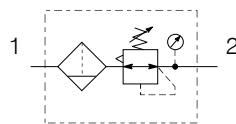


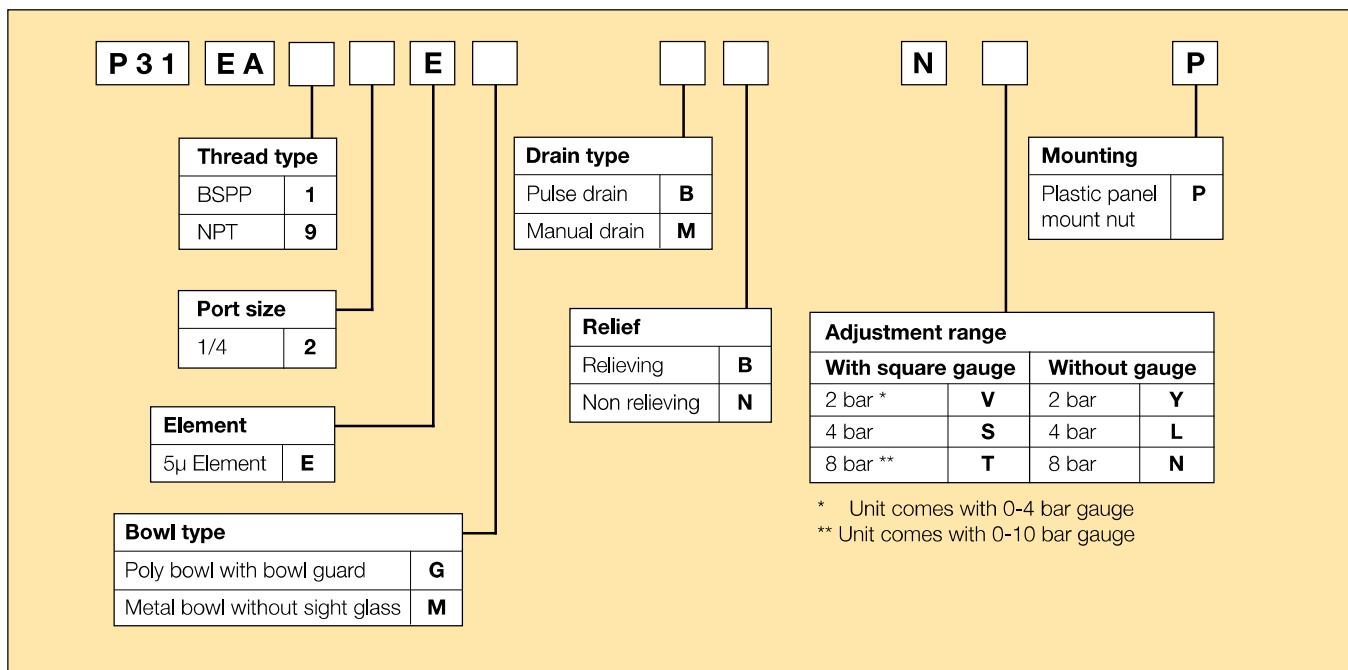
## Mini Filter / Regulator P31

## Symbols



- Integral 1/4 ports (BSPP & NPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminium construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges 2, 4 & 8 bar
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.

## Options:



Port size	Description	Order Code	Flow dm <sup>3</sup> /s *	Max bar *	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/4"	8 bar (125 psi) Relieving - Poly bowl - Manual drain	<b>P31EA12EGMBNTP</b>	14 (30)	10 (150)	164.1 (6.46)	40 (1.58)	64 (2.53)
1/4"	8 bar (125 psi) Relieving - Poly bowl - Pulse drain	<b>P31EA12EGBBNTP</b>	14 (30)	10 (150)	164.1 (6.46)	40 (1.58)	64 (2.53)
1/4"	8 bar (125 psi) Relieving - Metal bowl - Manual drain	<b>P31EA12EMMBNTP</b>	14 (30)	17 (250)	164.1 (6.46)	40 (1.58)	64 (2.53)
1/4"	8 bar (125 psi) Relieving - Metal bowl - Pulse drain	<b>P31EA12EMBBNTP</b>	14 (30)	17 (250)	164.1 (6.46)	40 (1.58)	64 (2.53)

