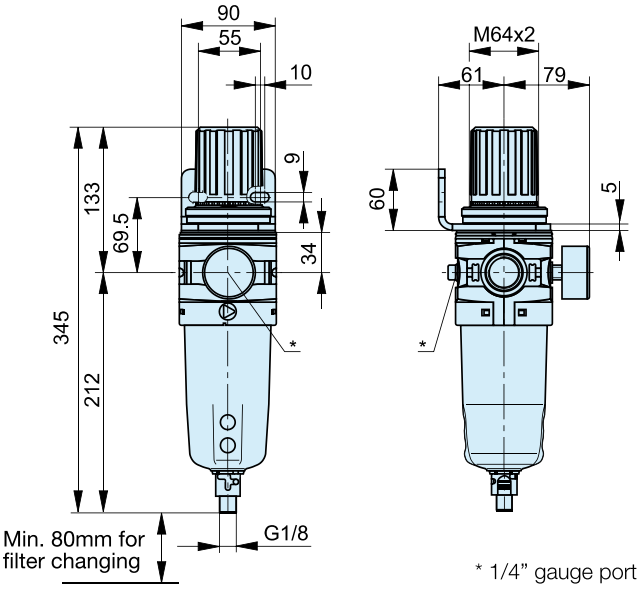
Description	Order Code
Connector kit	**P3YKA00CB**

Dimensions (mm)

Filters

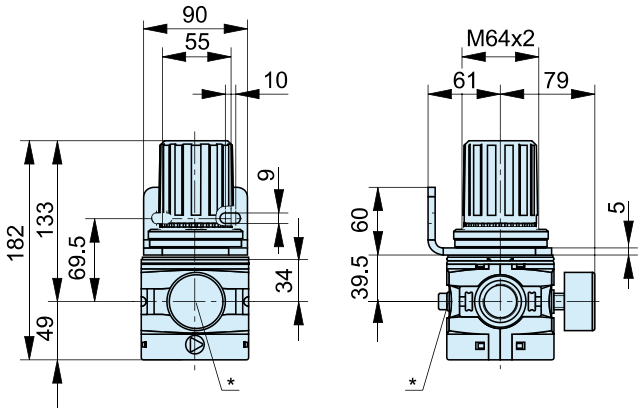


Filter/Regulators



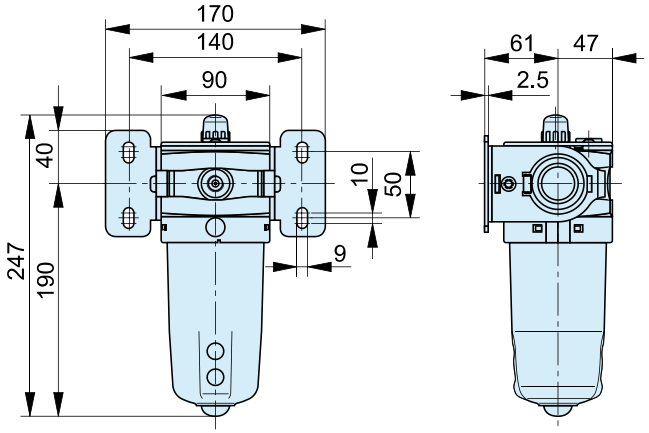
* 1/4" gauge port

Regulators



* 1/4" gauge port

Lubricators



Service kits

Description	Order code
5 micron element kit	**P3YKA00ESE**
40 micron element kit	**P3YKA00ESG**
Bowl kit with combined manual/semi auto drain	**P3YKA00BSC**
Bowl kit with auto drain	**P3YKA00BSA**
Key Lock Kit	**P3XKA00AS**
Diaphragm kit (relieving type)	**P3YKA00RR**
Diaphragm kit (non-relieving type)	**P3YKA00RN**
Angle bracket + metal lock ring	**P3YKA00MS**
Panel mount nut	**P3YKA00MM**

DECLARATION

We **Parker Hannifin Manufacturing Austria GmbH**
Pneumatic Division
Dr. Alexander Schärfstrasse 12
2700 Wiener Neustadt
Austria

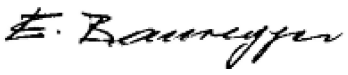
Product	**Series**	**Category**
Filter	P3ZFA	for zone 1, 21
Regulator	P3ZRA	for zone 1, 21
Lubricator	P3ZLA	for zone 1, 21
Manifold	P3ZMA	for zone 1, 21
For non-fitted solenoid product		
Soft Start & Dump Valve	P3ZTA	for zone 1, 21
Soft Start Valve	P3ZSA	for zone 1, 21
Dump Valve	P3ZDA	for zone 1, 21

Following Ignition Hazard Assessments performed on the non-electrical products listed above, in accordance with the requirements of EN 13463-1:2009, it was considered that the equipment does not contain its own source of ignition, and therefore is not within the scope of directive 94/9/EC.

The products can be used in a Group II Category 2 environment assuming that the ATEX Directive and the following conditions are complied with:

- Installation and maintenance of the product must be undertaken by qualified personnel.
- Do not mount the products in an area where impact may occur.
- Filters must be used to limit the introduction of particles and to capture particles generated in service.
- Supply air quality must be within ISO 8573-1:2010 Class 1.4.2.
- Maximum working temperature to be as stated on product label.
- WARNING – pulsating pressure and/or a closed circuit can generate heat.
- Deposits of dust on the product must not exceed 5mm thickness.
  Refer to technical file for surface areas of plastics.
  The unit must be earthed via the compressed air supply line.
- The unit must not come into contact with liquid solvents, acids or alkalis.
  Refer to technical file for chemicals known to be incompatible.
  Product cleaning must be undertaken using a method complying with the specification of the ATEX zone, preferably by using mild soap and water or antistatic products.
- **Regulators, Filter Regulators:**
  Do not use Regulators or Filter Regulators within systems that can create vibration within the Regulator/Filter Regulator unit.
- **Solenoid Operated Valves:**
  Are suitable for use in an ATEX environment, (Group II Category 2) providing ATEX approved solenoids are fitted.
- Technical file available on request.

Approved by:



E. Bauregger (Location Engineering Manager)

The all metal P3Z Series FRLs are ideal for most medium sized ring main installations.

- Self relieving feature plus balanced poppet provides quick response and accurate pressure regulation.
- Threaded port flange available to G1-1/2" and G2"
- Proportional oil delivery over a wide range of air flows.

Operating information

Working pressure:	0 - 17.5 bar
Working temperature:	0 °C to +60 °C

Flow characteristics

Flow	Filter	>666,6 dm^3/s
	Regulator	>666,6 dm^3/s
	Lubricator	>666,6 dm^3/s

For more information see www.parker.com/euro_pneumatic

Filters

Port size	Description	Order Code
-	40µ auto drain without flange SAE	**P3ZFA00HMAN**
G1.1/2"	40µ auto drain flange fitted to SAE	**P3ZFA1BHMAN**
G2"	40µ auto drain flange fitted to SAE	**P3ZFA1CHMAN**

Coalescing Filters

Port size	Description	Order Code
-	0.01 micron, auto drain	**P3ZFA00DMAN**
G1.1/2"	0.01 micron, auto drain, flange fitted to SAE	**P3ZFA1BDMAN**
G2"	0.01 micron, auto drain, flange fitted to SAE	**P3ZFA1CDMAN**

Dust Filters

Port size	Description	Order Code
-	1µ auto drain (pressure relief) without flange SAE	**P3ZFA00MMAN**
G1.1/2"	1µ auto drain (pressure relief) flange fitted to SAE	**P3ZFA1BMMAN**
G2"	1µ auto drain (pressure relief) flange fitted to SAE	**P3ZFA1CMMAN**

Adsorber Filters

Port size	Description	Order Code
-	Adsorber, auto drain	**P3ZFA00BMAN**
G1.1/2"	Adsorber, auto drain	**P3ZFA1BBMAN**
G2"	Adsorber, auto drain	**P3ZFA1CBMAN**

Regulators

Port size	Description	Order Code
-	8 bar, relieving + gauge, without flange SAE	**P3ZRA00BNGN**
G1.1/2”	8 bar, relieving + gauge	**P3ZRA1BBNGN**
G2”	8 bar, relieving + gauge	**P3ZRA1CBNGN**
-	16 bar relieving + gauge, without flange SAE	**P3ZRA00BNJN**
G1.1/2”	16 bar, relieving + gauge	**P3ZRA1BBNJN**
G2”	16 bar, relieving + gauge	**P3ZRA1CBNJN**

Regulators Pilot Control

Port size	Description	Order Code
-	16 bar, air pilot	**P3ZRA00BPPN**
G1.1/2”	16 bar, relieving + gauge	**P3ZRA1BBPPN**
G2”	16 bar, relieving + gauge	**P3ZRA1CBPPN**

Combined Soft Start Dump Valve and Remote Operated Dump Valve

Port size	Description	Order Code
-	Solenoid operated (not included)	**P3ZTA00SCN0000**
-	24VDC 22mm coil	**P3ZTA00SCNB2CN**
G1.1/2”	Solenoid operated (not included)	**P3ZTA1BSCN0000**
G1.1/2”	24VDC 22mm coil	**P3ZTA1BSCNB2CN**
G2”	Solenoid operated (not included)	**P3ZTA1CSCN0000**
G2”	24VDC 22mm coil	**P3ZTA1CSCNB2CN**

Soft Start Valve

Port size	Description	Order Code
-	Internal air pilot operated	**P3ZSA00Y0N**
G1.1/2”	Internal air pilot operated	**P3ZSA1BY0N**
G2”	Internal air pilot operated	**P3ZSA1CY0N**

Lubricators

Port size	Description	Order Code
-	Lubricator, without flange SAE	**P3ZLA00LSMN**
G1.1/2”	Lubricator	**P3ZLA1BLSMN**
G2”	Lubricator	**P3ZLA1CLSMN**
G2”	Central airline lubricator with electrical oil level control	**P3ZLA1CEMMW**
G2”	Central airline lubricator with aluminium bowl	**P3ZLA1CMMMW**
	Lubricator OIL - VG32 - 1 Litre	**P3YKA00PPBB**

Options & Accessories

Port size	Description	Order Code
G1.1/2”	Connection flange kit	**P3ZKA1BCP**
G2”	Connection flange kit	**P3ZKA1CCP**
-	Wall mounting kit	**P3ZKA00MW**
-	Coupling kit	**P3ZKA00CB**
-	Coupling ‘O’ ring kit (5 off)	**P3ZKA0CCY**
-	Porting block kit (1”, 1/8” & 2 x 1/4” take off)	**P3ZMA1V0N**

- Very fast response times
- Accurate output pressure
- Micro parameter settings
- Selectable I/O parameters
- Quick, full flow exhaust
- LED display indicates output pressure
- No air consumption in steady state
- Multiple mounting options
- Protection to IP65
- P31P flows to 19 dm^3/s (40 scfm)
- P32P flows to 57 dm^3/s (120 scfm)

P31PA Series
Bottom exhaust

P32PA Series
Bottom exhaust

Order Key

P 3 ☐ P A ☐ ☐ ☐ ☐ 2 ☐ ☐ 1 A

Port size	
Global Mini (1/4")	**1**
Global Compact (1/2")	**2**

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

Port size	
Global Mini (1/4")	**2**
Global Compact (1/2")	**4**

Version	
Bottom ported exhaust NC	**A**
Bottom ported forced exhaust (NO) *	**E**

Pressure Range	
0 - 2 bar	**Z**
0 - 7 bar	**S**
0 - 10 bar	**D**

Power supply	
24 volts	**2**

Control Signal	
0-10 V	**V**
4-20 mA	**A**

Output Signal		
Digital, PNP	1)	**D**
PNP or 0-10V	2)	**P**
NPN or 0-10V	3)	**N**
4-20mA fixed	4)	**M**

Input connector	
M12 (4 pin)	**1**

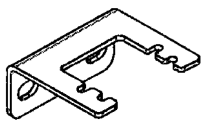
* When the supply voltage is lost the unit will automaticaly exhaust the regulated pressure to 0 bar (atmospheric pressure)

1) Digital PNP output only, no analogue output selectable
2) Digital PNP and analogue 0-10V outputs selectable, by means of parameter 6. (Factory default 0-10V)
3) Digital NPN and analogue 0-10 V outputs selectable by means of parameter 6. (Factory default 0-10V)
4) Analogue 4-20mA output only.

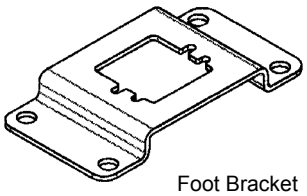
Note: On all analogue outputs the F.S. value can be adjusted by means of parameter 8

P31P Mounting brackets

Order Code	Description
P3HKA00ML	L-Bracket mounting kit
P3HKA00MC	Foot bracket mounting kit



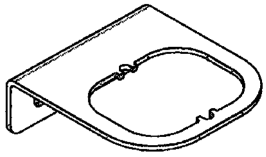
L-Bracket



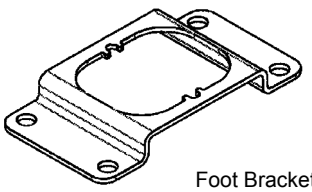
Foot Bracket

P32P Mounting brackets

Order Code	Description
P3KKA00ML	L-Bracket mounting kit
P3KKA00MC	Foot bracket mounting kit



L-Bracket



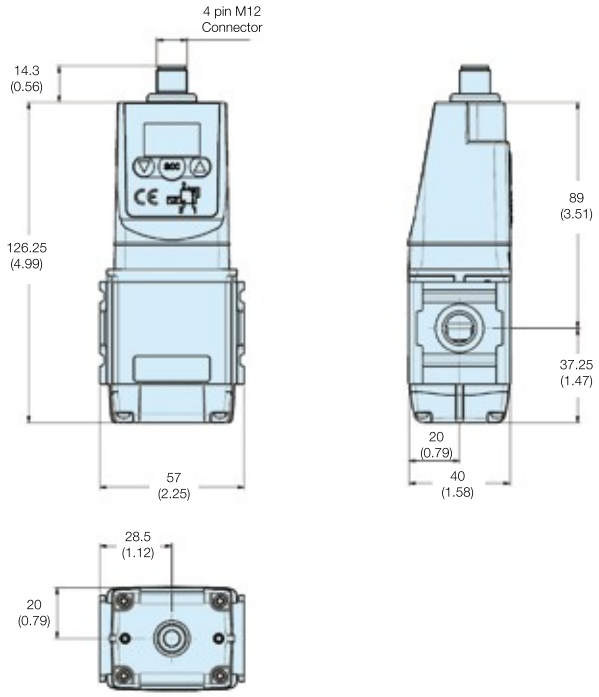
Foot Bracket

Cables

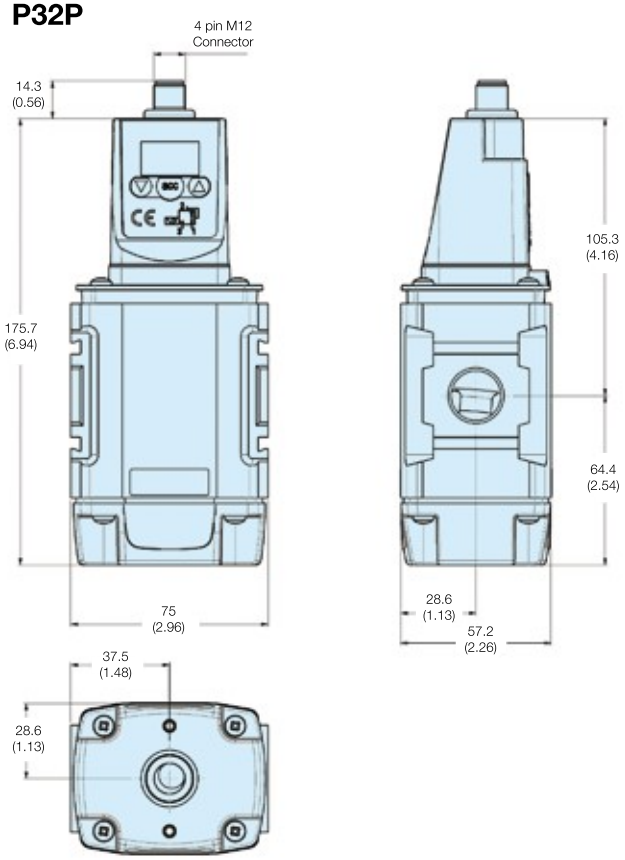
Order Code	Description
P8L-MC04A2A-M12	2 mtr. cable with moulded straight M12x1 connector
P8L-MC04R2A-M12	2 mtr. cable with moulded 90 degree M12x1 connector.

Note:
These brackets fit both Proportional Regulators and Combined Soft Start & Dump Valves.

P31P



P32P



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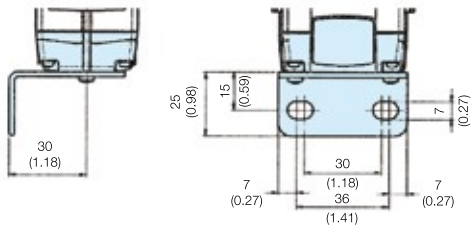

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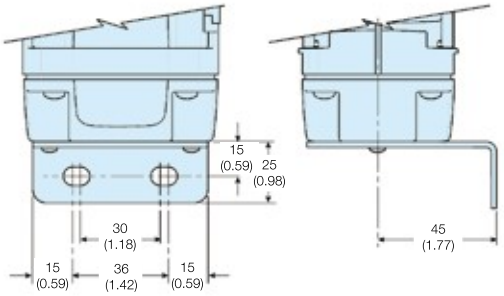
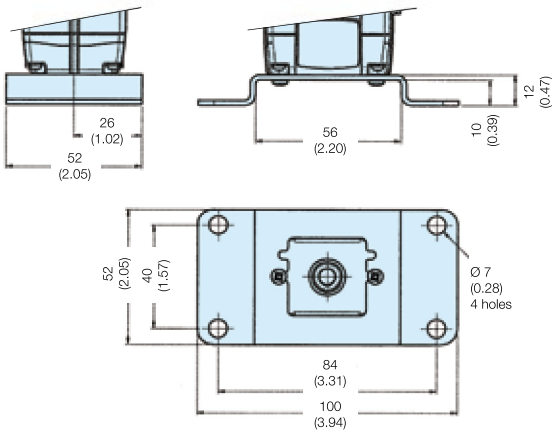
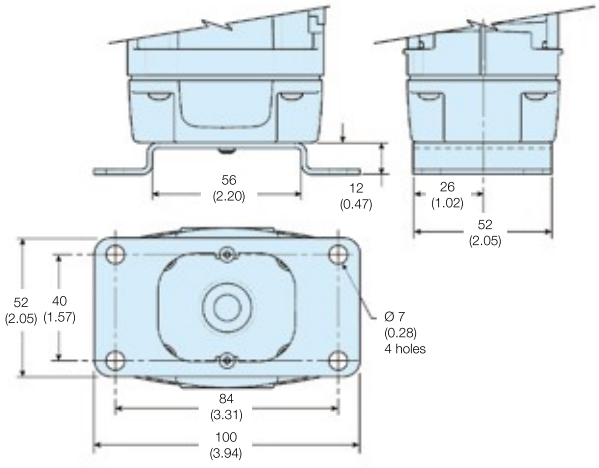


Foot Bracket



Foot Bracket

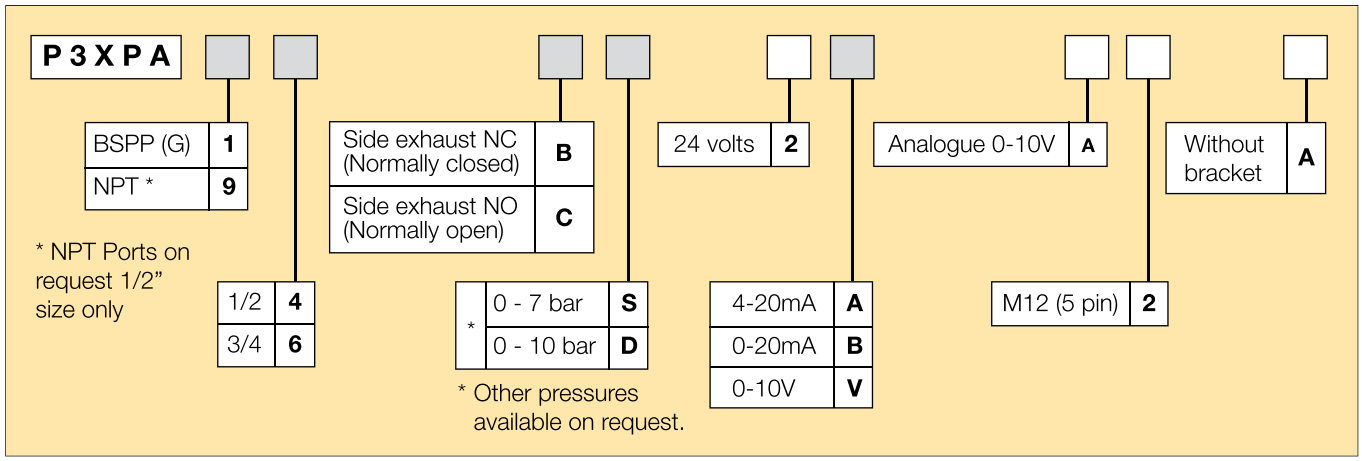


Dimensions are in mm (Inches)

P3X Proportional Pressure Regulator

- Integral 1/2” or 3/4” ports (BSPP & NPT)
- Accurate output pressure
- Very fast response times
- Robust but lightweight design.

