

Proportional Regulators - P31P & P32P

B

Introduction

Combos

Filters

Coalescers

Regulators

Filter /
Regulators

Lubricators

Accessories



P31P Series
Bottom exhaust



P32P Series
Bottom exhaust

- 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 dm³/s (40 scfm)
- P32P flows to 57 dm³/s (120 scfm)

Options:

Body size	Engr level	Thread type	Power supply	Control signal	Input Connector
Global modular mini (1/4") P31P	Current A	BSPP 1	2 24 volts	V 0-10V [‡]	1 M12 (4-pin)
Global modular compact (1/2") P32P		BSPT 2			
		NPT 9			

Port size	Version
Global modular mini (1/4") 2	Bottom ported exhaust (NC) A
Global modular compact (1/2") 4	Bottom ported forced exhaust (NO) [†] E

Pressure range	Output signal
Z 0 - 2 bar (0-29 PSIG)	D Digital, PNP
D 0 - 10 bar (0-145 PSIG)	P PNP or 0-10V
	N NPN or 0-10V
	M 4-20mA fixed

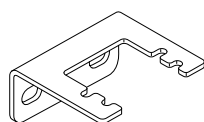
[‡] Factory setting is 0-10 V control signal. 4-20 mA control signal available via parameter 4 on keypad.

D) Digital PNP output only, no analog output selectable
P) Digital PNP and analogue 0-10V outputs selectable, by means of parameter 6. (Factory default 0-10V)
N) Digital NPN and analog 0-10 V outputs selectable by means of parameter 6. Factory default 0-10V)
M) Analog 4-20mA output only.
Note: On all analog outputs the F.S. value can be adjusted by means of parameter 8.

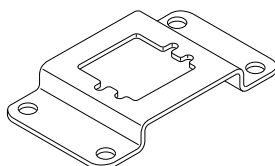
Bold items are most common.

P31P Mounting brackets

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



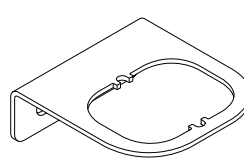
L-Bracket



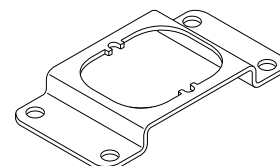
Foot Bracket

P32P Mounting brackets

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



L-Bracket



Foot Bracket

Cables

Order Code	Description
CB-M12-4P-2M	2 mtr. cable with moulded straight M12x1 connector

Technical Information

Fluid:	Compressed air
Max. pressure solenoid operated:	10 bar (150 psig)
Max. pressure air pilot operated:	17 bar (250 psig)
Min. operating pressure:	3 bar (44 psig)
Temperature Max.* solenoid operated:	-10°C to 50°C (14°F to 122°F)
Temperature Max.* air pilot operated:	-20°C to 80°C (-4°F to 176°F)
Air pilot port:	1/8"
Exhaust port:	P31T - 1/4" / P32T - 1/2"
Typical flow with 6.3 bar inlet pressure and 1 bar pressure drop:	P31T 17 dm ³ /s (36 scfm) P32T 48 dm ³ /s (101 scfm)

* Air supply must be dry enough to avoid ice formation at temperatures below +2°C
Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure

Material Specifications

Body:	Aluminum
Body cover:	Polyester
Seals:	Nitrile NBR

Mounting Brackets

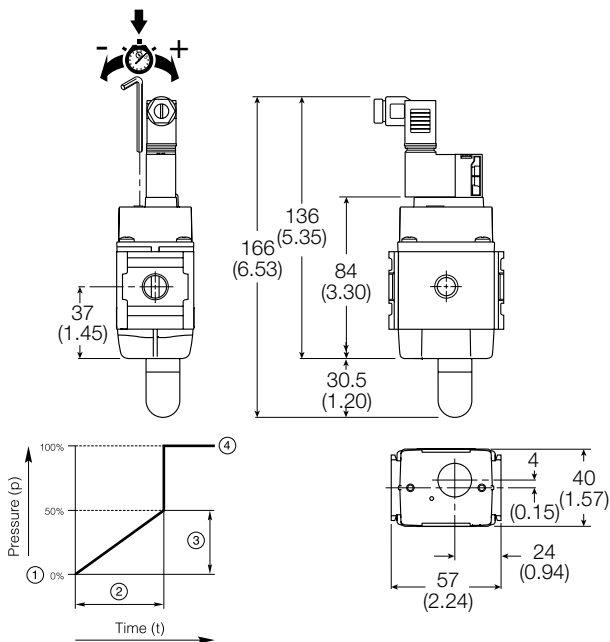
Description	Order code
L-bracket mounting kit	P3HKA00ML
Foot bracket mounting kit	P3HKA00MC

Note:

For solenoid operators and cable plugs (connectors) see pages 68 to 69.