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

## Specifications

Flow Capacity*	1/4	14 dm <sup>3</sup> /s (30.0 scfm)
Operating Temperature	Plastic Bowl Metal Bowl	-10°C (14°F) to 52°C (125°F) -10°C (14°F) to 65.5°C (150°F)
Max Supply Pressure	Plastic Bowl Metal Bowl	10 bar (150 psi) 17 bar (250 psi)
Standard Filtration		5 Micron
Useful Retention		12 cm <sup>3</sup> (0.4 US oz.)
Adjusting Range Pressure		0-2 bar (30 psi) 0-4 bar (60 psi) 0-8 bar (125 psi)
Port Size	BSPP / NPT	1/4
Gauge Port (2 ea.)**	BSPP / NPT	1/8
Weight		0.19 kg (0.42 lbs)

\* Inlet pressure 10 bar. Secondary pressure 6.3 bar.

\*\* Non-gauge option only.

### Air quality:

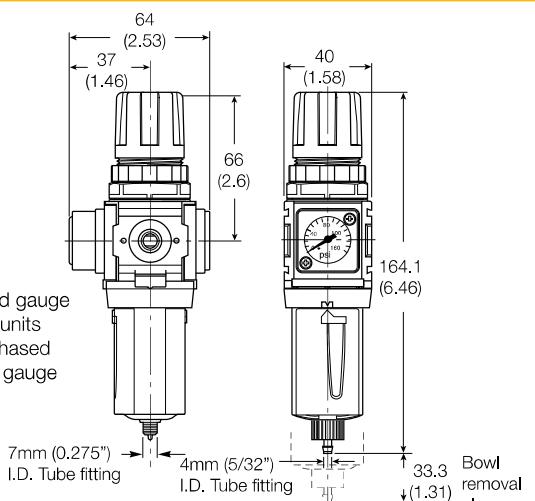
Within ISO 8573-1: 1991 Class 3 (Particulates)  
Within ISO 8573-1: 2001 Class 6 (Particulates)

## Materials of Construction

Body	Aluminium	
Adjustment Knob	Acetal	
Body Cap	ABS	
Bonnet	PBT	
Bowl	Plastic Bowl	Polycarbonate
	Metal Bowl	Aluminium
Bowl Guard	Nylon	
Filter Element	Polyethylene	
Seals	Plastic Bowl	Nitrile
	Metal Bowl	Nitrile
Springs	Steel	
Valve Assembly	Brass / Nitrile	
Diaphragm Assembly	Brass / Nitrile	
Panel Nut	Acetal	

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

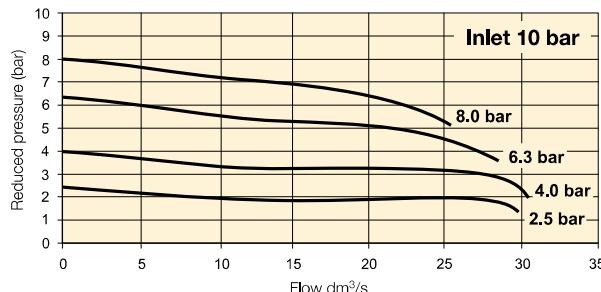
## Dimensions



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

## Flow Charts

### 1/4 Filter/Regulator



## Repair and Service Kits

Plastic bowl / Bowl guard manual drain	<b>P31KA00BGM</b>
Metal bowl / w/o sight gauge manual drain	<b>P31KA00BMM</b>
Plastic bowl / Bowl guard pulse drain	<b>P31KA00BGB</b>
Metal bowl / w/o sight gauge pulse drain	<b>P31KA00BMB</b>
5μ particle filter element	<b>P31KA00ESE</b>
Panel mount nut - Aluminium	<b>P31KA00MM</b>
Panel mount nut - Plastic	<b>P31KA00MP</b>
Angle Bracket (uses panel mount threads)	<b>P31KA00MR</b>
C-Bracket (fits to body)	<b>P31KA00MW</b>
T-Bracket with body connector	<b>P31KA00MT</b>
Body connector	<b>P31KA00CB</b>

