

P3Y Coalescing and Adsorber Filters - Large

- 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
- Adsorber activated carbon element removes oil vapors and most hydrocarbons
- Robust but lightweight aluminum construction



Notes: To optimize 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.

To optimize the life of the adsorber element, it is advisable to install a P3Y coalescing 0.01 micron filter upstream of the adsorber filter.

Port Size	Description	Part Number
3/4"	Coalescing Filter 0.01 micron, Combined Manual / Semi-Auto Drain	P3YFA16DSCN
3/4"	Coalescing Filter 0.01 micron, Auto Drain	P3YFA16DSAN
1"	Coalescing Filter 0.01 micron, Combined Manual / Semi-Auto Drain	P3YFA18DSCN
1"	Coalescing Filter 0.01 micron, Auto Drain	P3YFA18DSAN

Operating Information

Supply pressure (max)*:	254 psig (17.5 bar)
Operating temperature:	14°F to 140°F (-10°C to 60°C)
Manual / auto drain:	Closed at 11.6 psig (0.8 bar) G1/8 thread male
Media specifications:	
Adsorber, max oil carryover	0.008 mg/m ³ (PPM w/w)
Bowl capacity:	4.4 US oz. (130 cm ³)
Standard filtration:	0.01 micron

Flow capacity†:

- 3/4" 1.0 micron coalescing 290 scfm (137 dm³/s, ANR)
- 1" 1.0 micron coalescing 307 scfm (145 dm³/s, ANR)
- 3/4" 0.01 micron coalescing 104 scfm (49 dm³/s, ANR)
- 1" 0.01 micron coalescing 125 scfm (59 dm³/s, ANR)
- 3/4" Activated carbon adsorber 100 scfm (47 dm³/s, ANR)
- 1" Activated carbon adsorber 106 scfm (50 dm³/s, ANR)

Fluid:	Compressed air
Weight:	3.5 lb (1.6 kg)

† Inlet pressure 91.4 psig (6.3 bar) inlet pressure and 7.3 psig (0.5 bar) pressure.

* Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C).

Air quality:ISO 8573-1:2010: 0.01µm closes to Class 1 for maximum particle size and concentration of solid contaminants, and closes to Class 1 on maximum oil content (ppm/wt). Within ISO 8573-1:2010: Adsorber closes to Class 1 on maximum oil content (ppm/wt).

Ordering Information:

Basic Series		Thread Type*		Port Size		Element		Drain Type	
Coalescing Filter	P3YFA	BSPP	1	3/4	6	D	0.01 micron Element with DPI Standard	SC	Combined Manual / Semi Auto Drain
		NPT	9	1	8	A	Adsorber	SA	Auto Drain
						2	1 Micron		

* Note: For 1-1/2" ported unit, please order P3YKA*BCP port block kit separately.

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Material Specifications

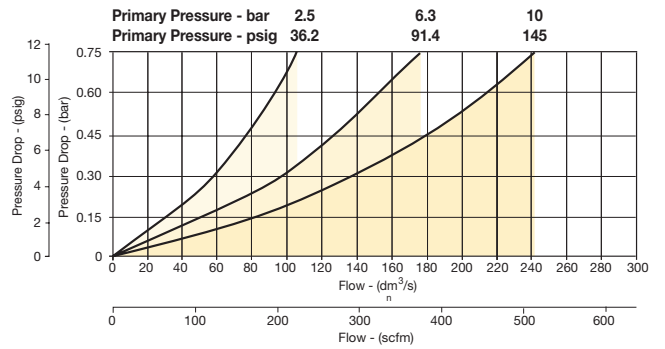
Body	Aluminium
Sight glass and bowl	Polypropylene
Filter cover	ABS
Coalescing element	Borosilicate & nano fibers
Top & bottom end cap (coalescing)	Aluminium
Adsorber element	Activated carbon
Top & bottom end cap (adsorber)	Glass filled nylon
Support cylinders	Grade 430 stainless steel
Support media	Polypropylene
Anti re-entrainment barrier	Polyester
Encapsulation	Epoxy resin / hardener
Seals	Nitrile NBR
Manual / semi-auto drain	Acetal
Auto drain	PA / Ø 10mm brass connection
Differential pressure indicator, body	Acetal
Differential pressure indicator, internal parts	Acetal
Differential pressure indicator, spring	Stainless steel
Differential pressure indicator, seals	Nitrile NBR
Differential pressure indicator, support plate	ABS
Differential pressure indicator, screws	Steel / zinc plated

Repair and Service Kits

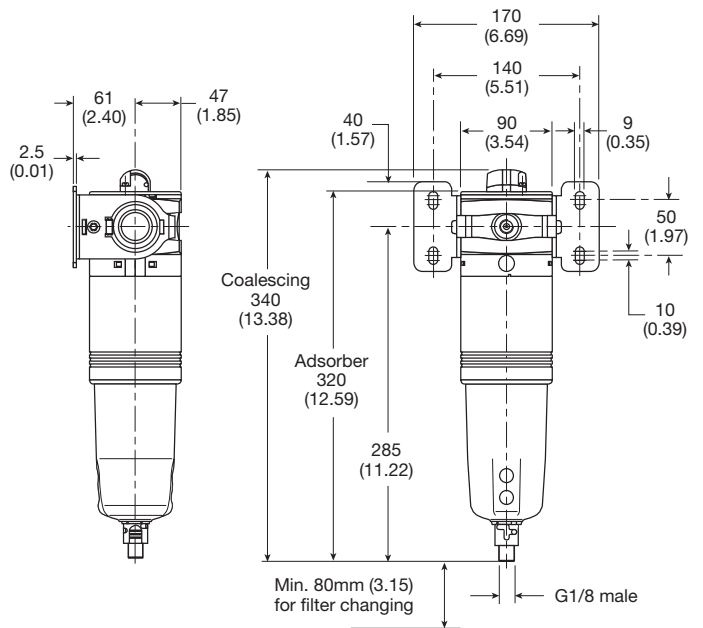
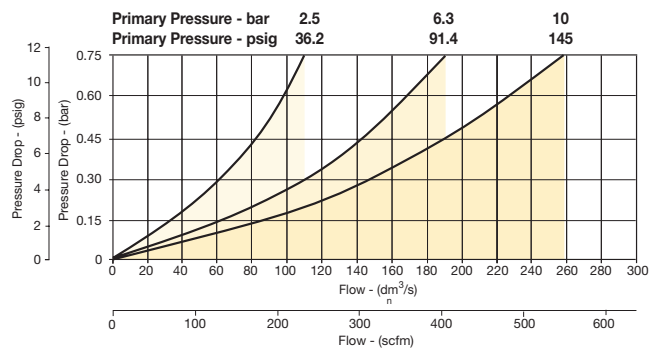
0.01 micron element kit	P3YKA00ESC
Adsorber element kit	P3YKA00ESA
1 micron coalescing element kit	P3YKA00ES9
Bowl kit with combined manual / semi auto drain	P3YKA00BSC
Bowl kit with auto drain	P3YKA00BSA
Differential pressure indicator kit	P3YKA00RQ

Flow Characteristics

(3/4") 0.01 Micron Coalescing Filter Saturated



(1") 0.01 Micron Coalescing Filter Saturated



mm (Inches)

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