Dimensions mm (inches)

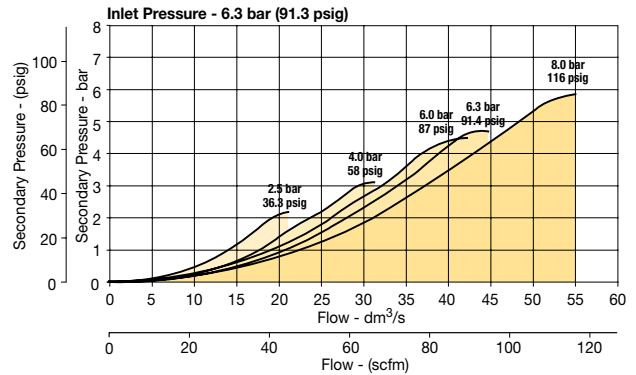
P31T



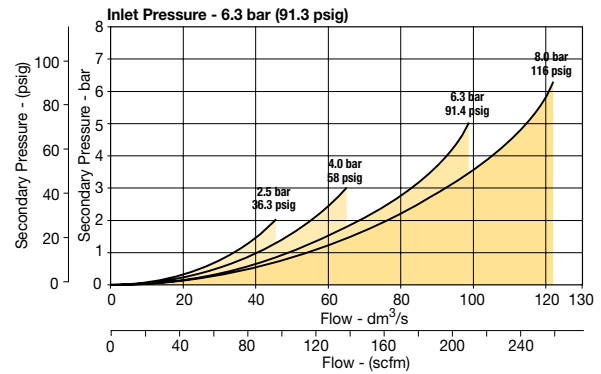
For mounting brackets see page 52

Flow Charts

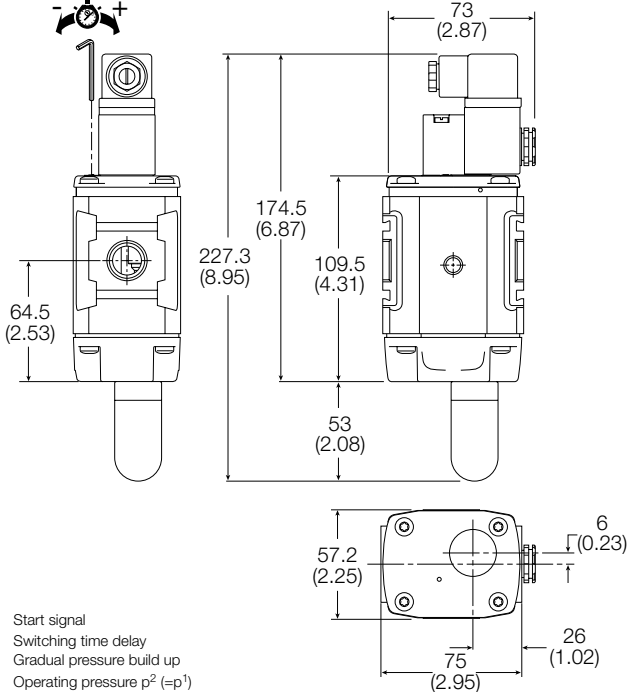
1/4 Soft Start & Dump Valve



1/2 Soft Start & Dump Valve



P32T



Technical Information

Fluid:	Compressed air
Max. pressure solenoid operated:	10 bar (150 psig)
Max. pressure air pilot operated:	17 bar (250 psig)
Min. operating pressure:	3 bar (44 psig)
Temperature Max.* solenoid operated:	-10°C to 50°C (14°F to 122°F)
Temperature Max.* air pilot operated:	-20°C to 80°C (-4°F to 176°F)
Air pilot port:	1/8"
Exhaust port:	P31D - 1/4" / P32D - 1/2"

Typical flow with 6.3 bar inlet pressure and 1 bar pressure drop:	P31D 17 dm ³ /s (36 scfm) P32D 51 dm ³ /s (108 scfm)
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* Air supply must be dry enough to avoid ice formation at temperatures below +2°C
Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure

Material Specifications

Body:	Aluminum
Body cover:	Polyester
Seals:	Nitrile NBR

Mounting Brackets

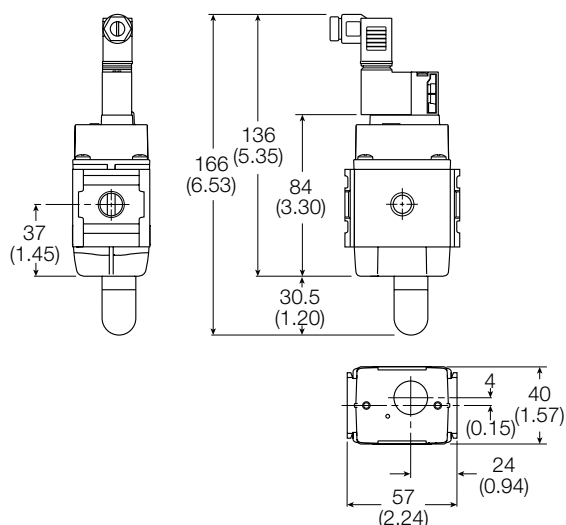
Description	Order code P31D
L-bracket mounting kit	P3HKA00ML
Foot bracket mounting kit	P3HKA00MC

Note:

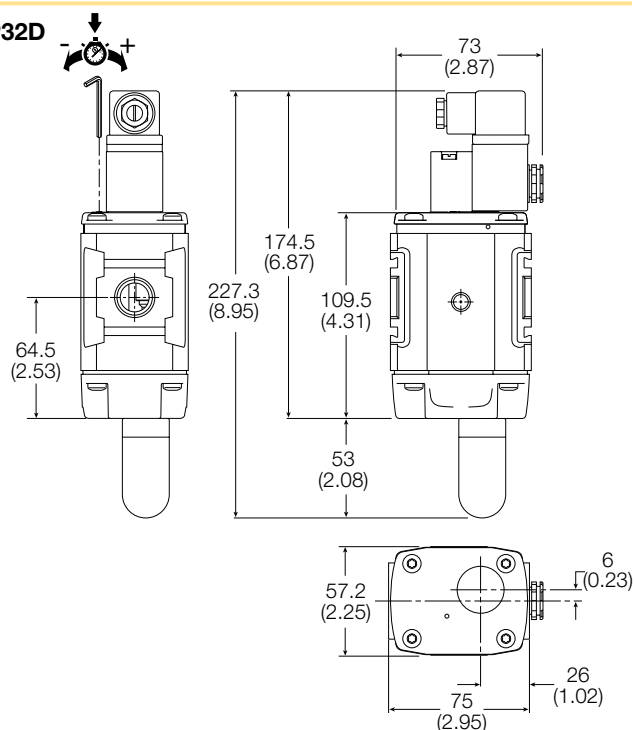
For solenoid operators and cable plugs (connectors) see pages 68 to 69.

Dimensions mm (inches)