## Gauges

### Square flush mount gauge

replacement for unit ordered with square gauge

0-4 bar	<b>K4511SCR04B</b>
0-10 bar	<b>K4511SCR11B</b>

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

for units ordered without square gauge

0-30 PSIG / 0-2 bar	<b>P3D-KAB1AYN</b>
0-58 PSIG / 0-4 bar	<b>P3D-KAB1ALN</b>
0-160 PSIG / 0-10 bar	<b>P3D-KAB1ANN</b>

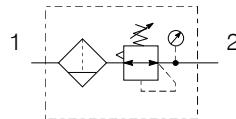
### WARNING

**Product rupture can cause serious injury.**  
**Do not connect regulator to bottled gas.**  
**Do not exceed maximum primary pressure rating.**

## Compact Filter / Regulator P32

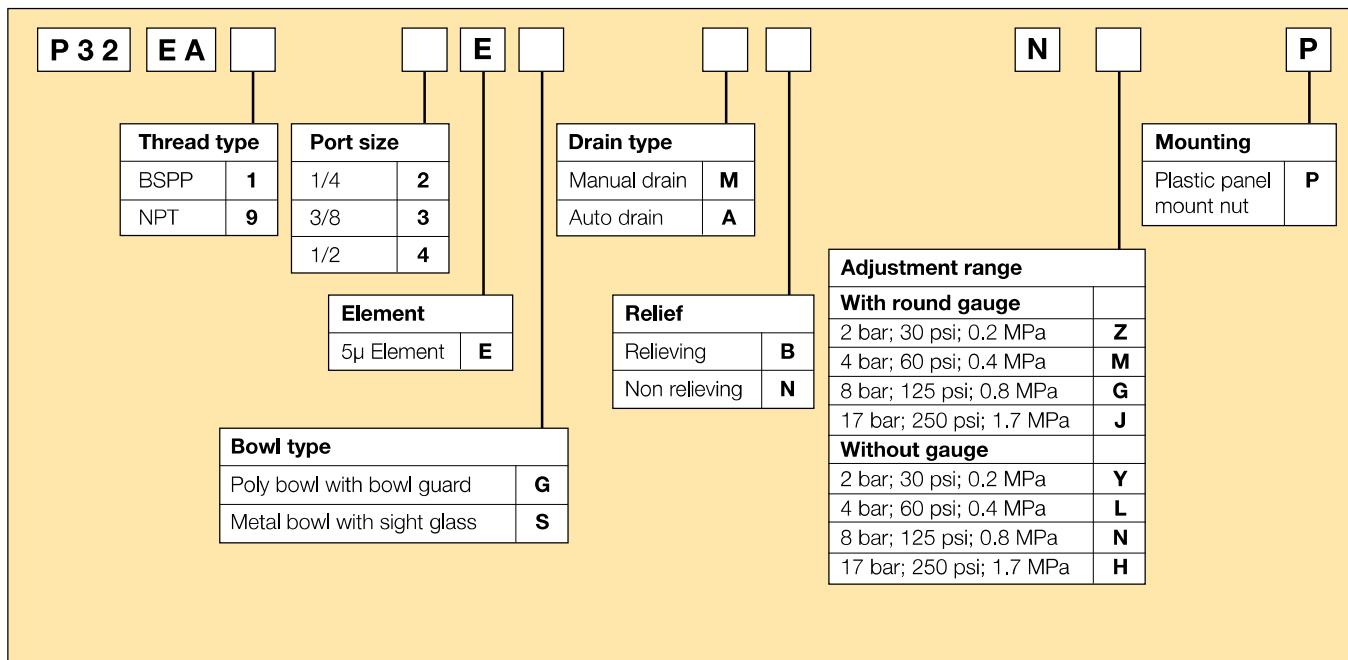


## Symbols



- Integral 1/4, 3/8 or 1/2 ports (BSPP & NPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminium construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges 2, 4, 8 & 17 bar
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.

