Graver Technologies

Filtration | Separation | Purification

RTEC™ Series Resin Bonded Filter Cartridges

Rigid Resin Bonded Filters

RTEC Series filters feature an acrylic fiber/phenolic resin construction that produces an extremely rigid pore structure. This construction allows the filter to withstand extremes of viscosity and temperature without compression or collapse. In addition, a true graded density construction allows complete utilization of the filter's depth, with coarse particles captured in the outer zones and finer particles captured nearer the core.

RTEC Series Features - Benefits

- Rigid acrylic fiber/phenolic resin construction prevents unloading even at high differential pressures
- Grooved outer surface increases surface area for longer on-stream life
- Available in a wide range of removal efficiencies from 1 to 100 microns
- Available with optional end configurations for installation in most housings
- No metal or plastic cores for easier disposal
- Broad chemical compatibility

Filter Specifications

Media:	*Acrylic Fiber/Phenolic Resin*
Optional End Caps:	*Polyester*
Multi length bonding agent:	*Polyamide Hot Melt*
Gasket/O-Rings:	*Silicone, EPDM, Buna N, Viton and Teflon encapsulated Viton (o-rings only)*
Micron ratings:	*1, 3, 5, 10, 25, 50, 75, 100*

Dimensions

Nominal lengths:	*9.75, 10, 19.5, 20, 29.25, 30, 39, 40 inches (24.8, 25.4, 49.5, 50.8, 74.3, 76.2, 99.1, 101.6 cm)*
Outside diameter:	*2.45 in (6.22 cm)*
Inside diameter:	*15/16 in (2.38 cm)*

Operating Conditions

Maximum operating temperature:	*252°F (122°C) for 9.75" length in liquids 212°F (100°C) for lengths other than 9.75" in liquids 176°F (80°C) in gas*
Maximum differential pressure:	*70 psid (4.8 bar)*
Recommended changeout differential pressure:	*35psid (2.4 bar)*

Applications

- Paints, Inks
- Sealants
- Adhesives
- Lacquers, Varnishes, Shellacs
- Fuel Oils, Crude Oils, Grease
- Machine Coolants
- Silicones
- Antifreeze
- Plasticizers
- Animal Oils

RTEC Series Nomenclature Information

RTEC	5	-20	N	N
Product Series RTEC Resin Bonded Filter Series	**Retention Rating (microns)** 1 3 5 10 25 50 75 100	**Length (inches)** 9.75 10 19.5 20 29.25 30 39 40	**End Configuration** **P** Double Open End **P2** 226/Flat Single Open End **P3** 222/Flat Single Open End **P7** 226/Fin Single Open End **P8** 222/Fin Single Open End **N** None	**Gasket or O-Ring** **S** Silicone **B** Buna-N **E** EPDM **V** Viton **T** Teflon encap. Viton (O-rings only) **N** None

Example: RTEC 5-20 NN

Flow Rate Nomograph

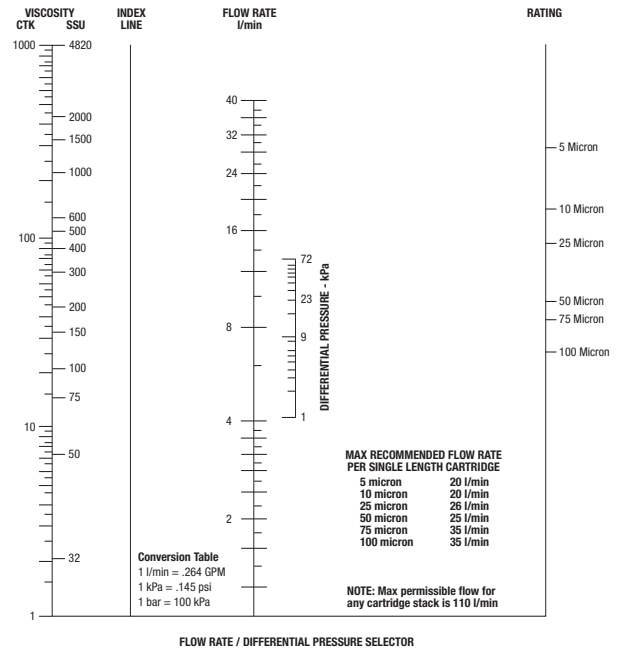
To determine the flow rate and pressure drop for a specific application, first determine your required flow rate per single length cartridge, then refer to the nomograph on the right and proceed as follows:

1. Select the required micron grade from the "RATING" line.
2. Using a straightedge, draw a line from the grade mark, through the desired "DIFFERENTIAL PRESSURE", to the "INDEX" line.
3. Choose the viscosity of the fluid to be filtered on the "VISCOSITY"line.
4. Using a straightedge, draw a line from the viscosity mark, intersecting the mark made previously on the "INDEX" line, to the "FLOW RATE" line. Ensure the resulting flow rate does not exceed that set out in the table on the nomograph.
5. Repeat the exercise at various differential pressures, to achieve an acceptable combination of flow rate and differential pressure to meet your specific requirement.

Note:

For chemical compatibility, flow rates, and temperature requirements please consult the factory or your local Graver distributor.

RTEC SERIES FLOW RATES



For more information

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