P31D



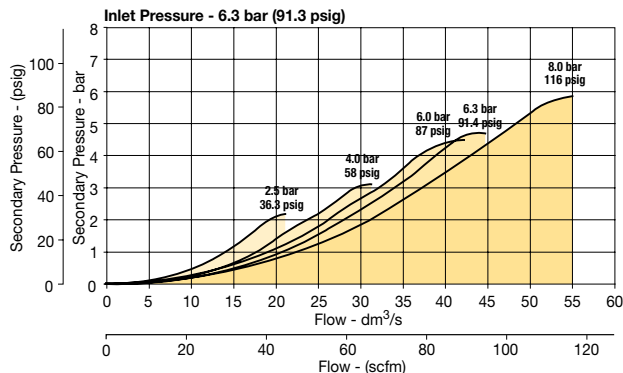
P32D



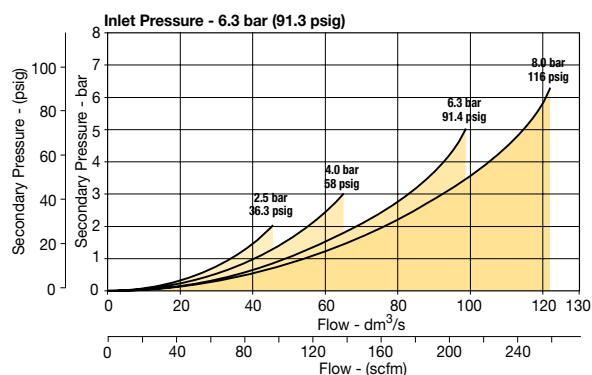
For mounting brackets see page 52

Flow Charts

1/4 Remote Dump Valve



1/2 Remote Dump Valve



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Max. pressure solenoid operated:	10 bar (150 psig)	
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Min. operating pressure:	3 bar (44 psig)	
Temperature Max.* solenoid operated:	-10°C to 50°C (14°F to 122°F)	
Temperature Max.* air pilot operated:	-20°C to 80°C (-4°F to 176°F)	
Air pilot port:	1/8"	
Typical flow with 6.3bar inlet pressure and 1 bar pressure drop:	P31S	17 dm ³ /s (36 scfm)
	P32S	48 dm ³ /s (101 scfm)

* Air supply must be dry enough to avoid ice formation at temperatures below +2°C
Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure

Material Specifications

Body:	Aluminum
Body cover:	Polyester
Seals:	Nitrile NBR

Mounting Brackets

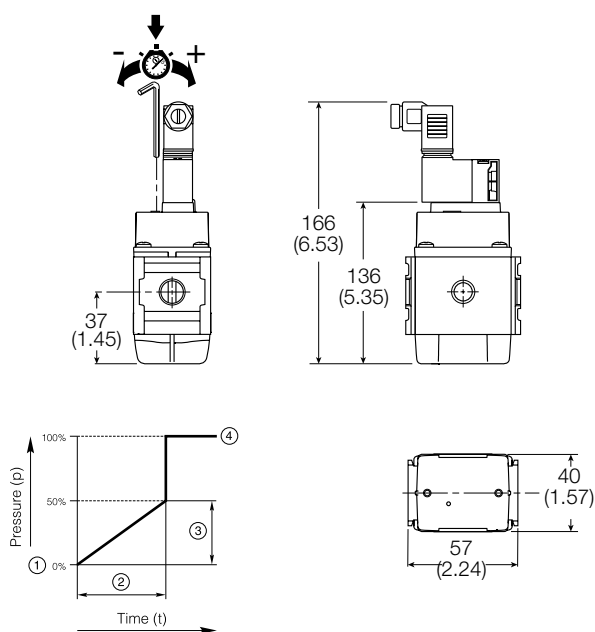
Description	Order code
L-bracket mounting kit	P3HKA00ML
Foot bracket mounting kit	P3HKA00MC

Note:

For solenoid operators and cable plugs (connectors) see pages 68 to 69.

Dimensions mm (inches)

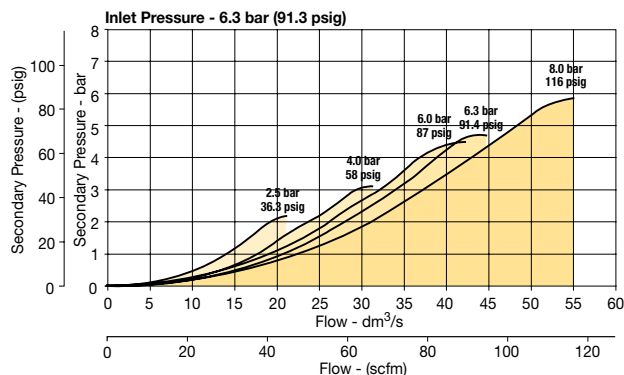
P31S



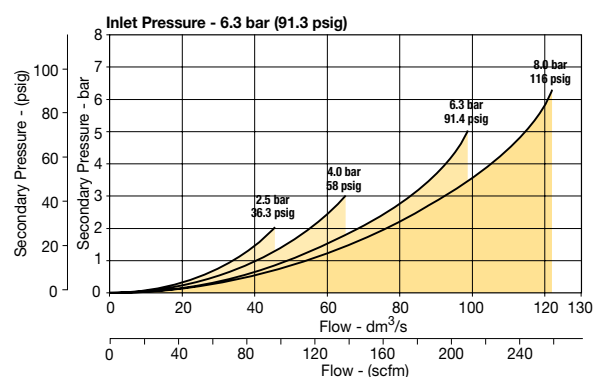
For mounting brackets see page 52

Flow Charts

1/4 Soft Start Valve



1/2 Soft Start Valve



P32S

