



WINSTON / ROYAL GUARD CORPORATION

Type 61V and 61H Liquid Filters



Type 61V Vertical and **Type 61H Horizontal** Liquid Filters remove solid contaminants from various liquid process streams in refining, chemical, petrochemical, oil and gas, and other industries. Liquid process filtration applications vary widely and a variety of liquid filter cartridges are available including a wide selection of materials, styles, particle size retentions, and efficiency ratings to beta 5000.

Industrial liquid filtration applications include removal of solid particulates from light hydrocarbons, acids, alkalis, process water, glycols, amines, and many other process and finished product liquids. These liquid filters may be used for removing solid contaminants from upstream injection well water to downstream refinery filtration applications.

When heavy solid particulate loading is expected, the Type 61 filter is an excellent choice for installation immediately upstream of a **Liquid-Liquid Coalescer Separator**. The highly efficient type 61 liquid filter should be installed to remove solid particulates which might otherwise lead to fouling of the coalescing cartridges and thus help to maintain peak efficiency of the coalescer separator unit and extend the time between cartridge change-outs.

In the case of the **Type 61V-C Activated Carbon Filter**, the unit should be protected upstream with reliable particulate filtration to prevent solid contamination from entering the carbon bed and congesting the open pores in the carbon particles. It is also important to provide particulate filtration downstream of the carbon filter to remove any carbon fines that may carry over. For both installations the type 61 liquid filter is recommended.

Duplex Liquid Filters: For continuous operation during filter cartridge change-outs when downtime is not an option, a dual configuration is the solution. Featured are two Type 61V Filters mounted on a common base frame and piped with heavy duty valves for switching between the active and idle filtration units. When requested, customer specified valves can typically be furnished with the system.

Options include:

- Support legs or skirt.
- Lifting eye(s).
- Quick-opening closure providing easier access for cartridge change-outs.
- Dual skid-mounted with valves and piping for ease of installation.
- Other customer requirements.

ASME Code Certified: Winston/Royal Guard is an ASME Section VIII, Division 1 Code certified manufacturing facility with National Board certification. Capabilities include all types of non-destructive testing with a rigidly controlled Quality Control system.



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Filter Cartridges are available in a variety of types, styles, and ratings so as to meet stringent application requirements for liquid process filtration. Some examples of filter types are:

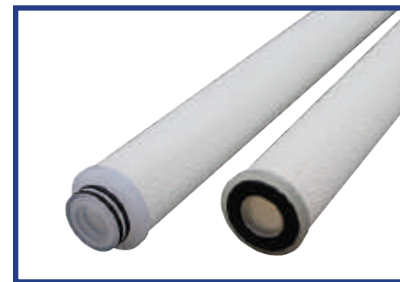
- **WCC series wound fiber depth style cartridges** available with media in cotton, fiberglass, nylon, acrylic/orlon, polyester, polypropylene and Rayon. Particle retention sizes are 0.5, 1, 3, 5, 15, 20, 25, 30, and up to 200 microns.
- **WLP-L pleated series cartridges** provide the maximum surface area for trapping large amounts of contaminants with the added benefit of longer service life between change-outs. For a wide range of chemical compatibilities, these cartridges are available in polypropylene, polyester, and microglass with a selection of end treatment materials and designs. Micron ratings are from 1 to 70 with efficiencies to 99.98% (beta 5000).
- **WLST pleated stainless steel series cartridges with stainless steel wire mesh construction**, are designed to perform in applications outside the range of other filter medias. For removal of solid contaminants in industrial filtration applications with harsh, corrosive and/or high temperature liquids. The pleated design offers the maximum surface area for higher flow rates and longer operation time. Absolute rated efficiencies from 5 to 840 microns.
- **WHFP high flow pleated series cartridges** for vertical and horizontal installations provide maximum surface area for higher liquid flow requirements. These cartridges are typically 6" diameter and feature handles for easy removal, O-rings for positive sealing, and are available in pleated polypropylene, polyester, microglass, and other materials. Particle retention (micron size): 1, 2, 5, 10, 15, 20, 40, or 70.



