

Filters & Strainers



Radco
Strainers

AIRPEL SINGLE FILTERS Model OV

Sizes 3/4" (20 mm) – 8" (200 mm)



Airpel Single Filters have, for many years, proved a cost-effective method of protecting pipeline equipment, cleaning liquids or salvaging valuable solids. The Delta product line continues this tradition and incorporates a number of improved features and available options.

The filter is of cast construction, and is supplied with one high-quality stainless steel cylindrical basket. The filter is for use in liquid handling installations where the flow can be shut off for short periods to allow the basket to be cleaned.

MAIN FEATURES

- ▶ High quality 316 grade stainless steel basket with large filtration areas resulting in low pressure drops.
- ▶ Compact design for space saving.
- ▶ Working pressures up to 300 psi.
- ▶ Quick release filter covers and knobs for easy basket removal.

OPTIONS

- ▶ Range of extras allowing filter to be customized.
- ▶ Available in cast iron, cast steel, bronze or stainless.
- ▶ Differential pressure indicators are available.

AIRPEL DUAL FILTERS Model OW

Sizes 3/4" (20 mm) – 8" (200 mm)



For applications where the requirement is for continuous flow with minimum loss of pressure, the dual filter provides quality of design and performance.

The filter is of cast construction and incorporates two chambers, each containing a high-quality stainless steel basket. Flow is diverted from one basket to the other without being interrupted by simply turning the handle...which rotates dual cylindrical cocks.

MAIN FEATURES

- ▶ Simple changeover operation, requires infrequent maintenance.
- ▶ Compact design.
- ▶ Large filtration areas mean low pressure drops.
- ▶ Quick release filter covers and knobs for easy maintenance.
- ▶ No contamination between filtered and unfiltered liquids.
- ▶ Wide range of materials, sizes and accessories.
- ▶ Filtration down to 10 microns.
- ▶ Handle covers chamber in use—preventing accidental opening of pressurized chamber.
- ▶ Differential pressure indicators shown in photo are optional extras.

AIRPEL ACCESSORIES



A major feature of the Airpel Filter line is the availability of a host of optional extras to enable the filter to be tailored to the customer's precise requirements.

DIFFERENTIAL PRESSURE INDICATOR

As filter baskets become clogged with debris, the pressure drop increases. In order to maintain efficient filtration and line pressure, it is important that baskets are cleaned regularly.

The Airpel Differential Pressure Indicator is designed to monitor basket conditions and provide visual warning that cleaning is required.

Available as an optional extra on all single, dual and self-cleaning filters, the indicator is mounted directly onto the filter body and indicates the differential pressure across each basket.

MAIN FEATURES

- ▶ Easy to read.
- ▶ Compact design.
- ▶ No pipework to become clogged.
- ▶ Positive seal separates clean and dirty liquids.
- ▶ Remote operation via electrical signal available if required.
- ▶ Specifically designed for Airpel Filters.

SPECIFICATIONS

- ▶ Anodized aluminum casing and nitrile diaphragm for water and oil applications.
- ▶ Stainless steel casing, stainless steel internals and viton diaphragm for other liquids.
- ▶ Indicator preset at 10 psi. Other spring ratings available on request.
- ▶ Pointer operated by internal magnet to avoid leakage through seals.

OPTIONAL EXTRAS WITH FILTERS

- ▶ Heating jacket and immersion heaters to aid flow of viscous liquids, etc.
- ▶ 100% shut off on dual filter changeover. This can be achieved by use of a special seal within the changeover cock mechanism, and it eliminates leakage between chambers during cleaning.
- ▶ Fully automatic backflushing. This version of the Dual Filter provides automatic basket cleaning by reversing the flow within the filter using filtered liquid to backflush the baskets.
- ▶ Automatic air eliminators. Designed to vent air from filter, typically after element cleaning.
- ▶ Magnetic inserts. Suspended from the cover, these capture ferrous metal particles present in liquid stream. Magnets can be nylon coated, if required.
- ▶ Mounting studs or brackets. These allow the filter to be independently supported.
- ▶ Pressure equalizing valves (Dual Filter only) These are standard on 6" and 8" sizes, but can be fitted to other sizes on request.

AIRPEL SELF-CLEANING FILTERS (SCF)



Airpel self-cleaning filters have been designed specifically to provide efficient filtration of virtually all liquids, including those of high viscosity, while minimizing both disruption of flow and liquid loss during the element cleaning process. There is no operator contact with the process fluid. The high-quality stainless steel wedge wire (or perforated) element is highly effective in removing contaminant particles as small as 50 microns.

Cleaning is carried out by rotating the element against fixed scraper blades that remove debris from the surface of the element. Dislodged particles/contaminants are then drained from the base of the filter.

This filter is available for either manual or fully automatic electric or pneumatic operation. The variety of optional control devices make it particularly suitable for continuous processes and for service with high contamination levels.

BENEFITS

- ▶ No operator contact with liquid during cleaning operation.
- ▶ Minimized product loss—during both process production and system cleaning.
- ▶ Increased quality output—minimum disruption to product flow.
- ▶ Reduced contamination—less possibility of accidents or operator exposure to the fluid.
- ▶ Reduced maintenance costs—automated units can eliminate manual cleaning.
- ▶ Environmentally friendly—enclosed design with minimal flushing losses.

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