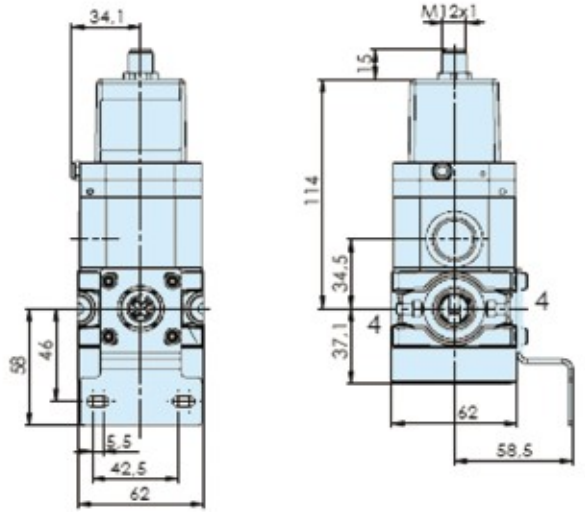
Options:



Popular options:

Port size	Description	Order Code	Control signal	Output signal	Output pressure	Weight kg
1/2	Normally closed	**P3XPA14BD2VA2A**	0 - 10 V	0 - 10 V	0 - 10 bar	0.75
3/4	Normally closed	**P3XPA16BD2VA2A**	0 - 10 V	0 - 10 V	0 - 10 bar	0.75

Dimensions (mm)



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

P3Y Proportional Pressure Regulator

- Integral 3/4 or 1” ports (BSPP & NPT)
- Accurate output pressure
- Very fast response times
- Robust but lightweight design.

Options:

P 3 Y P A □ □ □ □ □ □ □ □ □

BSPP (G)	**1**
NPT	**9**

3/4	**6**
1”	**8**

Side exhaust NC (Normally closed)	**B**
Side exhaust NO (Normally open)	**C**

0 - 7 bar *	**S**
0 - 10 bar *	**D**

* Other pressures available on request.

24 volts	**2**

4-20mA	**A**
0-20mA	**B**
0-10V	**V**

Analogue 0-10V	**A**

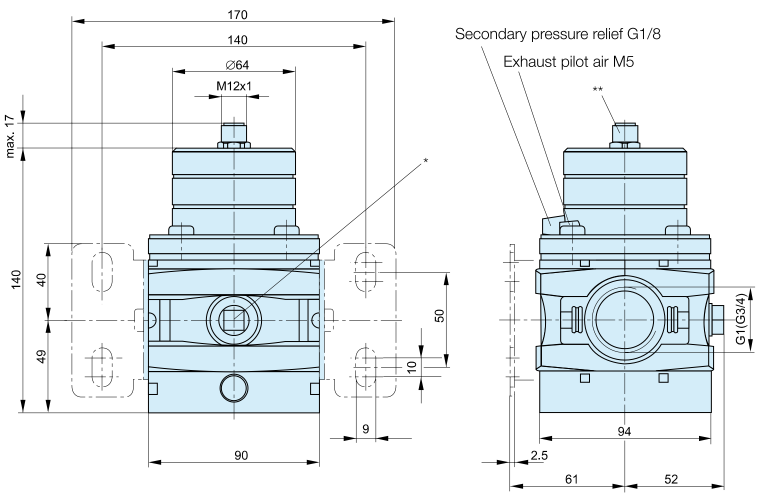
M12 (5 pin)	**2**

Without bracket	**A**

Popular options:

Port size	Description	Order Code	Control signal	Output signal	Output pressure	Weight kg
3/4	Normally closed	**P3YPA16BD2VA2A**	0 - 10 V	0 - 10 V	0 - 10 bar	1.2
1”	Normally closed	**P3YPA18BD2VA2A**	0 - 10 V	0 - 10 V	0 - 10 bar	1.2

Dimensions (mm)

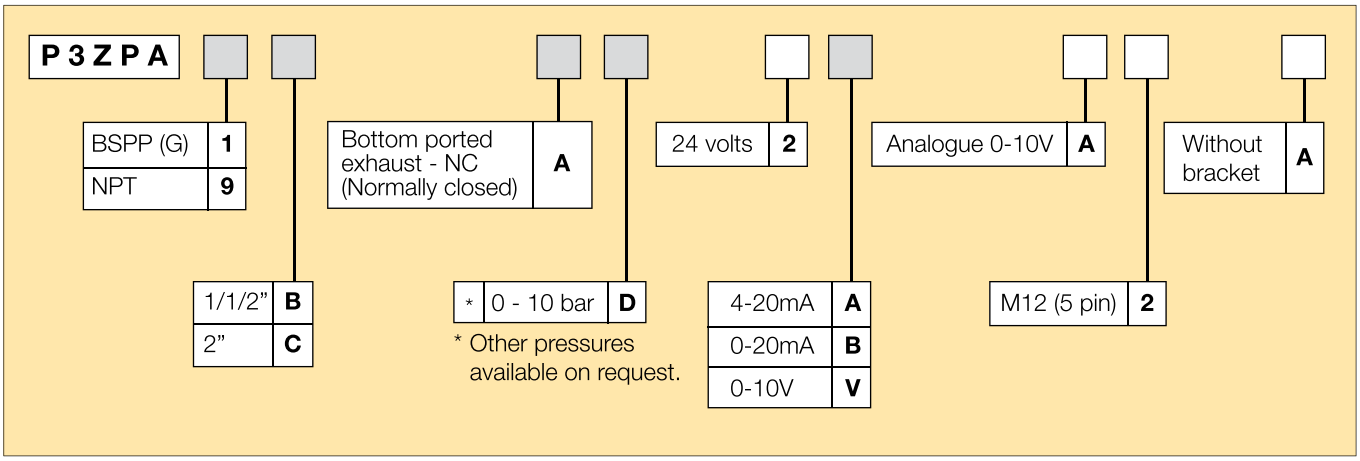


* Two opposite gauge ports G1/4, plug screw mounted
** Connection for 5-pin plug M12 x 1

P3Z Proportional Pressure Regulator

- Flanged 1-1/2” or 2” ports (BSPP & NPT)
- Accurate output pressure
- Very fast response times
- Robust die-cast aluminium construction

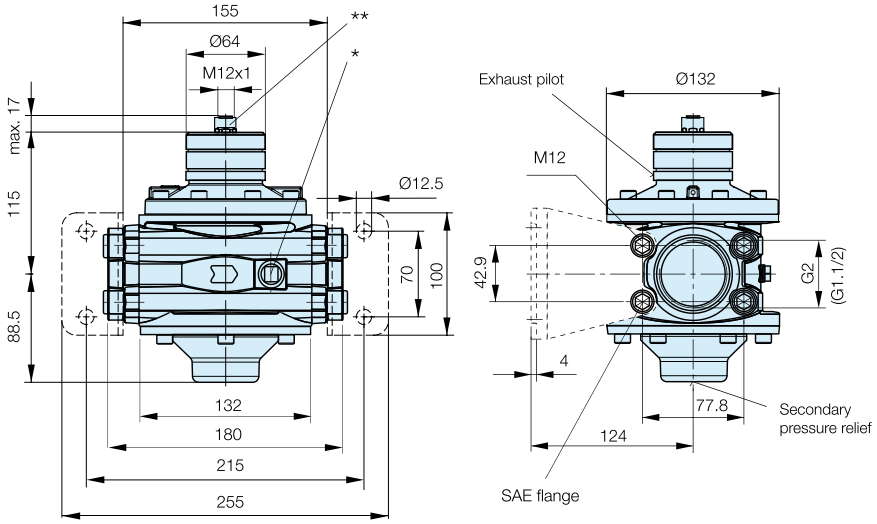
Options:



Popular options:

Port size	Description	Order Code	Control signal	Output signal	Output pressure	Weight kg
1-1/2”	Normally closed	**P3ZPA1BAD2VA2A**	0 - 10 V	0 - 10 V	0 - 10 bar	1.2
2”	Normally closed	**P3ZPA1CAD2VA2A**	0 - 10 V	0 - 10 V	0 - 10 bar	1.2

Dimensions (mm)



* Two opposite gauge ports G1/4, plug screw mounted

** Connection for 5-pin plug M12 x 1

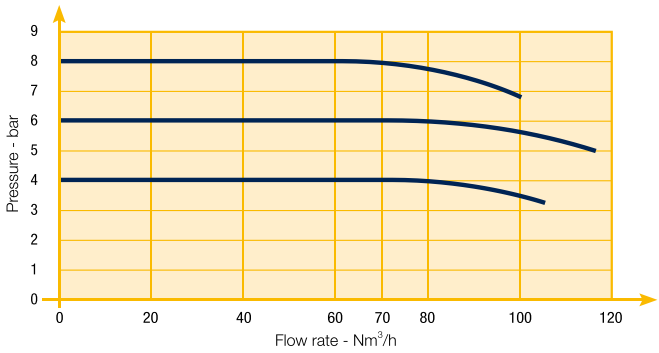
Lucifer® EPP4 Basic and Comfort 1/4" and 1/2" Technical Data

	Basic 1/4"	Basic 1/2"
Fluids:	Lubricated or non lubricated air and neutral gases Recommended filtration: 50 µm	
Temperature range:	Ambient: 0°C to +50 °C Fluid: 0°C to +50 °C	
Inlet pressure range: The inlet pressure must always be at least 1 bar above the regulated pressure.	1 to 12 bar	1 to 12 bar
Outlet pressure range:	0.05 to 10 bar	
Hysteresis:	± 50 mbar (factory set up)	
Air consumption at constant control signal:	0	
Supply voltage:	24 V DC ± 15 % (Max. ripple 1 V)	
Power consumption:	Max. 2.8 W with 24 V DC and constant changes of the control signal < 1.5 W without change of control signal	
Control signal:	Analog 0 - 10 V Analog 4 - 20 mA	
Max. flow: Indicative response time: With a volume of 300 cm^3 at the outlet of the regulator	70 m^3/h	150 m^3/h
Filling 2 to 4 bar: Filling 2 to 8 bar: Emptying 4 to 2 bar: Emptying 8 to 2 bar:	50 msec 100 msec 70 msc 130 msc	60 msec 120 msec 90 msec 190 msc
Safety position:	In case of control signal failure or if it is less than 50mV, the regulated pressure drops automatically to 0 bar (atmospheric pressure). In case of voltage supply failure, the regulated pressure will be kept constant.	
Electrical connection:	M12 - 4 pin; 4 x 0.34 mm^2	
Life expectancy:	> 50 Million changes of control signal steps	
Mounting position:	Indifferent (recommended position: upright; electronic part on top)	
Resistance to vibrations:	30 g in all directions	
Degree of protection:	IP 65	
Assembly:	Silicone free	
Electromagnetic compatibility: In accordance with:	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 EN 61000-6-4: 2001	
Installation and setting instructions:	See our "Notice 408038, 408014" and appendix supplied with the product.	

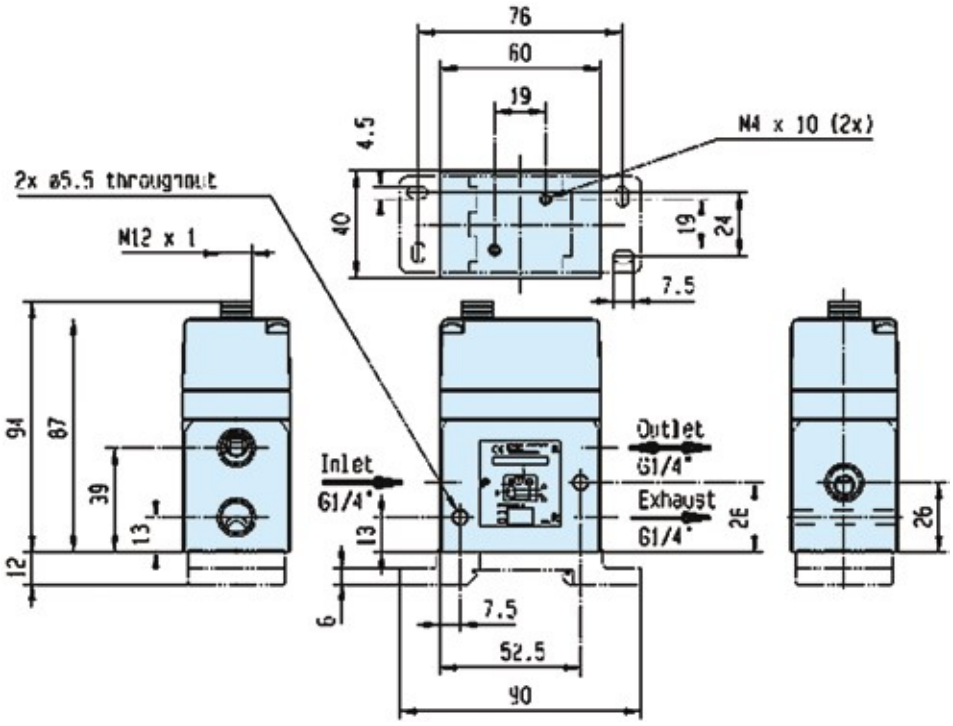
Note: Parker reserves the right to change specifications without notification.

EPP4 Pressure Regulator Basic G 1/4"

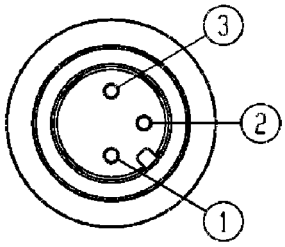
Flow Curve 1/4"

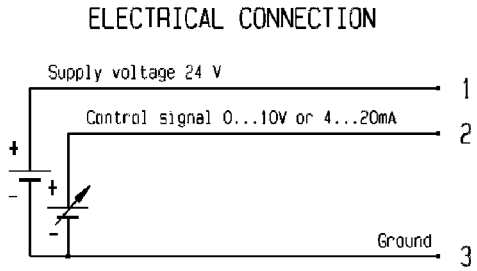


Dimensions



The male connector adopted on the EPP4 is a standard 4 pole M12, without the pin number 4:

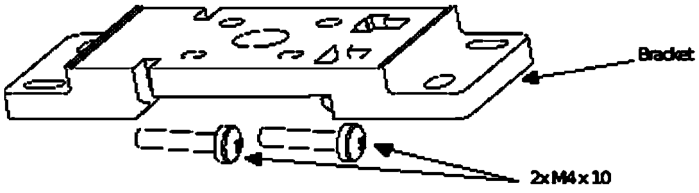




The female connector to mount is the 4 pole M12 connector (IEC 61076-2-101 model LF) where the pin number 4 is not connected.

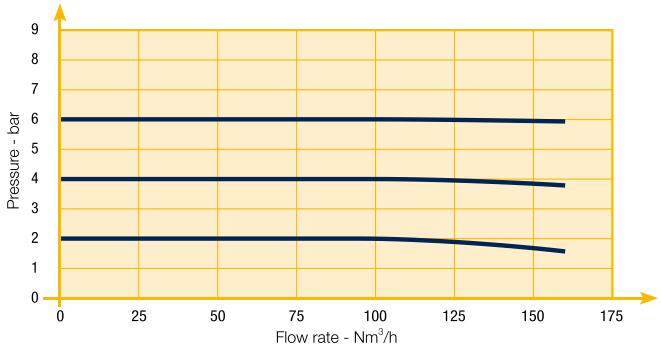
Accessories

Mounting bracket
(automatically supplied with each EPP4)

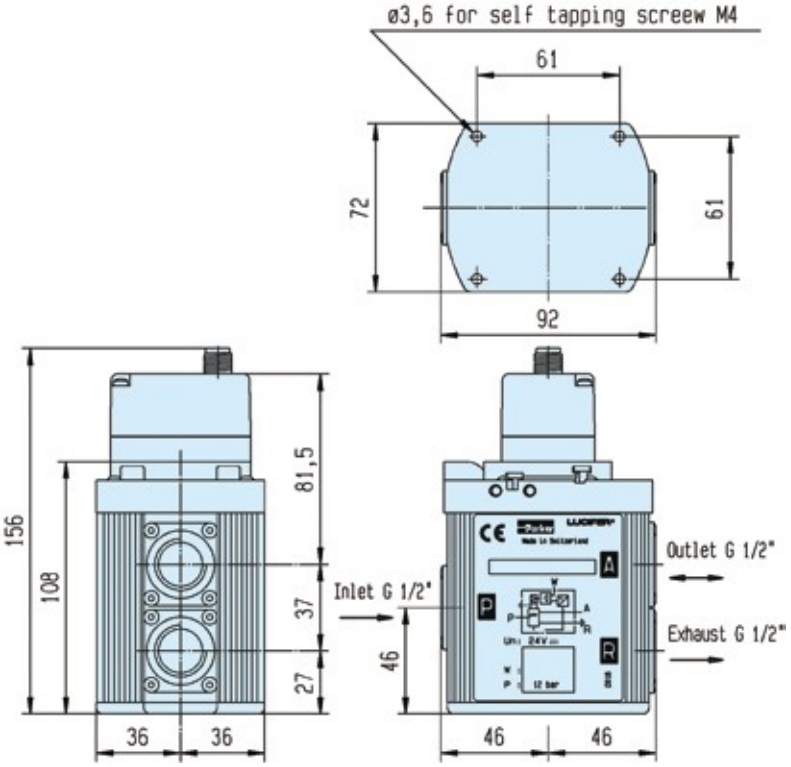


EPP4 Pressure Regulator Basic G 1/2"

Flow Curve 1/2"



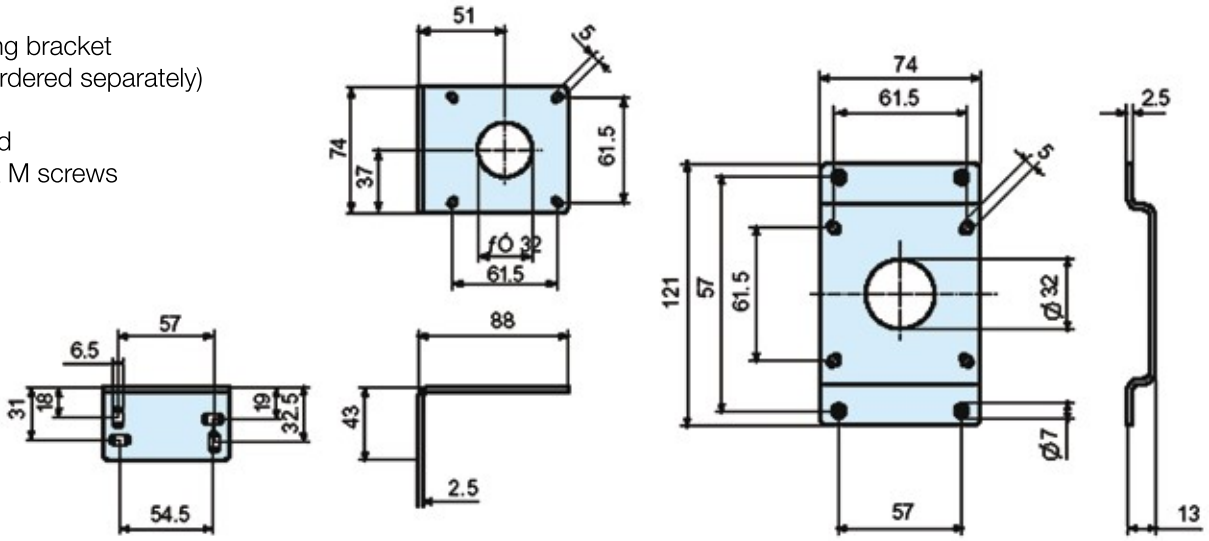
Dimensions



Accessories

Mounting bracket
(to be ordered separately)

Supplied
with 4 x M screws



491367 **491366**

EPP4 Pressure Regulator Basic
G 1/4" and G 1/2"

Order code	Pipe	Pressure Range (bar)	Control Signal (see options)
P4BG2001A001	G 1/4”	0 4 bar	4 - 20 mA
P4BG2001A002	G 1/4"	0 10 bar	0 - 10 V
P4BG2001A003	G 1/4"	0 10 bar	4 - 20 mA
P4BG2001A004	G 1/4"	0 6 bar	0 - 10 V
P4BG2001A005	G 1/4"	0 6 bar	4 - 20 mA
P4BG2001A006	G 1/4"	0 5 bar	0 - 10 V
P4BG2001A007	G 1/4"	0 5 bar	4 - 20 mA
P4BG2001A008	G 1/4"	0 7 bar	0 - 10 V
P4BG2001A009	G 1/4"	0 7 bar	4 - 20 mA
P4BG2003A002 *	G 1/4”	0 10 bar	0 - 10 V
P4BG2003A003 *	G 1/4”	0 10 bar	4 - 20 mA
P4BG4001A002	G 1/2"	0 10 bar	0 - 10 V
P4BG4001A003	G 1/2"	0 10 bar	4 - 20 mA
P4BG4001A004	G 1/2"	0 6 bar	0 - 10 V
P4BG4001A005	G 1/2"	0 6 bar	4 - 20 mA
P4BG4001A006	G 1/2”	0 5 bar	0 - 10 V
P4BG4001A007	G 1/2”	0 5 bar	4 - 20 mA
P4BG4001A008	G 1/2"	0 7 bar	0 - 10 V
P4BG4001A009	G 1/2"	0 7 bar	4 - 20 mA
P4BG4004A010 ***	G 1/2”	0 4 bar	0 - 10 V
P4BG4051A002 **	G 1/2”	0 10 bar	4 - 20 mA
P4BN2001A002	NPT 1/4”	0 10 bar	4 - 20 mA
P4BN2001A003	NPT 1/4”	0 10 bar	0 - 10 V
P4BN4001A002	NPT 1/2”	0 10 bar	4 - 20 mA
P4BN4001A003	NPT 1/2”	0 10 bar	0 - 10 V

* Integrated pilot exhaust
** O2
*** External pressure supply

Lucifer® EPP4 Comfort 1/4" and 1/2"