## Options:



Port size	Description	Order Code	Flow dm <sup>3</sup> /s *	Max bar *	Max (psi) *	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/4"	8 bar (125 psi) Relieving - Poly bowl - Manual drain	<b>P32EA12EGMBNGP</b>	42	(89)	10 (150)	254 (10.0)	60 (2.36)	60 (2.36)
1/4"	8 bar (125 psi) Relieving - Poly bowl - Auto drain	<b>P32EA12EGABNGP</b>	42	(89)	10 (150)	248 (9.76)	60 (2.36)	60 (2.36)
1/4"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	<b>P32EA12ESMBNGP</b>	42	(89)	17 (250)	245 (9.66)	60 (2.36)	60 (2.36)
1/4"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	<b>P32EA12ESABNGP</b>	42	(89)	17 (250)	248 (9.76)	60 (2.36)	95 (3.74)
3/8"	8 bar (125 psi) Relieving - Poly bowl - Manual drain	<b>P32EA13EGMBNGP</b>	58	(123)	10 (150)	254 (10.0)	60 (2.36)	60 (2.36)
3/8"	8 bar (125 psi) Relieving - Poly bowl - Auto drain	<b>P32EA13EGABNGP</b>	58	(123)	10 (150)	248 (9.76)	60 (2.36)	60 (2.36)
3/8"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	<b>P32EA13ESMBNGP</b>	58	(123)	17 (250)	245 (9.66)	60 (2.36)	60 (2.36)
3/8"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	<b>P32EA13ESABNGP</b>	58	(123)	17 (250)	248 (9.76)	60 (2.36)	95 (3.74)
1/2"	8 bar (125 psi) Relieving - Poly bowl - Manual drain	<b>P32EA14EGMBNGP</b>	64	(136)	10 (150)	245 (9.66)	60 (2.36)	95 (3.74)
1/2"	8 bar (125 psi) Relieving - Poly bowl - Auto drain	<b>P32EA14EGABNGP</b>	64	(136)	10 (150)	248 (9.76)	60 (2.36)	95 (3.74)
1/2"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	<b>P32EA14ESMBNGP</b>	64	(136)	17 (250)	254 (10.0)	60 (2.36)	60 (2.36)
1/2"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	<b>P32EA14ESABNGP</b>	64	(136)	17 (250)	248 (9.76)	60 (2.36)	60 (2.36)

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

## Specifications

Flow Capacity*	1/4	42 dm <sup>3</sup> /s (89 scfm)
	3/8	58 dm <sup>3</sup> /s (123 scfm)
	1/2	64 dm <sup>3</sup> /s (136 scfm)
Operating Temperature	Plastic Bowl	-25°C (-13°F) to 52°C (125°F)
	Metal Bowl	-25°C (-13°F) to 65.5°C (150°F)
Max Supply Pressure	Plastic Bowl	10 bar (150 psi)
	Metal Bowl	17 bar (250 psi)
Standard Filtration		5 Micron
Useful Retention**		51 cm <sup>3</sup> (1.7 US oz.)
Adjusting Range Pressure		0-2 bar (30 psi)
		0-4 bar (60 psi)
		0-8 bar (125 psi)
		0-17 bar (250 psi)
Port Size	BSPP / NPT	1/4, 3/8, 1/2
Gauge Port (2 ea.)	BSPP / NPT	1/4
Weight		0.53 kg (1.17 lbs)

\* Inlet pressure 10 bar. Secondary pressure 6.3 bar.

