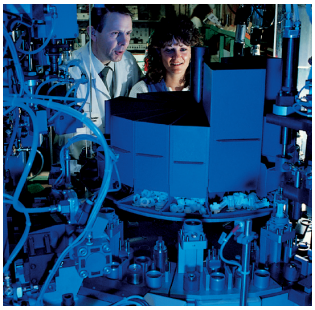




aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

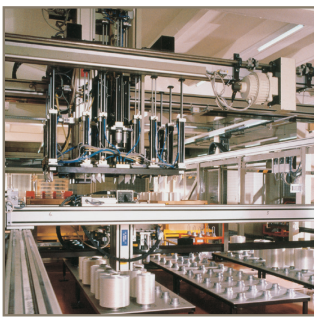




P3Y Series
Air Preparation System

3/4" & 1" Body Ported, 1 1/4" & 1 1/2" with Port Blocks

Catalogue no. PDE2631TCUK July 2020



Parker

ENGINEERING YOUR SUCCESS.

PDE2631TCUK

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WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.
This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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PDE2631TCUK

P3Y series modular air preparation system

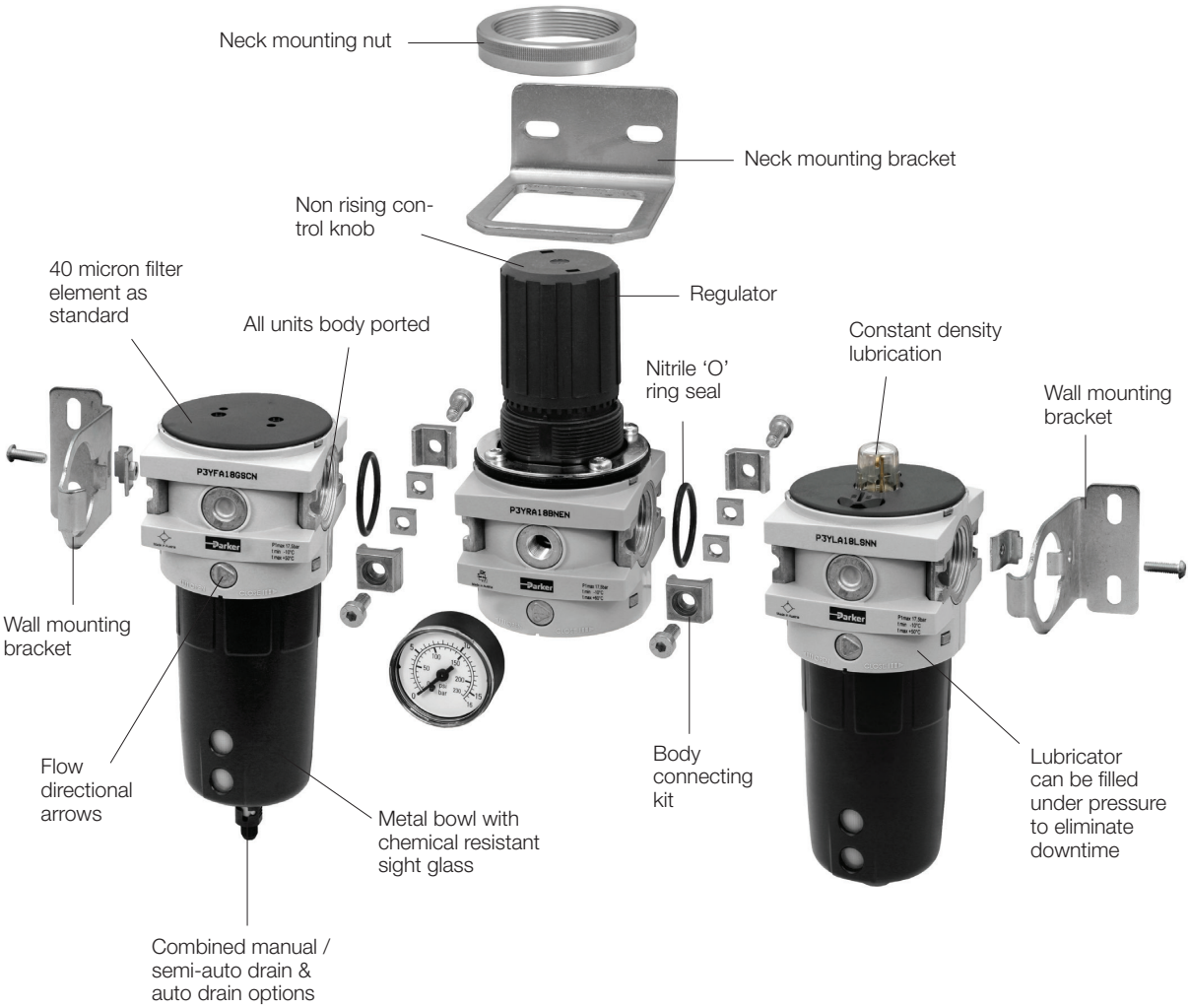
The System

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.

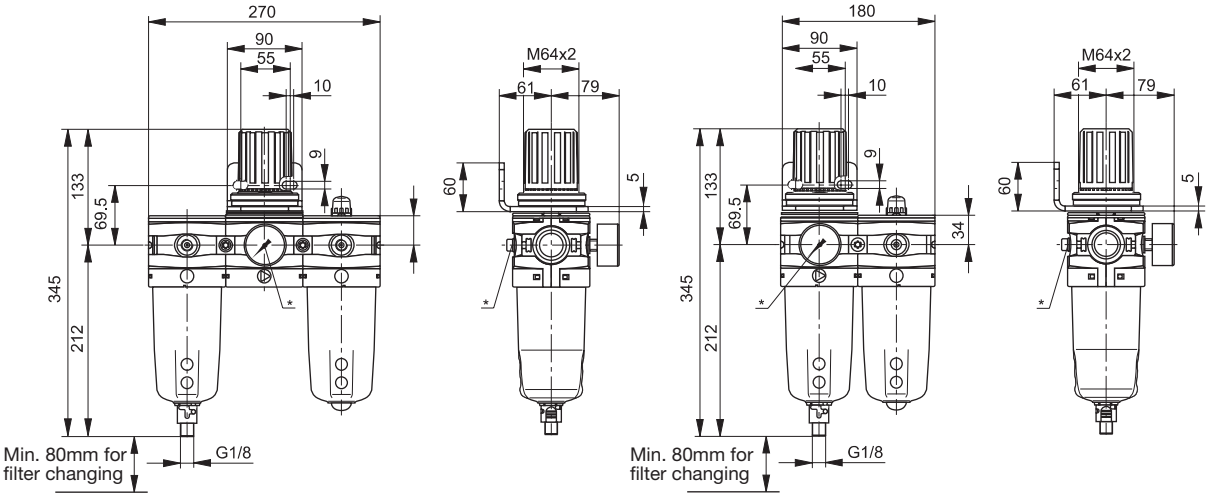
The P3Y Filters are specially designed to efficiently filter out rust, dirt, moisture and other impurities from compressed air lines. Operation is fully automatic with a minimum of pressure drop. Coalescing filters and adsorber filters for high purity air are also included in the P3Y series.

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.

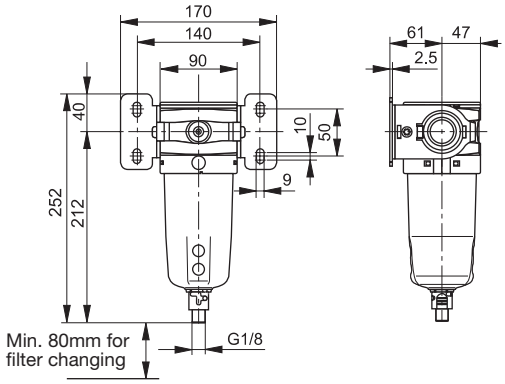
The P3Y mist lubricators are designed to provide lubrication for many general purpose applications in a pneumatic system.



Recommended Wall Mounting Configurations

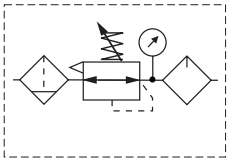


* Gauge port 1/4”



Popular Combinations



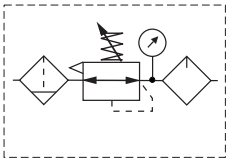


Filter + Regulator + Lubricator Combinations
40 micron element, 12 bar Regulator + Gauge and Wall Mounting Bracket

Port size	Combined Manual/Semi-Auto Drain	Flow dm^3/s	Weight (kg)	Auto Drain	Flow dm^3/s	Weight (kg)
G3/4	**P3YCB16SGCNFLNF**	91	3.3	**P3YCB16SGANFLNF**	91	3.3
G1	**P3YCB18SGCNFLNF**	174	3.3	**P3YCB18SGANFLNF**	174	3.3

* Flow measured with 10 bar inlet pressure, 6.3 bar set pressure, 1 bar pressure drop.
For dust filter 5µm replace G by E in order code and flows are 81 (3/4 and 1)





Filter/Regulator + Lubricator Combinations
40 micron element, 12 bar Regulator + Gauge and Wall Mounting Bracket

Port size	Combined Manual/Semi-Auto Drain	Flow dm^3/s	Weight (kg)	Auto Drain	Flow dm^3/s	Weight (kg)
G3/4	**P3YCA16SGCNFLNF**	101	2.8	**P3YCA16SGANFLNF**	101	2.8
G1	**P3YCA18SGCNFLNF**	168	2.8	**P3YCA18SGANFLNF**	168	2.8

* Flow measured with 10 bar inlet pressure, 6.3 bar set pressure, 1 bar pressure drop.
For dust filter 5µm replace G by E in order code and flows are 88 (3/4) and 95 (1)

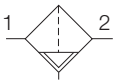
Options:

P 3 Y	C					S G		N		L N F
Filter/Regulator + Lub	A	BSPP (G)	1	3/4"	6	Combined Manual/Semi Auto Drain	C	0 - 12 bar with gauge	F
Filter + Regulator + Lub	B	NPT	9	1"	8	Auto Drain	A	0 - 16 bar with gauge	J

