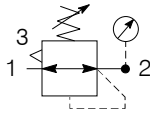


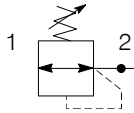
Mini Regulator P31



Symbols



Self relieving regulator with gauge



Non relieving regulator

- Integral 1/4 ports (BSPP & NPT)
- Robust but lightweight aluminium construction
- Secondary pressure ranges 2, 4 & 8 bar
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Relieving & Non-relieving types
- Non-rising knob

Options:

P 3 1

R A

Thread type	
BSPP	1
NPT	9

Port size	
1/4	2

Relief	
Relieving	B
Non relieving	N

Adjustment range			
With square gauge		Without gauge	
2 bar *	V	2 bar	Y
4 bar	S	4 bar	L
8 bar **	T	8 bar	N

* Unit comes with 0-4 bar gauge
** Unit comes with 0-10 bar gauge

N

Mounting	
Plastic panel mount nut	P

Port size	Description	Order Code	Flow dm ³ /s (scfm) * *		Max bar (psi)	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/4"	8 bar relieving	P31RA12BNNP	30	(64)	20 (300)	100.1 (3.94)	40 (1.58)	40 (1.58)
1/4"	8 bar relieving + gauge	P31RA12BNTTP	30	(64)	20 (300)	100.1 (3.94)	40 (1.58)	64.3 (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	30 dm³/s (64 scfm)
Operating Temperature	-20°C (-4°F) to 65.5°C (150°F)	
Max Supply Pressure	20 bar (300 psi)	
Adjusting Range Pressure	0-2 bar (30 psi) 0-4 bar (60 psi) 0-8 bar (125 psi)	
Port Size	BSPP / NPT	1/4
Gauge Port (2 ea.)**	BSPP / NPT	1/8
Weight	0.17 kg (0.37 lbs)	

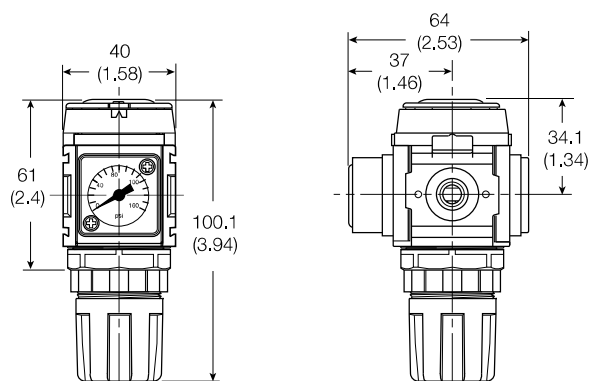
* Inlet pressure 10 bar. Secondary pressure 6.3 bar.

** Non-gauge option only.

Materials of Construction

Body	Aluminium
Adjustment Knob	Acetal
Body Cap	ABS
Bonnet	PBT
Diaphragm Assembly	Brass / Nitrile
Bottom Plug	33% Glass-Filled Nylon
Valve Assembly	Brass / Nitrile
Springs	Steel
Seals	Nitrile
Panel Nut	Acetal

Dimensions



NOTE: 31.7 mm hole required for panel nut mounting.



WARNING

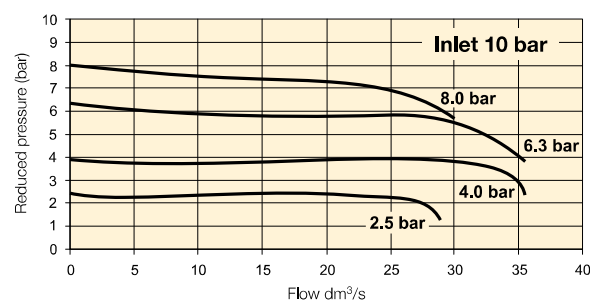
**Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.**

CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

Flow Charts

1/4 Regulator



Repair and Service Kits

Panel mount nut - Aluminium	P31KA00MM
Panel mount nut - Plastic	P31KA00MP
Angle Bracket (uses panel mount threads)	P31KA00MR
C-Bracket (fits to body)	P31KA00MW
T-Bracket with body connector	P31KA00MT
Body connector	P31KA00CB

