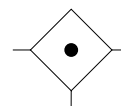


## Standard Coalescing and Adsorber Filter - P33

## Symbol



- Integral 1/2" or 3/4" ports (NPT & BSPP)
- Removes liquid aerosols and sub micron particles
- Oil free air for critical applications, such as air gauging, pneumatic instrumentation and control
- Differential Pressure Indicator (DPI) standard on Coalescing Filters
- Positive bayonet latch to ensure correct & safe fitting
- Adsorbing activated carbon element removes oil vapors and most hydrocarbons

**Note:** To optimize the life of coalescing element, it is advisable to install a P33F pre-filter with a 5 micron element upstream of the coalescing filter.

To optimize the life of an Adsorber it is advisable to install a P33 Coalescing Filter upstream of the Adsorber. Adsorber element should be replaced approximately every 1000 hours of service.

## Options:

P33FA							N	
Basic series		Thread type		Port size		Drain type		Mounting
Global modular standard coalescing filter P33FA		BSPP 1		1/2 4		M Manual drain		N No bracket
		NPT 9		3/4 6		A Auto drain		
		Element		Bowl type				
		0.01µ Element C		G Poly bowl with bowl guard				
		0.01µ Element with DPI D		S Metal bowl with sight gauge				
		1µ Element 9						
		1µ Element with DPI Q						
		Adsorber A						

**Bold items are most common.**

Port size	Description	Flow <sup>†</sup> dm <sup>3</sup> /s (scfm)	Max. bar (psig)	Height mm (inches)	Width mm (inches)	Depth mm (inches)	Part number <sup>†</sup>
1/2"	Poly bowl - 0.01 micron, manual drain	32 (68)	10 (150)	235 (9.25)	73 (2.87)	73 (2.87)	<b>P33FA14DGMMN</b>
1/2"	Poly bowl - 0.01 micron, auto drain	32 (68)	10 (150)	229 (9.02)	73 (2.87)	73 (2.87)	<b>P33FA14DGAN</b>
1/2"	Metal bowl - 0.01 micron, manual drain	32 (68)	17 (250)	235 (9.25)	73 (2.87)	73 (2.87)	<b>P33FA14DSMN</b>
1/2"	Metal bowl - 0.01 micron, auto drain	32 (68)	17 (250)	229 (9.02)	73 (2.87)	73 (2.87)	<b>P33FA14DSAN</b>
3/4"	Poly bowl - 0.01 micron, manual drain	32 (68)	10 (150)	235 (9.25)	73 (2.87)	73 (2.87)	<b>P33FA16DGMMN</b>
3/4"	Poly bowl - 0.01 micron, auto drain	32 (68)	10 (150)	229 (9.02)	73 (2.87)	73 (2.87)	<b>P33FA16DGAN</b>
3/4"	Metal bowl - 0.01 micron, manual drain	32 (68)	17 (250)	235 (9.25)	73 (2.87)	73 (2.87)	<b>P33FA16DSMN</b>
3/4"	Metal bowl - 0.01 micron, auto drain	32 (68)	17 (250)	229 (9.02)	73 (2.87)	73 (2.87)	<b>P33FA16DSAN</b>

<sup>†</sup> Standard part numbers shown in bold. For other models refer to Options chart above.

<sup>‡</sup> Flow with 6.3 bar (91.3 psig) inlet pressure and 0.2 (3 psig) pressure drop.

## Specifications

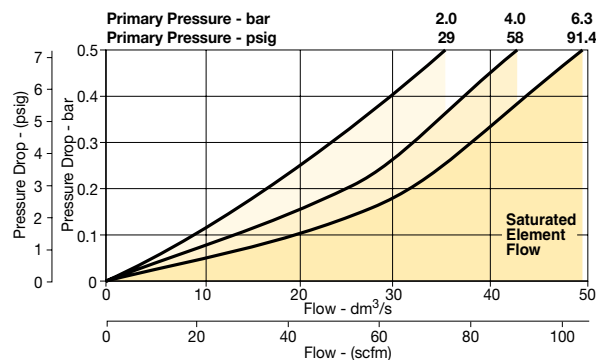
Flow capacity		
1.0 micron coalescing		32 dm <sup>3</sup> /s (68 scfm)
0.01 micron coalescing		20 dm <sup>3</sup> /s (42 scfm)
Activated carbon adsorber		34 dm <sup>3</sup> /s (72 scfm)
Operating temperature	Plastic bowl	-25°C to 52°C (-13°F to 125°F)
	Metal bowl	-25°C to 65.5°C (-13°F to 150°F)
Max. supply pressure	Plastic bowl	10 bar (150 psig)
	Metal bowl	17 bar (250 psig)
Standard filtration		1.0 and 0.01 micron
Adsorber Max. oil carryover (ppm w/w)		0.003 @ 21°C (70°F)
Useful retention <sup>†</sup>		85 cm <sup>3</sup> (2.8 US oz.)
Port size		BSPP / NPT 1/2, 3/4
Weight		0.50 kg (1.10 lbs)

