

RETINOX

STAINLESS STEEL FILTER ELEMENTS

Filter elements designed for removal of solid particles in liquids and gases, where the process requires the use of wire mesh filter media.

Main characteristics:

- Stainless steel 316L filter media
- No particles release of filter media
- Pleated filtration area with high dirt-holding capacity
- Regenerable filter element: washable and reusable
- Wide range, diameter from 68 mm up to 300 mm



“RETINOX” filter elements are made of Stainless Steel 316L pleated wire cloth supported by a stainless steel internal core.

Filter media incorporates a support wire mesh to obtain higher resistance, to reduce pressure drops, thus resulting in a longer service life.

RETINOX series is recommended downstream of fiber filters and for filtration of:

- Potable and process water
- Medium viscosity fluids and oils
- Chemicals
- Process gas

Filter elements are available in two different versions and in several filtration ratings:

- **K** version: end fittings are sealed to filter media with epoxy resins
- **HT** version: end fittings are sealed to filter media with high temperatures epoxy resin

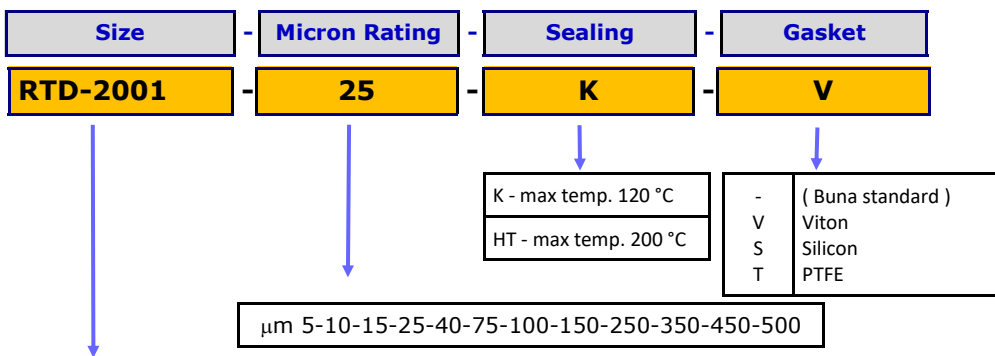
Filtration grade and characteristic

| | |
|---|--|
| Filtration rating | 5µm-10µm-25µm-40µm-75µm-100µm-150µm-250µm 350µm 500µm |
| Design temperature (version “ K”) | -20°C (-4°F) / +120°C (248°F) |
| Design temperature (version “ HT”) | -40°C (-40°F) / +200°C (392°F) |
| Max. differential pressure | 3.0 bar (43.5 psi) |
| Flow direction | Outside / Inside |
| Media arrangement | Pleated |
| Recommended change differential pressure | DP 1.5 bar (21.7 psi) |

Materials

| | |
|-------------------------|--|
| End caps | AISI 304 |
| Internal core | AISI 304 |
| External cage | AISI 304 (only for size 6001-6002-8001-8002-9002) |
| Filter media | AISI 316L |
| Sealing (version "K") | Epoxy resin |
| Sealing (version "HT") | High temperature Epoxy resin |
| Gasket standard | Buna N |
| Gaskets on request | V = Viton / S= Silicon / T= PTFE |

Code information



| Size | Filtering area | Flow rate | | Dimensions | | | |
|-----------------|-----------------|---|---|----------------|----------------|--------------|---|
| | cm ² | Air * m ³ /h ΔP < 0.08 bar | Water ** m ³ /h ΔP 0.1 bar | Out Dia. mm | Int.Dia. mm | Length mm | Filter centering device (Dia.hole mm) |
| RTD-2001 | 1600 | 80 | 3 | 68 | 26 | 250 | - |
| RTD-2002 | 3200 | 105 | 3,5 | 68 | 26 | 500 | - |
| RTD-3001 | 2800 | 350 | 10 | 95 | 52 | 350 | - |
| RTD-3003 | 8400 | 420 | 13 | 95 | 52 | 1010 | - |
| RTD-4001 | 3860 | 600 | 18 | 120 | 80 | 350 | - |
| RTD-4002 | 7728 | 850 | 24 | 120 | 80 | 700 | - |
| RTD-6001 | 11200 | 1500 | 40 | 170 | 110 | 500 | - |
| RTD-6002 | 20400 | 1800 | 52 | 170 | 110 | 915 | - |
| RTD-8001 | 14280 | 3000 | 80 | 210 | 155 | 500 | 16 |
| RTD-8002 | 26000 | 3600 | 100 | 210 | 155 | 915 | 16 |
| RTD-9002 | 35800 | 9000 | 200 | 300 | 250 | 915 | - |

* Flow rate conditions 1.0 barg e 20 °C

** Flow rate of water 20 °C.

Filtration grade <= 10 microns reduce the flow rates of 15%

Please contact our Commercial Department for specific applications.

Data contained in this bulletin are informative and subject to change without notice.

User is responsible for determining whether the product is fit for particular purpose and suitable for User's method of application.

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