

For the most demanding hi-flow industrial applications



The P3Y system allows units to be connected together, without the use of pipe connectors, saving space; providing constant mounting centres; whilst maintaining a modern aesthetically pleasing appearance.

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

The P3Y Regulators are designed to provide quick response and accurate pressure regulation for the most demanding hi-flow industrial applications. The rolling diaphragm was designed for long trouble-free operation and will not rupture or tear under high cycle or other demanding applications.



Selection of Filters

Standard Filter **Coalescing Filter**

Adsorber Filter **Dust Filter**

Labels in the exploded view diagram include:
 Neck mounting nut
 Neck mounting bracket
 Non rising control knob
 Regulator
 Constant density lubrication
 Wall mounting bracket
 Lubricator can be filled under pressure to eliminate downtime
 Body connecting kit
 Nitrile 'O' ring seal
 All units body ported
 Metal bowl with chemical resistant sight glass
 Combined manual / semi-auto drain & auto drain options
 Flow directional arrows
 Wall mounting bracket
 40 micron filter element as standard



DECLARATION



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

Product	Series	Category
Filter	P3YFA	for zone 1, 21
Regulator	P3YRA	for zone 1, 21
Filter regulator	P3YEA	for zone 1, 21
Lubricator	P3YLA	for zone 1, 21
Ball Valve	P3YVA	for zone 1, 21
Manifold	P3YMA	for zone 1, 21

For non-fitted solenoid product

Soft Start & Dump Valve	P3YTA	for zone 1, 21
Soft Start Valve	P3YSA	for zone 1, 21
Dump Valve	P3YDA	for zone 1, 21

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

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

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

Approved by:

E. Bauregger (Location Engineering Manager)

- Integral 3/4 or 1" ports (BSPP or NPT)
- High efficiency element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminium construction
- Secondary pressure ranges 12 and 16 bar
- Rolling diaphragm for extended life
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Low temperature -40°C with Regulators/Filters and Filter Regulators using combined manual/semi auto drain as standard without pressure gauge.



Operating information

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

Flow characteristics

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

Filters - 40 micron element

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

Dust Filters - 1 micron element

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

Regulators - relieving type - non relieving options available

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

Pressure Gauges

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

Coalescing Filters - 0.01 micron element

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

Adsorber Filters

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

Lubricators

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

Filter/Regulators - relieving type - non relieving options available

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

Combined Soft Start Dump Valve and Remote Operated Dump Valve

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

Soft Start Valve

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

Neck mounting bracket kit

Description	Order Code
Neck mounting bracket kit	P3YKA00MS

Wall mounting brackets

Description	Order Code
Wall mounting brackets	P3YKA00CW

Pilot Operated Regulator

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

Modular Ball Valve

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

Modular Manifold

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

Optional Port Block Kits

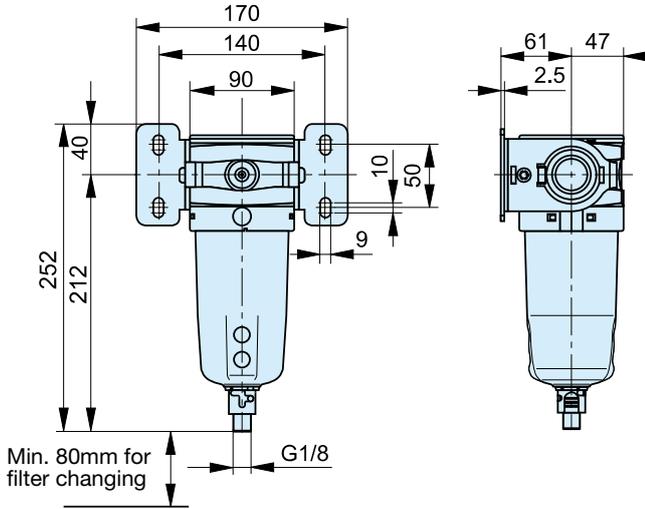
Port size	Description	Order Code
G1 ¹ / ₄ "	Port block kit - BSPP	P3YKA1ACP
G1 ¹ / ₂ "	Port block kit - BSPP	P3YKA1BCP
G3/4"	Port block kit - BSPP	P3YKA16CP
G1"	Port block kit - BSPP	P3YKA18CP

Connector kit

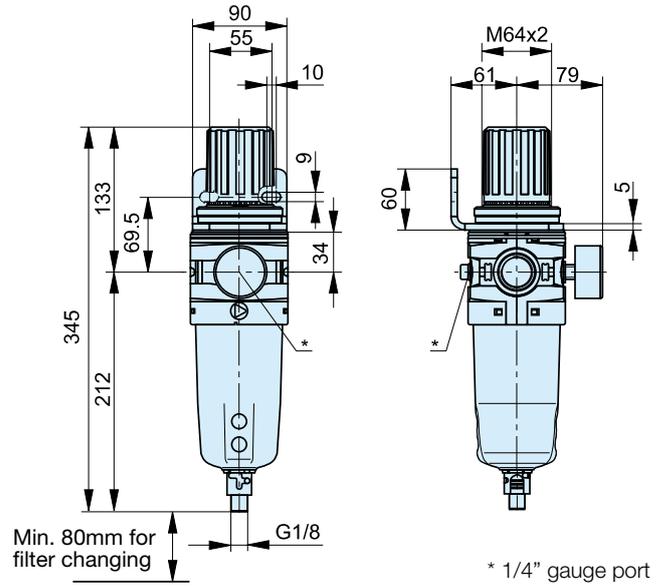
Description	Order Code
Connector kit	P3YKA00CB

Dimensions (mm)

Filters

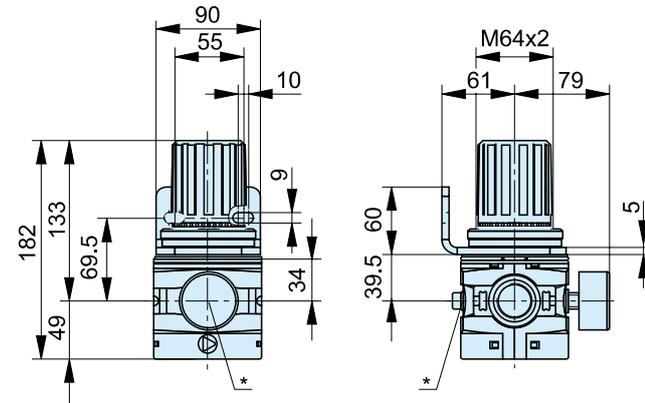


Filter/Regulators



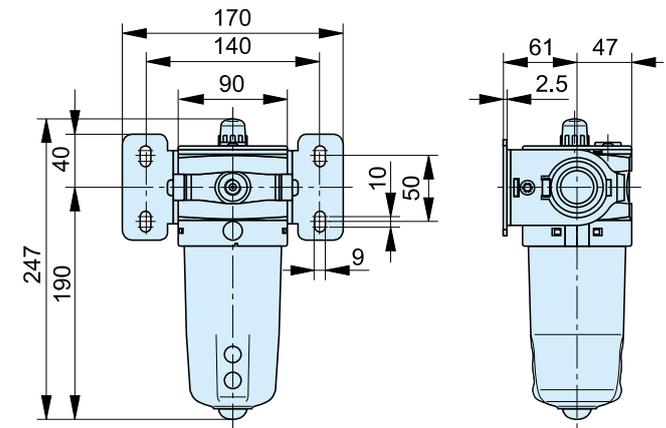
* 1/4" gauge port

Regulators



* 1/4" gauge port

Lubricators



Service kits

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