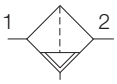
Filter



Symbols



Manual / Semi auto drain



Auto drain

- Integral 3/4 or 1" ports (BSPP & NPT)
- High efficiency particulate element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminium construction
- Low temperature -40°C with combined manual/semi-auto drain as standard

Options:

P 3 Y F A [ ] [ ] [ ] [ ] [ ] **N**

BSPP (G)	**1**	3/4"	**6**	40 Micron Element Standard	**G**	Combined Manual/Semi Auto Drain	**SC**
NPT	**9**	1"	**8**	5 Micron Element Optional	**E**	Auto Drain	**SA**

Port size	Description	Order Code	Flow dm^3/s *	Max bar	Min temp °C	Max temp °C	Bowl capacity cm^3	Height mm	Width mm	Depth mm	Weight kg
3/4	Combined manual/semi auto drain/dust filter 40µm	**P3YFA16GSCN**	116	17.5	-40	60	130	244	90	94	0.9
3/4	Auto drain/dust filter 40µm	**P3YFA16GSAN**	116	17.5	-10	60	130	244	90	94	0.9
1"	Combined manual/semi auto drain/dust filter 40µm	**P3YFA18GSCN**	119	17.5	-40	60	130	244	90	94	0.9
1"	Auto drain/dust filter 40µm	**P3YFA18GSAN**	119	17.5	-10	60	130	244	90	94	0.9

* Flow with 6,3 bar inlet pressure and 0,5 pressure drop.

Port size	Description	Order Code	Flow dm^3/s *	Max bar	Min temp °C	Max temp °C	Bowl capacity cm^3	Height mm	Width mm	Depth mm	Weight kg
3/4	Combined manual/semi auto drain/dust filter 5µm	**P3YFA16ESCN**	80	17.5	-40	60	130	244	90	94	0.9
3/4	Auto drain/dust filter 5µm	**P3YFA16ESAN**	80	17.5	-10	60	130	244	90	94	0.9
1"	Combined manual/semi auto drain/dust filter 5µm	**P3YFA18ESCN**	80	17.5	-40	60	130	244	90	94	0.9
1"	Auto drain/dust filter 5µm	**P3YFA18ESAN**	80	17.5	-10	60	130	244	90	94	0.9

* Flow with 6,3 bar inlet pressure and 0,5 pressure drop.

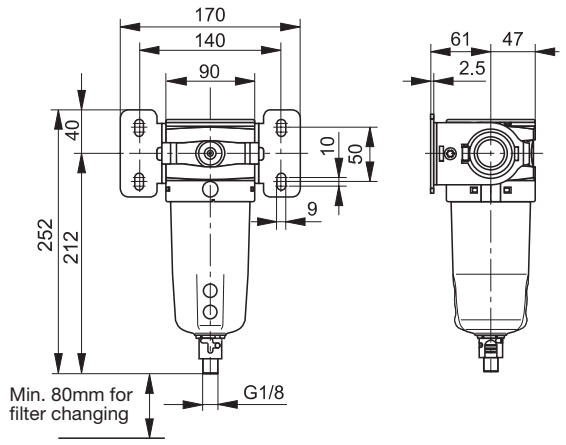
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Technical Information

Fluid:	Compressed air
Maximum inlet pressure*:	17.5 bar
Temperature range*:	
Auto drain :	-10°C to +60°C
Combined drain :	-40°C to +60°C
Particle removal:	5 & 40 micron
Air quality:	Within ISO 8573-1 : 1991 Class 3 and 5 (particulates) Within ISO 8573-1 : 2010 Class 6 and 7 (particulates)
Typical flow with 40µm element 6,3 bar inlet pressure and 0.5 bar pressure drop:	119 dm^3/s
Manual/Semi-auto drain:	Closed at 0.8 bar G1/8 thread
Auto drain: bowl pressure to close drain Operating range manual override facility (depress pin)	 0.8 bar 0.8 to 17.5 bar Ø 10mm brass connection
Bowl sump capacity:	130 cm^3

* Air supply must be dry enough to avoid ice formation at termperatures below + 2°C

Dimensions (mm)



Service kits

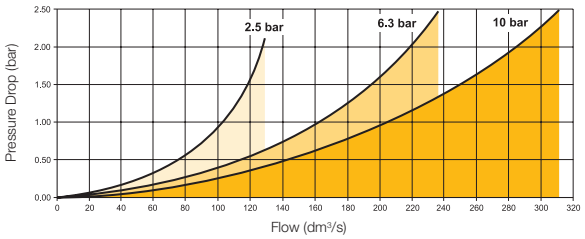
Description	Order code
5 micron element kit	**P3YKA00ESE**
40 micron element kit	**P3YKA00ESG**
Bowl kit with combined manual/semi auto drain	**P3YKA00BSC**
Bowl kit with auto drain	**P3YKA00BSA**

Material Specification

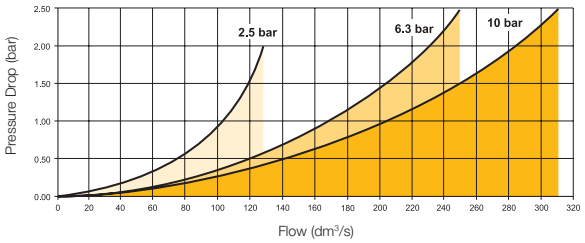
Body:		Aluminium
Sight glass:		Polypropylene
Body cover:		ABS
Element:		Sintered P.E.
Seals:		Nitrile NBR
Drains:	Manual / Semi-auto:	Acetal
	Automatic:	PA / Brass connection

Flow characteristics

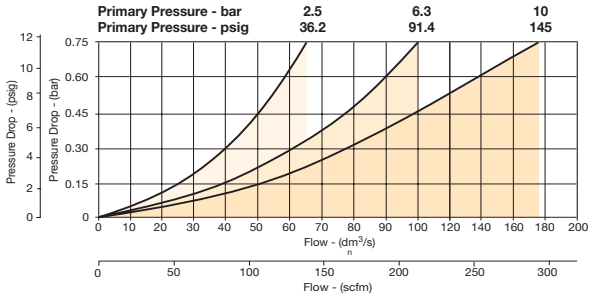
(3/4) 40 Micron Filter



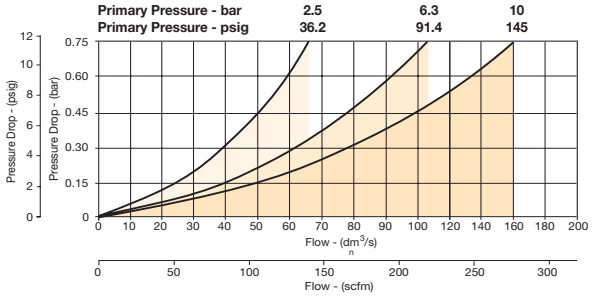
(1") 40 Micron Filter



(3/4") 5 µm Filter



(1") 5 µm Filter



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Dust Filter



- Extended dust filter element provides greater filtration surface area.
- Integral 3/4 or 1" ports (BSPP & NPT)
- Removes dust particles
- Dust free air for critical applications, such as air gauging, pneumatic instrumentation and control

Note: To optimise the life of the dust 1µm element, it is advisable to install a P3YFA pre-filter with a 5 or 40 micron element upstream of the coalescing filter.

Options:

P 3 Y F A [ ] [ ] [ ] [ ] **N**

BSPP (G)	1	3/4"	6	1 µm element	2	Combined Manual/Semi Auto Drain	SC
NPT	9	1"	8			Auto Drain	SA

Port size	Description	Order Code	Flow dm^3/s *	Max bar	Min temp °C	Max temp °C	Bowl capacity cm^3	Height mm	Width mm	Depth mm	Weight kg
3/4	Dust Filter 1µm, Combined manual/semi auto drain	**P3YFA162SCN**	137	17.5	-10	60	130	360	90	94	1.6
3/4	Dust Filter 1µm, auto drain	**P3YFA162SAN**	137	17.5	-10	60	130	360	90	94	1.6
1"	Dust Filter 1µm, Combined manual/semi auto drain	**P3YFA182SCN**	145	17.5	-10	60	130	360	90	94	1.6
1"	Dust Filter 1µm, auto drain	**P3YFA182SAN**	145	17.5	-10	60	130	360	90	94	1.6

* Flow with 6,3 bar inlet pressure and 0,5 pressure drop

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Technical Information

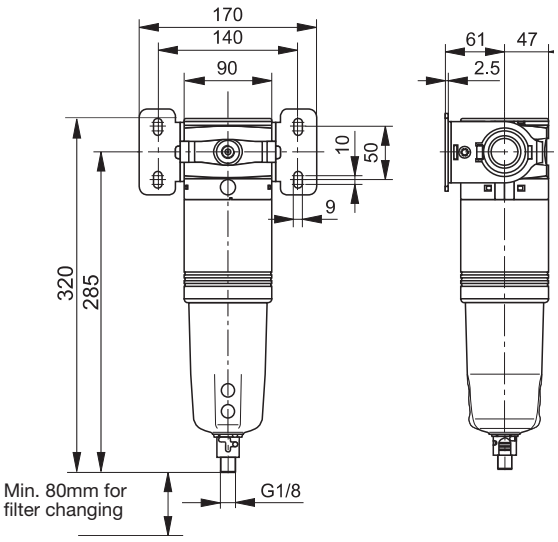
Fluid:	Compressed air
Maximum inlet pressure*:	17.5 bar
Temperature range*:	-10°C to +60°C
Typical flow element @ 6,3 bar inlet pressure and 5 bar pressure drop:	145 dm^3/s
Manual/Semi-auto drain:	Bowl pressure to close drain 0.8 bar G1/8" thread
Auto drain: bowl pressure to close drain Operating range manual override facility (depress pin)	0.8 bar 0.8 to 17.5 bar Ø 10mm brass connection
Bowl sump capacity:	130 cm^3