Inlet pressure 6.3 bar (91.3 psig), Pressure drop 0.2 bar (3 psig), Saturated Element.

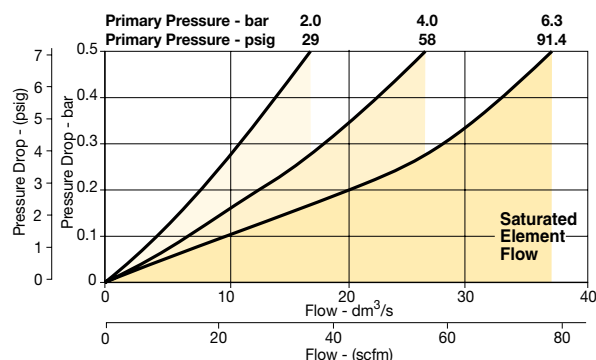
<sup>†</sup> Useful retention refers to volume below the quiet zone baffle.

## Flow Charts

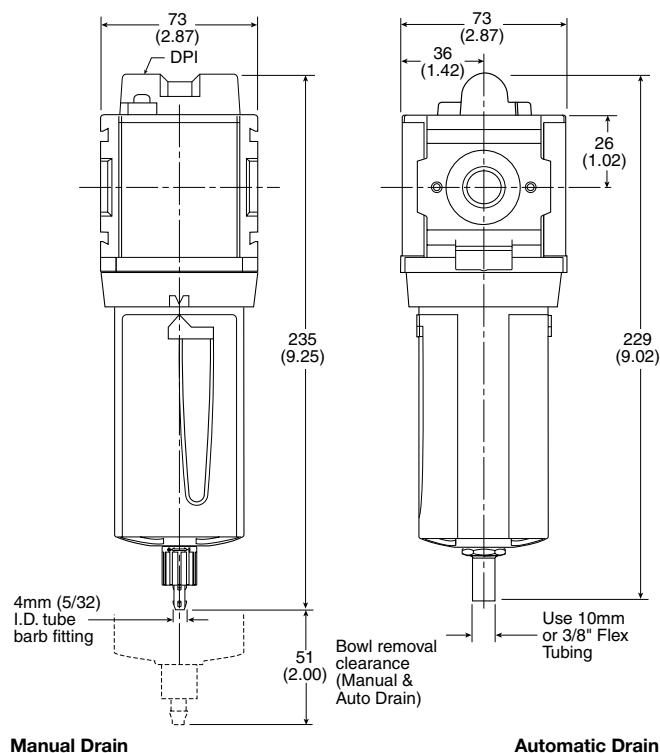
### P33 - 1.0 micron flow



### P33 - 0.01 micron flow



## Dimensions mm (inches)



## Material Specifications

Body	Aluminum	
Body cap	ABS	
Bowls	Plastic bowl	Polycarbonate
	Metal bowl	Aluminum
Filter element	1.0 and .01 micron	Borosilicate cloth
Adsorber	Activated carbon	
Seals	Nitrile	
Sight gauge	Metal bowl	Polycarbonate

## Repair and Service Kits

Plastic bowl / Bowl guard manual drain	<b>P33KA00BGM</b>
Metal bowl / Sight gauge manual drain	<b>P33KA00BSM</b>
Auto drain	<b>P32KA00DA</b>
1μ coalescing filter element	<b>P33KA00ES9</b>
0.01μ coalescing filter element	<b>P33KA00ESC</b>
Activated carbon adsorber filter element	<b>P33KA00ESA</b>
L-bracket (fits to body)	<b>P33KA00ML</b>
T-bracket (fits to body connector)	<b>P32KA00MB</b>
T-bracket with body connector	<b>P32KA00MT</b>
Body connector	<b>P32KA00CB</b>
Differential pressure indicator (replacement)	<b>P32KA00RQ</b>