Gauges

Square flush mount gauge

replacement for unit ordered with square gauge

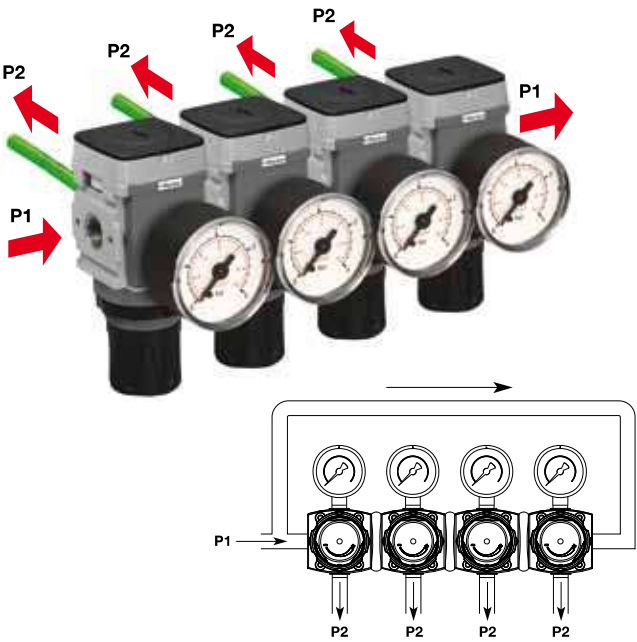
0-4 bar	K4511SCR04B
0-10 bar	K4511SCR11B

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

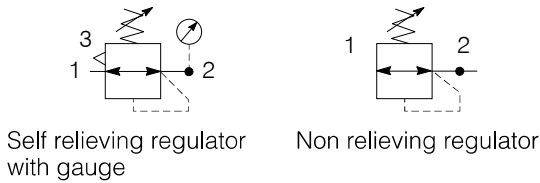
for units ordered without square gauge

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

Mini Common - P1 Regulator P31



Symbols



- Manifold style regulator with line pressure on both sides.
- Pressure output is at front or rear.
- Integral 1/4 ports (BSPP & NPT)
- Robust construction
- Secondary pressure ranges 2, 4 & 8 bar
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Relieving & Non-relieving types
- Non-rising knob

Options:

P 3 1

HA

Thread type	
BSPP	1
NPT	9

Port size	
1/4	2

Relief	
Relieving	B
Non relieving	N

Adjustment range	
Without gauge	
2 bar; 30 psi; 0.2 MPa	Y
4 bar; 60 psi; 0.4 MPa	L
8 bar; 125 psi; 0.8 MPa	N

N

P

Mounting	
Plastic panel mount nut	P

Note: Only round gauges to be used on common regulator, Order gauges separately- see page 33.

Port size	Description	Order Code	Flow dm ³ /s (scfm) * *	Max bar (psi)	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/4"	8 bar (125 psi) Relieving	P31HA12BNNP	7 (16)	20 (300)	100.1 (3.94)	40 (1.58)	40 (1.58)

* 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	7 dm³/s (16 scfm)
Operating Temperature	-20°C (-4°F) to 65.5°C (150°F)	
Max Supply Pressure	20 bar (300 psi)	
Adjusting Range Pressure	0-2 bar (30 psi) 0-4 bar (60 psi) 0-8 bar (125 psi)	
P1 Port Size (Inlet / Outlet)	BSPP / NPT	1/4
P2 Regulated Ports (2 ea.)	BSPP / NPT	1/8
Weight	0.30 kg (0.66 lbs)	

* Inlet pressure 10 bar. Secondary pressure 6.3 bar.

Materials of Construction

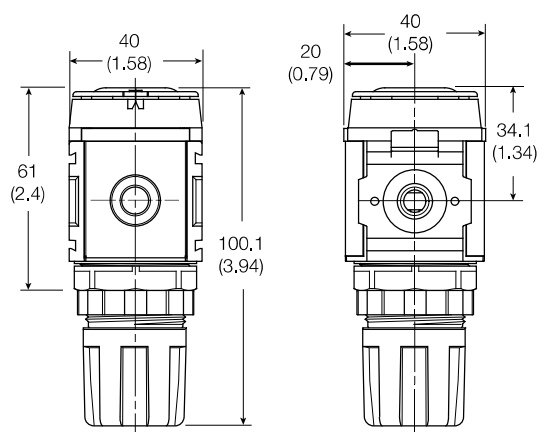
Body	Zinc
Adjustment Knob	Acetal
Body Cap	ABS
Bonnet	33% Glass-filled PBT
Diaphragm Assembly	Brass / Nitrile
Bottom Plug	33% Glass-filled Nylon
Valve Assembly	Brass / Nitrile