* Air supply must be dry enough to avoid ice formation at termperatures below + 2°C

Material Specification

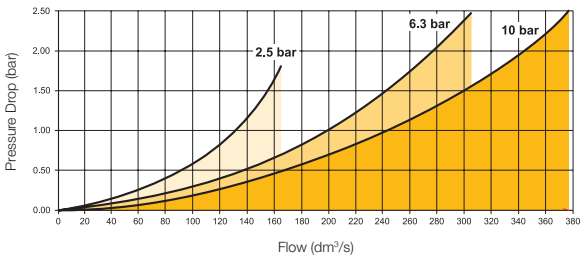
Body:		Aluminium
Sight glass:		Polypropylene
Filter cover:		ABS
Seals:		Nitrile NBR
Drains:	Manual / Semi-auto:	Acetal
	Automatic:	PA / Brass connection
Coalescing element:		Borosilicate & Nano fibres
Top & bottom end cap:		Aluminium
Support cylinders:		Grade 430 stainless steel
Support media:		Polypropylene
Ensapulate:		Epoxy resin / Hardener

Dimensions (mm)



Flow characteristics

(1") 1µm Dust Filter Saturated



Service kits

Description	Order code
1 micron coalescing element kit	**P3YKA00ES9**
Bowl kit with combined manual/semi auto drain	**P3YKA00BSC**
Bowl kit with auto drain	**P3YKA00BSA**

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Coalescing Filter



- Extended high efficiency filter element provides greater filtration surface area.
- Integral 3/4 or 1" ports (BSPP & NPT)
- Removes liquid aerosols and sub micron particles
- Oil free air for critical applications, such as air gauging, pneumatic instrumentation and control

Note: To optimise the life of the coalescing element, it is advisable to install a P3YFA pre-filter with a 5 micron element upstream of the coalescing filter.

Options:

P 3 Y F A [ ] [ ] [ ] [ ] [ ] **N**

BSPP (G)	1	3/4"	6	0.01 µm element with DPI standard	D	Combined Manual/Semi Auto Drain	SC
NPT	9	1"	8	0.01 µm element without DPI option	C	Auto Drain	SA

Port size	Description	Order Code	Flow dm^3/s *	Max bar	Min temp ^oC	Max temp ^oC	Bowl capacity cm^3	Height mm	Width mm	Depth mm	Weight kg
3/4	Coalescing Filter 0.01µm, Combined manual/semi auto drain	**P3YFA16DSCN**	177	17.5	-10	60	130	340	90	94	1.6
3/4	Coalescing Filter 0.01µm, auto drain	**P3YFA16DSAN**	177	17.5	-10	60	130	340	90	94	1.6
1"	Coalescing Filter 0.01µm, Combined manual/semi auto drain	**P3YFA18DSCN**	145	17.5	-10	60	130	340	90	94	1.6
1"	Coalescing Filter 0.01µm, auto drain	**P3YFA18DSAN**	145	17.5	-10	60	130	340	90	94	1.6

* Flow with 6,3 bar inlet pressure and 0,2 pressure drop

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Technical Information

Fluid:	Compressed air
Maximum inlet pressure*:	17.5 bar
Temperature range*:	-10°C to +60°C
Media specifications: Coalescing efficiency Max. oil carryover (PPM w/w):	 (0.3 to 0.6 micron particles): 99.97% 0.008 mg/m^3
Typical flow element @ 6,3 bar inlet pressure and 0.2 bar pressure drop:	Dry element 0.01µm @ 59dm^3/s
Manual/Semi-auto drain:	Bowl pressure to close drain 0.8 bar G1/8" thread
Auto drain: bowl pressure to close drain Operating range manual override facility (depress pin)	 0.8 bar 0.8 to 17.5 bar Ø 10mm brass connection
Bowl sump capacity:	130 cm^3

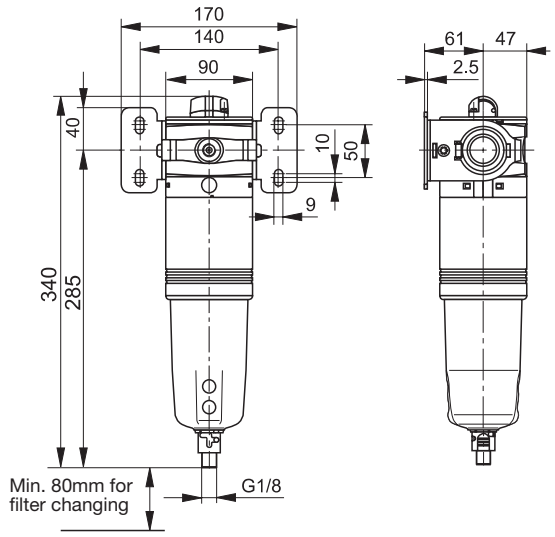
* Air supply must be dry enough to avoid ice formation at termperatures below + 2°C

Material Specification

Body:		Aluminium
Sight glass:		Polypropylene
Filter cover:		ABS
Coalescing element:		Borosilicate & Nano fibres
Top & bottom end cap:		Aluminium
Support cylinders:		Grade 430 stainless steel
Support media:		Polypropylene
Anti re-entrainment barrier:		Polyester
Ensapulate:		Epoxy resin / Hardener
Seals:		Nitrile NBR
Drains:	Manual / Semi-auto:	Acetal
	Automatic:	PA / Brass connection

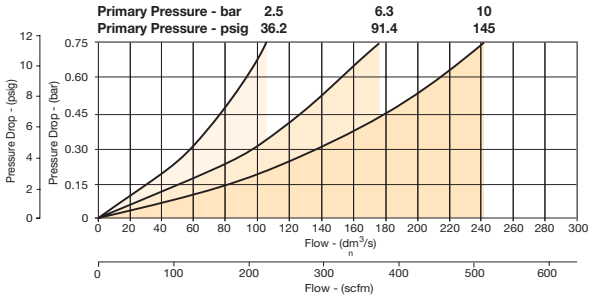
Differential pressure indicator materials:	
Body:	Acetal
Internal parts:	Acetal
Spring:	Stainless steel
Seals:	Nitrile NBR
Support plate	ABS
Screws	Steel / zinc plated

Dimensions (mm)

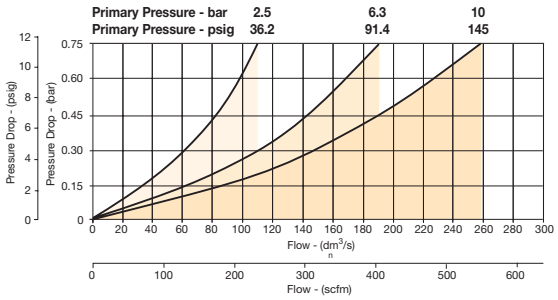


Flow characteristics

(3/4) 0.01µm Coalescing Filter Saturated



(1") 0.01µm Coalescing Filter Saturated



Service kits

Description	Order code
0.01 micron coalescing element kit	**P3YKA00ESC**
Bowl kit with combined manual/semi auto drain	**P3YKA00BSC**
Bowl kit with auto drain	**P3YKA00BSA**
Differential pressure indicator kit	**P3YKA00RQ**

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Adsorber Filter



- Integral 3/4 or 1" ports (BSPP & NPT)
- Adsorber activated carbon element removes oil vapours and most hydrocarbons

Note: To optimise the life of the adsorber element, it is advisable to install a P3Y coalescing 0.01 µm filter upstream of the adsorber filter.

Options:

P 3 Y F A										
	BSPP (G)	1	3/4"	6	Adsorber element	A	Manual Drain	SC	N
	NPT	9	1"	8					

Port size	Description	Order Code	Flow dm^3/s *	Max bar	Min temp ^oC	Max temp ^oC	Bowl capacity cm^3	Height mm	Width mm	Depth mm	Weight kg
3/4	Adsorber Filter, Manual drain	**P3YFA16ASCN**	177	17.5	-10	60	130	340	90	94	1.5
1"	Adsorber Filter, Manual drain	**P3YFA18ASCN**	145	17.5	-10	60	130	340	90	94	1.5

* Flow with 6,3 bar inlet pressure and 0,2 pressure drop

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Technical Information

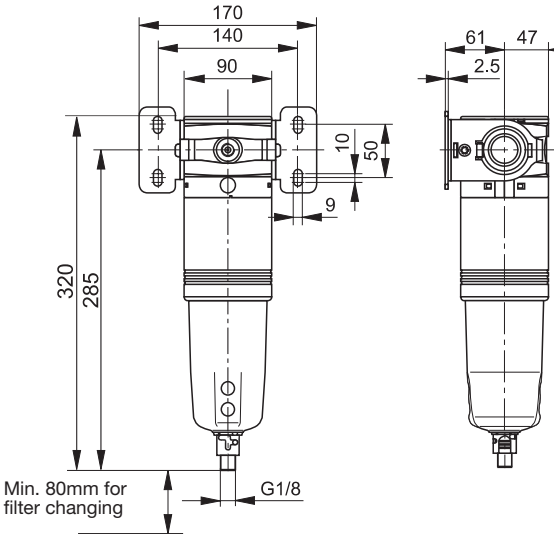
Fluid:	Compressed air
Maximum inlet pressure*:	17.5 bar
Temperature range*:	-10°C to +60°C
Media specifications:	
Max. oil carryover (PPM w/w):	0.008 mg/m^3
Typical flow at 6,3 bar inlet pressure and 0.2 bar pressure drop:	1" Adsorber 50 dm^3/s
Manual drain / Semi-auto drain:	G1/8" thread
Bowl sump capacity:	130 cm^3

* Air supply must be dry enough to avoid ice formation at termperatures below + 2°C