\*\* Useful retention refers to volume below the quiet zone baffle.

### Air quality:

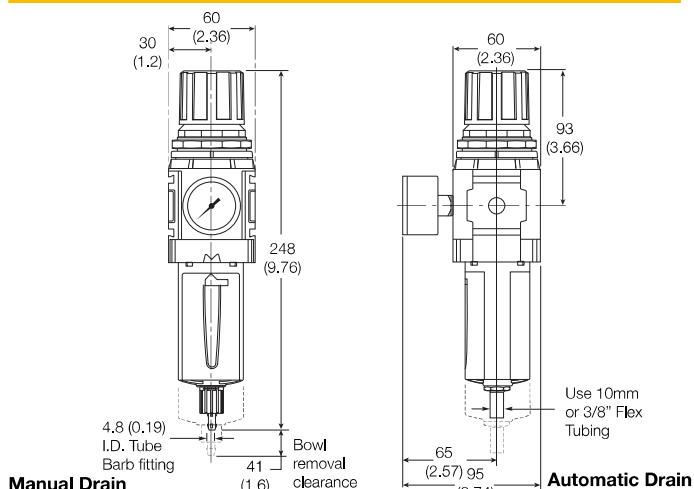
Within ISO 8573-1: 1991 Class 3 (Particulates)

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

## Materials of Construction

Body	Aluminium	
Adjustment Knob	Acetal	
Body Cap	ABS	
Element Retainer / Baffle	Acetal	
Bowl	Plastic Bowl	Polycarbonate
	Metal Bowl	Zinc
Bowl Guard	Nylon	
Filter Element	Sintered Polyethylene	
Seals	Plastic Bowl	Nitrile
	Metal Bowl	Nitrile
Springs	Main Regulating / Valve	Steel / S.S.
Valve Assembly		Brass / Nitrile
Diaphragm Assembly		Nitrile / Zinc
Panel Nut	Acetal	
Sight Gauge	Metal Bowl	Polycarbonate

## Dimensions

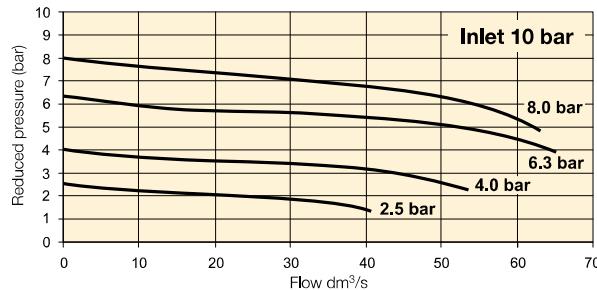


### WARNING

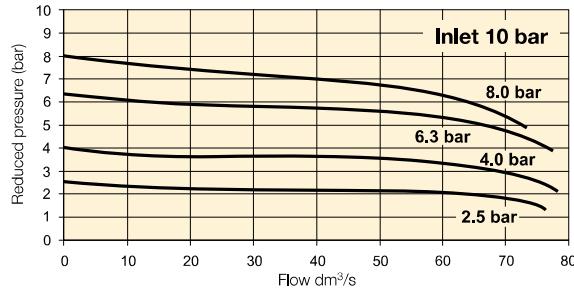
**Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed maximum primary pressure rating.**