WARNING

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

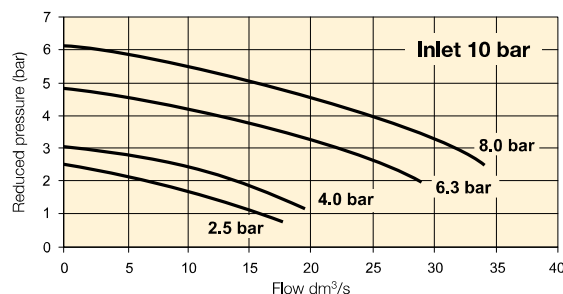
Dimensions



NOTE: 31.8 mm hole required for panel nut mounting.

Flow Charts

1/4 Common Regulator



Gauges

40mm (1 1/2") Round 1/8" center back mount
for units ordered without square gauge

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

Repair and Service Kits

Panel mount nut - Aluminium	P31KA00MM
Panel mount nut - Plastic	P31KA00MP
Angle Bracket (uses panel mount threads)	P31KA00MR
T-Bracket with body connector	P31KA00MT
Body connector	P31KA00CB

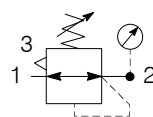
CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

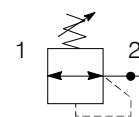
Compact Regulator P32



Symbols



Self relieving regulator
with gauge



Non relieving regulator

- Integral 1/4, 3/8 or 1/2 ports (BSPP & NPT)
- Robust but lightweight aluminium construction
- Secondary pressure ranges 2, 4, 8 & 17 bar
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Relieving & Non-relieving types
- Non-rising knob

Options:

P 3 2	R A				N		P
Thread type BSPP 1 NPT 9		Port size 1/4 2 3/8 3 1/2 4		Relief Relieving B Non relieving N		Adjustment range With round gauge 2 bar; 30 psi; 0.2 MPa Z 4 bar; 60 psi; 0.4 MPa M 8 bar; 125 psi; 0.8 MPa G 17 bar; 250 psi; 1.7 MPa J Without gauge 2 bar; 30 psi; 0.2 MPa Y 4 bar; 60 psi; 0.4 MPa L 8 bar; 125 psi; 0.8 MPa N 17 bar; 250 psi; 1.7 MPa H	
Mounting Plastic panel mount nut P							

Port size	Description	Order Code	Flow dm ³ /s (scfm) *	Max bar (psi) *	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/4"	8 bar (125 psi) Relieving	P32RA12BNNP	41 (87)	20 (300)	136 (5.4)	60 (2.36)	60 (2.36)
1/4"	8 bar (125 psi) Relieving + Gauge	P32RA12BNGP	41 (87)	20 (300)	136 (5.4)	60 (2.36)	60 (2.36)
3/8"	8 bar (125 psi) Relieving	P32RA13BNNP	65 (136)	20 (300)	136 (5.4)	60 (2.36)	60 (2.36)
3/8"	8 bar (125 psi) Relieving + Gauge	P32RA13BNGP	65 (136)	20 (300)	136 (5.4)	60 (2.36)	60 (2.36)
1/2"	8 bar (125 psi) Relieving	P32RA14BNNP	67 (142)	20 (300)	136 (5.4)	60 (2.36)	60 (2.36)
1/2"	8 bar (125 psi) Relieving + Gauge	P32RA14BNGP	67 (142)	20 (300)	136 (5.4)	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