Material Specification

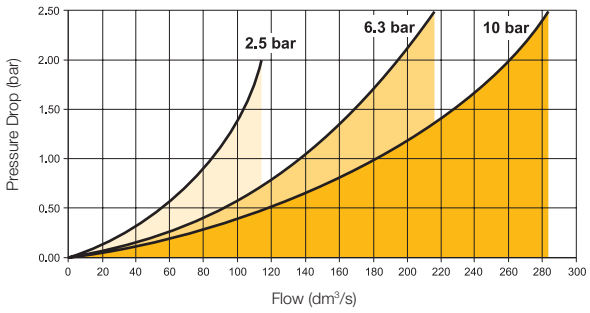
Body:	Aluminium
Sight glass:	Polypropylene
Filter cover:	ABS
Adsorber element:	Activated carbon
Top & bottom endcap:	Glass filled nylon
Seals:	Nitrile NBR
Bayonet support:	Nylon
Drain: Manual / Semi-auto:	Acetal

Dimensions (mm)

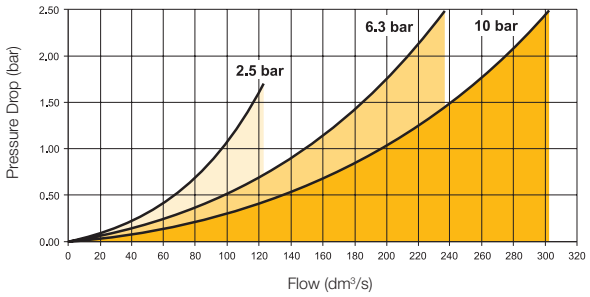


Flow characteristics

(3/4) Adsorber Filter



(1") Adsorber Filter



Service kits

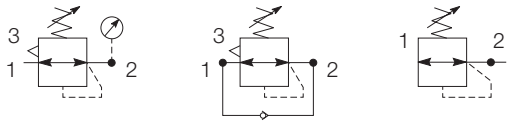
Description	Order code
Adsorber element kit	**P3YKA00ESA**
Bowl kit with manual / semi-auto drain	**P3YKA00BSC**

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Regulator



Symbols



Self relieving regulator with gauge

Reverse flow relieving regulator

Non relieving regulator

- Integral 3/4 or 1” ports (BSPP & NPT)
- Robust but lightweight aluminium construction
- Secondary pressure ranges 12 & 16 bar
- Rolling diaphragm for extended life
- Secondary aspiration plus rolling diaphragm provides quick response and accurate pressure regulation.
- Optional tamperproof regulator padlock
- Relieving & Non-relieving types
- Reverse flow / relieving option
- Low temperature -40°C

Options:

P 3 Y R A [ ] [ ] [ ] [ ] [ ] **N**

BSPP (G)	1	3/4”	6	Relieving	B	Standard	N	0 - 12 bar No Gauge	E
NPT	9	1”	8	Non-relieving	N	Lockable type	A	0 -16 bar No Gauge	H
				Reverse flow / Relieving	R			0 - 12 bar Gauge	F
								0 -16 bar Gauge	J

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
3/4	12 bar relieving	**P3YRA16BNEN**	179	17.5	-40	60	182	90	94	1.08
3/4	12 bar relieving + pressure gauge	**P3YRA16BNFN**	179	17.5	-10	60	182	90	94	1.13
1”	12 bar relieving	**P3YRA18BNEN**	260	17.5	-40	60	182	90	94	1.08
1”	12 bar relieving + pressure gauge	**P3YRA18BNFN**	260	17.5	-10	60	182	90	94	1.19
3/4	12 bar relieving, lockable	**P3YRA16BAEN**	179	17.5	-40	60	182	90	94	1.08
3/4	12 bar relieving lockable, + pressure gauge	**P3YRA16BAFN**	179	17.5	-10	60	182	90	94	1.13
1”	12 bar relieving, lockable	**P3YRA18BAEN**	260	17.5	-40	60	182	90	94	1.08
1”	12 bar relieving, lockable + pressure gauge	**P3YRA18BAFN**	260	17.5	-10	60	182	90	94	1.19

* Flow with 10 bar inlet pressure, 6,3 bar set pressure and 1 bar pressure drop.

Lockable regulators will require key lock kit (opposite page).

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Technical Information

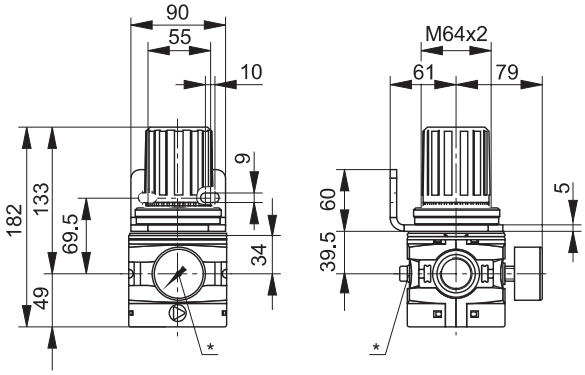
Fluid: Compressed air	
Maximum inlet pressure*:	17.5 bar
Temperature range*:	-40°C to +60°C
Typical flow with 10 bar inlet pressure, 6.3 bar set pressure and 1 bar pressure drop:	1" size 321 dm^3/s
Gauge port (x 2):	1/4"

* Air supply must be dry enough to avoid ice formation at termperatures below + 2°C

Material Specification

Body:	Aluminium
Bonnet:	Glass filled polyamide
Regulator cover:	ABS
Control Knob:	Glass filled polyamide
Valve:	Brass / NBR
Seals:	Nitrile NBR
Screws:	Steel / zinc plated

Dimensions (mm)



* 1/4" gauge port

Service kits

Description	Order code
Angle bracket + metal lock ring	**P3YKA00MS**
Panel mounting nut	**P3YKA00MM**
Key lock	**P3XKA00AS**
Diaphragm kit (relieving type)	**P3YKA00RR**
Diaphragm kit (non-relieving type)	**P3YKA00RN**

Key Lock Kit

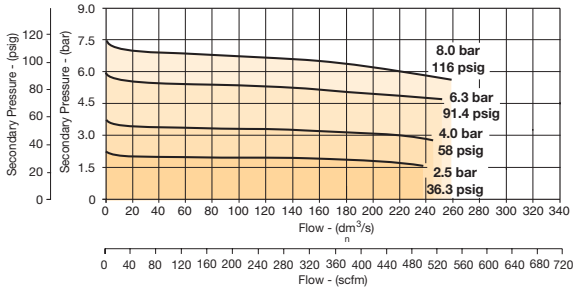
This facilitates the tamperproofing of the lockable Reglators and Filter-Regulator units on request.



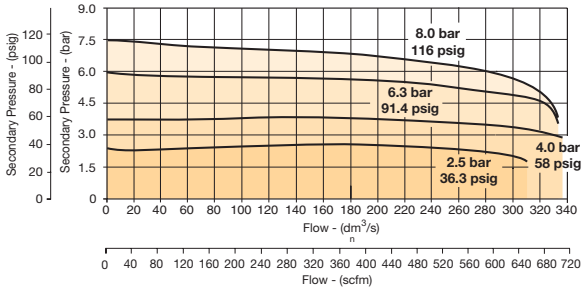
Order code
P3XKA00AS

Flow characteristics

Regulation characteristics: (3/4)



Regulation characteristics: (1")

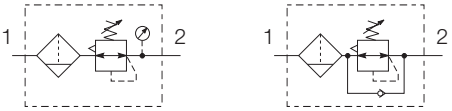


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Filter-Regulator



Symbols



- 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.
- Reverse flow / relieving option
- Low temperature -40°C with combined manual/semi-auto drain as standard

Options:

P 3 Y E A [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] **N**

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

3/4”	**6**
1”	**8**

40 Micron Element Standard	**G**
5 Micron Element Option	**E**

Combined Manual/Semi Auto Drain	**SC**
Auto Drain	**SA**

Relieving	**B**
Non-relieving	**N**
Reverse flow / Relieving	**R**

Standard	**N**
Lockable type	**A***

0 - 12 bar No Gauge	**E**
0 -16 bar No Gauge	**H**
0 - 12 bar Gauge	**F**
0 -16 bar Gauge	**J**

* On request

Port size	Description	Order Code	Flow dm^3/s *	Max bar	Min temp °C	Max temp °C	Bowl capacity cm^3	Height mm	Width mm	Depth mm	Weight kg
3/4	12 bar, relieving, Combined manual/semi auto drain	**P3YEA16GSCBNEN**	190	17.5	-40	60	130	345	90	94	1.5
3/4	12 bar relieving, auto drain	**P3YEA16GSABNEN**	190	17.5	-10	60	130	345	90	94	1.5
3/4	12 bar, relieving, gauge Combined manual/semi auto drain	**P3YEA16GSCBNFN**	190	17.5	-10	60	130	345	90	94	1.5
3/4	12 bar relieving, gauge, auto drain	**P3YEA16GSABNFN**	190	17.5	-10	60	130	345	90	94	1.5
1”	12 bar, relieving, Combined manual/semi auto drain	**P3YEA18GSCBNEN**	237	17.5	-40	60	130	345	90	94	1.5
1”	12 bar relieving, auto drain	**P3YEA18GSABNEN**	237	17.5	-10	60	130	345	90	94	1.5
1”	12 bar, relieving, gauge Combined manual/semi auto drain	**P3YEA18GSCBNFN**	237	17.5	-10	60	130	345	90	94	1.5
1”	12 bar relieving, gauge, auto drain	**P3YEA18GSABNFN**	237	17.5	-10	60	130	345	90	94	1.5

* Flow with 10 bar inlet pressure, 6,3 bar set pressure and 1 bar pressure drop.

For dust filter 5µm, replace G by E in order code, flows are 158 (3/4) and 219,5 dm3/s (1).