## Flow Charts

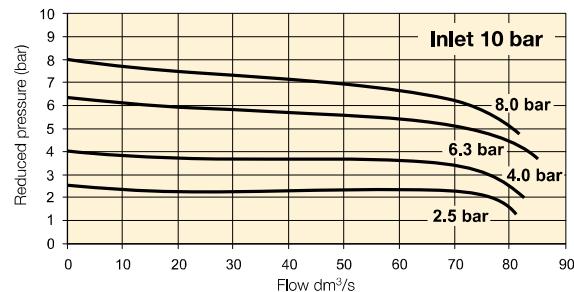
### 1/4 Filter/Regulator



### 3/8 Filter/Regulator



### 1/2 Filter/Regulator



## Repair and Service Kits

Plastic bowl / Bowl guard manual drain	<b>P32KA00BGM</b>
Metal bowl / Sight gauge manual drain	<b>P32KA00BSM</b>
Auto drain	<b>P32KA00DA</b>
5µ particle filter element	<b>P32KA00ESE</b>
Panel mount nut - Aluminium	<b>P32KA00MM</b>
Panel mount nut - Plastic	<b>P32KA00MP</b>
Angle Bracket (fits to panel mount threads)	<b>P32KA00MR</b>
T-Bracket (fits to body connector)	<b>P32KA00MB</b>
T-Bracket with body connector	<b>P32KA00MT</b>
Body connector	<b>P32KA00CB</b>

## Gauges

### 50mm (2") Round 1/4" center back mount

for units ordered without square gauge

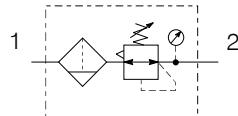
0-60 PSIG / 0-4 bar / 0-0.4 MPa	<b>P6G-ERB2040</b>
0-160 PSIG / 0-11 bar / 0-1.1 MPa	<b>P6G-ERB2110</b>
0-300 PSIG / 0-20 bar / 0-2 MPa	<b>P6G-ERB2200</b>

