

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 grades¹

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)

Recommended change-out differential pressure²

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.

Poly-Fine® ARD Series Filter Cartridges



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, Santoprene³ (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),

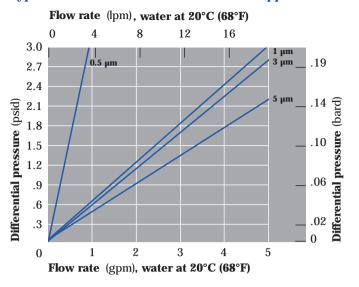
102 cm (40 in)

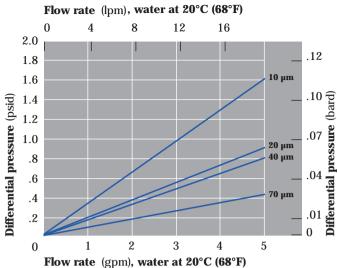
¹ - >99.9% retention rating by ASTM F-795 test.

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 Sizing³





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

Center Core

Code

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)

Polypropylene (standard)
Heavy wall polypropylene (except 0.5 μm)
Gasket/O-ring Materials ⁵
Silicone
Nitrile
EPDM
Fluorocarbon elastomer
Expanded PTFE (gaskets)
FEP encapsulated silicone (O-rings)
White silicone
White nitrile
White neoprene (gaskets)

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
МЗН	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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