References

Order code	Pipe	Pressure Range (bar)		Control Signal (see options)	Display
P4CG2001C001	G 1/4	0	10	0-10 V	-
P4CG2001C002	G 1/4	0	10	4-20 mA	-
P4CG2001C005	G 1/4	0	7	0-10 V	-
P4CG2001C006	G 1/4	0	7	4-20 mA	-
P4CG2002C001	G 1/4	0	10	0-10 V	included
P4CG2002C002	G 1/4	0	10	4-20 mA	included
P4CG2003C001 *	G 1/4	0	10	0-10 V	-
P4CG2003C002 *	G 1/4	0	10	4-20 mA	-
P4CG2002C007	G 1/4	0	7	0-10 V	included
P4CG2002C008	G 1/4	0	7	4-20 mA	included
P4CN2001C001	1/4 NPT	0	10	0-10 V	-
P4CN2001C002	1/4 NPT	0	10	4-20 mA	-
P4CN2002C001	1/4 NPT	0	10	0-10 V	included
P4CN2002C002	1/4 NPT	0	10	4-20 mA	included
P4CG4001C001	G 1/2	0	10	0-10 V	-
P4CG4001C002	G 1/2	0	10	4-20 mA	-
P4CG4001C005	G 1/2	0	7	0-10 V	-
P4CG4001C006	G 1/2	0	7	4-20 mA	-
P4CG4002C001	G 1/2	0	10	0-10 V	included
P4CG4002C002	G 1/2	0	10	4-20 mA	included
P4CG4002C005	G 1/2	0	7	0-10 V	included
P4CG4002C006	G 1/2	0	7	4-20 mA	included
P4CG4051C001 **	G 1/2	0	10	0-10 V	-
P4CG4051C002 **	G 1/2	0	10	4-20 mA	-
P4CN4001C001	1/2 NPT	0	10	0-10 V	-
P4CN4001C002	1/2 NPT	0	10	4-20 mA	-
P4CN4002C001	1/2 NPT	0	10	0-10 V	included
P4CN4002C002	1/2 NPT	0	10	4-20 mA	included

* Integrated pilot exhaust
** O2

Lucifer® EPP4 Comfort 1/2" High Pressure, 1"and 2" Technical Data

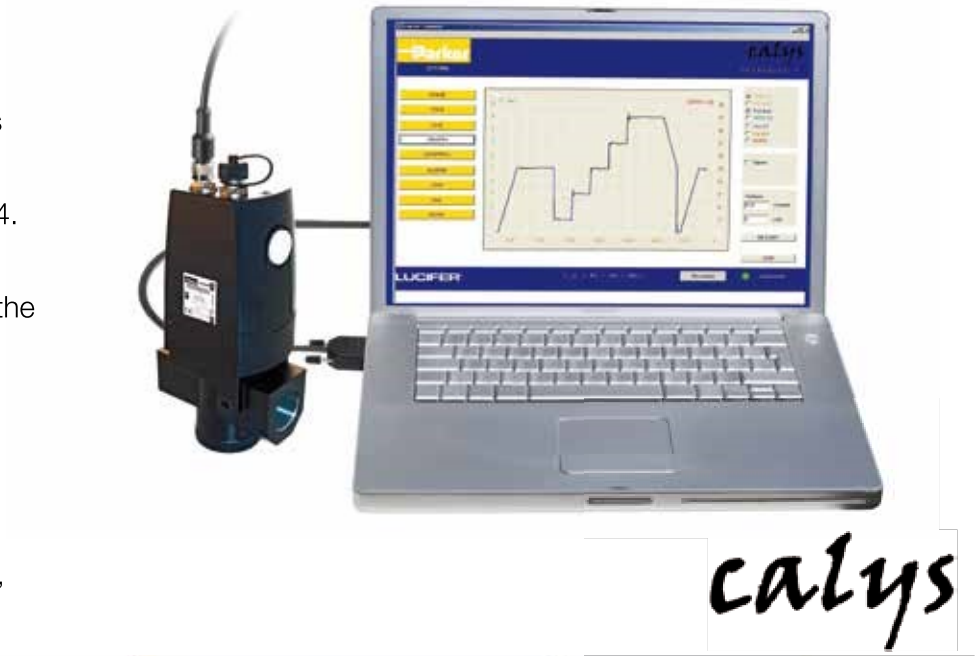
	Comfort 1/2" HP	Comfort 1"	Comfort 2"
Fluids:	Lubricated or non lubricated air and neutral gases - Recommended filtration: 50 µm		
Temperature range:	Ambient: 0°C to +50°C Fluid: 0°C to +50°C		
Inlet pressure range: The inlet pressure must always be at least 1 bar above the regulated pressure.	1 to 21 bar	1 to 21 bar	1 to 12 bar
Outlet pressure range:	0.05 to 20 bar	0.05 to 20 bar	0.05 to 10 bar
Hysteresis:	≤ 100 mbar if P inlet ≤ 10 bar ≤ 200 mbar if P inlet > 10 bar		
Air consumption at constant control signal:	0		
Supply voltage:	24V DC ± 15%		
Power consumption:	Max. 6 W with 24 V DC and constant changes of thecontrol signal < 2 W without change of control signal		
Control signal:	Analog 0 - 10 V Analog 4 - 20 mA		
Outlet sensor signal:	Analog 0 - 10 V Standard for 0 - 10 bar; Adjustable Analog 4 - 20 mA Standard for 0 - 10 bar; Adjustable		Digital 0/24 V for alarm features: Adjustable pressure error (+/-) Adjustable delay ON Adjustable delay OFF Adjustable logic (+/-)
Max. flow:	150 m^3/h	1 000 m^3/h	2 700 m^3/h
Indicative response time:	With a volume of 330 cm^3 at the outlet of the regulator		
Filling 2 to 8 bar: Emptying 8 to 2 bar:	120 msec 190 msc	250 msec 400 msc	250 msec 400 msc
Safety position:	In case of control signal failure or if it is less than 50 mV, the regulated pressure drops automatically to 0 bar atmospheric pressure (for pressure ranges from 0-10 bar, 100 mV for pressure range over 10 bar). In case of voltage supply failure, the regulated pressure will be kept constant.		
Electrical connection:	M12 - 8 pin; male connector power supply/control signal M12 - 5 pin; male connector communication		
Life expectancy:	> 20 Million changes of control signal steps		
Mounting position:	Indifferent (recommended position: upright; electronic part on top)		
Resistance to vibrations:	30 g in all directions		
Degree of protection:	IP 65		
Assembly:	Silicone free		
Electromagnetic compatibility: In accordance with:	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 + A11 2004 edition (01/07/07) EN 61000-6-4: 2001		
Installation and setting instructions:	See our "408 193" and appendix supplied with the product.		

Note: Parker reserves the right to change specifications without notification.

Lucifer® EPP4 Comfort Options

Calys Software

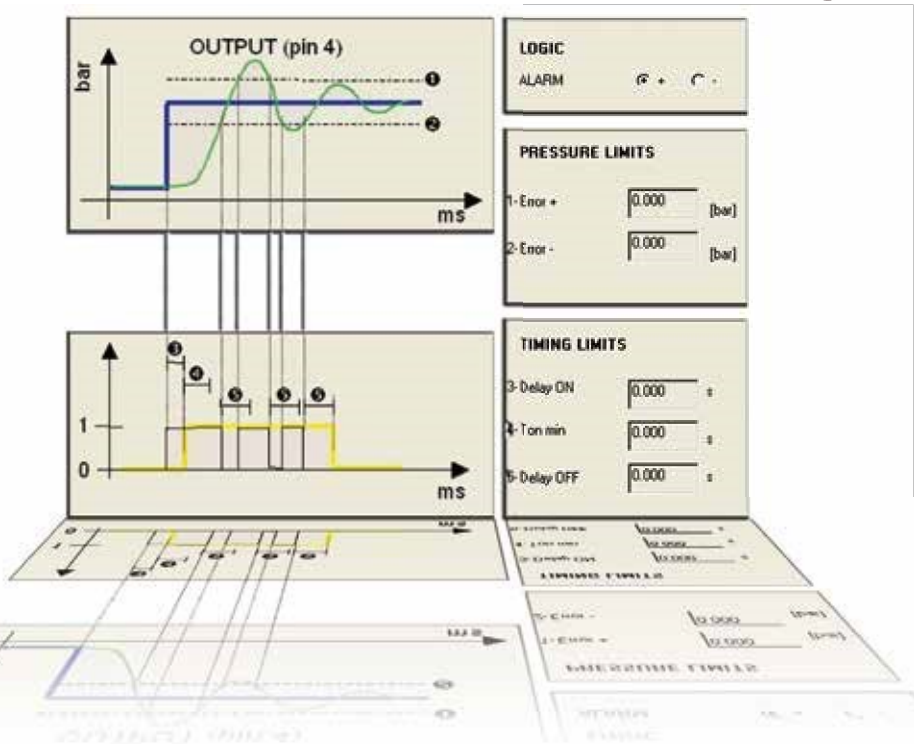
Calys is a unique software in house developed to configurate all the parameters of the EPP4 Comfort range. Calys is an option of the EPP4. A specific cable is needed for the communication between the EPP4 and a PC.



Calys offers the following features:

- Live monitoring (control signal, regulated pressure, supply voltage,…)
- Recording of the main parameters (control signal, regulated pressure, supply voltage,…) in an Excel file
- Free calibration for the inputs and outputs
- Adjustable alarm (positive-negative, pressure limits, delays)
- Configuration files easy to duplicate
- Complete and interactive help file
- Data in 4 different pressure units
- Menus in 4 languages (English, German, French and Italian)

calys



Specific communication cable PC-EPP4 with RS232 and USB connection

Order Reference 496449

To download free Calys software click on **www.parker.com/FCDE/Support**

Lucifer® EPP4 Comfort 1/2" HP, 1" and 2"

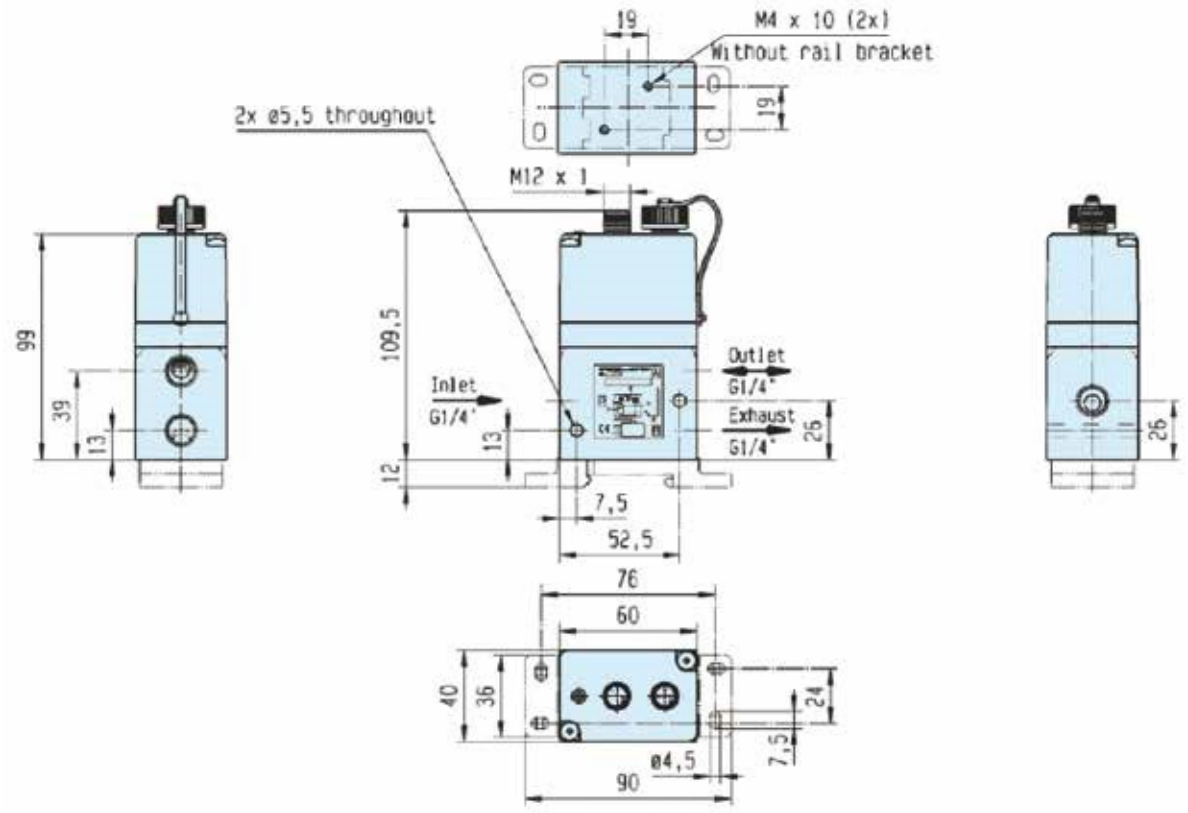
References

Order code	Pipe	Max inlet pressure (bar)	Pressure range (bar)		Control signal (see options)
P4CG4101D001	G1/2	15	0	12	0-10 V
P4CG4201D005	G1/2	21	0	16	0-10 V
P4CG4201D003	G1/2	21	0	20	0-10 V
P4CG4201D004	G1/2	21	0	20	4-20 mA
P4CG6101C009	G1	12	0	3.5	4-20 mA
P4CG6101C011	G1	12	0	5.0	0-10 V
P4CG6101C010	G1	12	0	6.0	4-20 mA
P4CG6101C001	G1	12	0	10	0-10 V
P4CG6101C002	G1	12	0	10	4-20 mA
P4CG6201D001	G1	21	0	12	-
P4CG6201D003	G1	21	0	20	0-10 V
P4CG9101C012	G2	12	0	4.0	4-20 mA
P4CG9101C010	G2	12	0	6.0	4-20 mA
P4CG9101C001	G2	12	0	10	0-10 V
P4CG9101C002	G2	12	0	10	4-20 mA

Other specific settings or specialties are available, please contact us.

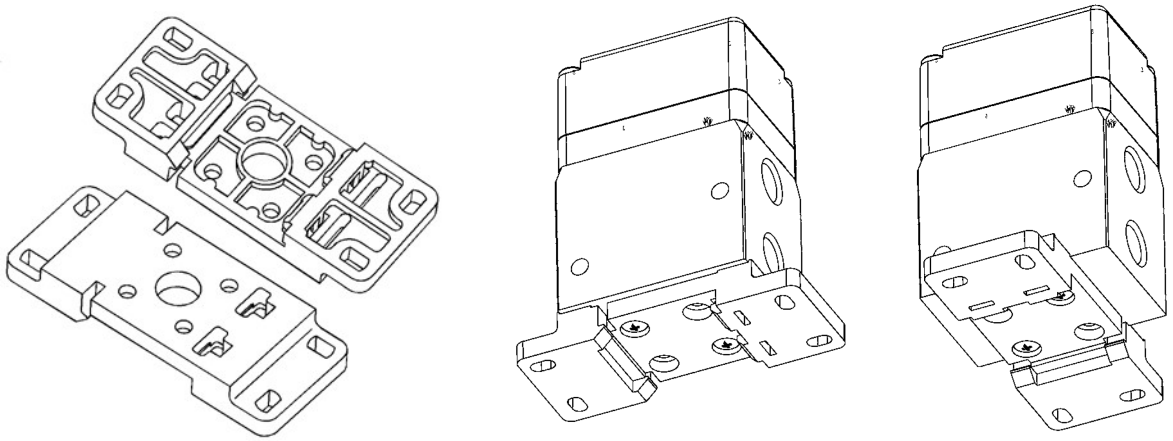
Lucifer® EPP4 Comfort Range 1/4"

Dimensions



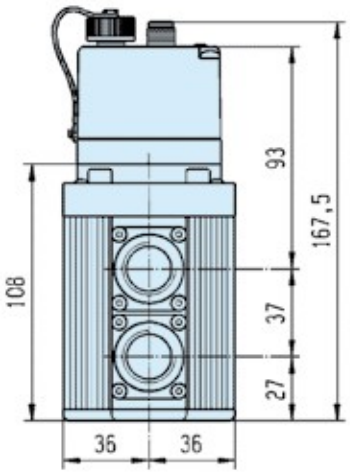
Accessories

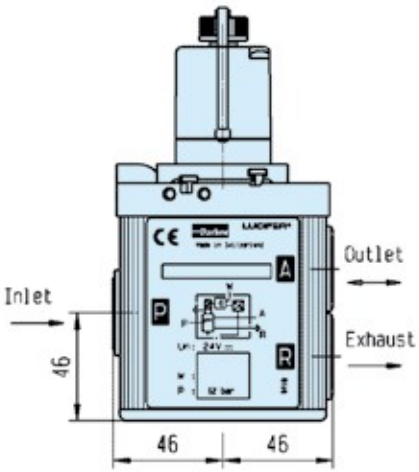
Mounting bracket
(supplied as a standard with each Lucifer® EPP4 1/4")

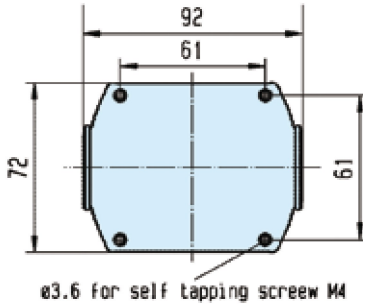


Lucifer® EPP4 Comfort Range 1/2"