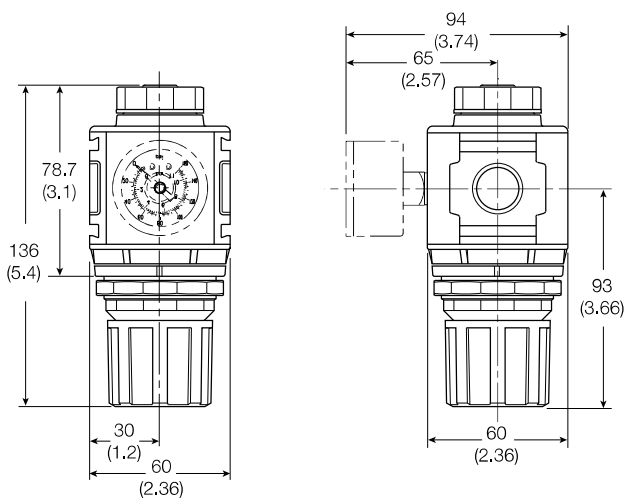
Flow Capacity*	1/4	41 dm ³ /s (81 scfm)
	3/8	65 dm ³ /s (138 scfm)
	1/2	67 dm ³ /s (142 scfm)
Operating Temperature	-25°C (-13°F) to 65.5°C (150°F)	
Max Supply Pressure	20 bar (300 psi)	
Adjusting Range Pressure	0-2 bar (30 psi)	
	0-4 bar (60 psi)	
	0-8 bar (125 psi)	
	0-17 bar (250 psi)	
Port Size	BSPP / NPT	1/4, 3/8, 1/2
Gauge Port (2 ea.)	BSPP / NPT	1/4
Weight	0.41 kg (0.90 lbs)	

* Inlet pressure 10 bar. Secondary pressure 6.3 bar.

Materials of Construction

Body	Aluminium	
Adjustment Knob	Acetal	
Body Cap	ABS	
Bonnet	33% glass-filled nylon	
Diaphragm Assembly	Nitrile / Zinc	
Bottom Plug	33% Glass-filled Nylon	
Valve Assembly	Brass / Nitrile	
Springs	Main Regulating Valve	Steel S.S.
Seals	Nitrile	
Panel Nut	Acetal	

Dimensions



NOTE: 51 mm hole required for panel nut mounting.



WARNING

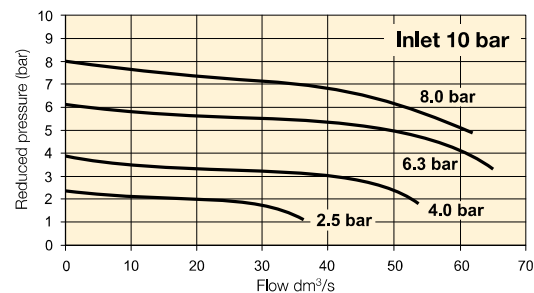
**Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.**

CAUTION:

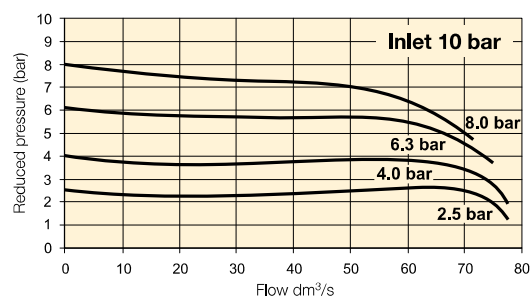
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

Flow Charts

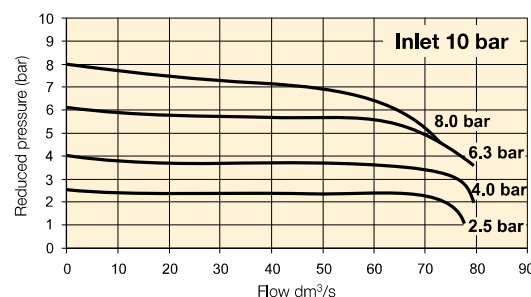
1/4 Regulator



3/8 Regulator



1/2 Regulator



Repair and Service Kits

Panel mount nut - Aluminium	P32KA00MM
Panel mount nut - Plastic	P32KA00MP
Angle Bracket (uses panel mount threads)	P32KA00MR
T-Bracket with body connector	P32KA00MT
T-Bracket	P32KA00MB
Body connector	P32KA00CB

