



# CLEARPOINT®

## Threaded Activated Carbon Cartridge Filters

### + Features and Benefits

#### ENERGY EFFICIENT BY DESIGN:

*ultra-low differential pressure  
for all 3E cartridge designs*

#### FLOW OPTIMIZED HOUSING:

*the unique curved inlet design was  
engineered to provide the lowest possible  
differential pressure*

#### MAXIMUM RELIABILITY:

*double threaded filter head, extruded, fully  
anodized sea-water resistant housing,  
and manual ball valve*



#### COMPREHENSIVE LINE:

*3 models from 80 to 330 scfm and  
up to 232 psig with optional filling materials  
such as molecular sieve or Hopcalite*

#### SIMPLIFIED MAINTENANCE:

*simple, push-fit cartridge design and no tie-rods  
for quick and easy maintenance with no mess*

### + Operating Principle

#### 1 Connections

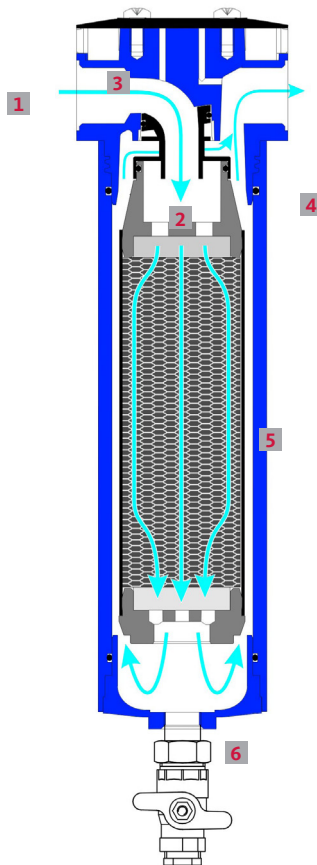
The threaded end fittings of the CLEARPOINT® compressed air filters are, compared with those of other filter brands, generously dimensioned and constructionally optimally aligned with the connections of the different compressor manufacturers. Energy-guzzling constrictions are therefore a thing of the past. Through the innovative connection method, the full cross-section will also be maintained when combining several CLEARPOINT® compressed-air filters.

#### 2 Filter elements

CLEARPOINT® cartridges are designed without the use of cross-section-reducing and tension disturbing anchors. The innovative push-fit design of the elements allows easy and fast replacement.

#### 3 More profitability

Up to 75% less flow resistance; more profitability. The flow optimized, curved inlet saves energy costs.



#### 4 Increased safety

The safe shutter mechanism offers a 100% control when opening the filter housing. In the event that the housing is opened under pressure, a warning signal sounds. The shutter mechanism also prevents unlatching during vibrations.

#### 5 Effective corrosion protection

Condensate accumulating during compressed-air filtration is almost always aggressive, so that unprotected housings corrode. CLEARPOINT® filter housings are made of saltwater-proof aluminum and, in addition, are fully anodized. This increases the operational safety because corrosion cannot develop on the clean-air side; the ultimate consumer is therefore protected. Moreover, the permanently smooth surface reduces the flow resistance.

#### 6 Ease of maintenance

A hexagonal profile has been included in the design of the filter housing allowing it to be easily opened for element changes.

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with manual ball valve

## Activated Carbon cartridge

Removal of solid particles up to 1 µm

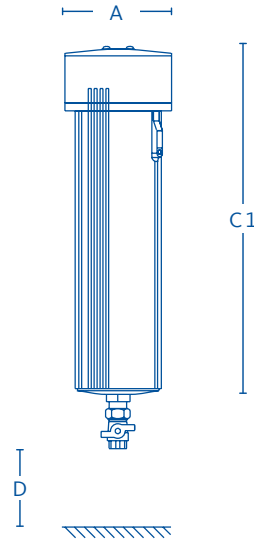
Residual oil vapor content down to .003 mg/m<sup>3</sup>

Max. operating temperature 140°F

Max. operating pressure 232 psig

Max. inlet moisture of 3% (dryer required downstream)

Fully anodized powder-coated aluminum



CLEARPOINT®	S055	M010	M018
Pipe size (NPT)	½"	¾"	1 ½"
Flow rate (scfm)	80	160	330
Element Size	06V	10V	18V
Dimension data			
A (inches)	2.95	3.94	5.75
C1 (inches)	10.43	13.78	16.46
D (inches)	5.91	5.91	6.30
Weight (lbs)	2.65	4.63	9.92

ELEMENT GRADE	ELEMENT TYPE	MICRON RATING	OIL CARRYOVER	Δ PRESSURE (psid)
Grade V	Activated Carbon Cartridge	1 µm	.003 mg/m <sup>3</sup>	.54

## Correction Factor

Operating Pressure (psig)	20	40	60	80	90	100	110	120	130	140	160	180	200	230
Correction Factor	.30	.48	.65	.82	.91	1.00	1.09	1.17	1.26	1.35	1.52	1.70	1.87	2.13

Subject to technical errors, changes, omissions and/or corrections without prior notice.