Dimensions

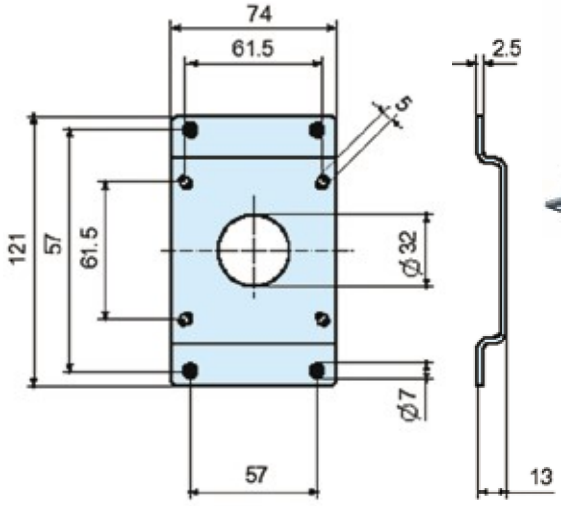


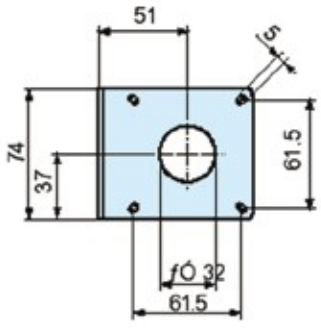


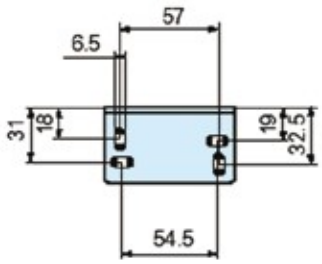


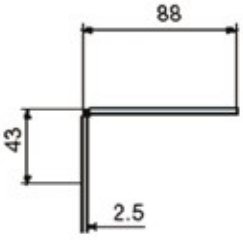
Accessories

Mounting brackets to be ordered separately







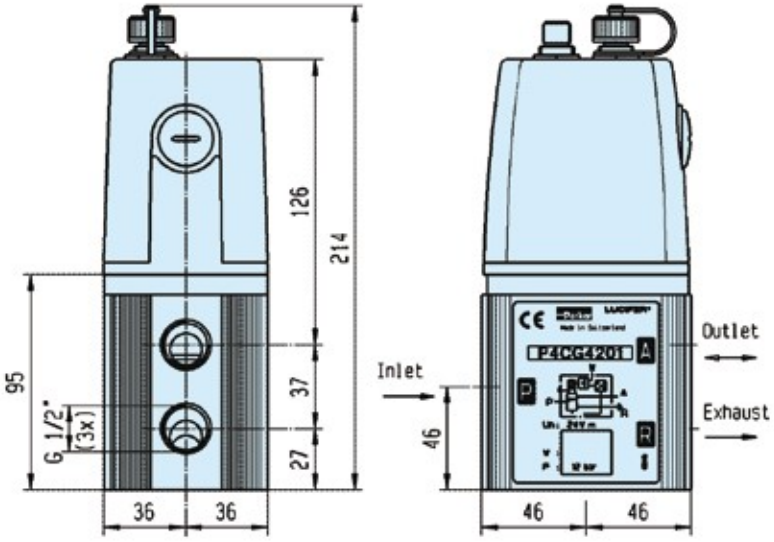


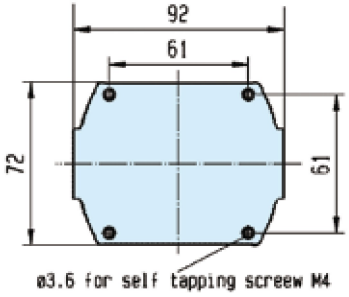
Order reference 491366

Order reference 491367

Lucifer® EPP4 Comfort Range 1/2"
High Pressure 21 bar

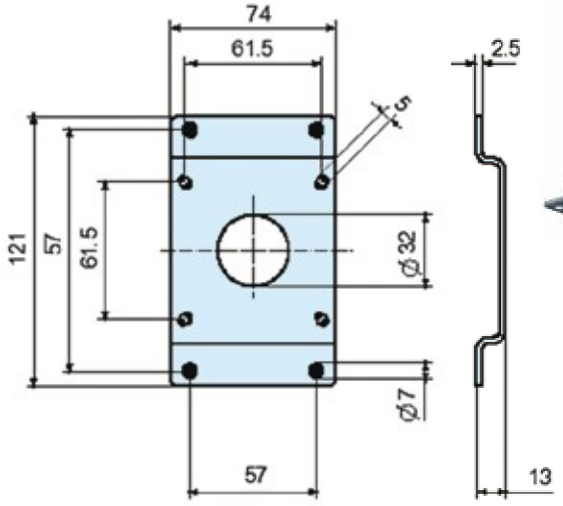
Dimensions

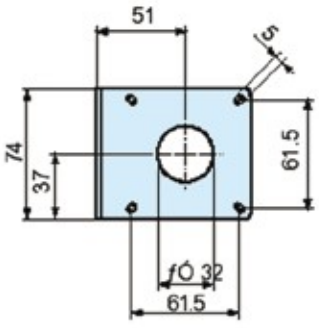


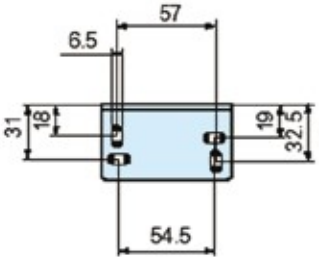


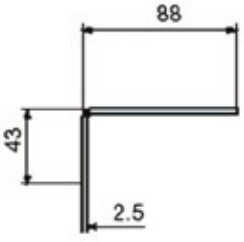
Accessories

Mounting brackets to be ordered separately







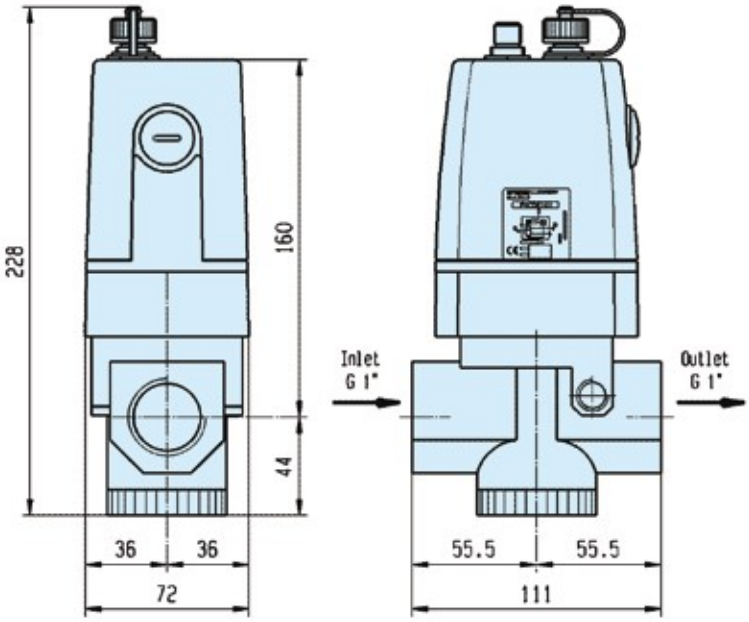


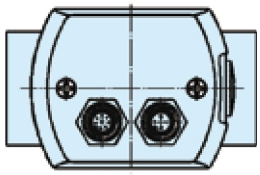
Order reference 491366

Order reference 491367

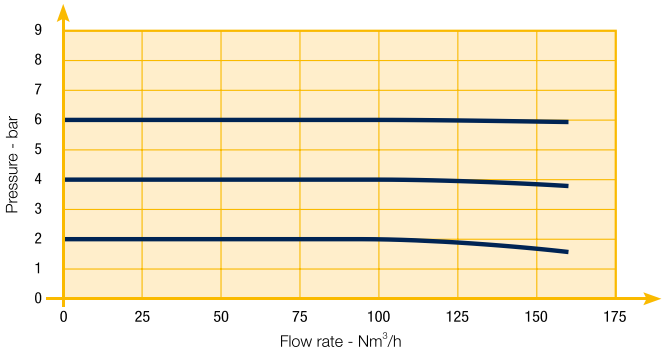
Lucifer® EPP4 Comfort Range 1"

Dimensions

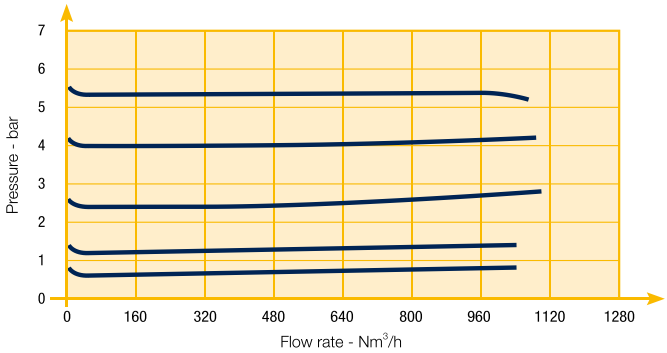




Flow Curve 1/2"

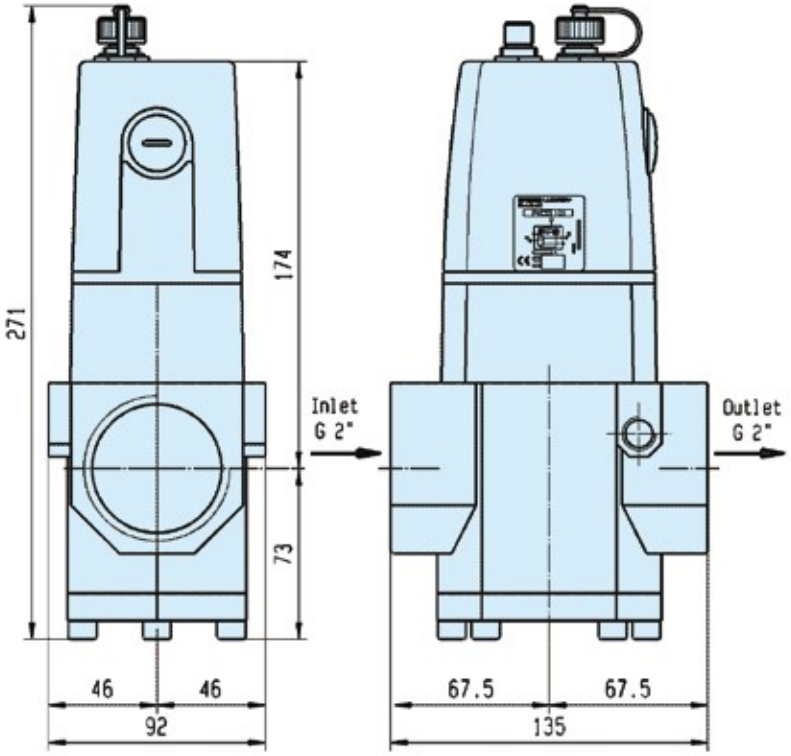


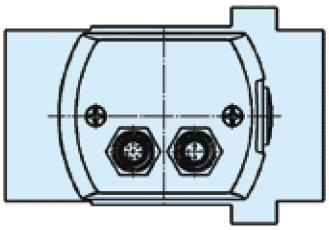
Flow Curve 1"



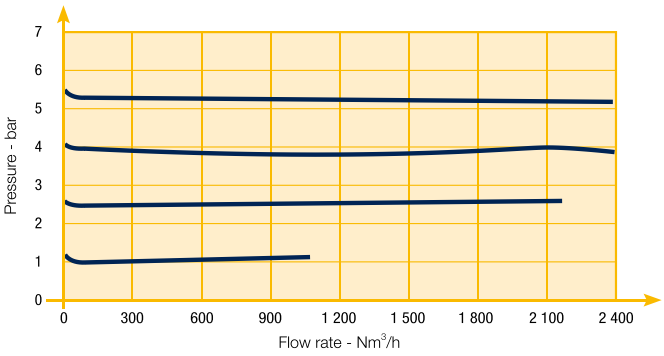
Lucifer® EPP4 Comfort Range 2"

Dimensions





Flow Curve 2"

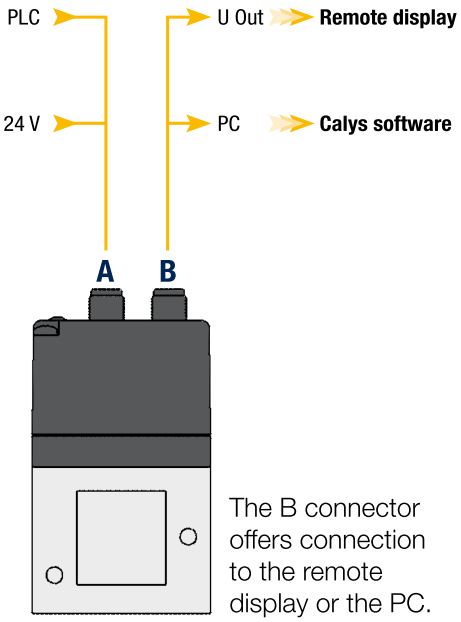


Lucifer® EPP4 Comfort Options

Additional Features

The EPP4 Comfort offers two main options - a remote display and a software to easily set the regulator's parameters.

These are the key feature options for a comfortable use.



The B connector offers connection to the remote display or the PC.

- A remote display connected to the pressure regulator offers flexible monitoring.
- A panel mounting kit is available to install the remote display.
- Calys is an easy-to-use software package designed to allow the user to match their regulators performance directly to their specific application.
- A power supply and control signal cable.

Lucifer® EPP4 Comfort 1/4" & 1/2"

Technical Data

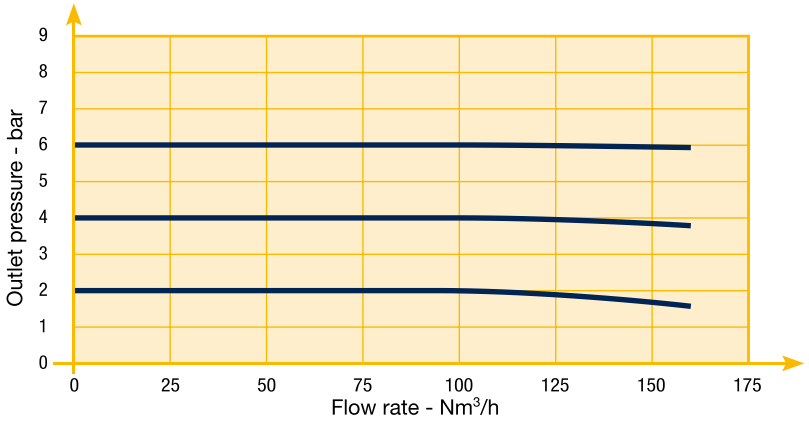
	Comfort 1/4"	Comfort 1/2"
Fluids:	Lubricated or non lubricated air and neutral gases - Recommended filtration: 50 µm	
Temperature range:	Ambient: 0°C to +50 °C Fluid: 0°C to +50 °C	
Inlet pressure range: **The inlet pressure must always be at least 1 bar above the regulated pressure.**	1 to 12 bar	1 to 12 bar
Outlet pressure range:	0.05 to 10 bar	
Hysteresis:	± 50 mbar (factory set up)	
Air consumption at constant control signal:	0	
Supply voltage:	24 V DC ± 15 % (Max. ripple 1 V)	
Power consumption:	Max. 2.8 W with 24 V DC and constant changes of the control signal < 1.5 W without change of control signal	
Control signal:	Analog 0 - 10 V Analog 4 - 20 mA	
Outlet sensor signal:	Analog 0 - 10 V Standard for 0 - 10 bar; Adjustable Analog 4 - 20 mA Standard for 0 - 10 bar; Adjustable	Digital 0/24 V for alarm features: Adjustable pressure error (+/-) Adjustable delay ON Adjustable delay OFF Adjustable logic (+/-)
Max. flow:	70 m^3/h	150 m^3/h
Indicative response time:	With a volume of 330 cm^3 at the outlet of the regulator	
Filling 2 to 4 bar : **Filling 2 to 8 bar:** **Emptying 4 to 2 bar:** **Emptying 8 to 2 bar:**	50 msec 100 msec 70 msc 130 msc	60 msec 120 msec 90 msec 190 msc
Safety position:	In case of control signal failure or if it is less than 50 mV, the regulated pressure drops automatically to 0 bar (atmospheric pressure). In case of voltage supply failure, the regulated pressure will be kept constant.	
Electrical connection:	M12 - 8 pin; male connector power supply/control signal M12 - 5 pin; male connector communication	
Life expectancy:	> 50 Million changes of control signal steps	
Mounting position:	Indifferent (recommended position: upright; electronic part on top)	
Resistance to vibrations:	30 g in all directions	
Degree of protection:	IP 65	
Assembly:	Silicone free	
Electromagnetic compatibility: **In accordance with:**	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 + A11 2004 edition (01/07/07) EN 61000-6-4: 2001	
Installation and setting instructions:	See our "Notice 408128, 408134" and appendix supplied with the product.	

Note: Parker reserves the right to change specifications without notification.

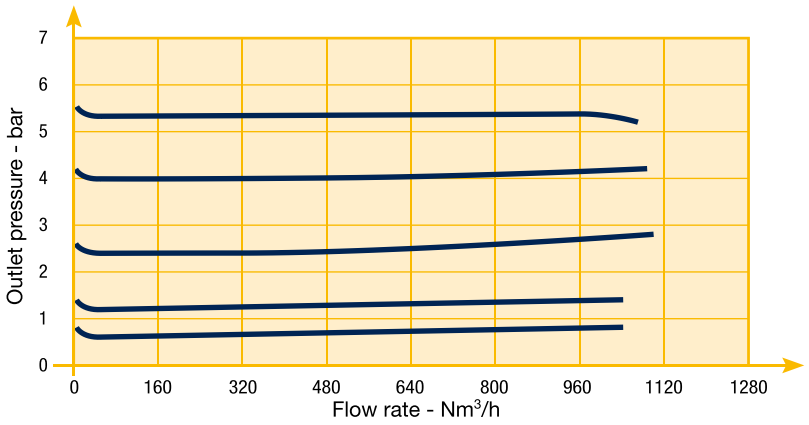
Lucifer® EPP4 Comfort 1/2", 1" & 2" ATEX

Flow Curves

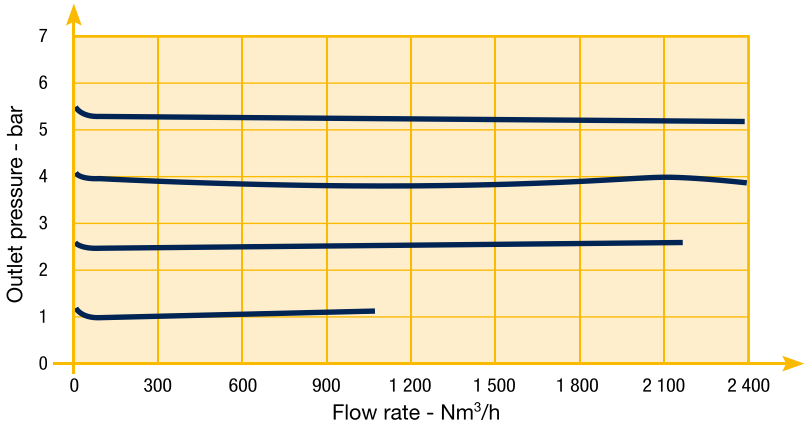
Flow Curve 1/2"



Flow Curve 1"



Flow Curve 2"



Lucifer® EPP4 Comfort 1/2" ATEX

References

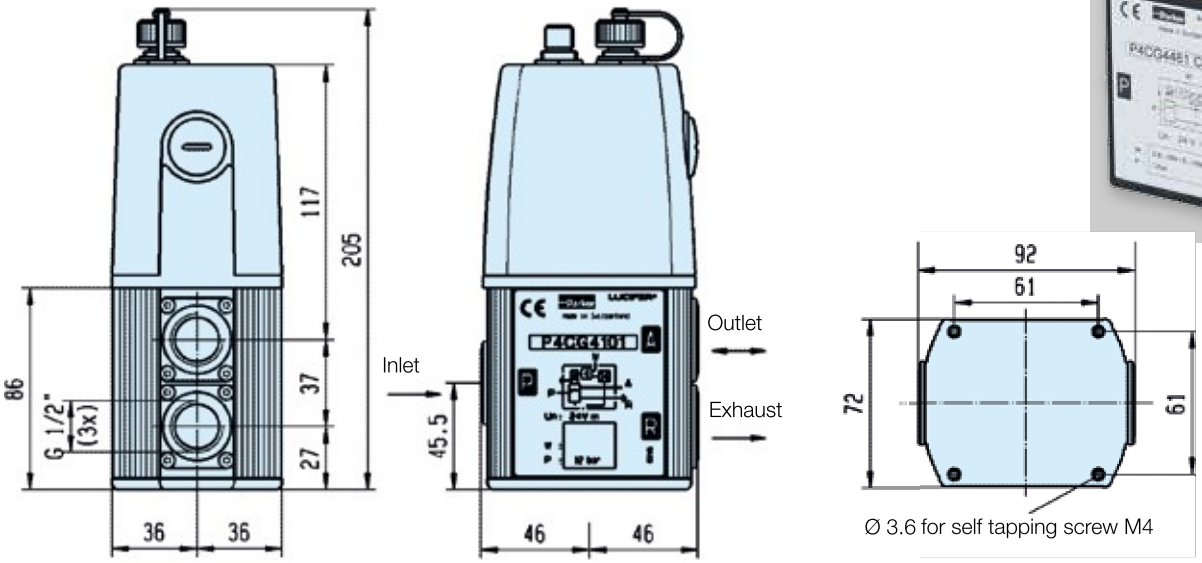
Codes	Pipe	Max inlet pressure (bar)	Pressure range (bar)		Control signal (see options)	Dimensional Drawing
P4CG4461C001	G1/2	12	0	10	0-10 V	9
P4CG4461C002	G1/2	12	0	10	4-20 mA	9
P4CG4465C001 **	G1/2	12	0	10	0-10 V	9
P4CG4465C002 **	G1/2	12	0	10	4-20 mA	9

** O2

Other specific settings or specialties are available, please contact us.

Lucifer® EPP4 Comfort 1/2" ATEX

Dimensions (mm)



Drawing 9

Lucifer® EPP4 Comfort 1” & 2" ATEX

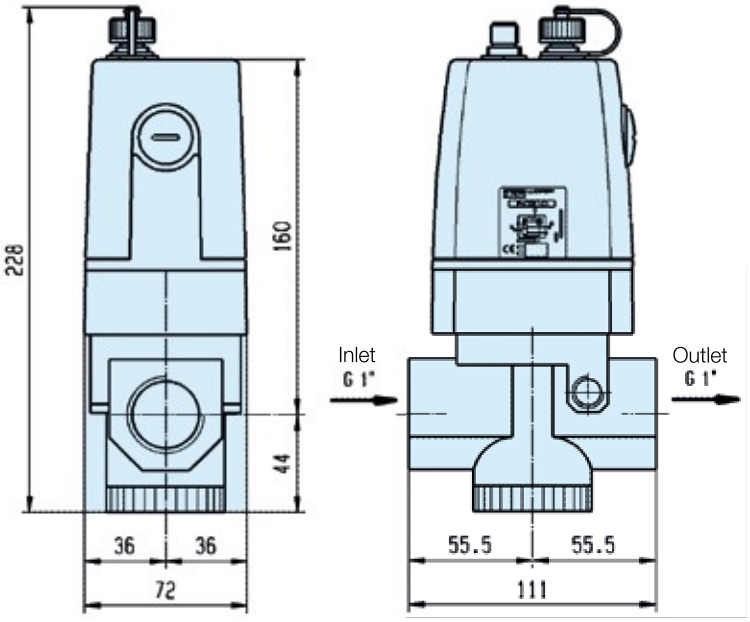
References

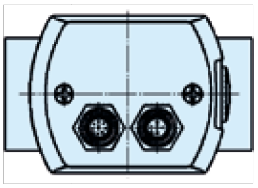
Codes	Pipe	Max inlet pressure (bar)	Pressure range (bar)		Control signal (see options)	Dimensional Drawing
P4CG6161C001	G1	12	0	10	0-10 V	11
P4CG6161C002	G1	12	0	10	4-20 mA	11
P4CG9161C001	G2	12	0	10	0-10 V	12
P4CG9161C002	G2	12	0	10	4-20 mA	12

Other specific settings or specialties are available, please contact us.

Lucifer® EPP4 Comfort 1” & 2” ATEX

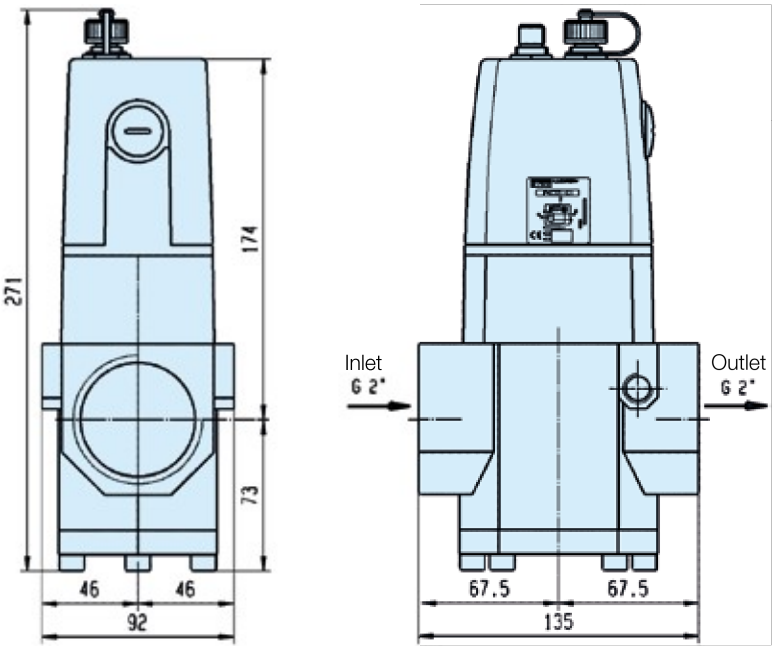
Dimensions (mm) - EPP4 Comfort Range 1”

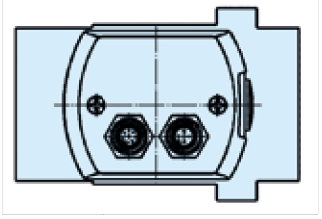




Drawing 11

Dimensions (mm) - EPP4 Comfort Range 2”





Drawing 12

Parker Angle Seat Valves

Introduction

An angle seat valve is actuated by a pneumatically driven piston and is capable to handle slurry solutions with particles or corrosive solutions at high temperature up to 180°C and operating pressure up to 16 Bar.