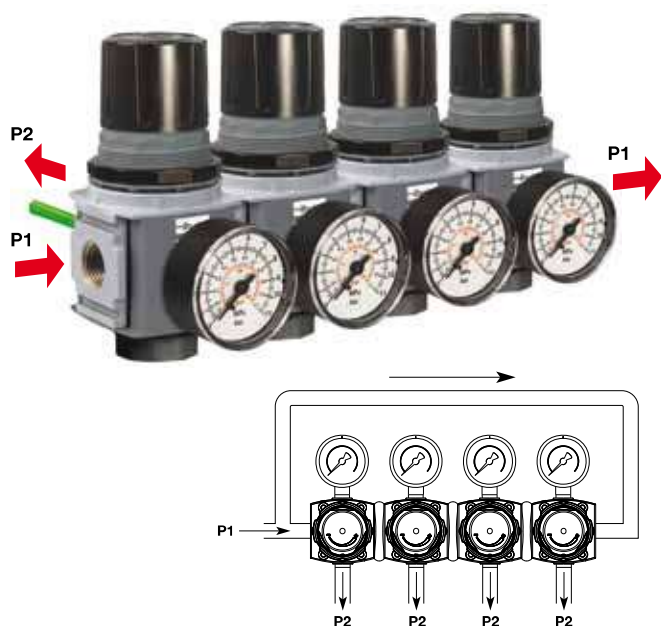
Gauges

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

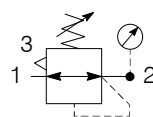
for units ordered without square gauge

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

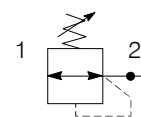
Compact Common P1 Regulator P32



Symbols



Self relieving regulator with gauge



Non relieving regulator

- Manifold style regulator with line pressure on both sides.
- Pressure output is at front or rear.
- Integral 1/4, 3/8 or 1/2 ports (BSPP & NPT)
- Robust construction
- Secondary pressure ranges 2, 4, 8 & 17 bar
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Relieving & Non-relieving types
- Non-rising knob

Options:

P 3 2	H A				N		P
Thread type BSPP 1 NPT 9		Port size 1/4 2 3/8 3 1/2 4		Relief Relieving B Non relieving N		Adjustment range Without gauge 2 bar; 30 psi; 0.2 MPa Y 4 bar; 60 psi; 0.4 MPa L 8 bar; 125 psi; 0.8 MPa N 17 bar; 250 psi; 1.7 MPa H	
Mounting Plastic panel mount nut P							

Order gauges separately- see page 37.

Port size	Description	Order Code	Flow dm ³ /s (scfm) *	Max bar (psi)	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/4"	8 bar (125 psi) Relieving	P32HA12BNNP	28 (59)	20 (300)	136 (5.4)	60 (2.36)	60 (2.36)
3/8"	8 bar (125 psi) Relieving	P32HA13BNNP	28 (59)	20 (300)	136 (5.4)	60 (2.36)	60 (2.36)
1/2"	8 bar (125 psi) Relieving	P32HA14BNNP	28 (59)	20 (300)	136 (5.4)	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

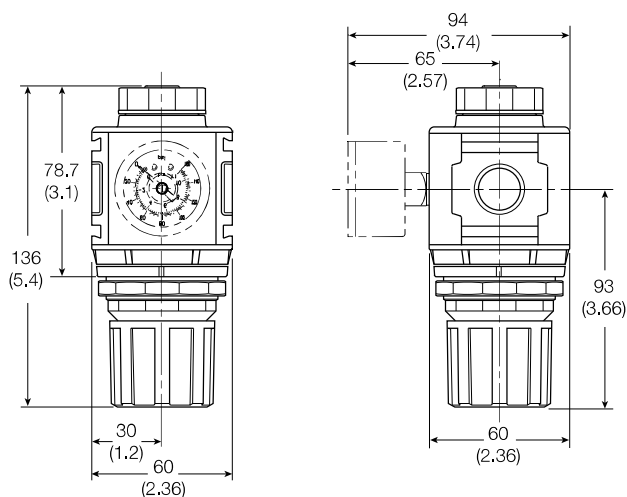
Flow Capacity*	1/4	28 dm ³ /s (59 scfm)
	3/8	28 dm ³ /s (59 scfm)
	1/2	28 dm ³ /s (59 scfm)
Operating Temperature	-25°C (-13°F) to 65.5°C (150°F)	
Max Supply Pressure	20 bar (300 psi)	
Adjusting Range Pressure	0-2 bar (30 psi)	
	0-4 bar (60 psi)	
	0-8 bar (125 psi)	
	0-17 bar (250 psi)	
Port Size	BSPP / NPT	1/4, 3/8, 1/2
P2 Regulated Ports (2 ea.)	BSPP / NPT	1/4
Weight	0.50 kg (1.10 lbs)	

* Inlet pressure 10 bar, Secondary pressure 6.3 bar.