WCC Series wound fiber filter cartridges



WHFP High Flow Pleated Series filter cartridges



WLP-L Pleated Series filter cartridges

WLST Pleated Stainless Steel Series filter cartridges





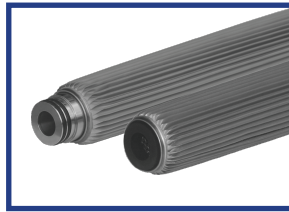
Type 61V Vertical Liquid Filters



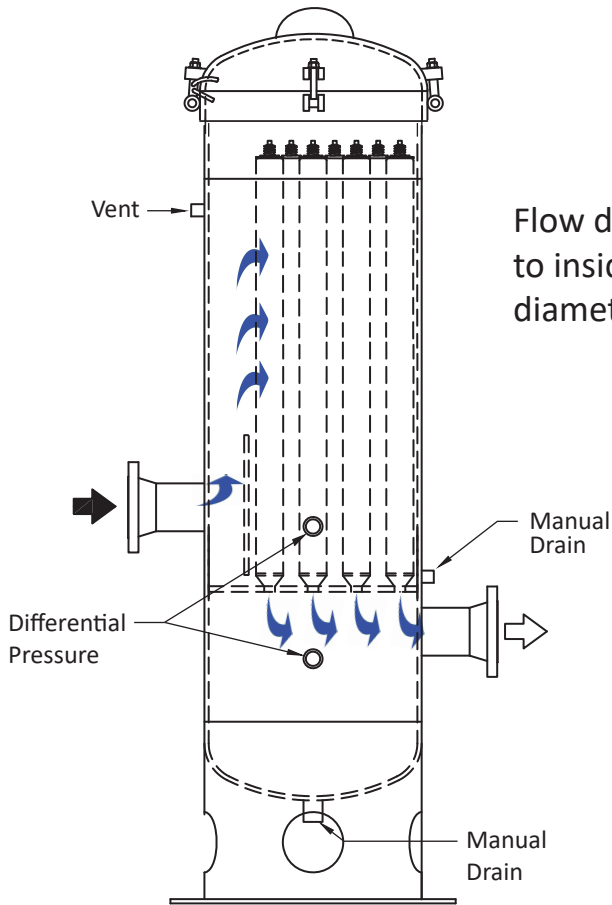
WCC Series wound fiber filter cartridges



WLP-L Pleated Series filter cartridges



WLST Pleated Stainless Steel Series filter cartridges

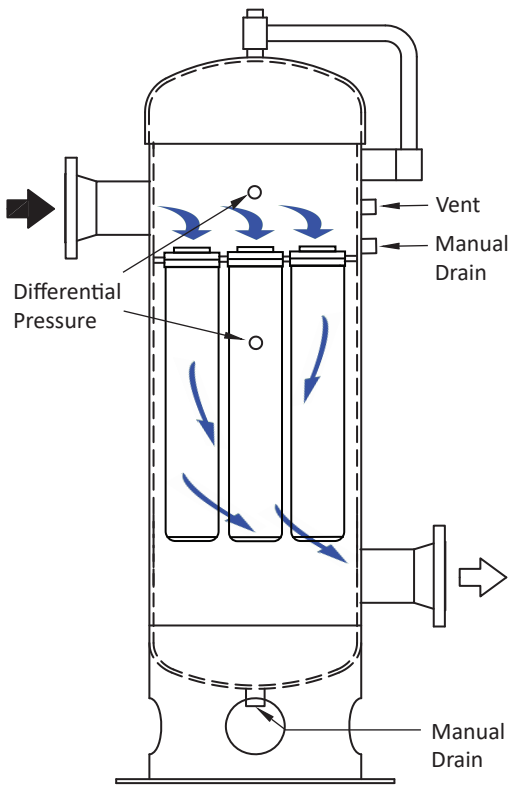


Flow direction is outside to inside through 2-1/2" diameter filter cartridges





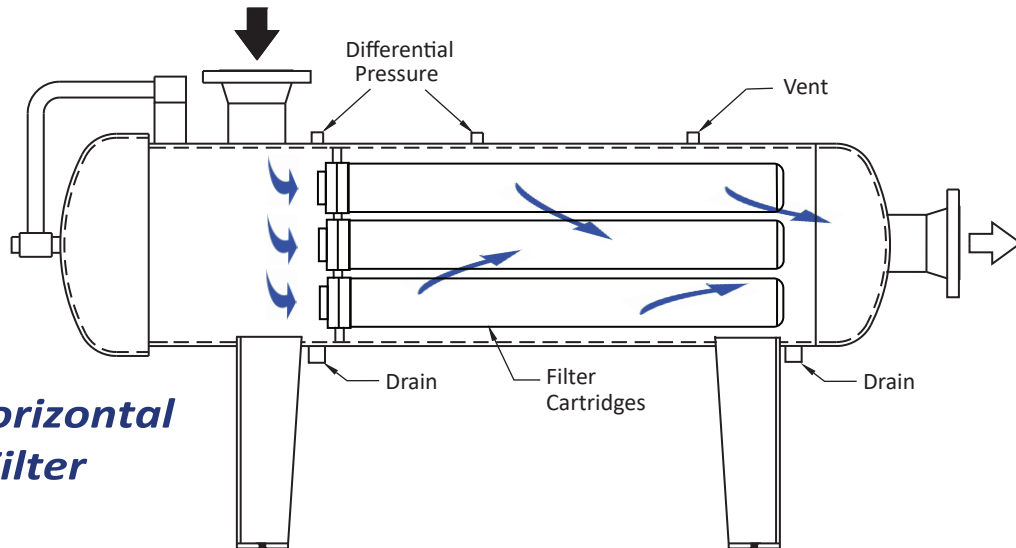
Type 61V and 61H Liquid Filters with High Flow Filter Cartridges



WHFP High Flow Pleated Series filter cartridges

Flow direction is inside to outside through 6" diameter filter cartridges

Type 61V Vertical Liquid Filter



Type 61H Horizontal Liquid Filter

Specifications are subject to change without notice. 1-24-2020 (supersedes 6-20-2019)

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