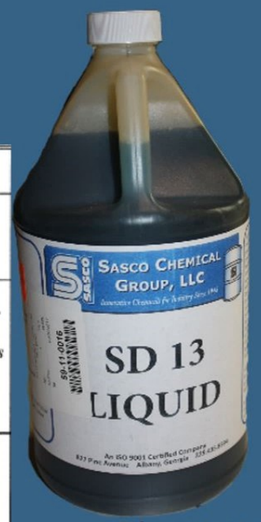
Medical Cylinder Accessories

Clean Air Filter Package provides clean dry air for your cylinder drying package. This takes in your compressor air and filters the air to an ISO8573 Class 1.

Indicator for
Filter element replacement



Product Data Sheet

SD-13 *Detergent for Oxygen Cleaning*

SD-13 is a specially formulated, free-rinsing, low foaming, biodegradable, phosphate free detergent developed for cleaning compressed gas cylinders prior to filling with oxygen. Extensive research and field and laboratory testing has shown SD-13 to effectively remove oils and most other contaminants from inside compressed gas cylinders.

SD-13 was designed to be used in conjunction with an inverter/washer such as the Galiso PCT-122ADW

Directions for use:

Inverted Cylinder Cleaner

1. Inspect cylinder. Remove any loose debris and rust from inside cylinder.
   SD-13 will not remove flaky scale or rust.
2. Dilute 4.25 ounces SD-13 with 1 gallon of water.
3. Solution temperature should be 170°F.
4. Wash cylinder for 4 minutes with the solution.
5. Rinse with clean, 170°F water for 4 minutes.
6. Purge with nitrogen for 45 seconds.

Available in 5 gallon buckets 30 and 55 gallon drums

Sonic Wave Cleaner

1. Dilute 4.5 to 5.5 ounces SD-13 with 1 gallon of water.
   For best results, water should be at least 130°F
2. Place parts and solution in sonic cleaner and operate according to the manufacturer's specifications.
3. Thoroughly rinse all parts well with clean flowing hot water until there is no visible suds or soap residue.
   Rinsing in a tub or bath is not acceptable.
4. Blow all parts dry with air and purge with nitrogen.

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Manufactured exclusively for Galiso, Inc. by SASCO Chemical Group, Inc.
For further safety information concerning this product,
please consult the Material Safety Data Sheet.

Adsorption Elements Features and Benefits Type D

How The Elements Work

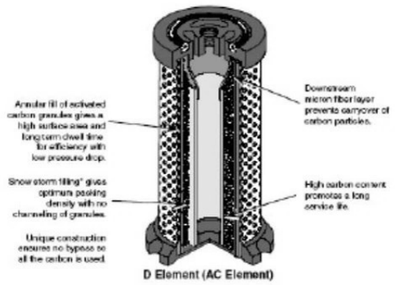
While mechanical filtration employing the Type C element is capable of removing extremely fine liquid or solid particles even as small as 0.01 micron it cannot remove gaseous contaminants such as oil vapor or odors. To do this we must employ the physical phenomena of adsorption. Activated carbon, having an affinity for oil vapor molecules and with an extremely high surface area, created by its capillary structure, is used for this.

Wilkerson activated carbon elements are designed to maximize the adsorption properties of the carbon. This is achieved by first passing the air through carbon granules, "snow storm filled" into either an annular space or tubular section. The granules provide an extremely high surface area to volume and when arranged in a deep bed that increases dwell time gives the benefit of both efficiency and service life. After being passed through the carbon, the air goes through a layer of microfiber to prevent migration of fine carbon particles downstream.

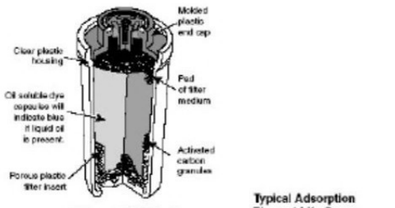
Adsorption elements have a limited life and this is affected by many factors but principally temperature. Obviously, the higher the inlet temperature, the more oil vapor there is present, for example at 104°F (40°C) there is more than ten times the oil vapor than at 70°F (21°C). For this reason, activated carbon filters are best installed at the lowest possible system temperature. The type C filter should always precede a Type D filter.

The typical life of an adsorption element is in the region of 1000-2000 hours at 70°F (21°C). Filtration temperature is based on tests carried out on a Cll chlorocyclene test rig, however, this is best determined in practice by a routine "odor" check.

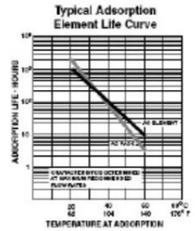
Oil vapor has a distinct odor. The least expensive and very effective way to check for oil vapor getting through the filter is to install a small bleed valve downstream. Periodically crack this valve and smell the air. The human nose is extremely sensitive to oil vapor and at the first hint of this odor, change the element.