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Technical Information

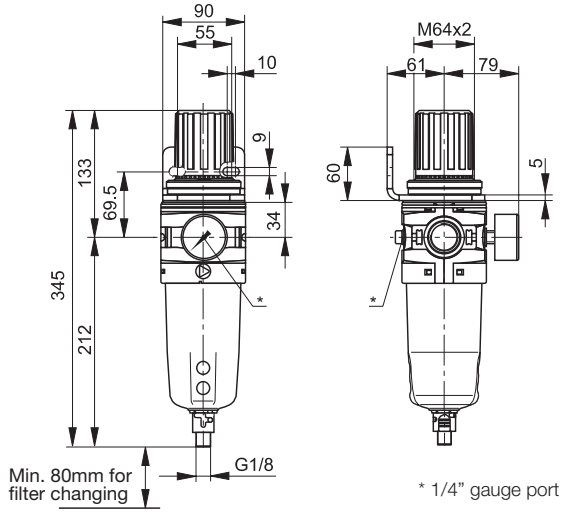
Fluid:	Compressed air
Maximum inlet pressure*:	17.5 bar
Temperature range*:	
Auto drain :	-10°C to +60°C
Combined drain :	-40°C to +60°C
Particle removal:	5 micron and 40 micron
Air quality:	Within ISO 8573-1 : 1991 Class 3 and 5 (particulates) Within ISO 8573-1 : 2010 Class 6 and 7 (particulates)
Typical flow with 10 bar inlet pressure 6,3 bar set pressure and 1 bar pressure drop 1" size	237 dm^3/s
Manual/Semi-auto drain:	0,8 bar bowl pressure to close drain G1/8" thread
Auto drain: bowl pressure to close drain Operating range manual override facility (depress pin)	 0.8 bar 0.8 to 17.5 bar Ø 10mm brass connection
Bowl sump capacity:	130 cm^3
Gauge ports (x 2):	1/4"

* Air supply must be dry enough to avoid ice formation at termperatures below + 2°C

Material Specification

Body:		Aluminium
Sight glass:		Polypropylene
Body cover:		ABS
Element:		Sintered polypropylene
Seals:		Nitrile NBR
Drains:	Manual / Semi-auto:	Acetal
	Automatic:	PA / Brass connection
Bonnet:		Glass filled polyamide
Control knob:		Glass filled polyamide
Valve:		Brass / NBR
Screws:		Steel/ zinc plated

Dimensions (mm)



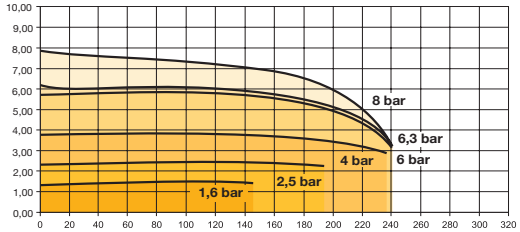
* 1/4" gauge port

Service kits

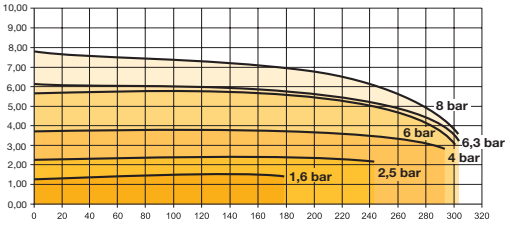
Description	Order code
5 micron element kit	**P3YKA00ESE**
40 micron element kit	**P3YKA00ESG**
Bowl kit with combined manual/semi auto drain	**P3YKA00BSC**
Bowl kit with auto drain	**P3YKA00BSA**
Key Lock Kit	**P3XKA00AS**
Diaphragm kit (relieving type)	**P3YKA00RR**
Diaphragm kit (non-relieving type)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

Flow characteristics

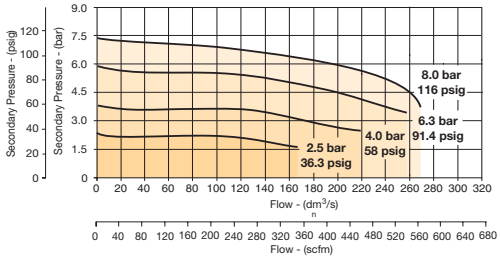
(3/4) 40 Micron Filter/Regulator



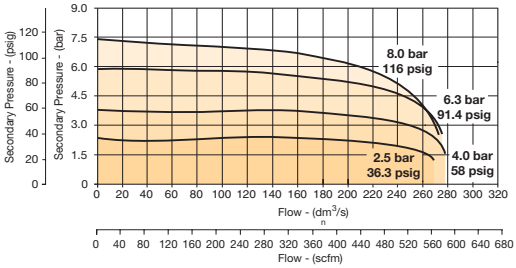
(1") 40 Micron Filter/Regulator



(3/4) 5 Micron Filter/Regulator



(1") 5 Micron Filter/Regulator

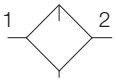


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Lubricator



Symbols



Lubricator
with drain

- Integral 3/4 or 1" ports (BSPP & NPT)
- Robust but lightweight aluminium construction
- Proportional oil delivery over a wide range of air flows.
- Possible to fill under system pressure eliminating down time
- Large oil reservoir

Options:

P3YLA [ ] [ ] **LSNN**

BSPP (G)	**1**	3/4"	**6**
NPT	**9**	1"	**8**

Port size	Description	Order Code	Flow dm^3/s *	Max bar	Min temp °C	Max temp °C	Bowl capacity cm^3	Height mm	Width mm	Depth mm	Weight kg
3/4	Oil mist, fill under pressure	**P3YLA16LSNN**	148	17.5	-10	60	500	247	90	94	0.8
1"	Oil mist, fill under pressure	**P3YLA18LSNN**	184	17.5	-10	60	500	247	90	94	0.8

* Flow with 6,3 bar inlet pressure and 0,5 pressure drop.

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Technical Information

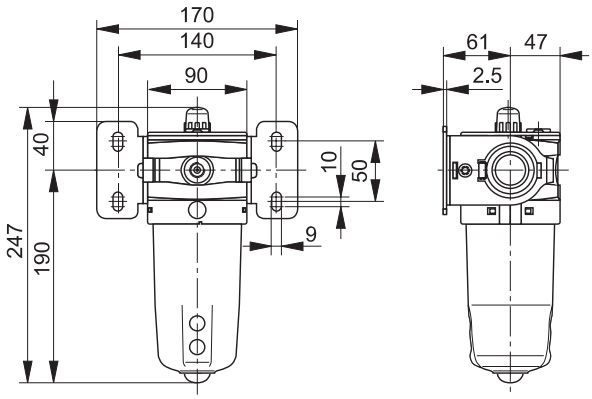
Fluid:	Compressed air
Maximum inlet pressure*:	17.5 bar
Temperature range*:	-10°C to +60°C

* Air supply must be dry enough to aviod ice formation at temperatures below +2^{0} C
Low flow start point (lubrication pick-up): at 6.3bar inlet pressure 0.5 dm^3/s
Typical flow with 6.3bar inlet pressure and 0.7 bar pressure drop: 184 dm^3/s

Material Specification

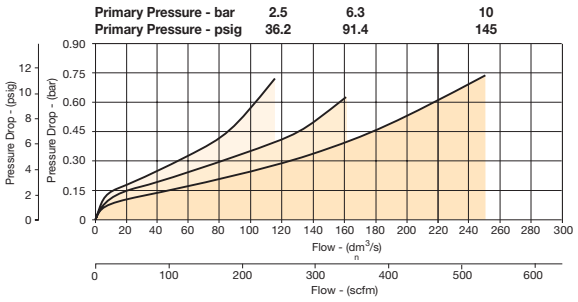
Body:	Aluminium
Bowl sight glass:	Polypropylene
Sight dome:	Polyamide
Lubricator cover:	ABS
Bayonet support:	Nylon
Seals:	Nitrile NBR

Dimensions (mm)

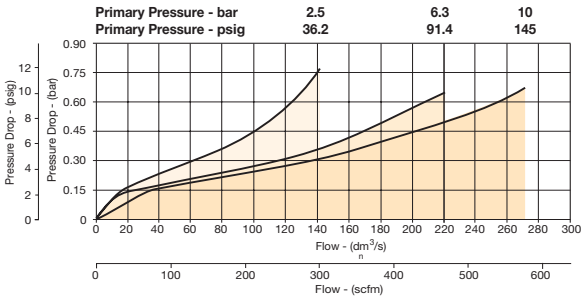


Flow characteristics

(3/4) Lubricator



(1") Lubricator



Service kits

Description	Order code
Bowl kit	**P3YKA00BSN**
Refill plug	**P3YKA00PL**
Lubricator Oil	**P3YKA00PPBB**

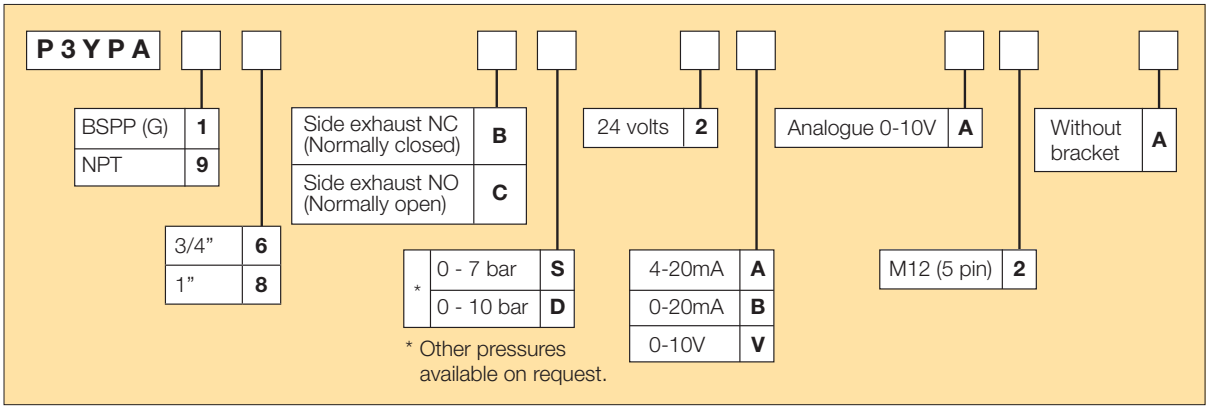
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Proportional Pressure Regulator