Benefits

- Compact design, high flow rates
- Visual position indicator
- For temperatures from -10°C to 180°C
- Working pressures up to 16 Bar
- Dampened closing anti-water hammer design (fluid under seat)
- Stainless Steel actuator housing for exceptional durability in steam and aggressive applications
- Valves meeting Pressure Equipment Directive 97/23/EC
- Mountable in any position
- Tight shut-off and Long Service Life
- Parker Angle Seat Valves conform to the terms of the 94/9/CE directive specific to non electrical equipment for use within potentially explosive environments - zones 1/21 and 2/22

Angle seat valves are suitable for many process and industrial applications:

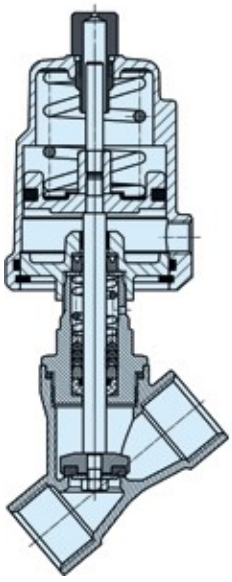
- Food and Beverage Processing
- Water Technology & Treatment
- Textile Industry
- Cooling systems on injection molding machines
- Pharmaceutical & cosmetic industry
- Chemical Process technology
- Refrigeration & Cooling heat exchangers
- Sterilizers steam supply
- Water applications: Mining, Cement / Concrete Systems, Pulp & Paper
- General industrial applications of aggressive fluids
- Industrial Laundry Equipment
- Industrial Air Dryers

PA Series, 2/2 Way, NC or NO 3/8" to 2 1/2" BSP, 16 bar

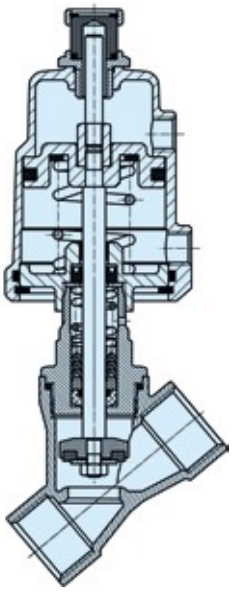
- Body Material 304 Stainless Steel or 316 Stainless Steel
- Actuator Material 304 Stainless Steel, or Aluminum
- Function 2/2 NC, NO, NC (anti-water hammer)
- Port size from DN 10 (3/8") to DN 65 (2 1/2")
- Connections: Threads BSP
- Max Working Pressure 16 Bar
- Flow factor KV from 4.7 m^3/h (DN10) to 70 m^3/h (DN 65)
- The PA Series angle seat valves comply with European Pressure Equipmemt Directive 97/23/EC
- Parker Angle Seat Valves conform to the terms of the 94/9/CE directive specific to non electrical equipment for use within potentially explosive environments - Zones 1/21 and 2/22 - Protection II 2 GD c TX
- Pilot Pressure 3 Bar min to 10 Bar according to control pressure charts
- Maximum Fluid Temp -10°C to 180°C
- Ambient Temperature -10°C to 60°C
- Seat Seal material PTFE/RTFE
- Packing Gland: PTFE and PTFE with Carbon
- Installation Any Position
- Optical Position Indicator Standard on all sizes
- Pilot Control Media Air, Neutral Gas
- Fluids handled: Inert gases, hot water, oils, steam, aggressive and corrosive fluids
- Weight from 0.58 Kg (DN10) to 8.65 Kg (DN 65)
- Viscosity: Maxi. 600 mm^2/s (600cSt, 80° E, 2700 SSU)

For liquids, use versions with flow direction under the seat.

- Spare Parts Kits are available for main seat and body gasket replacement (on request)
- 3 Way Direct Acting AC & DC Pilot Control Valves available as separate components



Normally Closed Valve



Normally Open Valve

PA Series - Normally Closed Valves
Flow Direction OVER Seat

Model Numbers Shown are BSP threads

304 Stainless Steel Actuators with 304 Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Order code	Weight Kg
DN10	3/8"	13	40	4.7	0-16	4	**PA10S1G3S040S**	0.78
			50	4.7	0-16	3	**PA10S1G3S050S**	1.01
DN15	1/2"	13	40	4.7	0-16	4	**PA15S1G4S040S**	0.80
			50	4.7	0-16	3	**PA15S1G4S050S**	1.03
DN20	3/4"	18	50	9.0	0-16	3-4	**PA20S1G5S050S**	1.06
DN25	1"	24	50	16.0	0-16	3-5.5	**PA25S1G6S050S**	1.38
			63	16.0	0-16	3-3.5	**PA25S1G6S063S**	2.05
DN32	1-1/4"	31	63	24.0	0-16	3-5	**PA32S1G7S063S**	2.40
DN40	1-1/2"	35	63	32.0	0-16	3-6	**PA40S1G8S063S**	2.75
DN50	2"	45	63	50.0	0-10	3-6.5	**PA50S1G9S063S**	3.50
			80	50.0	0-16	3-6.6	**PA50S1G9S080S**	4.62
			100	50.0	0-16	3-5	**PA50S1G9S100S**	5.16
DN65	2-1/2"	65	100	70.0	0-10	3-6	**PA65S1GTS100S**	8.65

304 Stainless Steel Actuators with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Order code	Weight Kg
DN10	3/8"	13	40	4.7	0-16	4	**PA10S1G3R040S**	0.78
			50	4.7	0-16	3	**PA10S1G3R050S**	1.01
DN15	1/2"	13	40	4.7	0-16	4	**PA15S1G4R040S**	0.80
			50	4.7	0-16	3	**PA15S1G4R050S**	1.03
DN20	3/4"	18	50	9.0	0-16	3-4	**PA20S1G5R050S**	1.06
DN25	1"	24	50	16.0	0-16	3-5.5	**PA25S1G6R050S**	1.38
			63	16.0	0-16	3-3.5	**PA25S1G6R063S**	2.05
DN32	1-1/4"	31	63	24.0	0-16	3-5	**PA32S1G7R063S**	2.40
DN40	1-1/2"	35	63	32.0	0-16	3-6	**PA40S1G8R063S**	2.75
DN50	2"	45	63	50.0	0-10	3-6.5	**PA50S1G9R063S**	3.50
			80	50.0	0-16	3-6.6	**PA50S1G9R080S**	4.62
			100	50.0	0-16	3-5	**PA50S1G9R100S**	5.16
DN65	2-1/2"	65	100	70.0	0-10	3-6	**PA65S1GTR100S**	8.65

PA Series - Normally Closed Valves
Flow Direction OVER Seat

Model Numbers Shown are BSP threads

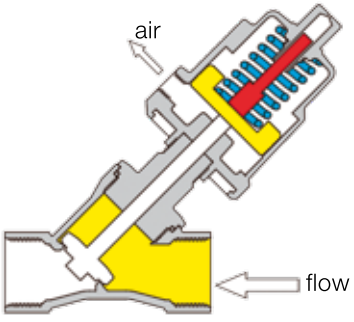
Aluminium Actuators with 304 Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Order code	Weight Kg
DN10	3/8"	13	50	4.7	0-16	3	**PA10S1G3S050A**	0.75
DN15	1/2"	13	50	4.7	0-16	3	**PA15S1G4S050A**	0.80
DN20	3/4"	18	50	9.0	0-16	3-4	**PA20S1G5S050A**	0.90
DN25	1"	24	50	16.0	0-16	3-5.5	**PA25S1G6S050A**	1.27
			63	16.0	0-16	3-4	**PA25S1G6S063A**	1.65
DN32	1-1/4"	31	63	24.0	0-16	3-5.5	**PA32S1G7S063A**	1.89
DN40	1-1/2"	35	63	32.0	0-16	3-6.5	**PA40S1G8S063A**	2.15
DN50	2"	45	63	50.0	0-10	3-6.5	**PA50S1G9S063A**	2.98
			80	50.0	0-16	3-6.6	**PA50S1G9S080A**	3.56
			100	50.0	0-16	3-5	**PA50S1G9S100A**	4.75
DN65	2-1/2"	65	100	70.0	0-10	3-6	**PA65S1GTS100A**	5.50

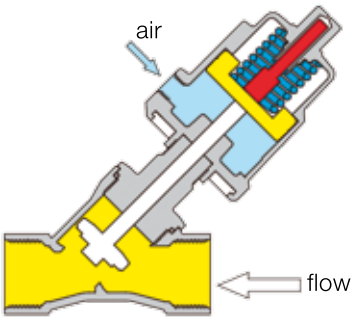
Aluminium Actuators with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Order code	Weight Kg
DN10	3/8"	13	50	4.7	0-16	3	**PA10S1G3R050A**	0.75
DN15	1/2"	13	50	4.7	0-16	3	**PA15S1G4R050A**	0.80
DN20	3/4"	18	50	9.0	0-16	3-4	**PA20S1G5R050A**	0.90
DN25	1"	24	50	16.0	0-16	3-5.5	**PA25S1G6R050A**	1.27
			63	16.0	0-16	3-4	**PA25S1G6R063A**	1.65
DN32	1-1/4"	31	63	24.0	0-16	3-5.5	**PA32S1G7R063A**	1.89
DN40	1-1/2"	35	63	32.0	0-16	3-6.5	**PA40S1G8R063A**	2.15
DN50	2"	45	63	50.0	0-10	3-6.5	**PA50S1G9R063A**	2.98
			80	50.0	0-16	3-6.6	**PA50S1G9R080A**	3.56
			100	50.0	0-16	3-5	**PA50S1G9R100A**	4.75
DN65	2-1/2"	65	100	70.0	0-10	3-6	**PA65S1GTR100A**	5.50

Flow Diagram

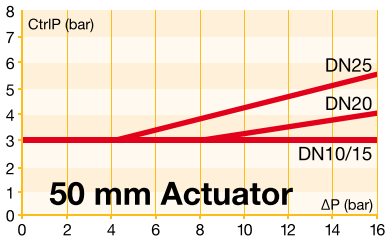


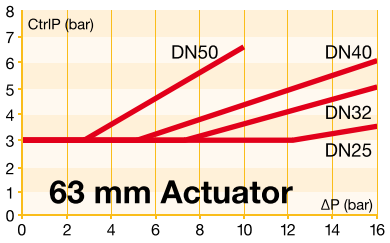
Valve Closed

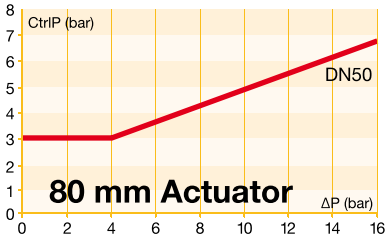


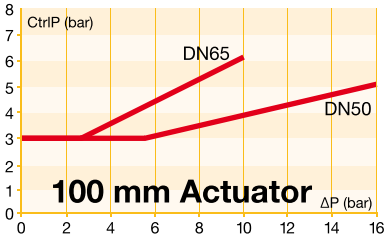
Valve Open

Control Pressure & Operating Pressure Charts for the Normally Closed Valves with Aluminum Actuators









PA Series - Normally Closed Valves
Flow Direction UNDER Seat
Anti Water Hammer Construction

Model Numbers Shown are BSP threads

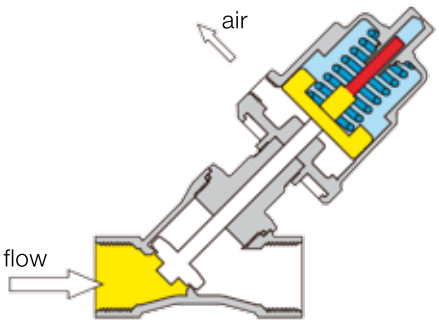
304 Stainless Steel Actuators with 304 Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure bar	Order code	Weight Kg
DN10	3/8"	13	50	4.7	0-16	4.5	**PA10SAG3S050S**	1.01
DN15	1/2"	13	50	4.7	0-16	4.5	**PA15SAG4S050S**	1.03
DN20	3/4"	18	50	9.0	0-10	4.5	**PA20SAG5S050S**	1.06
DN25	1"	24	63	16.0	0-8	4.5	**PA25SAG6S063S**	2.05
DN32	1-1/4"	31	80	24.0	0-11	4	**PA32SAG7S080S**	3.82
DN40	1-1/2"	35	80	32.0	0-8	4	**PA40SAG8S080S**	4.07
			100	32.0	0-16	4	**PA40SAG8S100S**	4.61
DN50	2"	45	100	50.0	0-9	4	**PA50SAG9S100S**	5.16

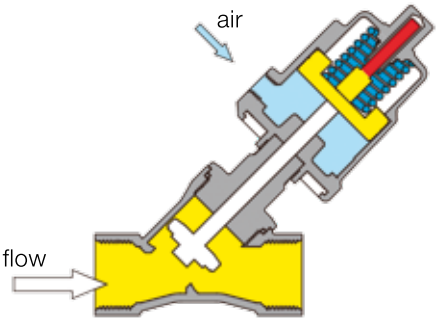
304 Stainless Steel Actuators with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure bar	Order code	Weight Kg
DN10	3/8"	13	50	4.7	0-16	4.5	**PA10SAG3R050S**	1.01
DN15	1/2"	13	50	4.7	0-16	4.5	**PA15SAG4R050S**	1.03
DN20	3/4"	18	50	9.0	0-10	4.5	**PA20SAG5R050S**	1.06
DN25	1"	24	63	16.0	0-8	4.5	**PA25SAG6R063S**	2.05
DN32	1-1/4"	31	80	24.0	0-11	4	**PA32SAG7R080S**	3.82
DN40	1-1/2"	35	80	32.0	0-8	4	**PA40SAG8R080S**	4.07
			100	32.0	0-16	4	**PA40SAG8R100S**	4.61
DN50	2"	45	100	50.0	0-9	4	**PA50SAG9R100S**	5.16

Flow Diagram



Valve Closed



Valve Open

PA Series - Normally Closed Valves
Flow Direction UNDER Seat
Anti Water Hammer Construction

Model Numbers Shown are BSP threads

Aluminium Actuators with 304 Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure bar	Order code	Weight Kg
DN10	3/8"	13	50	4.7	0-16	4.5	**PA10SAG3S050A**	0.75
DN15	1/2"	13	50	4.7	0-16	4.5	**PA15SAG4S050A**	0.80
DN20	3/4"	18	50	9.0	0-10	4.5	**PA20SAG5S050A**	0.90
DN25	1"	24	63	16.0	0-8	4.5	**PA25SAG6S063A**	1.65
DN32	1-1/4"	31	80	24.0	0-11	4	**PA32SAG7S080A**	2.80
DN40	1-1/2"	35	80	32.0	0-8	4	**PA40SAG8S080A**	3.10
			100	32.0	0-16	4	**PA40SAG8S100A**	4.15
DN50	2"	45	100	50.0	0-9	4	**PA50SAG9S100A**	4.75

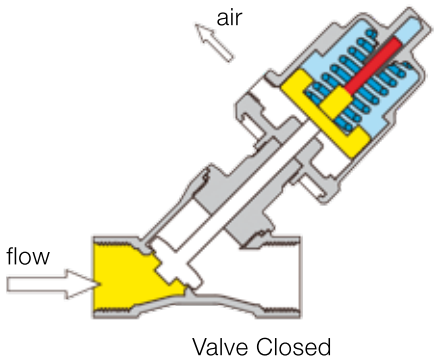
Aluminium Actuators with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure bar	Order code	Weight Kg
DN10	3/8"	13	50	4.7	0-16	4.5	**PA10SAG3R050A**	0.75
DN15	1/2"	13	50	4.7	0-16	4.5	**PA15SAG4R050A**	0.80
DN20	3/4"	18	50	9.0	0-10	4.5	**PA20SAG5R050A**	0.90
DN25	1"	24	63	16.0	0-8	4.5	**PA25SAG6R063A**	1.65
DN32	1-1/4"	31	80	24.0	0-11	4	**PA32SAG7R080A**	2.80
DN40	1-1/2"	35	80	32.0	0-8	4	**PA40SAG8R080A**	3.10
			100	32.0	0-16	4	**PA40SAG8R100A**	4.15
DN50	2"	45	100	50.0	0-9	4	**PA50SAG9R100A**	4.75

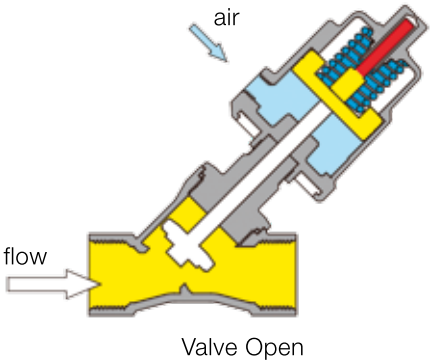
Control Pressure & Operating Pressure

Charts do not apply for Valves with flow direction Under Seat. A minimum pressure as noted above is all that is required, up to a maximum of 10 bar.

Flow Diagram



Valve Closed



Valve Open

PA Series - Compact Design Normally Closed Valves
Flow Direction OVER Seat

Model Numbers Shown are BSP threads

Media Temperature - 10°C to + 100°C

304 Stainless Steel Actuators with 304 Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Order code	Weight Kg
DN10	3/8"	13	32	4.7	0-16	4.5-6	**PA10C3G3S032S**	0.58
DN15	1/2"	13	32	4.7	0-16	4.5-6	**PA15C3G4S032S**	0.60
DN20	3/4"	15	32	5.4	0-14	4.5-6	**PA20C3G5S032S**	0.65

304 Stainless Steel Actuators with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Order code	Weight Kg
DN10	3/8"	13	32	4.7	0-16	4.5-6	**PA10C3G3R032S**	0.58
DN15	1/2"	13	32	4.7	0-16	4.5-6	**PA15C3G4R032S**	0.60
DN20	3/4"	15	32	5.4	0-14	4.5-6	**PA20C3G5R032S**	0.65

Media Temperature - 10°C to + 180°C

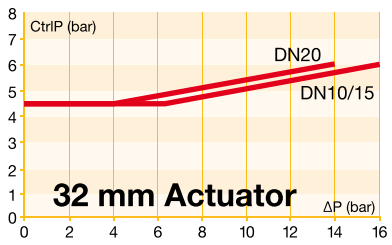
304 Stainless Steel Actuators with 304 Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Order code	Weight Kg
DN10	3/8"	13	32	4.7	0-16	4.5-6	**PA10C1G3S032S**	0.63
DN15	1/2"	13	32	4.7	0-16	4.5-6	**PA15C1G4S032S**	0.65
DN20	3/4"	15	32	5.4	0-14	4.5-6	**PA20C1G5S032S**	0.71

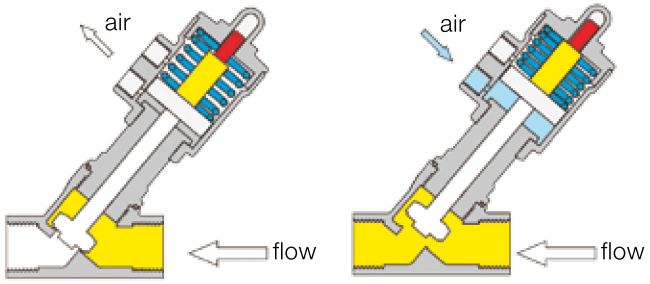
304 Stainless Steel Actuators with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Order code	Weight Kg
DN10	3/8"	13	32	4.7	0-16	4.5-6	**PA10C1G3R032S**	0.63
DN15	1/2"	13	32	4.7	0-16	4.5-6	**PA15C1G4R032S**	0.65
DN20	3/4"	15	32	5.4	0-14	4.5-6	**PA20C1G5R032S**	0.71

Control Pressure & Operating Pressure



Flow Diagram



Valve Closed Valve Open

PA Series - Compact Design Normally Closed Valves
Flow Direction UNDER Seat

Model Numbers Shown are BSP threads

Media Temperature - 10°C to + 100°C

304 Stainless Steel Actuators with 304 Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Order code	Weight Kg
DN10	3/8"	13	32	4.7	0-6	5-6	**PA10C4G3S032S**	0.58
DN15	1/2"	13	32	4.7	0-6	5-6	**PA15C4G4S032S**	0.60
DN20	3/4"	15	32	5.4	0-4	5-6	**PA20C4G5S032S**	0.65

304 Stainless Steel Actuators with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Order code	Weight Kg
DN10	3/8"	13	32	4.7	0-6	5-6	**PA10C4G3R032S**	0.58
DN15	1/2"	13	32	4.7	0-6	5-6	**PA15C4G4R032S**	0.60
DN20	3/4"	15	32	5.4	0-4	5-6	**PA20C4G5R032S**	0.65

Media Temperature - 10°C to + 180°C

304 Stainless Steel Actuators with 304 Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Order code	Weight Kg
DN10	3/8"	13	32	4.7	0-6	5-6	**PA10C2G3S032S**	0.63
DN15	1/2"	13	32	4.7	0-6	5-6	**PA15C2G4S032S**	0.65
DN20	3/4"	15	32	5.4	0-4	5-6	**PA20C2G5S032S**	0.71

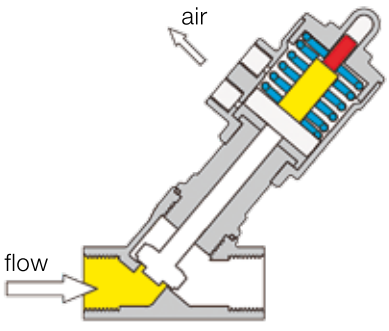
304 Stainless Steel Actuators with 316L Stainless Steel Bodies

Size	Port Size	Orifice mm	Actuator mm	KV m^3/h	Operating Pressure Differential bar	Minimum Pilot Control Pressure Range bar	Order code	Weight Kg
DN10	3/8"	13	32	4.7	0-6	5-6	**PA10C2G3R032S**	0.63
DN15	1/2"	13	32	4.7	0-6	5-6	**PA15C2G4R032S**	0.65
DN20	3/4"	15	32	5.4	0-4	5-6	**PA20C2G5R032S**	0.71

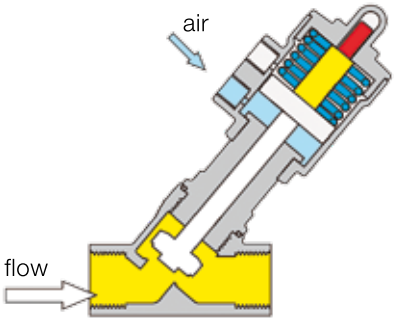
Control Pressure & Operating Pressure

Charts do not apply for Valves with flow direction Under Seat. A minimum pressure as noted above is all that is required, up to 10 bar maximum.

