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Pall Corporation

Poly-Fine® ARD Series Filter Cartridges

Spiral Wound Absolute Rated Depth Filter Cartridge

- Innovative depth filter cartridge technology •
  All-polypropylene components •
  Absolute rated at >99.9% efficiency with retention ratings from 0.5 to 70 microns •
  Proprietary filter media produced directly by Pall for highly consistent, reproducible performance •
  Cartridge free of surfactants, binders and adhesives •
  Graded pore structure provides pre and final filtration in one cartridge •
  Resists contaminant unloading even at high differential pressures

Performance Specifications

Filter grades[1]
0.5, 1, 3, 5, 10, 20, 40, 70 µm

Maximum differential pressure
1.0 bard @ 82°C (15 psid @ 180°F)
5.2 bard @ 20°C (75 psid @ 68°F)

NOTE: Heavy wall center core option is recommended for applications where the operating temperature exceeds 52°C (125°F).

Recommended change-out differential pressure[2]
2.4 bard (35 psid)

Food and water contact use
Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

Rinse-up
Rinse-up to 18 Megohm-cm with a minimum of throughput.

Purity
Cartridges are free of surfactants, resins, binders, and adhesives.

Chemical compatibility
Poly-Fine ARD Series filter cartridges are compatible with a broad array of fluids. Consult the factory for specific compatibility information.

Sanitizing agents
Cartridge may be sanitized in place with common oxidizing agents. Consult the factory for compatibility information.

Product Specifications

Materials of construction

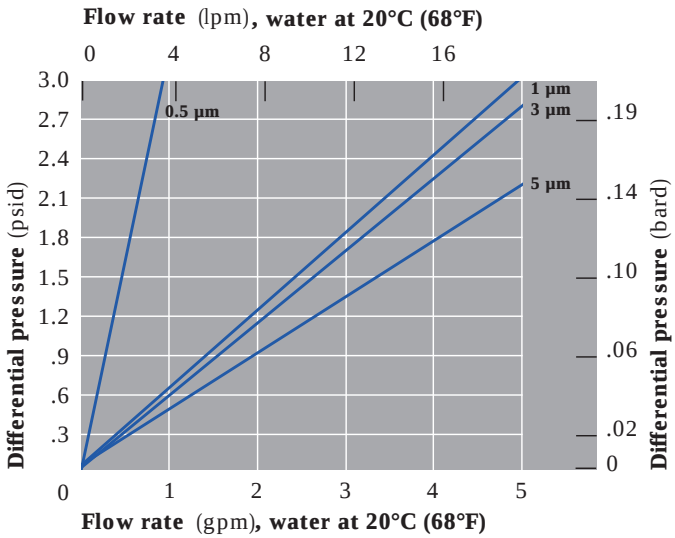
Filter media:	Polypropylene
Hardware:	Polypropylene
Support material:	Polypropylene
Netting:	Polypropylene
Gaskets/O-rings:	Silicone elastomer, EPDM, nitrile, fluorocarbon elastomer, expanded PTFE, FEP encapsulated silicone, white silicone, white nitrile, white neoprene, Santoprene[3] (DOE only), FEP encapsulated fluorocarbon elastomer

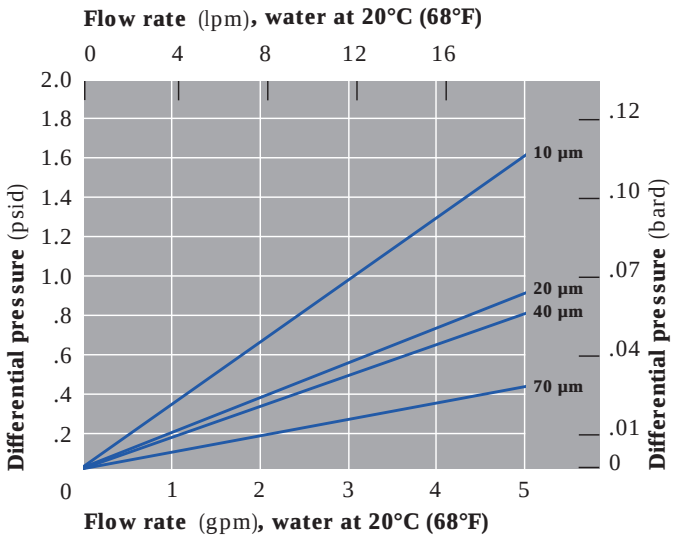
Dimensions (nominal)

Outside diameter:	6.6 cm (2.6 in)
Lengths:	10.2 cm (4 in), 24.8 cm (9.75 in), 25.4 cm (10 in), 49.5 cm (19.5 in), 50.8 cm (20 in), 74.3 cm (29.25 in), 76.2 cm (30 in), 99.1 cm (39 in), 102 cm (40 in)

[1] - *>99.9% retention rating by ASTM F-795 test.*
[2] - *Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.*
[3] - *Registered trademark of Advanced Elastomer Systems.*

Typical Flow vs. Differential Pressure for Application Sizing[3]





Unit conversion: 1 bar = 100 kPa

[3] - Flow rate is for a 25.4 cm (10 in) cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP).

Part Numbers/Ordering Information

ARD ■ – ● ▮ ◆ – ▼ (e.g., ARD 10–10US–M3)

Code ■	Filter Grades
0.5	0.5 µm
1	1 µm
3	3 µm
5	5 µm
10	10 µm
20	20 µm
40	40 µm
70	70 µm

Code ●	Cartridge Lengths cm/in (nominal)
4	10.2 (4)
9.75	24.8 (9.75)
10	25.4 (10)
19.5	49.5 (19.5)
20	50.8 (20)
29.25	74.3 (29.25)
30	76.2 (30)
39	99.1 (39)
40	102 (40)

Code ▮	Center Core
U	Polypropylene (standard)
HW	Heavy wall polypropylene (except 0.5 µm)

Code ◆	Gasket/O-ring Materials[5]
S	Silicone
N	Nitrile
E	EPDM
V	Fluorocarbon elastomer
T	Expanded PTFE (gaskets) FEP encapsulated silicone (O-rings)
M	White silicone
W	White nitrile
Z	White neoprene (gaskets)
F	FEP encapsulated fluorocarbon elastomer (O-rings)

Code ▼	End Configurations
1X	DOE, 2.54 cm (1 in) extended core
M3	SOE flat closed end, external 222 O-rings (retrofits other manufacturers' Code 0)[4]
M3H	SOE large diameter closed end, external 222 O-rings
M4	SOE fin end, external 222 O-rings with locking tabs (silicone and EPDM O-rings only)
M5	DOE, internal 120 O-rings (retrofits 213 O-ring style)[4]
M6	SOE flat closed end, external 226 O-rings (retrofits other manufacturers' Code 6)[4]
M7	SOE fin end, external 226 O-rings (retrofits other manufacturers' Code 7)[4]
M8	SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5)[4]
M10	DOE, internal O-rings (fits other manufacturers' housings)[4]
M11	SOE flat closed end, internal 120 O-ring (retrofits other manufacturers' X style)[4]
M18	SOE flat closed end, external 222 O-ring
M20	SOE with internal O-rings (same as M10), closed end with deep recess
DOE	DOE with elastomer gasket seals and end caps
H21	DOE, Santoprene gasket seal

[4] - For details, contact Pall Corporation.

[5] - Leave blank if ordering H21 end configuration.

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Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.lenntech.com.

Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.lenntech.com to verify that this information remains valid.

Filtration. Separation. Solution.SM

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