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

## Standard Filter / Regulator P33

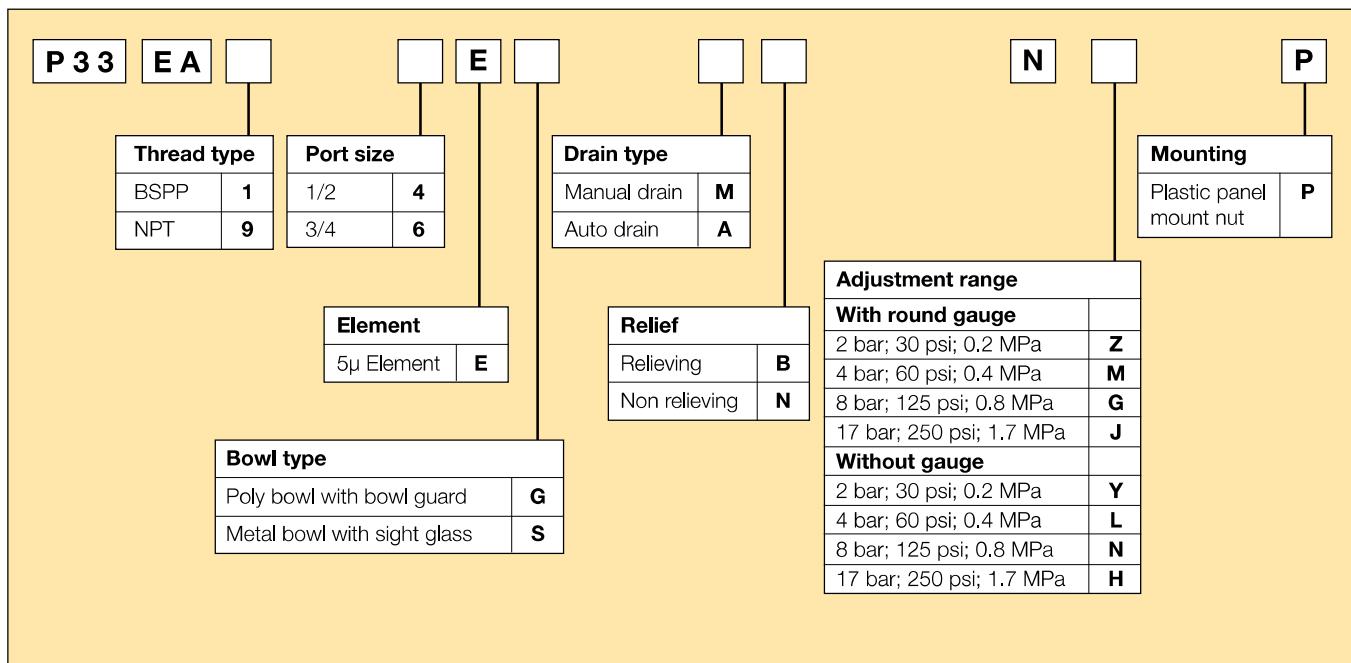


## Symbols



- Integral 1/2 or 3/4 ports (BSPP & NPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminium construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges 2, 4, 8 & 17 bar
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.

## Options:



Port size	Description	Order Code	Flow dm³/s *	Max bar *	Max (psi) *	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/2"	8 bar (125 psi) Relieving - Poly bowl - Manual drain	P33EA14EGMBNGP	90	(191)	10 (150)	282 (11.0)	73 (2.9)	73 (2.9)
1/2"	8 bar (125 psi) Relieving - Poly bowl - Auto drain	P33EA14EGABNGP	90	(191)	10 (150)	291 (11.44)	73 (2.9)	73 (2.9)
1/2"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	P33EA14ESMBNGP	90	(191)	17 (250)	282 (11.0)	73 (2.9)	73 (2.9)
1/2"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	P33EA14ESABNGP	90	(191)	17 (250)	291 (11.44)	73 (2.9)	108 (4.27)
3/4"	8 bar (125 psi) Relieving - Poly bowl - Manual drain	P33EA16EGMBNGP	98	(208)	10 (150)	282 (11.0)	73 (2.9)	108 (4.27)
3/4"	8 bar (125 psi) Relieving - Poly bowl - Auto drain	P33EA16EGABNGP	98	(208)	10 (150)	291 (11.44)	73 (2.9)	108 (4.27)
3/4"	8 bar (125 psi) Relieving - Metal bowl sight glass - Manual drain	P33EA16ESMBNGP	98	(208)	17 (250)	282 (11.00)	73 (2.9)	73 (2.9)
3/4"	8 bar (125 psi) Relieving - Metal bowl sight glass - Auto drain	P33EA16ESABNGP	98	(208)	17 (250)	291 (11.44)	73 (2.9)	73 (2.9)

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

## Specifications

Flow Capacity*	1/2 3/4	90 dm <sup>3</sup> /s (191 scfm) 98 dm <sup>3</sup> /s (208 scfm)
Operating Temperature	Plastic Bowl Metal Bowl	-25°C (-13°F) to 52°C (125°F) -25°C (-13°F) to 65.5°C (150°F)
Supply Pressure	Plastic Bowl Metal Bowl	10 bar (150 psi) 17 bar (250 psi)
Standard Filtration		5 Micron
Useful Retention**		85 cm <sup>3</sup> (2.8 US oz.)
Adjusting Range Pressure		0-2 bar (30 psi) 0-4 bar (60 psi) 0-8 bar (125 psi) 0-17 bar (250 psi)
Port Size	BSPP / NPT	1/2, 3/4
Gauge Port (2 ea.)	BSPP / NPT	1/4
Weight		0.85 kg (1.87 lbs)

\* Inlet pressure 10 bar. Secondary pressure 6.3 bar.

\*\* Useful retention refers to volume below the quiet zone baffle.

