Pall Corporation

Hydro-Guard® CoLD R Series Filter Cartridges

Continuous Length, Backflushable, Precoat, Condensate Filter

Hydro-Guard CoLD R filter elements are manufactured using the CoLD Melt™ fiber production process. The CoLD Melt process permits the creation of multiple filtration zones within a single filter cartridge. The reverse graded pore density, multi-zone design provides customers with even precoating, efficient backflushing, and long filter life. Many power plants around the world have switched from string wound technology to Hydro-Guard CoLD R products for improved condensate polishing.

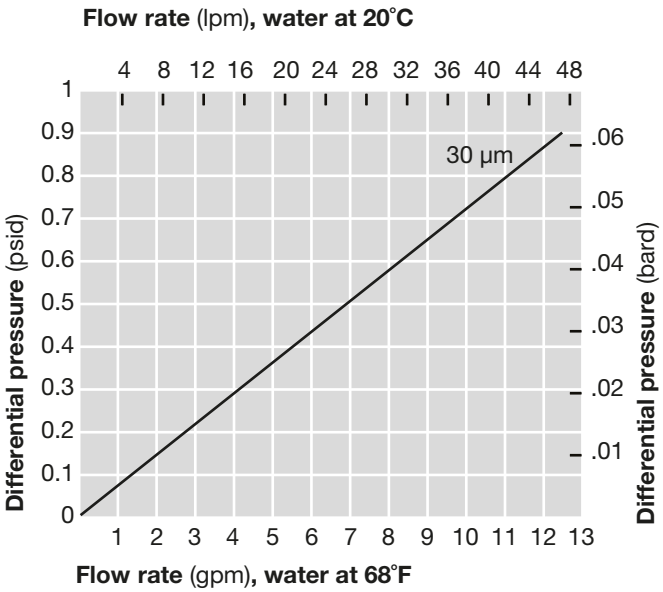
Product Feature	Product Benefit	Customer Benefit
Continuous Length Element	• Uniform resin precoat	• Improved deionization performance • Optimized resin capacity utilization
Co-Located Large Diameter Melt Fibers	• Resists collapse or compression under increasing differential pressure • Rigid pore structure results in more consistent, reliable and reproducible filtration compared to string wound configurations	• Reduced possibility of resin bleedthrough • Stable filtration performance over the life of the element
Reverse Graded Pore Density Structure	• Enhanced surface filtration • High-efficiency backflushing	• Longer element service life reduces number of filter change-outs and filter disposal costs • Minimizes worker exposure in radioactive applications
All Polypropylene Construction	• Reduced extractables - free of adhesives, binders and surfactants • No rinse-up required • Incinerable	• No filtration related chemistry excursions • Reduced start-up costs • Reduced filter disposal costs

Performance Specifications

Maximum operating temperature
65°C (150°F)

Maximum differential pressure
2.07 bard (30 psid) @ 65°C (150°F)

Typical Flow vs. Differential Pressure for Application Sizing[1]



Unit conversion: 1 bar = 14.5 psi

[1] Flow rate is for a 152 cm/60 inch 30 µm cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP).

Product Specifications

Materials of construction

Filter media:	Polypropylene
End caps:	Polypropylene
Sealing:	Thermal bond
Gasket/O-ring material:	Sulfur-free EPDM (standard)

Ordering Information

Pall Part Number = HGCOLDR [1] - [2] - P - [3] - [4] - [5]

Table 1

Code	Filter grades (µm)
5	5
30	30

Table 2

Code	Cartridge lengths cm/in
50	127/50
60	152/60
70	178/70
80	203/80

Table 3

Code	Seal material
E	Sulfur-free EPDM

Table 4

Code	End configurations - bottom
COOP	Fine threaded connection for bottom tube sheet vessels
M8TVO	Extended neck, double O-ring seal for top tube sheet vessels
PAK-F	One turn, easy install/remove connection with double seal integrity for bottom tube sheet vessels
PBQ	Double-open-end filter for bottom tube sheet vessels

Table 5

Code	End configurations - top
H	⅜ HEX - 2.5 inch elongated hex nut and cotter pin for connection with vessel lattice strips
S	⅜ STUD - 1.5 inch threaded stud and either nut or cotter pin for connection with vessel lattice strips
FIN	SPEAR - Bottom retaining devise for top tube sheet filters
DOE	Double-open-end filter for top tube sheet vessels

End configurations - bottom

COOP

M8TVO

PAK - F

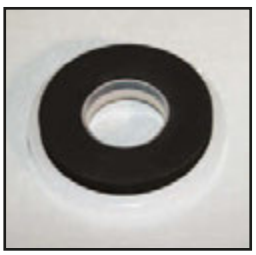
PBQ

End configurations - top

⅜ HEX (H)

⅜ STUD (S)

FIN



DOE

ENABLING A GREENER FUTURE℠

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