- Integral 3/4 or 1” 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
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

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Technical Information

Operating pressure range	P^1 min	1 bar	
Inlet pressure [1])	P^1 max	16 bar	
Operating pressure range	P^2 min	0.2 bar	
Outlet pressure	P^2 max	10 bar	
Operating Temperature	0°C to +50°C		
Maximum Flow	33 dm3/s		
Hysteresis	P^2 max	< 1%	
Repeatability	P^2 max	< 0.5%	
Sensitivity	P^2 max	< 0.5%	
Linearity	P^2 max	< 1%	
Nominal voltage	U_n V DC 24V = ±10%		
Residual ripple	10%		
Power consumption	I_{Bmax}	0.15 A	
Set value input	Uw	V	0 - 10
	I	mA	0 - 20
		mA	4 - 20
Input resistance	R_E	243 K	
Actual valve output	U_X	0 - 10 V⎓	
Ouput current	I_{Amax}	10 mA	
Degree of protection	IP65 to DIN 40050, EN 60529		

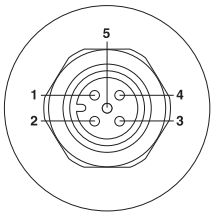
[1]) $p_1 > p_2 + 10\%\ p_2$

[2]) at p_1 - 10 bar to p_2 - 6.3 bar

Material Specification

Housing:	Aluminium
Pilot valve booster:	Brass / NBR composite aluminium
Standard seals:	NBR
Body cover screws:	Steel / zinc plated

Connection diagram



Connector M12 x 1

Pin 1:
Power supply
Plus +24 V DC ± 10%
0.15 A
Residual ripple 10%

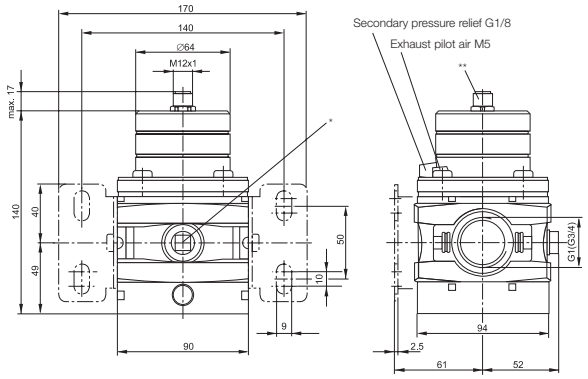
Pin 2:
Power supply 0 V
Reference and mass capacity
for set value and actual value

Pin 3:
Set value input
0 - 10 V

Pin 4:
0 V set signal
(connected on board
with pin 2 as standard)

Pin 5:
Analogue actual value output
0 - 10 V
Tolerance ± 0.15 V

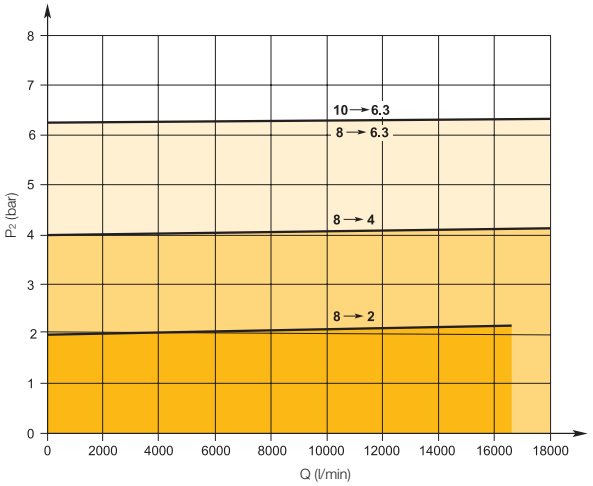
Dimensions (mm)



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

** Connection for 5-pin plug M12 x 1

Flow characteristics



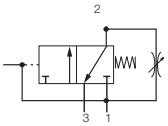
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Combined Soft Start Dump Valve and Remote Operated Dump Valve



P3Y 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.

Symbols



- Modular design with 3/4 & 1" 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

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 Y T A [ ] [ ] [ ] [ ] **N** [ ] [ ] [ ] [ ]

Solenoid type only

BSPP (G)	1
NPT	9

3/4"	6
1"	8

External air pilot	P
Solenoid pilot	S

30mm operator	C
Threaded air pilot	P

None (operator is fitted to valve)	0
30mm CNOMO coil (Form connection)	A
22mm coil (Form connection)	B
30mm CNOMO coil (M12 connection)	D
22mm coil (M12 connection)	E

Solenoid / coil not fitted	000
24V DC	2CN

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
3/4	Solenoid operated (not included)	**P3YTA16SCN0000**	175	16	-10	60	130	90	104	1.5
3/4	24VDC 22mm coil	**P3YTA16SCNB2CN**	175	10	-10	60	191	90	104	1.6
3/4	Air pilot operated	**P3YTA16PPN**	175	17.5	-10	60	145	90	104	1.4
3/4	24vDC 30mm coil	**P3YTA16SCNA2CN**	175	16	-10	60	130	90	104	1.6
1"	Solenoid operated (not included)	**P3YTA18SCN0000**	200	16	-10	60	130	90	104	1.5
1"	24VDC 22mm coil	**P3YTA18SCNB2CN**	200	10	-10	60	191	90	104	1.6
1"	Air pilot operated	**P3YTA18PPN**	200	17.5	-10	60	130	90	104	1.4
1"	24vDC 30mm coil	**P3YTA18SCNA2CN**	175	16	-10	60	130	90	104	1.6

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Technical Information

Fluid:	Compressed air
Max. pressure solenoid operated 22mm coil:	10 bar
Max. pressure solenoid operated 30mm coil:	16 bar
Minimum operating pressure:	2 bar
Temperature range* Solenoid operated:	-10⁰ to + 60⁰ C
Temperature range* Air Pilot operated:	-10⁰ to + 60⁰ C
Air Pilot port:	1/8”
Exhaust port:	1”
Gauge port:	1/4”
Typical flow with 6.3bar inlet pressure and 1 bar pressure drop:	3/4” 175 dm³/s 1” 200 dm³/s

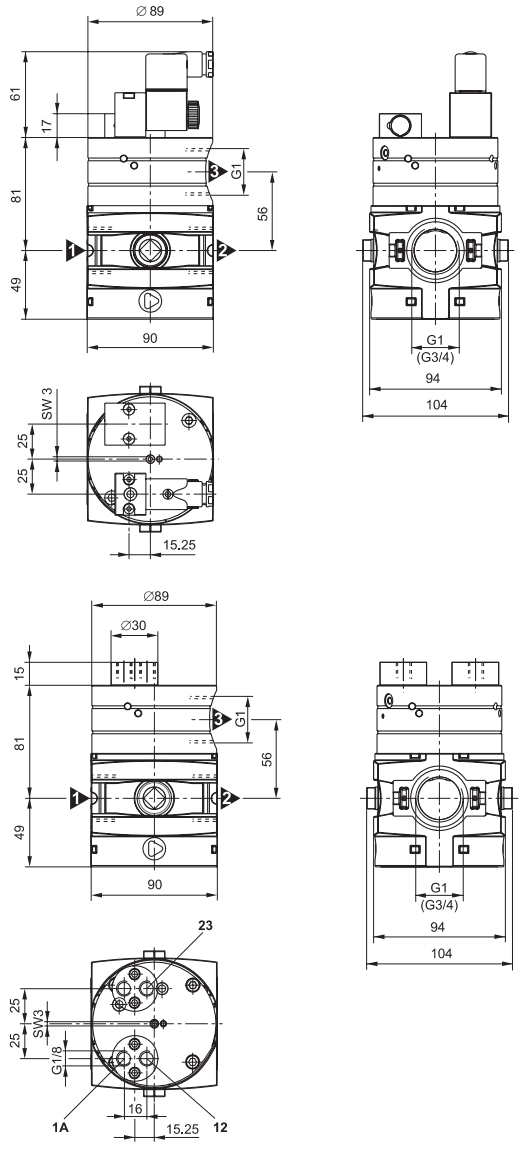
* Air supply must be dry enough to avoid ice formation at temperatures below +2ºC
Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure

Material Specification

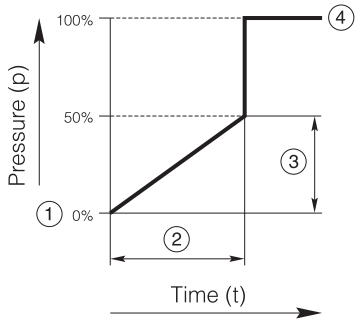
Body:	Aluminium
Body cover:	ABS
Valve:	Brass / NBR composite
Pilot valve booster:	Aluminium
Seals:	Nitrile NBR

Note: For solenoid coil and cable plug options see page 30.