D Element (AC Element)



D Element (AC Pack)



Type B Filter Element Specifications

Efficiency
99.97% when tested with 0.3 micron aerosol DOP test Federal Standard 209B. Compatible with mineral and synthetic oils.

Residual Oil
0.5 ppm / wt (inlet temperature / pressure 70°F / 100 PSIG) when analyzed using infra red spectrophotometry based on the Pneurop 6611 procedure.

Air Quality Class *
Conforms to ISO 8573 Class 3 or better

Flow
Inside to outside

Filter Media
Resin impregnated borosilicate glass microfiber

Support Structure
Inner 304 Stainless Steel support cylinder with outer polymeric sleeve.

End Caps
Glass filled polyamide material
Initial Differential
Pressure Dry — 1.8 PSID
Initial Differential
Pressure Wet — 2.8 PSID
Flow range — 5 to 4800 SCFM @ 100 PSIG

Application
Installations as a coalescing prefilter for general purpose protection or as a prefilter to a high efficiency coalescer.

Appearance
White polymeric outer sleeve with black end caps.
* "M" Series Coalescing Filters, with Type "B" 0.5 micron elements: All Wilkerson Type "M" Oil Removal (Coalescing) Filters with Type "B" 0.5 micron elements exceed ISO Class 2 for maximum particle size and concentration of solid contaminants, and exceed Class 3 on maximum oil content (ppm / wt).*

Type C Filter Element Specifications

Efficiency
99.99998% when tesing with 0.3 micron aerosol on dioctyl phylate (DOP) test according to Federal Standard 209B. Compatible with mineral and synthetic oils.

Residual Oil
0.01 ppm / wt (inlet temperature / pressure 70°F / 100 PSIG) when analyzed using infra red spectrophotometry based on the Pneurop 6611 procedure.

Air Quality Class *
Conforms to ISO 8573, better than Class 1

Flow
Inside to outside

Filter Media
Pure borosilicate glass microfiber with a mean strand diameter of 0.5 micron and a solids volume of 99%. Contains no glass or resins.

Support Structure
Inner and outer 304 Stainless Steel support cylinders.

End Caps
Glass filled polyamide material
Initial Differential
Pressure Dry — 1.25 PSID
Initial Differential
Pressure Wet — 2.25 PSID
Flow range — 5 to 4800 SCFM

Application
Install where highest quality air is required; typically instrumentation, process air, pneumatic gauging, paint spraying, etc.
* "M" Series Coalescing Filters, with Type "C" 0.01 micron elements: All Wilkerson Type "M" Oil Removal (Coalescing) Filters with Type "C" 0.01 micron elements exceed ISO Class 1 for maximum particle size and concentration of solid contaminants, and exceed Class 1 on maximum oil content (ppm / wt).*

Type D Filter Element Specifications

Efficiency
Less than 0.003 ppm / wt maximum remaining oil content (inlet temperature / pressure of 70°F / 100 PSIG) when analyzed using infra red spectrophotometry based on the Pneurop 6611 procedure; removal of hydrocarbon vapors and odors.

Air Quality Class *
Conforms to ISO 8573, better than Class 1

Flow
Inside to outside

Filter Media
Snow storm filled activated carbon for optimum packing density and life.

Support Structure
Model M00 - M28: Clear plastic housing with molded plastic end cap. Integral outlet filter.
Model M30 - M55: Inner and outer 304 Stainless Steel support sleeve cylinders

End Caps
Glass filled polyamide material
Initial Differential
Pressure Dry — M00 - M21: 3 PSID
M32 - M55: 1 PSID
Flow range — 5 to 4800 SCFM

Application
Installation after high efficiency coalescer for process air purification, odor removal, removal of trace vapors and for critical applications.
* "M" Series Absorption Filters, with Type "D" activated carbon elements: All Wilkerson Type "M" Absorption Filters with Type "D" activated carbon elements exceed ISO Class 1 on maximum oil content (ppm / wt).*

The PCT-MA is a medical cylinder attachment for our line of PCT-15 and 122 inverter/driers. The PCT-MA processes Medical E, D, and M-6 size cylinders (3.2" to 4.4" diameter, 11.75"to 25.25" tall) and matches the footprint of our GHH-6G-12MT-4 Multi-4 Port Test Head.

4 medical cylinders are processed in the same time it took to process 1 medical cylinder on the PCT-15 and 8 cylinders instead of 2 for the PCT-122. Cylinders can be stamped while clamped in the PCT-MA. The PCT-MA is attached or removed in less than 5 minutes.

**** See VIDEO Below****

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GASES LIQUIDS SOLIDS