DD DDp PD PDp QD

ATLAS COPCO COMPRESSED AIR FILTER

Atlas Copco offers a range of filters to reduce all types of contamination in compressed air process. Designed for maximum contaminant removal and minimal pressure drop, Atlas Copco filters offer significant energy savings in the compressed air system as well as minimising the problems that result from poor air quality.

The +range filters, which comply with ISO 12500-1:2007 and ISO 8573-2:2007 standards, do not only offer an industry leading air purity, but also focus on lifecycle cost.

DD & DD+ refer to coalescing filters for general purpose protection, removing solid particles, liquid water and oil aerosol. Total mass efficiency 0.01 µm 99.93 %.

DDp & DDp+ refer to particle filters for dust protection. Total mass efficiency 0.01 µm 99.93 %.

PD & PD+ refer to high efficiency coalescing filters, removing solid particles, liquid water and oil aerosol. Total mass efficiency 0.01 µm 99.99 %.

PDp & PDp+ refer to high efficiency particle filter for dust protection. Total mass efficiency 0.01µm 99.99 %.

QD & QD+ refer to active carbon filters for removal of oil vapours and hydrocarbon odours with a maximum remaining oil content of 0.003 mg/m3 (0,003ppm). Should be installed after a PD or PD+ filter.

Your benefits

Excellent reliability

Enhanced perforated stainless steel cores ensure ultimate strength and terminates the risk of implosion. The filter will never generate rust particles itself.

Obvious energy saving

A unique internal design of Atlas Copco equips filters an ideal flow path and hence a low pressure drop.

Easy installation

Compact size of Atlas Copco filters require minimum installation space and minimal free space for cartridge change.

Low maintenance cost

A special rotating system for the bottom cover helps our service technician for an easy maintenance.

Quality and reliability

Double O-rings ①

- Reduce leakage risks for a high reliability

Push-on element ②

- Simplify installation and maintenance and increases reliability

Stainless steel filter cores ③

- Ultimate strength and no risk for implosion

Protection paper ④

- Avoid damaging glass fibers

New enhanced glass fiber media and impregnated activated carbon layers ⑤

- Work together to remove oil coalescence and dust and oil vapor

Open foam (not for QD and QD+) ⑥

- Drain liquid

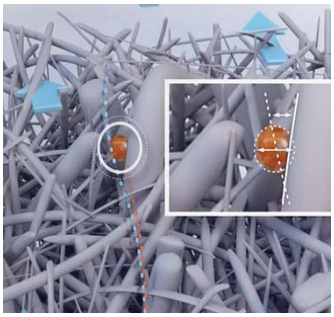
Epoxy sealed caps ⑦

- Reduce leakage risks

Working principle

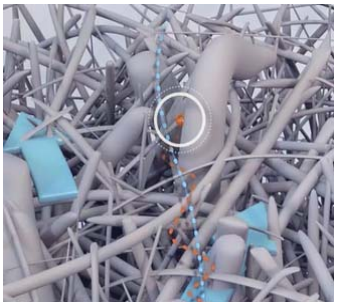
Inertial Impaction

Large particles travel in a straight line and impact the filter media. Air travels around and through the filtration media.



Interception

Smaller particles follow air but when the particle size is greater than the gap of the fibers, the contamination is trapped and removed from the air flow.



Diffusion

The smallest particles do not follow the air flow but move randomly, which is called Brownian motion. As the particles move around they impact the filter media and are removed from the air flow.

Standard scope of supply

- Head
- Bowl
- Filter element(s)
- Differential pressure gauge
- Automatic drain (not for QD, QD+, DDp, DDp+, PDp, PDp+)
- Manual drain (not for QD, QD+, DDp, DDp+, PDp, PDp+)
- Sight glass (cast versions only)ss

Features and benefits

- Differential pressure gauge
    - Indicates optimum replacement time and minimizes pressure drop in system
- Internally and externally coated
    - Prevents corrosion and ensures extra-long lifetime
- EWD automatic drain prevents condensate build up in filter
    - Automatically drains collected liquid and can be easily piped away to condensate management system