Dimensions (mm)

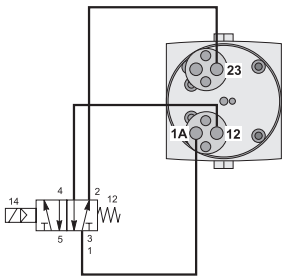


Flow characteristics

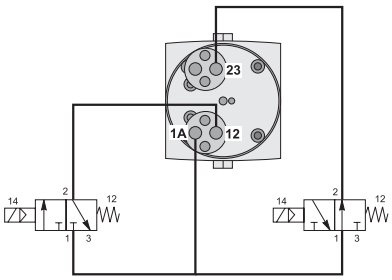


1. Start signal
2. Switching time delay
3. Gradual pressure build up
4. Operating pressure p² (=p¹)

Combined start/stop function



Combined start/stop function with acknowledgement

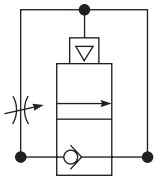


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Soft Start Valve



Symbols



- Integral 3/4” or 1” ports
- Smooth start-up of pneumatic system
- Air pilot operation
- Adjustable slow start
- High flow

Options:

P 3 Y S A			Y	0	N

BSPP (G)	1
NPT	9

3/4”	6
1”	8

Soft start 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
3/4	Soft start valve	**P3YSA16Y0N**	153	17.5	-10	60	85	90	97	0.8
1”	Soft start valve	**P3YSA18Y0N**	153	17.5	-10	60	85	90	97	0.8

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Technical Information

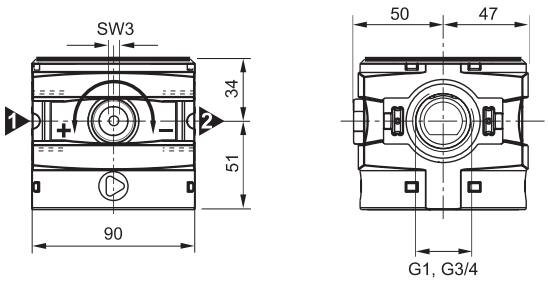
Fluid:	Compressed air
Maximum pressure Air Pilot operated:	17.5 bar
Minimum operating pressure:	2 bar
Temperature range* Solenoid operated:	-10⁰ to + 60⁰ C
Temperature range* Air Pilot operated:	-10⁰ to + 60⁰ C
Typical flow with 6.3bar inlet pressure and 1 bar pressure drop:	180 dm^3/s

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

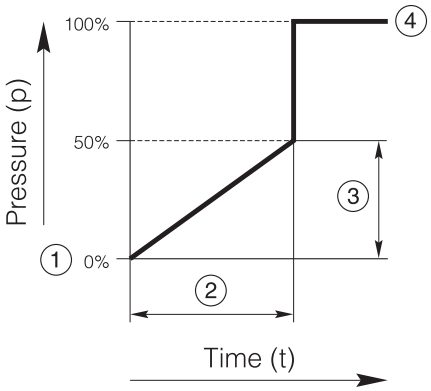
Material Specification

Body:	Aluminium
Body cover:	ABS
Valve:	Brass / NBR composite
Pilot valve booster:	Aluminium
Seals:	Nitrile NBR

Dimensions (mm)



Flow characteristics



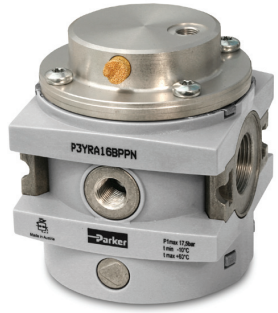
① Start signal

② Switching time delay

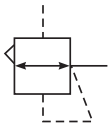
③ Gradual pressure build up

④ Operating pressure p^2 (=p^1)

Pilot Operated Regulator



Symbol



- Integral 3/4 or 1" ports (BSPP & NPT)
- Pilot controlled regulators can be mounted 'out of reach' with pilot regulator installed in a convenient location
- Constant pilot bleed control for accurate pressure control
- Balanced poppet provides quick response
- High flow

Options:

P3Y	RA			BPPN
		BSPP (G) 1 NPT 9	3/4" 6 1" 8	

Pilot Operated Regulator

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
3/4	Pilot operated regulator	**P3YRA16BPPN**	260	17.5	-10	60	105.5	90	90	1.2
1"	Pilot operated regulator	**P3YRA18BPPN**	260	17.5	-10	60	105.5	90	90	1.2

* Flow with 10 bar inlet pressure, 6.3 bar set pressure and 1 bar pressure drop.

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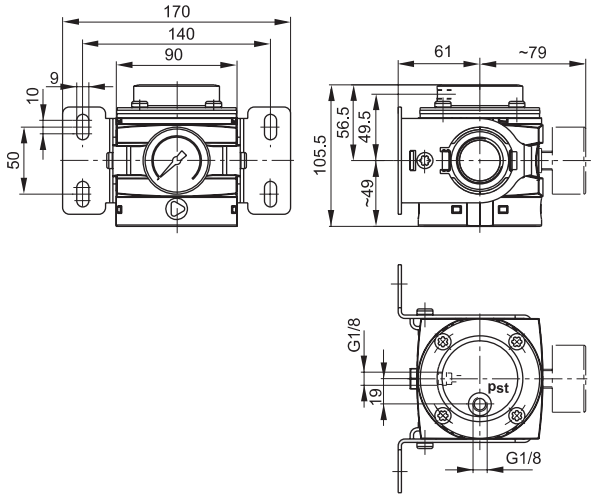
Technical Information

Flow Capacity:	3/4	260 dm^3/s
	1”	260 dm^3/s
Operating Temperature:		-10°C to +60°C
Maximum Supply Pressure:		17.5 bar
Weight (g):	3/4	1.2 kg
	1”	1.2 kg

Material specification:

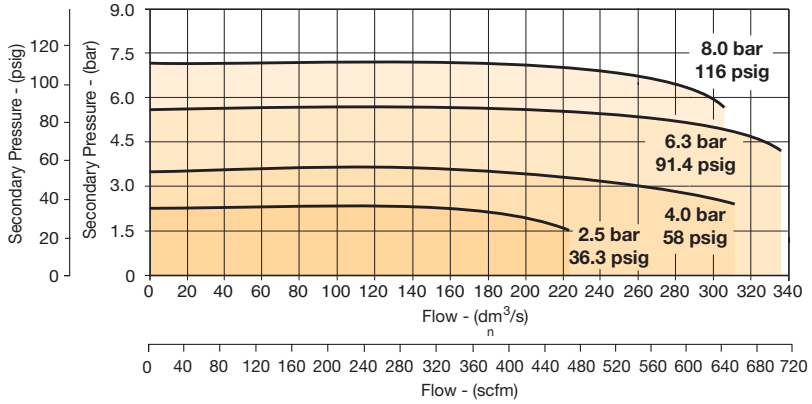
Body:	Aluminium
Body cover:	ABS
Seals:	Nitrile NBR
Screws:	Zinc plated steel
Valve:	Brass / NBR composite
Pilot valve booster:	Aluminium

Dimensions (mm)

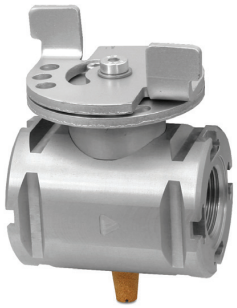


Flow characteristics

Pilot Operated Regulator

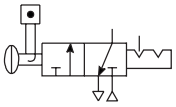


Modular Ball Valve



P3Y Series Ball Valves provide shut off line pressure with a non-sticking 90° turn handle to prevent unauthorised adjustment. When the inlet pressure is turned off the downstream vents through the exhaust port.

Symbols



- Positive bubble tight shut-off.
- 90° turn handle to prevent unauthorised adjustment.
- Padlockable (up to 6 times).
- When the inlet pressure is turned off the downstream vents through the exhaust port.

Options:

P3Y	VA			LBN

BSPP (G)	1
NPT	9

3/4”	6
1”	8

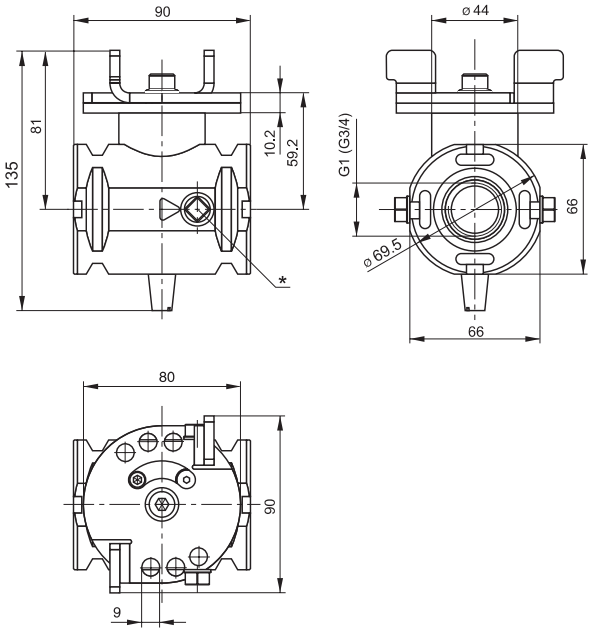
Technical Information

Flow Capacity:	3/4	333 dm^3/s
	1”	333 dm^3/s
Operating Temperature:		-10°C to +60°C
Maximum Supply Pressure:		17.5 bar
Weight (kg):	3/4	1.1
	1”	1.1

Material specification:

Body:	Aluminium
Valve ball:	Brass / Nickle plated
Handle:	Aluminium
Seals:	Nitrile NBR
Exhaust silencer:	Sintered bronze

Dimensions (mm)



Modular Manifold



P3Y Series Manifolds, provide up to 4 extra outlet ports, they may be assembled at any position in a combination e.g. before the lubricator to provide oil free take off or at the end of a combination to provide extra outlet ports.