Flow Diagram



Valve Closed

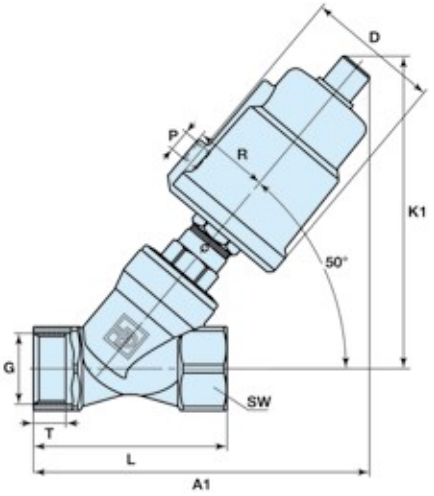


Valve Open

PA Series - Drawings and Dimensions

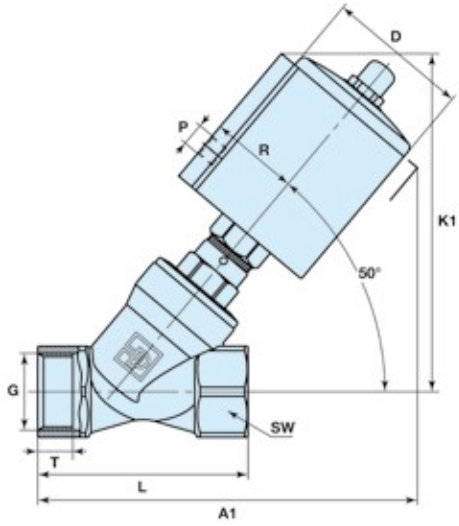
Stainless Steel Actuators Sizes 40, 50, 63, 80, 100 mm

Type	Actuator	D	R	P	K1	A1	G	L	T		SW
DN10	40	50.5	27	G1/8	116	121	G3/8	60	10	22	hexagon
	50	62	34	G1/8	130	133	G3/8	60	10	22	hexagon
DN15	40	50.5	27	G1/8	118	124	G1/2	65	11.5	25	hexagon
	50	62	34	G1/8	131	135	G1/2	65	11.5	25	hexagon
DN 20	50	62	34	G1/8	134	141	G3/4	75	14	31	hexagon
DN25	50	62	34	G1/8	141	153	G1	90	15	39	hexagon
	63	77	41.5	G1/8	164	175	G1	90	15	39	hexagon
DN32	63	77	41.5	G1/8	170	188	G1-1/4	110	18	50	octagon
	80	98	52	G1/4	184	205	G1-1/4	110	18	50	octagon
DN40	63	77	41.5	G1/8	181	201	G1-1/2	120	18	56	octagon
	80	98	52	G1/4	195	217	G1-1/2	120	18	56	octagon
	100	121	63	G1/4	213	235	G1-1/2	120	18	56	octagon
DN50	63	77	41.5	G1/8	189	216	G2	150	22	68	octagon
	80	98	52	G1/4	203	233	G2	150	22	68	octagon
	100	121	63	G1/4	221	250	G2	150	22	68	octagon
DN65	100	121	63	G1/4	248	285	G2-1/2	180	25	85	octagon



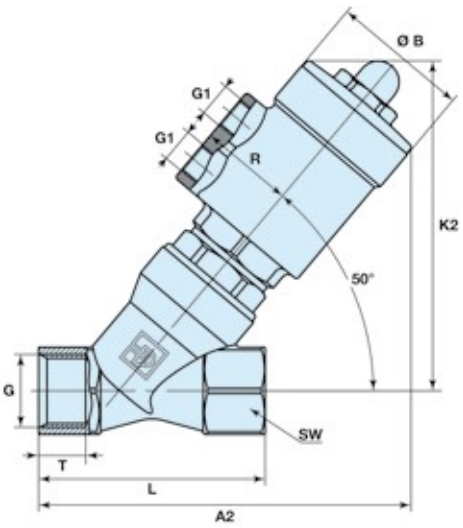
Aluminum Actuators Sizes 50, 63, 80, 100 mm

Type	Actuator	D	R	P	K1	A1	G	L	T		SW
DN10	50	61	38	G1/8	132	141	G3/8	60	10	22	hexagon
DN15	50	61	38	G1/8	133	144	G1/2	65	11.5	25	hexagon
DN20	50	61	38	G1/8	136	150	G3/4	75	14	31	hexagon
DN25	50	61	38	G1/8	144	162	G1	90	15	39	hexagon
	63	75	45	G1/8	167	183	G1	90	15	39	hexagon
DN32	63	75	45	G1/8	173	196	G1-1/4	110	18	50	octagon
	80	94	54	G1/4	192	214	G1-1/4	110	18	50	octagon
DN40	63	75	45	G1/8	184	209	G1-1/2	120	18	56	octagon
	80	94	54	G1/4	203	226	G1-1/2	120	18	56	octagon
	100	115	64	G1/4	223	245	G1-1/2	120	18	56	octagon
DN50	63	75	45	G1/8	192	224	G2	150	22	68	octagon
	80	94	54	G1/4	211	242	G2	150	22	68	octagon
	100	115	64	G1/4	231	260	G2	150	22	68	octagon
DN65	100	115	64	G1/4	257	294	G2-1/2	180	25	85	octagon



Stainless Steel Actuators Size 32 mm

Type	Actuator	Ø B	R	G1	K2		A2		G	L	T		SW
					Type C1/C2 (180°C)	Type C3/C4 (100°C)	Type C1/C2 (180°C)	Type C3/C4 (100°C)					
DN10	32	39.6	27	G1/8	107	94	117	106	G3/8	60	10	22	hexagon
DN15	32	39.6	27	G1/8	109	96	119	108	G1/2	65	11.5	25	hexagon
DN20	32	39.6	27	G1/8	112	100	126	115	G3/4	75	14	31	hexagon



Solenoid Valves for Controlling the PA Angle Seat Valves

3 Way Direct Acting Pilot Control Valves

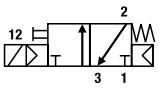
Banjo Valve - Available as Separate Components

Banjo Valves G1/4" & G1/8" Series with Aluminium Body

Solenoid Operated Versions - B14-B04 Versions with 22 mm Coil

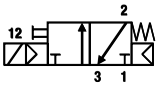
Port Size		Orifice	Q_N	Admissible differential pressure (bar) max.			Max. admissible fluid temperature (°C) Min. = - 10°C	Seat disc	Reference number			Consumption Power (Watt)		Weight (g)	Dim. Ref.
Banjo	G	mm	l/min	min	DC=	AC~	Air & Neutral gases		Valve	Housing	Coil	DC	AC		

3/2 Solenoid operated - Spring return (monostable)



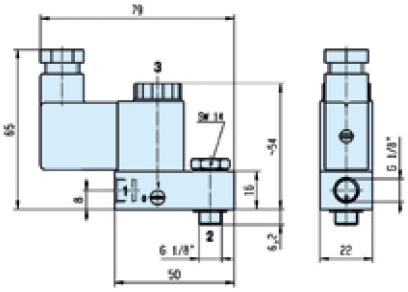
1/8	1/8	1.2	50	0	10	10	50	NBR	131B14	-	496131	3	3	140	26
1/8	1/8	1.2	50	0	10	10	50	NBR	131B14	-	**496482**	3	3	150	26
1/8	1/8	1.2	50	0	10	10	50	NBR	131B14	-	**496637**	3	3	150	26
1/8	1/8	1.2	50	0	10	-	50	NBR	131B14	-	**482605**	5	-	170	26

3/2 Solenoid operated - Spring return (monostable)

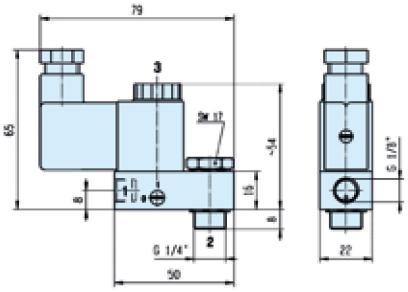


1/4	1/8	1.2	50	0	10	10	50	NBR	131B04	-	**496131**	3	3	160	27
1/4	1/8	1.2	50	0	10	10	50	NBR	131B04	-	**496482**	3	3	175	27
1/4	1/8	1.2	50	0	10	10	50	NBR	131B04	-	**496637**	3	3	175	27
1/4	1/8	1.2	50	0	10	-	50	NBR	131B04	-	**482605**	5	-	190	27

Dimensions Reference 26



Dimensions Reference 27



Coils 22 mm for Banjo Valves Series

These coils with connection for 2 P+G DIN 43650 B plug are encapsulated in synthetic material, conform to the IEC/CENELEC safety standards and comply with European low voltage directive 2006/95/EC. Banjo Valve bodies conform to the terms of the directive 94/9/CE specific to non electrical equipment for use within potentially explosive environments - Please select apropriate Coil for Safe Area or ATEX zones 1/21 or 2/22 in the following table.

- Power: 3 W or 5 W
- Insulation Class: F (155°C)
- Degree of Protection: IP65 (with plug)
- Duty Cycle: 100% ED

Available Voltages	Safe area without DIN plug Code	Safe area with DIN plug Code	For Zone 2/22 II 3 G-Ex nc AC IIC T5 II 3 D-Ex tc AC IIIC - T 95°C code with DIN plug	For Zone 1/21 II 2 G-Ex mb II T4 II 2 D-Ex tb IIIC - T 130°C code includes DIN plug and 1.5 m cable
12 VDC	**496131 C1**	**496482 C1**	**496637 C1**	**482605 C1**
24 VDC	**496131 C2**	**496482 C2**	**496637 C2**	**482605 C2**
48 VDC	**496131 C4**	**496482 C4**	**496637 C4**	-
110 VDC	**496131 C5**	**496482 C5**	**496637 C5**	-
24/50-60 VAC	**496131 P0**	**496482 P0**	**496637 P0**	-
48/50-60 VAC	**496131 S4**	**496482 S4**	**496637 S4**	-
110/50-60 VAC	**496131 P2**	**496482 P2**	**496637 P2**	-
115/60 VAC	**496131 K8**	**496482 K8**	**496637 K8**	-
230/50-60 VAC	**496131 P9**	**496482 P9**	**496637 P9**	-

How to Order

Valve Reference Number - Coil Reference - Voltage code = Order code

Example: 131B14 - 496131 C2 - Valves and coils may be ordered also separately.

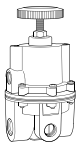
Highly accurate units, suitable for applications such as instrumentation where precision regulation is required.

- High repeatability
- High relief capacity on R220 model
- High flow capacity on R230 model

Operating information

Max operating pressure	10 bar
Max operating temperature	66°C
Repeatability:	R210 model 0.3 mbar
	R220 model 0.3 mbar
	R230 model 0.6 mbar

For more information see www.parker.com/euro_pneumatic

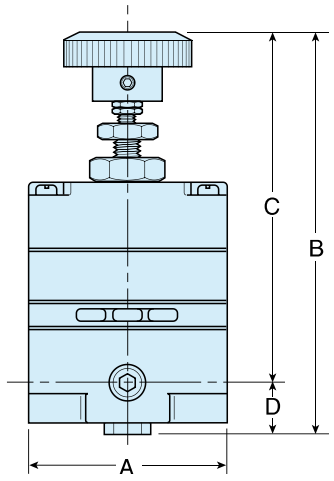
	Port size	Reduced Pressure range	Flow l/min	Relief capacity l/min	**Order code**
	G1/4	0.13 - 2.7	396	57	**R210G02A**
	G1/4	0.13 - 8.1	396	57	**R210G02C**
	G1/4	0.13 - 8.1	396	282	**R220G02C**
	G1/4	0 - 0.13	2280	114	**R230G02E**
	G1/4	0 - 2	2280	114	**R230G02B**
	G1/4	0.13 - 4	2280	114	**R230G02C**
	G1/4	0.13 - 10	2280	114	**R230G02D**

Mounting brackets

Series	**Order code**
R210 / R220	**446-707-045**
R230	**446-707-025**

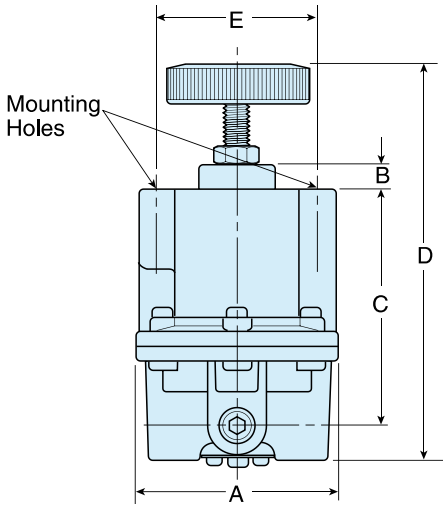
Dimensions (mm)

R210 / 220 High Precision Regulator



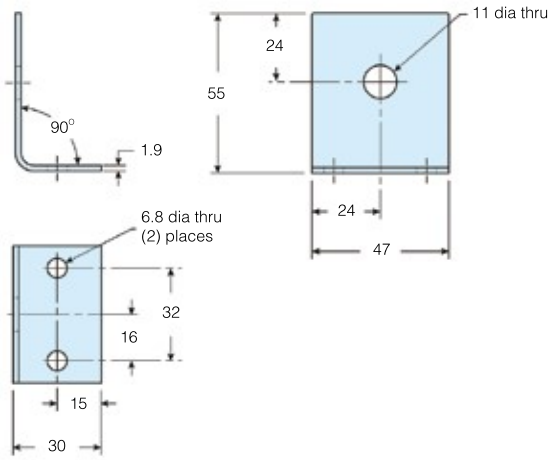
A	C	D	E
52mm	110mm	97mm	13.5mm

R230 High Flow Precision Regulator

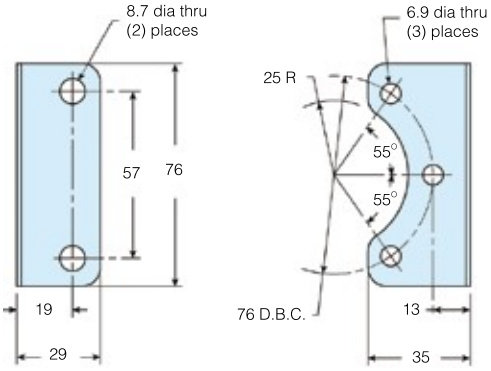


A	B	C	D	E
76mm	10mm	86mm	154mm	57mm

Mounting bracket - 446-707-045



Mounting bracket - 446-707-025



- Compact body ported units
- Port sizes G1/8 and G1/4
- Unique deflector plate ensuring maximum water and particulate removal
- Solid control piston with lip seal for extended life.
- Proportional oil delivery over a wide range of air flows.

Operating information

Working pressure:	Max 10 bar
Working temperature:	0 °C to +52 °C

Flow characteristics

Flow	Filter	11 l/s
	Regulator	9,3 l/s
	Filter Regulator	9,3 l/s
	Lubricator	10 l/s

For more information see www.parker.com/euro_pneumatic

Filters - 5 micron element, transparent bowl

Port size	Description	Order Code
G1/8	Manual drain	**14F01BB1**
G1/8	Auto drain	**14F05BB1**
G1/4	Manual drain	**14F11BB1**
G1/4	Auto drain	**14F15BB1**
	Mounting bracket	**PS417BP**

Regulators - relieving type - non relieving options available

Port size	Description	Order Code
G1/8	2 bar	**14R010FC1**
G1/8	4 bar	**14R011FC1**
G1/8	8 bar	**14R013FC1**
G1/4	2 bar	**14R110FC1**
G1/4	4 bar	**14R111FC1**
G1/4	8 bar	**14R113FC1**
	Mounting bracket (Includes panel mounting nut)	**PS417BP**

Lubricators - transparent bowl

Port size		Order Code
G1/8		**04L00GB1**
G1/4		**04L10GB1**
	Mounting bracket	**PS419**

Pressure Gauges

	Order Code
0 - 2 bar	**P3D-KAB1AYN**
0 - 4 bar	**P3D-KAB1ALN**
0 - 8 bar	**P3D-KAB1ANN**

Coalescing Filters - 0.01 micron element

Port size	Description	Order Code
Poly bowl		
G1/8	Manual drain	**10F01ED1**
G1/8	Auto drain	**10F05ED1**
G1/4	Manual drain	**10F11ED1**
G1/4	Auto drain	**10F15ED1**
	Mounting bracket	**PS417BP**

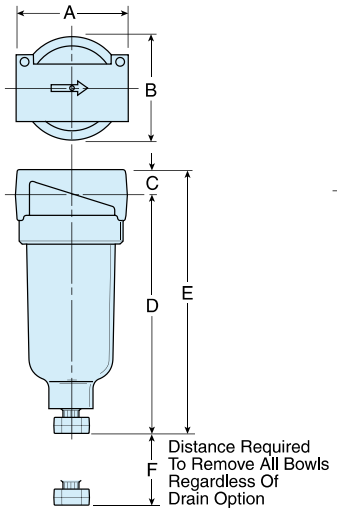
Filter/Regulators

- transparent bowl - 2 and 4 bar and non relieving options available

Port size	Description	Order Code
G1/8	2 bar, manual drain	**14E01B10FC1**
G1/8	2 bar, auto drain	**14E05B10FC1**
G1/4	2 bar, manual drain	**14E11B10FC1**
G1/4	2 bar, auto drain	**14E15B10FC1**
G1/8	4 bar, manual drain	**14E01B11FC1**
G1/8	4 bar, auto drain	**14E05B11FC1**
G1/4	4 bar, manual drain	**14E11B11FC1**
G1/4	4 bar, auto drain	**14E15B11FC1**
G1/8	8 bar, manual drain	**14E01B13FC1**
G1/8	8 bar, auto drain	**14E05B13FC1**
G1/4	8 bar, manual drain	**14E11B13FC1**
G1/4	8 bar, auto drain	**14E15B13FC1**
	Mounting bracket (Includes panel mounting nut)	**PS417BP**

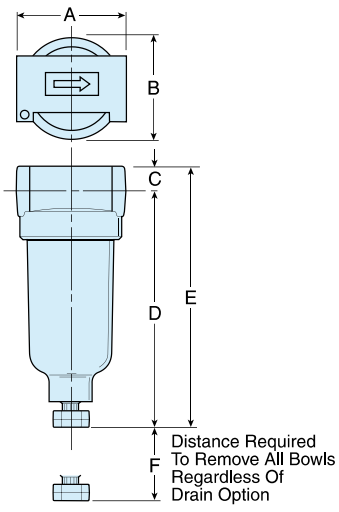
Dimensions (mm)

Filters



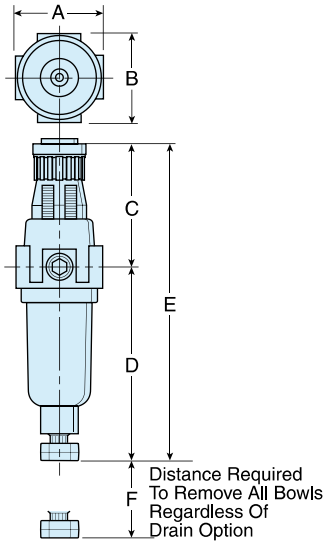
A	B	C	D	D†	E	E†	F
43	39	10	97	99	107	108	41

Coalescing Filters



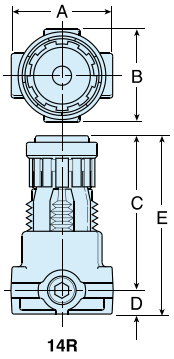
A	B	C	D	D†	E	E†	F
43	39,6	10	97	93	107	103	41

Filter/Regulators



A	B	C	D	D†	E	E†	F
41	40	61	96	92	158	154	41

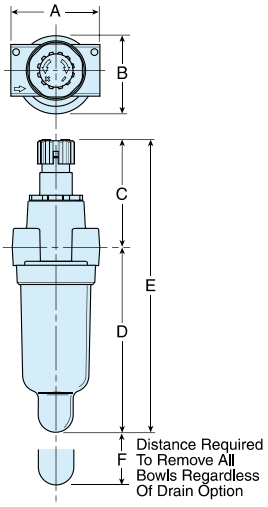
Regulators



14R

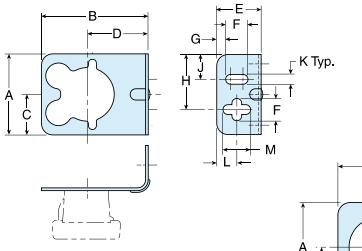
14R	**A**	**B**	**C**	**D**	**E**				
	42	40	63,5	10	731				
14RL***	**A**	**B**	**C**	**D**	**E**				
	42	40	57,9	10	68				
14RM	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**
	38	38	60	13	73	30	15	8	18

Lubricators

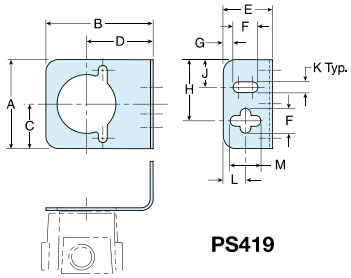


A	B	C	D	D†	E	E†	F
44	40	55	92	96	147	151	41

Mounting Bracket Kits



PS417BP
(Includes Panel Mount Nut)



PS419

PS417BP - 10F, 14F, 14R, 14E

A	B	C	D	E	F	G	H	J	K	L	M
46	60	23	34	25	13	5	31	14	6	11	16

PS419 - 04L

A	B	C	D	E	F	G	H	J	K	L	M
46	55	23	34	25	13	5	31	14	6	11	16

Service kits

Description	Order Code
5 micron particulate element	**PS403P**
0.01 micron coalescing element	**PS446P**
Poly bowl with manual drain	**PS404P**
Poly bowl with pulse drain	**PS408BP**
Lubricator bowl	**PS421P**
Regulator	
Relieving type	**PS422P**
Non-relieving type	**PS428P**

The range of Stainless Steel FRLs are ideal for use in the food industry, the petrochemical or process industries or any application in a particularly harsh or aggressive environment.