Materials of Construction

Body	Zinc	
Adjustment Knob	Acetal	
Body Cap	ABS	
Bonnet	33% glass-filled nylon	
Diaphragm Assembly	Nitrile / Zinc	
Bottom Plug	33% Glass-filled Nylon	
Valve Assembly	Brass / Nitrile	
Springs	Main Regulating	Steel
	Valve	S.S.
Seals	Nitrile	
Panel Nut	Acetal	

Dimensions



NOTE: 51 mm hole required for panel nut mounting.



WARNING

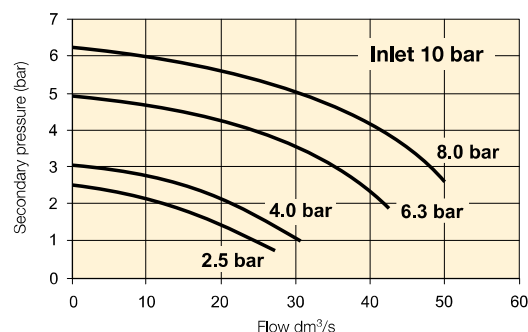
**Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.**

CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

Flow Charts

P32 Common Port Regulator



Repair and Service Kits

Panel mount nut - Aluminium	P32KA00MM
Panel mount nut - Plastic	P32KA00MP
Angle Bracket (uses panel mount threads)	P32KA00MR
T-Bracket with body connector	P32KA00MT
T-Bracket	P32KA00MB
Body connector	P32KA00CB

Gauges

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

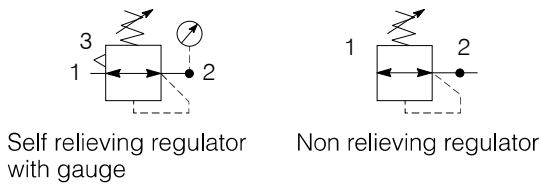
for units ordered without square gauge

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

Standard Regulator P33



Symbols



- Integral 1/2 or 3/4 ports (BSPP & NPT)
- Robust but lightweight aluminium construction
- Secondary pressure ranges 2, 4, 8 & 17 bar
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Relieving & Non-relieving types
- Non-rising knob

Options:

P 3 3

RA

Thread type	
BSPP	1
NPT	9

Port size	
1/2	4
3/4	6

Relief	
Relieving	B
Non relieving	N

N

Mounting	
Plastic panel mount nut	P

Adjustment range	
With round gauge	
2 bar; 30 psi; 0.2 MPa	Z
4 bar; 60 psi; 0.4 MPa	M
8 bar; 125 psi; 0.8 MPa	G
17 bar; 250 psi; 1.7 MPa	J
Without gauge	
2 bar; 30 psi; 0.2 MPa	Y
4 bar; 60 psi; 0.4 MPa	L
8 bar; 125 psi; 0.8 MPa	N
17 bar; 250 psi; 1.7 MPa	H

Port size	Description	Order Code	Flow dm³/s (scfm) *	Max bar (psi)	Height mm (Inches)	Width mm (Inches)	Depth mm (Inches)
1/2"	8 bar (125 psi) Relieving	P33RA14BNNP	100 (212)	20 (300)	149 (5.9)	73 (2.9)	73 (2.9)
1/2"	8 bar (125 psi) Relieving + Gauge	P33RA14BNGP	100 (212)	20 (300)	149 (5.9)	73 (2.9)	73 (2.9)
3/4"	8 bar (125 psi) Relieving	P33RA16BNNP	100 (212)	20 (300)	149 (5.9)	73 (2.9)	73 (2.9)
3/4"	8 bar (125 psi) Relieving + Gauge	P33RA16BNGP	100 (212)	20 (300)	149 (5.9)	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