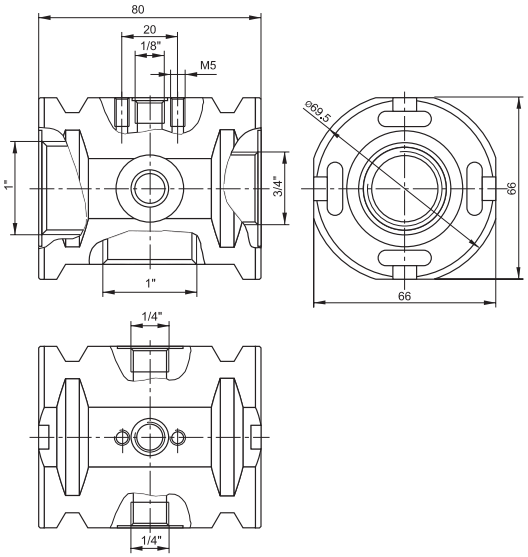
Thread type	Order code
BSPP	**P3YMA1V0N**
NPT	**P3YMA9V0N**

Inlet port	Top	Bottom	Front and Back
3/4”	1/8”	1”	1/4”
1”	1/8”	1”	1/4”

Material specification:

Body:	Aluminium
Weight (kg):	0.7

Dimensions (mm)





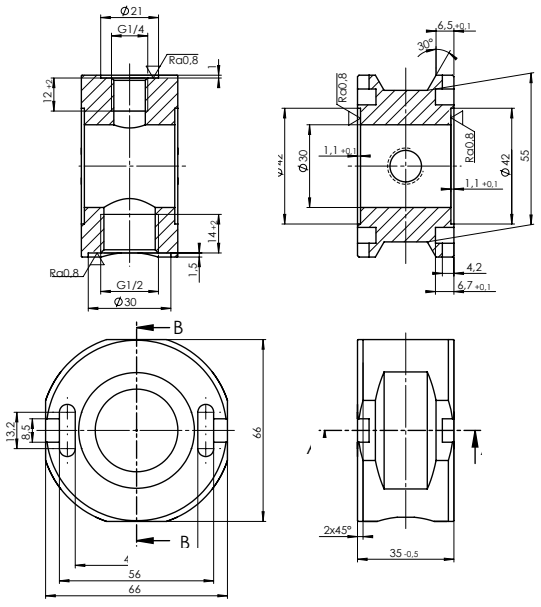
Thread type	Order code
BSPP	**P3YMA16024N**
NPT	**P3YMA96024N**

Inlet port	Top	Bottom	Front and Back
30mm	1/4”	1/2”	N/A

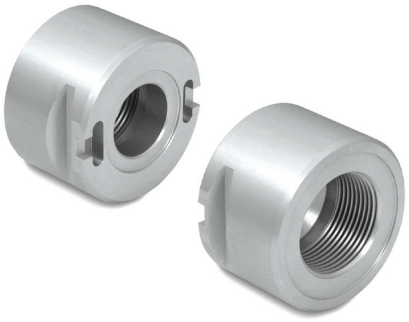
Material specification:

Body:	Aluminium
Weight (kg):	0.3

Dimensions (mm)



Optional Port Block Kits



- To change port sizes Port Block Kits are available, they are attached to any unit utilising the connecting kit.
- Allows assemblies to be removed from a hard piped system.

Options:

P3YKA			CP
BSPP (G)	1	$1^1/_4$"	A
NPT	9	$1^1/_2$"	B

Material specification:

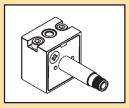
Body:	Aluminium
Weight (kg):	0.65

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Solenoid operator - CNOMO

Order key

P 2 F | P | 2 | 3 | N | 4 | B



	Operator Type
2	CNOMO 22 x 30 Plastic

	Pressure / Temp
N	10 bar / -10°C to +50°C

	Manual / Override
B	Non locking - monostable - Flush - Brass

Technical data - Solenoid operators, coil combinations

	NC Normal Operator with 30 x 30 standard coil	NC Normal Operator with 22 x 30 standard coil
Working pressure	0 to10 bar	0 to 10 bar
Ambient temperature	-10 °C to 60 °C (1)	-10 °C to 60 °C (1)
Orifice	1.3/1.5mm	1.3/1.5mm
Flow Qn	0.84 dm^3/s	0.84 dm^3/s
Power (DC)	2.7W	4.8W
Power (AC)	4.9VA	8.5VA
Voltage tolerance	+/- 10%	+/- 10%
Duty cycle	100%	100%
Insulation class	F	F
Electric connection	Form A	Industrial B
Protection	IP65	IP65
Shock & Vibration	1g	1g
Approval	UL/CSA	
Working media	All neutral media such as compressed air and inert gases.	

(1) limited to 50°C if use with 100% duty cycle

Transients

Interrupting the current through the solenoid coil produces momentary voltage peaks which, under unfavourable conditions, can amount to several hundred times the rated operating voltage. Normally, these transients do not cause problems, but to achieve the maximum life of relays in the circuit (and particularly of transistors, thyristors and integrated circuits) it is desirable to provide protection by means of voltage-dependent resistors (varistors). All connectors/cable plugs EN175301-803 with LED's include this type of circuit protection.

Materials

Pilot Valve

Body:	Polyamide
Armature tube:	Brass
Plunger & core:	Corrosion resistant Cr-Ni steel
Seals:	FKM (Viton™)
Screws:	Stainless steel

Coil

Encapsualtion material:	Thermoplastic as standard Duroplast for M12 connection

Solenoid coils with Din A or Industrial B connection

Voltage	30mm x 30mm Order code DIN A Standard	Weight (Kg)	22mm x 30mm Order code Industrial B standard	Weight (Kg)
Direct current				
12V DC	**P2FCA445**	0.105	**P2FCB445**	0.093
24V DC	**P2FCA449**	0.105	**P2FCB449**	0.093
48V DC	**P2FCA453***	0.105	**P2FCB451**	0.093
Alternative current				
12V 50/60Hz	**P2FCA440**	0.105	**P2FCB440**	0.093
24V 50/60Hz	**P2FCA442**	0.105	**P2FCB442**	0.093
48V 50/60Hz	**P2FCA469#**	0.105		
110V 50Hz, 120V 60Hz	**P2FCA453***	0.105	**P2FCB453**	0.093
230V 50Hz, 230V 60Hz	**P2FCA457**	0.105	**P2FCB457**	0.093

* P2FCA453 is compatible with 110 V AC and 48 V DC
\# P2FCA469 is 24 V DC 6.8W or 48 V 50Hz 9.9 VA

Solenoid coils with M12 connection

Voltage	Order code Form A 30 x 30	W (Kg)	Order code Form B 22 x 30	W (Kg)
Direct current 24V DC	**P2FC6419**	0.065	**P2FC7419**	0.065

Spare Solenoid Operators

Solenoid pilot operator CNOMO NC

Description	Order code Non-lock manual override	Weight (Kg)
Standard duty	**P2FP23N4B**	0.065

Note.
Solenoid pilot operators are fitted to the Global range. Order the above part numbers for spares. The operators are supplied with mounting screws and interface 'O' rings. **Coils and connectors must be ordered separately.**

Spare Solenoid Nuts

Valves requiring captured exhaust should be fitted with plastic knurled nut

Order code
P2FNP

Valves with vented exhaust are fitted with diffuser plastic nut

Order code
P2FND

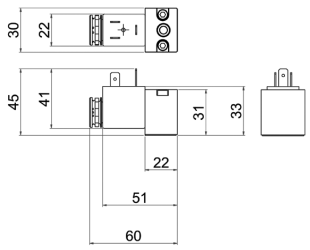
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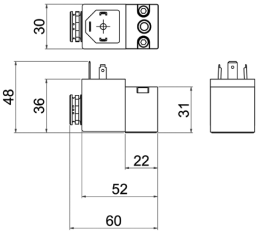
Solenoid Connectors / Cable Plugs EN175301-803

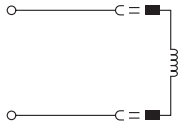
	Description	Order code 22mm Form B Industrial	Order code 30mm Form A ISO4400
With standard screw 	Standard IP65 without flying lead	**3EV10V10**	**3EV290V10**
	With LED and protection 24V AC/DC	**3EV10V20-24**	**3EV290V20-24**
	With LED and protection 110V AC	**3EV10V20-110**	**3EV290V20-110**
	With LED and protection 230V AC	**3EV10V20-230**	**3EV290V20-230**
With cable 	24V AC/DC, 5m cable LED and protection IP65	**3EV10V20-24L5**	**3EV290V20-24L5**
	110V AC/DC, 5m cable LED and protection IP65	**3EV10V20-110L5**	**3EV290V20-110L5**
	230V AC, 5m cable LED and protection IP65	**3EV10V20-230L5**	**3EV290V20-230L5**

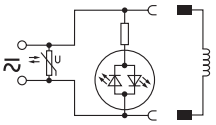
Solenoid Coil & Cable Plug Dimensions (mm)

P2F - CNOMO - 22 x 30mm







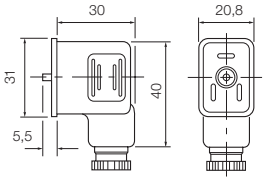


P8C-C	
P8C-D	
P8L-C2	
P8L-C5	
3EV10V10	

P8C-D26C	**P8L-C226C**
P8C-D21E	**P8L-C526C**
P8C-C26C	**P8L-CA26C**
P8C-C21E	**P8L-C221E**
	P8L-C521E
3EV10V20-24	**3EV10V20-24L5**
3EV10V20-110	**3EV10V20-110L5**
3EV10V20-230	**3EV10V20-230L5**

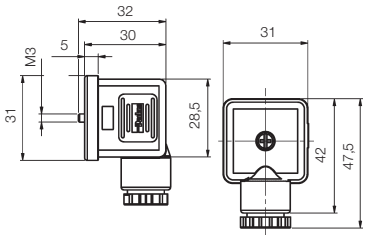
Form B
Cable plugs

3EV10V10



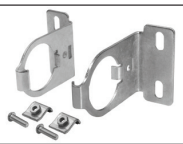
Form A
Cable plugs

3EV290V10



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Accessories

Description		Connection	Weight (kg)	Order code	
Panel mounting nut (Aluminium)			0.70	**P3YKA00MM**	
Neck mounting bracket kit			3.75	**P3YKA00MS**	
Wall mounting brackets			0.2	**P3YKA00CW**	
P3Y connecting kit			0.05	**P3YKA00CB**	
Regulator & Filter/Regulator - Key Lock Kit			0.05	**P3XKA00AS**	
Pressure gauge	0 to 10 bar 0 to 16 bar	1/4” 1/4”	0.06 0.06	**KG8012-00** **KG8013-00**	
Lubricator Oil	VG32 - 1 litre		0.92	**P3YKA00PPBB**	
Connector O-ring kit	Qty: 5			**P3YKA08CY**	

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CN – China, Shanghai
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HK – Hong Kong
Tel: +852 2428 8008

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