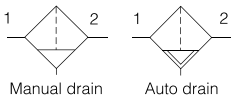
- Suitable for Marine & Offshore applications
- Chemical / Petroleum and process industries
- Coalescing filters are designed for removing oil and water aerosols down to 0.01µ
- Suitable for food industry applications

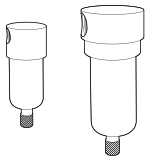
Operating information

Max operating pressure	20 bar 12 bar when fitted with auto-drain	
Max operating temperature	Regulator	65°C
	Filter + Regulator	80°C,
50°C when fitted with auto-drain		

For more information see www.parker.com/euro_pneumatic

Particulate Filter

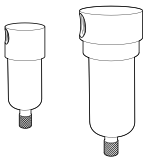




Port size	Flow l/min @ 7 bar	Filter element	Order code with manual drain	Order code with auto drain
G1/4	660	20µ	**PF504G02DHSS**	
G1/2	1800	40µ	**PF10G04DJSS**	**PF10G04DJRSS**

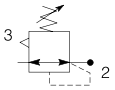
* For 5µ filter element substitute **H** or **J** with **G**

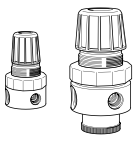
Coalescing Filter



Port size	Flow l/min @ 7 bar	Filter element	Order code with manual drain	Order code with auto drain
G1/4	240	0.3µ	**PF501G02DHSS**	
G1/2	480	0.01µ	**PF11G04DJSS**	**PF11G04DJRSS**

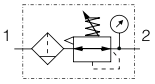
Regulator

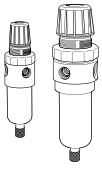




Port size	Flow l/min @ 7 bar	Order code fitted with 0-8.5 bar spring
G1/4 Plastic bonnet/knob Full S/S version	450	**PR364G02CSS** **PR354G02CSS**
G1/2 Plastic bonnet/knob Full S/S version	2820	**PR10G04CSS** **PR11G04CSS**

Filter/Regulator

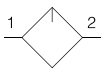


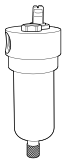


Port size	Flow l/min @ 7 bar	Order code fitted with 0-8.5 bar spring
G1/4 Plastic bonnet/knob Full S/S version	450	**PB548G02DHCSS** **PB558G02DHCSS**
G1/2 Plastic bonnet/knob Full S/S version	1800	**PB11G04DJCSS** **PB12G04DJCSS**

Panel mounting nut for G1/4: **PR05X51SS**
G1/2: **PR10X51SS**

Lubricator





Port size	Flow l/min @ 7 bar	Order code
G1/2	3000	**PL10G04DSS**

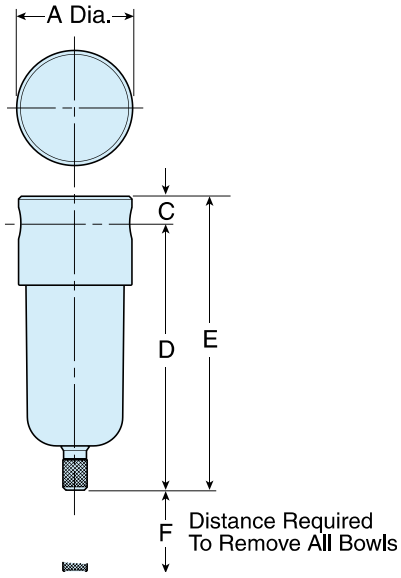
Connectors

Port size	Order code
G1/4	**AC-2SS**
G1/2	**AC-4SS**

Stainless steel pressure gauge	**M1/4G40S-10 (0 to 10 bar)**

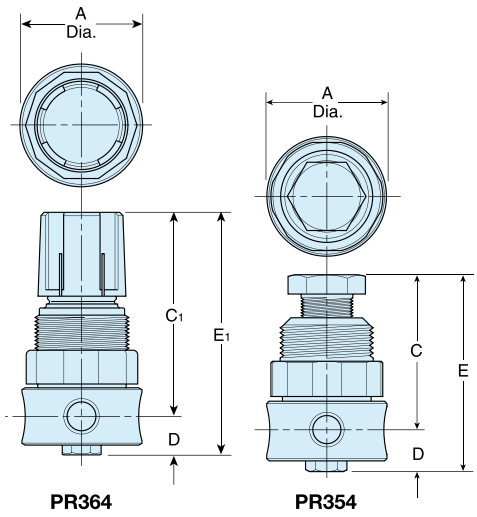
Dimensions (mm) - 1/4"

Filters
Coalescing Filters



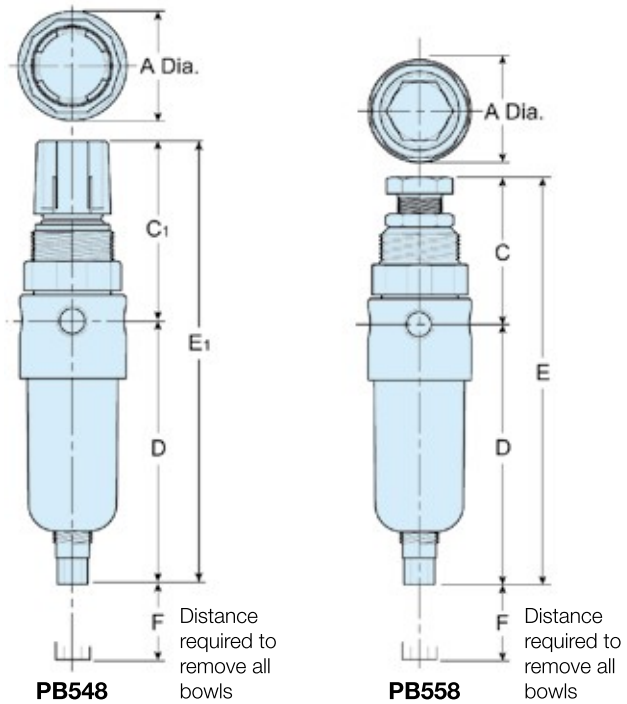
A	C	D	E	F
40mm	8mm	94mm	102mm	40mm

Regulators



A	C	C_1	D	E	E_1
40mm	51mm	65mm	13mm	64mm	78mm

Filter/Regulators



A	C	C_1	D	E	E_1	F
40mm	55mm	67mm	92mm	78mm	147mm	40mm

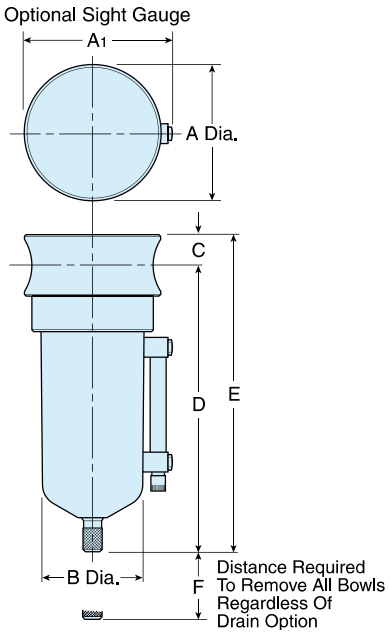
Service kits

Port size	Description	Order Code
Filter		
1/4	20 micron particulate element	**EK504Y**
1/4	5 micron particulate element	**EK504VY**
1/2	40 micron particulate element	**EK55J**
1/2	5 micron particulate element	**EK55G**
Coalescing Filter		
1/4	0.3 micron coalescing element	**EKF501H**
1/2	0.01 micron coalescing element	**EKF71**
Regulator		
1/4	Relieving type	**RKR364YSS**
1/4	Non-relieving type	**RKR36KYSS**
1/2	Relieving type	**RKR10YSS**
1/2	Non-relieving type	**RKR10KYSS**
Filter/Regulator		
1/4	20 micron particulate element	**EK504Y**
1/4	5 micron particulate element	**EK504VY**
1/2	40 micron particulate element	**EKF10Y**
1/2	5 micron particulate element	**EKF10VY**
Lubricator		
	Sight dome kit	**RKL10SS**

Dimensions (mm) - 1/2"

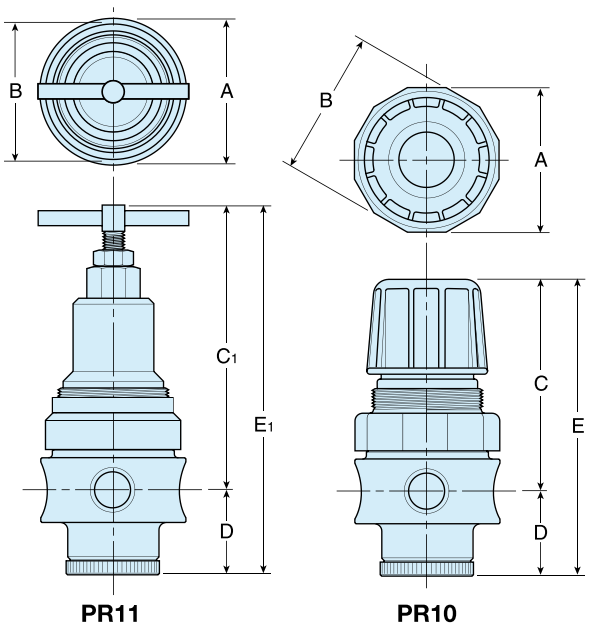
Filters

Coalescing Filters



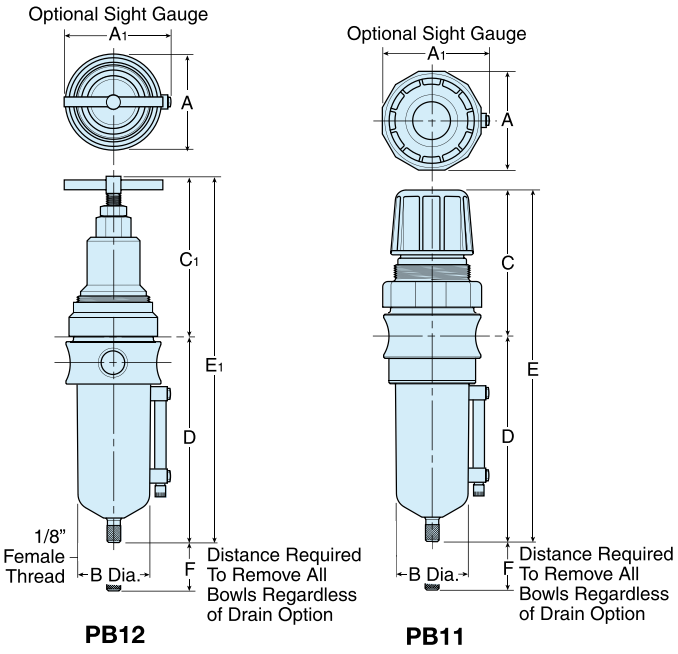
A	A1	B	C	D	E	F
60mm	64mm	44mm	14mm	127mm	141mm	54mm

Regulators



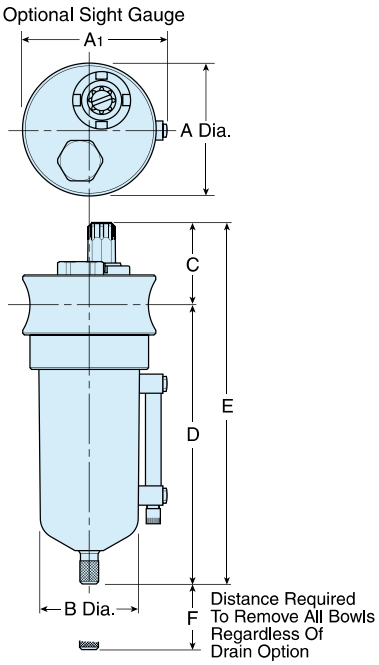
A	B	C	C1	D	E	E1
60mm	62mm	91mm	119mm	35mm	126mm	154mm

Filter/Regulators



A	A1	B	C	C1	D	E	E1	F
60mm	64mm	44mm	91mm	119mm	127mm	218mm	246mm	54mm

Lubricators



A	A1	B	C	D	E	F
60mm	64mm	44mm	46mm	127mm	173mm	89mm

High Efficiency 0.01 µm Filtration

Fitration Grade

Filtration type	Coalescing
Particle removal (inc water & oil aerosols)	Down to 0.01 micron
Max remaining oil content at 21°C	0.01 mg/m³ 0.01 ppm(w)
Filter efficiency	99.9999%
Test methods used	ISO 8573.2 ISO 8573.4 ISO 12500-1
ISO 12500-1 Inlet Challenge concentration	10 mg/m³
Initial dry differential pressure	<140 mbar (2psi)
Initial saturated differential pressure	<200 mbar (3psi)
Change element every	12 months
Precede with filtration grade	1 micron Moduflex Coalescer

Product selection

Stated flows are for operation at 7 bar (g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures apply the correction factors shown.

Port Size BSPT	Part Number	dm³/s	m3/hr	cfm	0.01 µm Replacement Element Kit
1/4"	**P3TFA22CAAN**	10	36	21	**P3TKA00ESCA**
3/8"	**P3TFA23CBAN**	20	72	42	**P3TKA00ESCB**
1/2"	**P3TFA24CCAN**	30	108	64	**P3TKA00ESCC**
3/4"	**P3TFA26CDAN**	60	216	127	**P3TKA00ESCD**
1 "	**P3TFA28CEAN**	110	396	233	**P3TKA00ESCE**
1.1/4"	**P3TFA2ACEAN**	110	396	233	**P3TKA00ESCE**
1.1/2"	**P3TFA2BCFAN**	160	576	339	**P3TKA00ESCF**
1.1/2"	**P3TFA2BCGAN**	220	792	466	**P3TKA00ESCG**
2"	**P3TFA2CCHAN**	330	1188	699	**P3TKA00ESCH**
2.1/2"	**P3TFA2DCJAN**	430	1548	911	**P3TKA00ESCJ**
3"	**P3TFA2ECJAN**	430	1548	911	**P3TKA00ESCJ**
2.1/2"	**P3TFA2DCKAN**	620	2232	1314	**P3TKA00ESCK**
3"	**P3TFA2ECKAN**	620	2232	1314	**P3TKA00ESCK**

Correction factors

Line pressure bar g	Line pressure psi g	Correction factor
1	15	0.38
2	29	0.53
3	44	0.65
4	58	0.76
5	73	0.85
6	87	0.93
7	100	1.00
8	116	1.07
9	131	1.13
10	145	1.19
11	160	1.25
12	174	1.31
13	189	1.36
14	203	1.41
15	218	1.46
16	232	1.51

To find the correction factor for 8.5 bar g (122psi g) =

$$\sqrt{\frac{\text{System Operating Pressure}}{\text{Nominal Pressure}}}$$

$$= \sqrt{\frac{8.5 \text{ bar g}}{7 \text{ bar g}}} = 1.10$$

Filter selection example

Selecting a filter model to match a system flow rate and pressure.
Example: System flow 1050 m³/hr at a pressure of 8.5 bar g

1. Obtain pressure correction factor from table or calculate factor using method shown. Correction factor for 8.5 bar g = 1.10
2. Divide system flow by correction factor to give equivalent flow rate at 7 bar g 1050m³/hr ÷ 1.10 = 955 m³/hr (at 7 bar g)
3. Select a filter model from the above table with a flow rate above or equal to 955 m³/hr. Filter model selected : P3TFA2CCHAN
4. Select pipe connection & Thread type System uses 2" piping and BSP threads: Model P3TFA2CCHAN

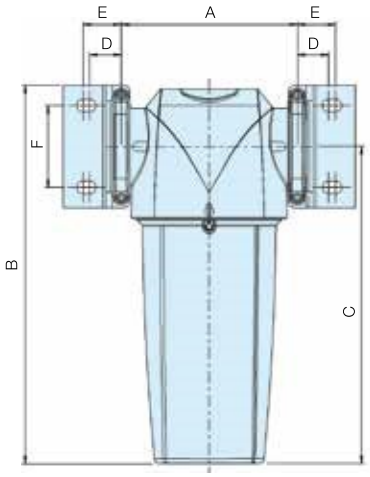
High Efficiency 0.01 µm Filtration

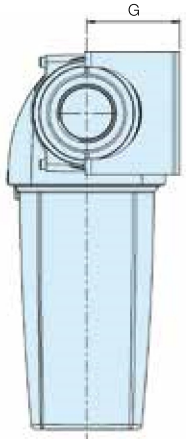
Technical data

Filter Grade	Drain type	Max operating pressure bar g	Max operating pressure psi g	Max recommended operating temp.		Min recommended operating temp.	
0.01 micron	Auto	16	232	80°C	176°F	1.5°C	35°F

Weights and dimensions

Port Size BSPT	Part Number	A		B		C		D		E		F		G		Weight		Modular Connection Kit	Wall Mounting Bracket Kit
		mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	kg	lbs		
1/4”	**P3TFA22CAAN**	76.0	3.0	181.5	7.2	153.0	6.0	18.0	0.71	24.5	0.96	30.0	1.18	52.0	2.05	0.4	0.9	**P3TKA00CBA**	**P3TKA00MWA**
3/8”	**P3TFA23CBAN**	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	**P3TKA00CBB**	**P3TKA00MWB**
1/2”	**P3TFA24CCAN**	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	**P3TKA00CBB**	**P3TKA00MWB**
3/4”	**P3TFA26CDAN**	129.0	5.1	275.0	10.8	232.5	9.2	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.2	4.8	**P3TKA00CBD**	**P3TKA00MWD**
1 “	**P3TFA28CEAN**	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	**P3TKA00CBD**	**P3TKA00MWD**
1.1/4”	**P3TFA2ACEAN**	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	**P3TKA00CBD**	**P3TKA00MWD**
1.1/2”	**P3TFA2BCFAN**	170.0	6.7	432.5	17.0	382.5	15.1	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	4.5	9.9	**P3TKA00CBF**	**P3TKA00MWF**
1.1/2”	**P3TFA2BCGAN**	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	**P3TKA00CBF**	**P3TKA00MWF**
2”	**P3TFA2CCHAN**	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	**P3TKA00CBF**	**P3TKA00MWF**
2.1/2”	**P3TFA2DCJAN**	205.0	8.1	641.5	25.3	581.5	22.9	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	10.0	22.0	**P3TKA00CBJ**	**P3TKA00MWJ**
3”	**P3TFA2ECJAN**	205.0	8.1	641.5	25.3	581.5	22.9	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	10.0	22.0	**P3TKA00CBJ**	**P3TKA00MWJ**
2.1/2”	**P3TFA2DCKAN**	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	**P3TKA00CBJ**	**P3TKA00MWJ**
3”	**P3TFA2ECKAN**	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	**P3TKA00CBJ**	**P3TKA00MWJ**





Optional Accessories

DPI Kit

P3TKA00RQ

Incident Monitor

Used to indicate premature high differential pressure. Indicator can be retrofitted to existing housings without depressurising the system.

Modular Connection Kit

Fixing clamp allows quick and simple connection of multiple filter housings.

Wall Mounting Bracket Kit

Mounting brackets provide additional support to filters installed in flexible piping systems or OEM equipment.

Drain Kits

Auto drain	**P3TKA00DA**
Manual drain	**P3TKA00DM**

1 µm Filtration

Fitration Grade

Filtration type	Coalescing
Particle removal (inc water & oil aerosols)	Down to 1 micron
Max remaining oil content at 21°C	0.06 mg/m³ 0.05 ppm(w)
Filter efficiency	99.925%
Test methods used	ISO 8573.2 ISO 8573.4 ISO 12500-1
ISO 12500-1 Inlet Challenge concentration	40 mg/m³
Initial dry differential pressure	<70 mbar (2psi)
Initial saturated differential pressure	<140 mbar (3psi)
Change element every	12 months
Precede with filtration grade	1 micron Moduflex Coalescer

Product selection

Stated flows are for operation at 7 bar (g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures apply the correction factors shown.