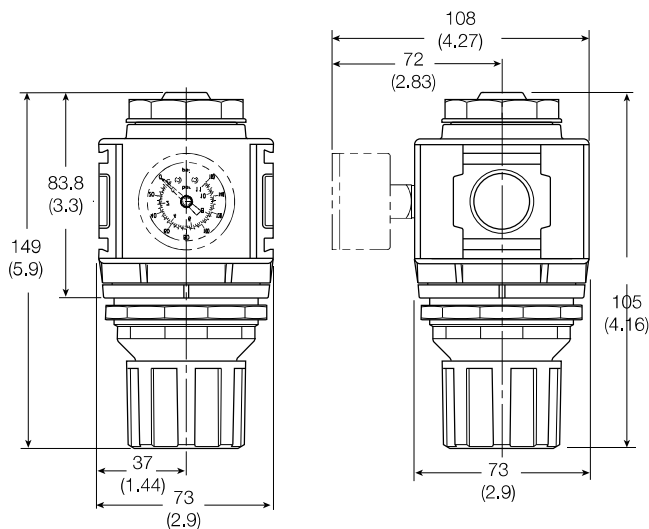
Flow Capacity*	1/2	100 dm ³ /s (212 scfm)
	3/4	100 dm ³ /s (212 scfm)
Operating Temperature	-25°C (-13°F) to 65.5°C (150°F)	
Max Supply Pressure	20 bar (300 psi)	
Adjusting Range Pressure	0-2 bar (30 psi)	
	0-4 bar (60 psi)	
	0-8 bar (125 psi)	
	0-17 bar (250 psi)	
Port Size	BSPP / NPT	1/2, 3/4
Gauge Port (2 ea.)	BSPP / NPT	1/4
Weight	0.62 kg (1.37 lbs)	

* Inlet pressure 10 bar. Secondary pressure 6.3 bar.

Materials of Construction

Body	Aluminium	
Adjustment Knob	Acetal	
Body Cap	ABS	
Bonnet	33% Glass-filled Nylon	
Diaphragm Assembly	Nitrile / Zinc	
Valve Assembly	Brass / Nitrile / Acetal	
Springs	Main Regulating Valve	Steel S.S.
Seals	Nitrile	
Panel Nut	Acetal	

Dimensions



NOTE: 61 mm hole required for panel nut mounting.



WARNING

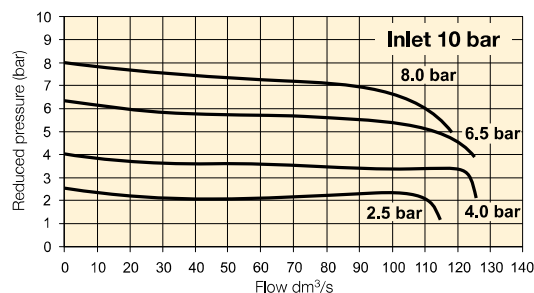
**Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.**

CAUTION:

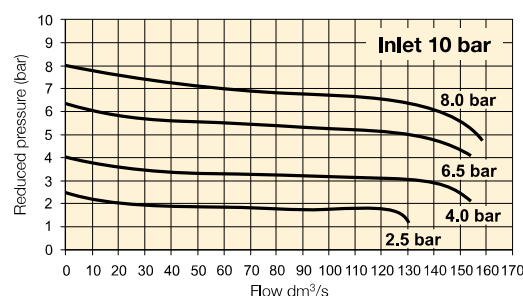
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

Flow Charts

1/2 Regulator



3/4 Regulator



Repair and Service Kits

Panel mount nut - Aluminium	P33KA00MM
Panel mount nut - Plastic	P33KA00MP
Angle Bracket (uses panel mount threads)	P33KA00MR
T-Bracket with body connector	P32KA00MT
T-Bracket	P32KA00MB
Body connector	P32KA00CB

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	P6G-ERB2040
0-160 PSIG / 0-11 bar / 0-1.1 MPa	P6G-ERB2110
0-300 PSIG / 0-20 bar / 0-2 MPa	P6G-ERB2200