### Air quality:

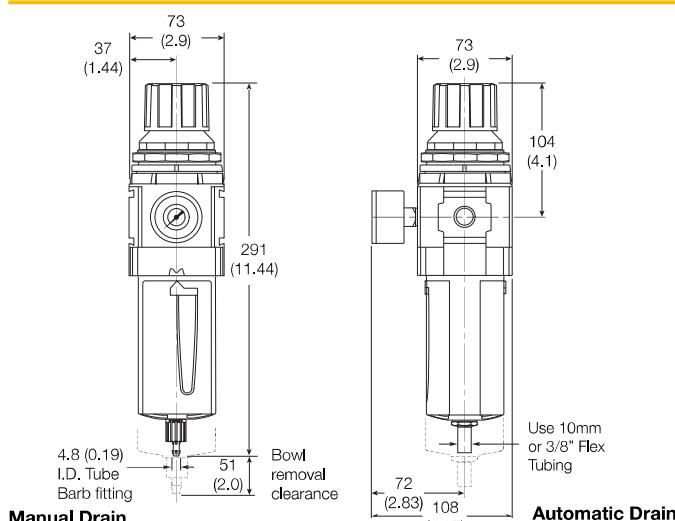
Within ISO 8573-1: 1991 Class 3 (Particulates)

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

## Materials of Construction

Body	Aluminium	
Adjustment Knob	Acetal	
Body Cap	ABS	
Element Retainer / Baffle	Acetal	
Bowls	Plastic Bowl Metal Bowl	Polycarbonate Aluminium
Filter Element	Sintered Polyethylene	
Seals	Plastic Bowl Metal Bowl	Nitrile Nitrile
Springs	Main Regulating / Valve	Steel / S.S.
Valve Assembly		Brass / Nitrile
Diaphragm Assembly		Nitrile / Zinc
Panel Nut		Acetal
Sight Gauge	Metal Bowl	Polycarbonate

## Dimensions

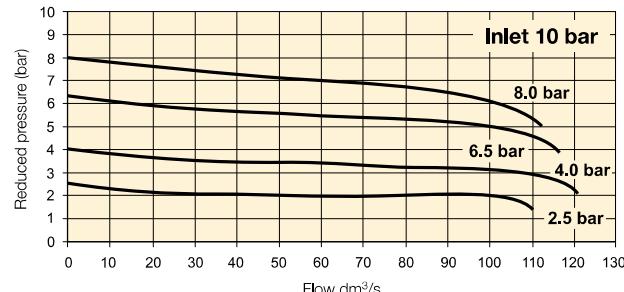


### WARNING

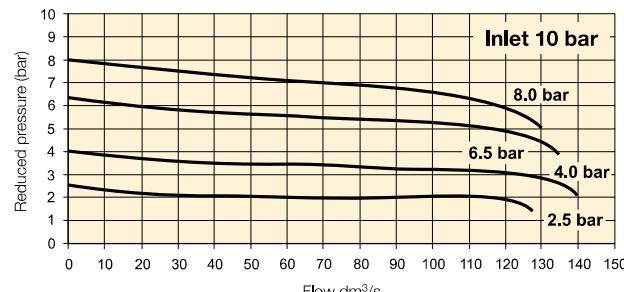
**Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed maximum primary pressure rating.**

## Flow Charts

### 1/2 Filter/Regulator



### 3/4 Filter/Regulator



## Repair and Service Kits

Plastic bowl / Bowl guard manual drain	<b>P33KA00BGM</b>
Metal bowl / Sight gauge manual drain	<b>P33KA00BSM</b>
Auto drain	<b>P33KA00DA</b>
5μ particle filter element	<b>P33KA00ESE</b>
Panel mount nut - Aluminium	<b>P33KA00MM</b>
Panel mount nut - Plastic	<b>P33KA00MP</b>
Angle Bracket (fits to panel mount threads)	<b>P33KA00MR</b>
T-Bracket (fits to body connector)	<b>P32KA00MB</b>
T-Bracket with body connector	<b>P32KA00MT</b>
Body connector	<b>P32KA00CB</b>

## Gauges

### 50mm (2") Round 1/4" center back mount

for units ordered without square gauge

0-60 PSIG / 0-4 bar / 0-0.4 MPa	<b>P6G-ERB2040</b>
0-160 PSIG / 0-11 bar / 0-1.1 MPa	<b>P6G-ERB2110</b>
0-300 PSIG / 0-20 bar / 0-2 MPa	<b>P6G-ERB2200</b>

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.