Port Size BSPT	Part Number	dm³/s	m3/hr	cfm	1 µm Replacement Element Kit
1/4"	**P3TFA229AAN**	10	36	21	**P3TKA00ES9A**
3/8"	**P3TFA239BAN**	20	72	42	**P3TKA00ES9B**
1/2"	**P3TFA249CAN**	30	108	64	**P3TKA00ES9C**
3/4"	**P3TFA269DAN**	60	216	127	**P3TKA00ES9D**
1 "	**P3TFA289EAN**	110	396	233	**P3TKA00ES9E**
1.1/4"	**P3TFA2A9EAN**	110	396	233	**P3TKA00ES9E**
1.1/2"	**P3TFA2B9FAN**	160	576	339	**P3TKA00ES9F**
1.1/2"	**P3TFA2B9GAN**	220	792	466	**P3TKA00ES9G**
2"	**P3TFA2C9HAN**	330	1188	699	**P3TKA00ES9H**
2.1/2"	**P3TFA2D9JAN**	430	1548	911	**P3TKA00ES9J**
3"	**P3TFA2E9JAN**	430	1548	911	**P3TKA00ES9J**
2.1/2"	**P3TFA2D9KAN**	620	2232	1314	**P3TKA00ES9K**
3"	**P3TFA2E9KAN**	620	2232	1314	**P3TKA00ES9K**

Correction factors

Line pressure bar g	Line pressure psi g	Correction factor
1	15	0.38
2	29	0.53
3	44	0.65
4	58	0.76
5	73	0.85
6	87	0.93
7	100	1.00
8	116	1.07
9	131	1.13
10	145	1.19
11	160	1.25
12	174	1.31
13	189	1.36
14	203	1.41
15	218	1.46
16	232	1.51

To find the correction factor for 8.5 bar g (122psi g) =

$$\sqrt{\frac{\text{System Operating Pressure}}{\text{Nominal Pressure}}}$$

$$= \sqrt{\frac{8.5 \text{ bar g}}{7 \text{ bar g}}} = 1.10$$

Filter selection example

Selecting a filter model to match a system flow rate and pressure.
Example: System flow 1050 m³/hr at a pressure of 8.5 bar g

1. Obtain pressure correction factor from table or calculate factor using method shown. Correction factor for 8.5 bar g = 1.10
2. Divide system flow by correction factor to give equivalent flow rate at 7 bar g 1050m³/hr ÷ 1.10 = 955 m³/hr (at 7 bar g)
3. Select a filter model from the above table with a flow rate above or equal to 955 m³/hr. Filter model selected : P3TFA2C9HAN
4. Select pipe connection & Thread type System uses 2" piping and BSP threads: Model P3TFA2C9HAN

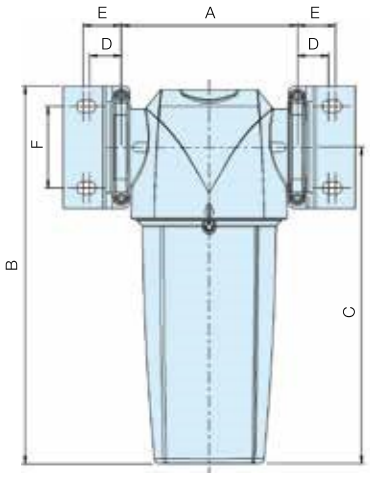
1 µm Filtration

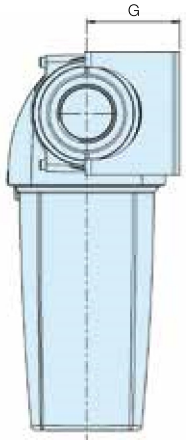
Technical data

Filter Grade	Drain type	Max operating pressure bar g	Max operating pressure psi g	Max recommended operating temp.		Min recommended operating temp.	
1 micron	Auto	16	232	80°C	176°F	1.5°C	35°F

Weights and dimensions

Port Size BSPT	Part Number	A		B		C		D		E		F		G		Weight		Modular Connection Kit	Wall Mounting Bracket Kit
		mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	kg	lbs		
1/4"	**P3TFA229AAN**	76.0	3.0	181.5	7.2	153.0	6.0	18.0	0.71	24.5	0.96	30.0	1.18	52.0	2.05	0.4	0.9	**P3TKA00CBA**	**P3TKA00MWA**
3/8"	**P3TFA239BAN**	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	**P3TKA00CBB**	**P3TKA00MWB**
1/2"	**P3TFA249CAN**	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	**P3TKA00CBB**	**P3TKA00MWB**
3/4"	**P3TFA269DAN**	129.0	5.1	275.0	10.8	232.5	9.2	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.2	4.8	**P3TKA00CBD**	**P3TKA00MWD**
1 "	**P3TFA289EAN**	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	**P3TKA00CBD**	**P3TKA00MWD**
1.1/4"	**P3TFA2A9EAN**	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	**P3TKA00CBD**	**P3TKA00MWD**
1.1/2"	**P3TFA2B9FAN**	170.0	6.7	432.5	17.0	382.5	15.1	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	4.5	9.9	**P3TKA00CBF**	**P3TKA00MWF**
1.1/2"	**P3TFA2B9GAN**	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	**P3TKA00CBF**	**P3TKA00MWF**
2"	**P3TFA2C9HAN**	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	**P3TKA00CBF**	**P3TKA00MWF**
2.1/2"	**P3TFA2D9JAN**	205.0	8.1	641.5	25.3	581.5	22.9	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	10.0	22.0	**P3TKA00CBJ**	**P3TKA00MWJ**
3"	**P3TFA2E9JAN**	205.0	8.1	641.5	25.3	581.5	22.9	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	10.0	22.0	**P3TKA00CBJ**	**P3TKA00MWJ**
2.1/2"	**P3TFA2D9KAN**	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	**P3TKA00CBJ**	**P3TKA00MWJ**
3"	**P3TFA2E9KAN**	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	**P3TKA00CBJ**	**P3TKA00MWJ**





Optional Accessories

DPI Kit

P3TKA00RQ

Incident Monitor

Used to indicate premature high differential pressure. Indicator can be retrofitted to existing housings without depressurising the system.

Modular Connection Kit

Fixing clamp allows quick and simple connection of multiple filter housings.

Wall Mounting Bracket Kit

Mounting brackets provide additional support to filters installed in flexible piping systems or OEM equipment.

Drain Kits

Auto drain	**P3TKA00DA**
Manual drain	**P3TKA00DM**

Oil Vapour Removal Filter

Fitration Grade

Filtration type	Oil vapour removal
Particle removal (inc water & oil aerosols)	N/A
Max remaining oil content at 21°C	0.003 mg/m³ 0.003 ppm(w)
Filter efficiency	N/A
Test methods used	ISO
8573.5 **ISO 12500-1 Inlet Challenge concentration**	N/A
Initial dry differential pressure	<200 mbar (3psi)
Initial saturated differential pressure	N/A
Change element every	When oil vapour is detected
Precede with filtration grade	0.01 micron Moduflex Coalescer filter

Product selection

Stated flows are for operation at 7 bar (g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures apply the correction factors shown.

Port Size BSPT	Part Number	dm³/s	m3/hr	cfm	Oil vapour removal Replacement Element Kit
1/4"	**P3TFA22AAMN**	10	36	21	**P3TKA00ESAA**
3/8"	**P3TFA23ABMN**	20	72	42	**P3TKA00ESAB**
1/2"	**P3TFA24ACMN**	30	108	64	**P3TKA00ESAC**
3/4"	**P3TFA26ADMN**	60	216	127	**P3TKA00ESAD**
1 "	**P3TFA28AEMN**	110	396	233	**P3TKA00ESAE**
1.1/4"	**P3TFA2AAEMN**	110	396	233	**P3TKA00ESAE**
1.1/2"	**P3TFA2BAFMN**	160	576	339	**P3TKA00ESAF**
1.1/2"	**P3TFA2BAGMN**	220	792	466	**P3TKA00ESAG**
2"	**P3TFA2CAHMN**	330	1188	699	**P3TKA00ESAH**
2.1/2"	**P3TFA2DAJMN**	430	1548	911	**P3TKA00ESAJ**
3"	**P3TFA2EAJMN**	430	1548	911	**P3TKA00ESAJ**
2.1/2"	**P3TFA2DAKMN**	620	2232	1314	**P3TKA00ESAK**
3"	**P3TFA2EAKMN**	620	2232	1314	**P3TKA00ESAK**

Correction factors

Line pressure bar g	Line pressure psi g	Correction factor
1	15	0.38
2	29	0.53
3	44	0.65
4	58	0.76
5	73	0.85
6	87	0.93
7	100	1.00
8	116	1.07
9	131	1.13
10	145	1.19
11	160	1.25
12	174	1.31
13	189	1.36
14	203	1.41
15	218	1.46
16	232	1.51
17	247	1.56
18	261	1.60
19	275	1.65
20	290	1.70

To find the correction factor for 8.5 bar g (122psi g) =

$$\sqrt{\frac{\text{System Operating Pressure}}{\text{Nominal Pressure}}}$$

$$= \sqrt{\frac{8.5 \text{ bar g}}{7 \text{ bar g}}} = 1.10$$

Filter selection example

Selecting a filter model to match a system flow rate and pressure.
Example: System flow 1050 m³/hr at a pressure of 8.5 bar g

1. Obtain pressure correction factor from table or calculate factor using method shown. Correction factor for 8.5 bar g = 1.10
2. Divide system flow by correction factor to give equivalent flow rate at 7 bar g 1050m³/hr ÷ 1.10 = 955 m³/hr (at 7 bar g)
3. Select a filter model from the above table with a flow rate above or equal to 955 m³/hr. Filter model selected : P3TFA2CAHMN
4. Select pipe connection & Thread type System uses 2" piping and BSP threads: Model P3TFA2CAHMN

Oil Vapour Removal Filter

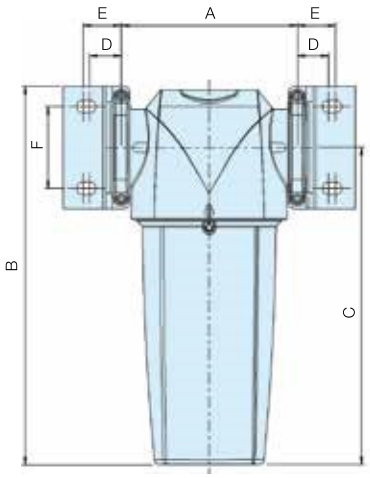
Technical data

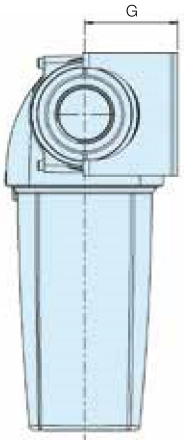
Filter Grade	Drain type	Max operating pressure bar g	Max operating pressure psi g	Max recommended operating temp.		Min recommended operating temp.	
Oil vapour removal	Manual	20	290	100°C	212°F	1.5°C	35°F

Weights and dimensions

Optional Accessories

Port Size BSPT	Part Number	A		B		C		D		E		F		G		Weight		Modular Connection Kit	Wall Mounting Bracket Kit
		mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	kg	lbs		
1/4”	**P3TFA22AAMN**	76.0	3.0	181.5	7.2	153.0	6.0	18.0	0.71	24.5	0.96	30.0	1.18	52.0	2.05	0.4	0.9	**P3TKA00CBA**	**P3TKA00MWA**
3/8”	**P3TFA23ABMN**	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	**P3TKA00CBB**	**P3TKA00MWB**
1/2”	**P3TFA24ACMN**	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	**P3TKA00CBB**	**P3TKA00MWB**
3/4”	**P3TFA26ADMN**	129.0	5.1	275.0	10.8	232.5	9.2	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.2	4.8	**P3TKA00CBD**	**P3TKA00MWD**
1 “	**P3TFA28AEMN**	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	**P3TKA00CBD**	**P3TKA00MWD**
1.1/4”	**P3TFA2AAEMN**	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	**P3TKA00CBD**	**P3TKA00MWD**
1.1/2”	**P3TFA2BAFMN**	170.0	6.7	432.5	17.0	382.5	15.1	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	4.5	9.9	**P3TKA00CBF**	**P3TKA00MWF**
1.1/2”	**P3TFA2BAGMN**	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	**P3TKA00CBF**	**P3TKA00MWF**
2”	**P3TFA2CAHMN**	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	**P3TKA00CBF**	**P3TKA00MWF**
2.1/2”	**P3TFA2DAJMN**	205.0	8.1	641.5	25.3	581.5	22.9	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	10.0	22.0	**P3TKA00CBJ**	**P3TKA00MWJ**
3”	**P3TFA2EAJMN**	205.0	8.1	641.5	25.3	581.5	22.9	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	10.0	22.0	**P3TKA00CBJ**	**P3TKA00MWJ**
2.1/2”	**P3TFA2DAKMN**	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	**P3TKA00CBJ**	**P3TKA00MWJ**
3”	**P3TFA2EAKMN**	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	**P3TKA00CBJ**	**P3TKA00MWJ**





Modular Connection Kit

Fixing clamp allows quick and simple connection of multiple filter housings.

Wall Mounting Bracket Kit

Mounting brackets provide additional support to filters installed in flexible piping systems or OEM equipment.

Drain Kits

Auto drain	**P3TKA00DA**
Manual drain	**P3TKA00DM**

High Efficiency Bulk Liquid Removal

- Tested in accordance with ISO 8573.9
- Performance independently verified by Lloyds Register
- High liquid removal efficiencies at all flow conditions
- Low pressure losses for low operational costs
- Multiple port sizes for a given flow rate provides increased flexibility during installation
- Suitable for variable flow compressors
- Works with all types of compressor and compressor condensate
- Low maintenance
- 10 Year Housing Guarantee

Typical Applications

- Bulk liquid removal at any point in a compressed air system
- Protection of refrigeration and adsorption dryer pre-filtration
- Liquid removal from compressor inter-coolers / after-coolers
- Liquid separation within refrigeration dryers

Product selection

Stated flows are for operation at 7 bar (g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure.

Port Size	Part Number	dm^3/s	m3/hr	cfm	Max operating pressure		Max Operating temperature		Min Operating temperature	
					bar g	psi g				
1/4”	**P3TFA22WAAN**	10	36	21	16	232	80 C	176 F	1.5 C	35 F
3/8”	**P3TFA23WBAN**	40	144	85	16	232	80 C	176 F	1.5 C	35 F
1/2”	**P3TFA24WCAN**	40	144	85	16	232	80 C	176 F	1.5 C	35 F
3/4”	**P3TFA26WDAN**	110	396	233	16	232	80 C	176 F	1.5 C	35 F
1”	**P3TFA28WEAN**	110	396	233	16	232	80 C	176 F	1.5 C	35 F
1.1/4”	**P3TFA2AWFAN**	350	1260	742	16	232	80 C	176 F	1.5 C	35 F
1.1/2”	**P3TFA2BWGAN**	350	1260	742	16	232	80 C	176 F	1.5 C	35 F
2”	**P3TFA2CWHAN**	350	1260	742	16	232	80 C	176 F	1.5 C	35 F
2.1/2”	**P3TFA2DWKAN**	800	2880	1695	16	232	80 C	176 F	1.5 C	35 F
3”	**P3TFA2EWKAN**	800	2880	1695	16	232	80 C	176 F	1.5 C	35 F

Correction factors

Line pressure bar g	psi g	Correction factor
1	15	0.25
2	29	0.38
3	40	0.50
4	58	0.63
5	73	0.75
6	87	0.88
7	100	1.00
8	116	1.06
9	131	1.12
10	145	1.17
11	160	1.22
12	174	1.27
13	189	1.32
14	203	1.37
15	218	1.41
16	232	1.46

To find the correction factor for 8 bar g =

$$\sqrt{\frac{\text{System Operating Pressure}}{\text{Nominal Pressure}}}$$

$$= \sqrt{\frac{8 \text{ bar g}}{7 \text{ bar g}}} = 1.06$$

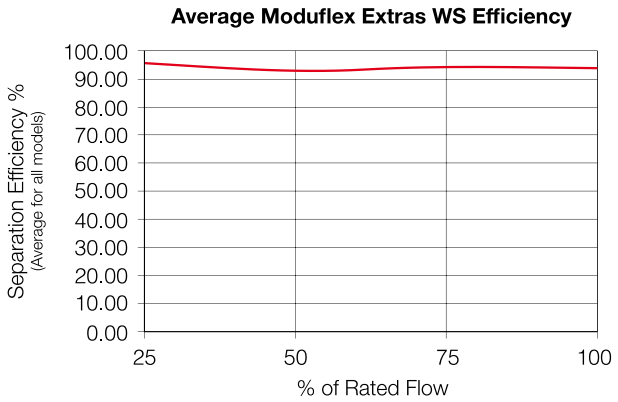
Filter selection example

Selecting a Water Separator model to match a system flow rate and pressure.
Example: System flow 1050 m^3/hr at a pressure of 8 bar g

1. Obtain pressure correction factor from table.
Correction factor for 8 bar g = 1.06
2. Divide system flow by correction factor to give equivalent flow rate at 7 bar g
1050m^3/hr ÷ 1.06 = 984 m^3/hr (at 7 bar g)
3. Select a filter model from the above table with a flow rate above or equal to 984 m^3/hr. Suitable Water Separator models : P3TFA2AWFAN
P3TFA2AWGAN
P3TFA2AWHAN
4. Select pipe connection & Thread type
System uses 1.1/2" piping and BSP threads: Model P3TFA2BWGAN

High Efficiency Bulk Liquid Removal

Separation Efficiency

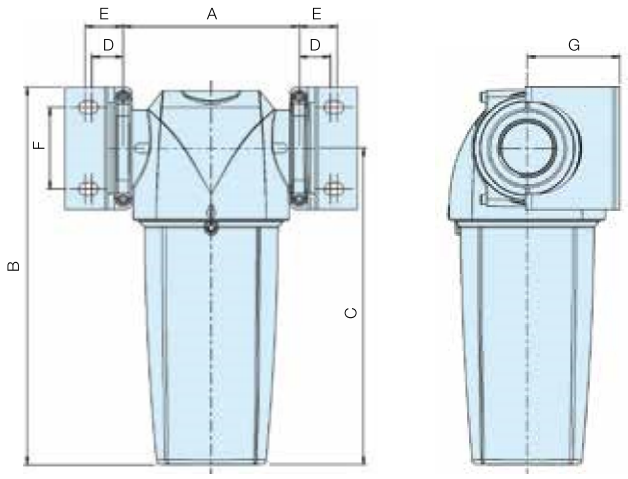


Tested with an inlet challenge concentration of 33ml/m3hr and in accordance with ISO 8573.9.
Performance shown is an average for all models in range. Individual model performance available on request.

Weights and dimensions

Optional Accessories

Port Size BSPT	Part Number	A		B		C		D		E		F		G		Weight		Modular Connection Kit	Wall Mounting Bracket Kit
		mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	ins	kg	lbs		
1/4”	**P3TFA22WAAN**	76.0	3.0	181.5	7.2	153.0	6.0	18.0	0.71	24.5	0.96	30.0	1.18	52.0	2.05	0.4	0.9	**P3TKA00CBA**	**P3TKA00MWA**
3/8”	**P3TFA23WBAN**	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	**P3TKA00CBB**	**P3TKA00MWB**
1/2”	**P3TFA24WCAN**	97.5	3.8	235.0	9.3	201.0	7.9	20.5	0.81	25.5	1.00	40.0	1.57	60.0	2.36	1.0	2.2	**P3TKA00CBB**	**P3TKA00MWB**
3/4”	**P3TFA26WDAN**	129.0	5.1	275.0	10.8	232.5	9.2	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.2	4.8	**P3TKA00CBD**	**P3TKA00MWD**
1 “	**P3TFA28WEAN**	129.0	5.1	364.5	14.3	322.0	12.7	23.0	0.91	28.0	1.10	60.0	2.36	68.0	2.68	2.6	5.7	**P3TKA00CBD**	**P3TKA00MWD**
1.1/4”	**P3TFA2BWFAN**	170.0	6.7	432.5	17.0	382.5	15.1	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	4.5	9.9	**P3TKA00CBF**	**P3TKA00MWF**
1.1/2”	**P3TFA2BWGAN**	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	**P3TKA00CBF**	**P3TKA00MWF**
2”	**P3TFA2CWHAN**	170.0	6.7	524.5	20.6	474.5	18.7	32.0	1.26	39.0	1.54	84.0	3.31	92.0	3.62	5.3	11.6	**P3TKA00CBF**	**P3TKA00MWF**
2.1/2”	**P3TFA2DWKAN**	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	**P3TKA00CBJ**	**P3TKA00MWJ**
3”	**P3TFA2EWKAN**	205.0	8.1	832.0	32.8	772.0	30.4	35.5	1.40	42.5	1.67	100.0	3.94	135.0	5.31	12.0	26.4	**P3TKA00CBJ**	**P3TKA00MWJ**



Modular Connection Kit

Fixing clamp allows quick and simple connection of multiple filter housings.

Wall Mounting Bracket Kit

Mounting brackets provide additional support to filters installed in flexible piping systems or OEM equipment.

Selection Criteria

To correctly select the dryer best suited for your application, the following details are required to ensure optimum performance and trouble free operation.

- **Maximum Inlet Flow.**
- **Minimum Inlet Pressure.**
- **Maximum Inlet Temperature.**

Once these operating parameters have been established, you can select the most economical Dry Air System for your application.

Technical Specifications

Flow Range:		85 L/min to 567 L/min at 7 bar
Minimum Operating Pressure:		4 bar
Maximum Operating Pressure:		12 bar
Minimum Operating Temperature:		1.5°C
Maximum Inlet Temperature:		50°C
Noise Level (Average):		≤ 70dB(A)
Pressure Dewpoint	**(Standard):**	-40°C pdp
	(Optional):	-70°C pdp
Standard Electrical Supply:		230/1ph/50Hz (Tolerance +/- 10%)
		115/1ph/60Hz (Tolerance +/- 10%)
Controls:		Electronic Control Timer
Inlet Connections:		G3/8
Outlet Connections:		G3/8

Ordering Information

P3	T	J	A	☐	3	A	☐	☐	N

Thread type	
1	BSPP
9	NPT

Size
1
2
3
4
5
6
7

Supply Voltage	
A	(230 V AC)
C	(24 V AC)
J	(110 V AC)

Note: Bold options are standard