



AR SERIES

Absolute Rated Pleated Cartridges
Data Sheet

- Double layer structure, absolute rated.
- Thermal bonded end caps and connectors free of any binders.
- End connections fit most standard housings.
- FDA / USP Material Safety Compliance - All materials comply with FDA requirements for food and beverage contact per CFR Title 21 174.5, 177.1520 and 177.1630. All components meet USP Class VI Plastics.



HYDROSCIENTIFIC™ AR SERIES ABSOLUTE RATED PLEATED CARTRIDGES

are Beta 5000 Absolute Rated Cartridges. Made from 100% pure Polypropylene, HydroScientific AR Series Cartridges comply with USP XXIII and FDA CFR Title 21 for food and beverage applications.

HYDROSCIENTIFIC™ AR SERIES ABSOLUTE RATED PLEATED CARTRIDGES

offer a longer service life and contain no binders, adhesives or surfactant for wide compatibility of fluids. They combine exceptional solids holding capacity with precise micron ratings. Layered double sheets of media provide absolute particle retention and long service life.

HYDROSCIENTIFIC™ AR SERIES ABSOLUTE RATED PLEATED CARTRIDGES

are free of surfactants, detergents and anti-static agents. AR series filter cartridges do not impart any substances into water which are known to or can cause adverse health effects to humans.

AR SERIES - ABSOLUTE RATED PLEATED CARTRIDGES SPECIFICATIONS									
	Part Number	Description	Micron Rating	O-Ring Material	End Cap Style	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kgs)
10"	AR0020S01A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 10"	0.2	SILICONE	222/FLAT	20	15" x 12" x 14"	17	7.71
	AR0020S51A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 10"	0.2	SILICONE	222/FIN	20	15" x 12" x 14"	17	7.71
	AR0020SF1A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 10"	0.2	SILICONE	DOE	20	15" x 12" x 14"	17	7.71
20"	AR0020S02A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 20"	0.2	SILICONE	222/FLAT	20	15" x 12" x 23"	30	13.61
	AR0020S52A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 20"	0.2	SILICONE	222/FIN	20	15" x 12" x 23"	30	13.61
	AR0020SF2A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 20"	0.2	SILICONE	DOE	20	15" x 12" x 23"	30	13.61
30"	AR0020S03A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 30"	0.2	SILICONE	222/FLAT	20	15" x 12" x 35"	43	19.50
	AR0020S53A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 30"	0.2	SILICONE	222/FIN	20	15" x 12" x 35"	43	19.50
	AR0020SF3A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 30"	0.2	SILICONE	DOE	20	15" x 12" x 35"	43	19.50
40"	AR0020S04A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 40"	0.2	SILICONE	222/FLAT	20	15" x 12" x 44"	55	24.95
	AR0020S54A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 40"	0.2	SILICONE	222/FIN	20	15" x 12" x 44"	55	24.95
	AR0020SF4A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 40"	0.2	SILICONE	DOE	20	15" x 12" x 44"	55	24.95

ADDITIONAL FEATURES

Inner Diameter (ID): 1"
Outer Diameter (OD): 2.75"

APPLICATIONS

- RO Pre-filtration
- DI Pre-filtration
- Cooling Tower
- Pharmacist
- Liquids of medium and low viscosity
- Food & Beverages
- Laboratory

MATERIALS OF CONSTRUCTION

Filter Media: Polypropylene
Outer Shell: Polypropylene
Core: Polypropylene
End Cap: Polypropylene
O-Ring: EPDM - (Buna-N, Viton, Silicone and Viton Encapsulado PFA options)

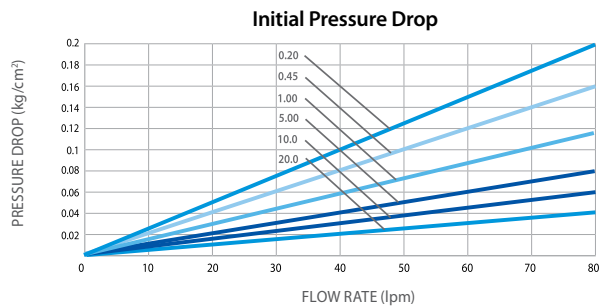
OPERATIONAL DATA

Max. Pressure Drop: 68 °F at 70 psi - 20 °C at 4.9 kg/cm²
140 °F at 40 psi - 60 °C at 2.8 kg/cm²
203 °F at 20 psi - 95 °C at 1.4 kg/cm²

Max. Operating Temperature: 203 °F (95 °C)

RECOMMENDED CHANGEOUT

Differential Pressure: 35.6 psid (2.5 kg/cm²)



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DISPLACES

Millipore: Polyguard - CN
Pall: HDC II Filter
Pall: Ultipleat Profile
Cuno: Poly Flow - G
Cuno: Polypro
Filterite: Poly - Fine II

RETENTION EFFICIENCY (%)

Part Number	0.2 Micron	0.45 Micron	1.0 Micron	5.0 Micron	10.0 Micron	20.0 Micron
AR0020	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9
AR0045	62.3	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9
AR0100	30.2	73.9	> 99.9	> 99.9	> 99.9	> 99.9
AR0500	-	46.8	87.3	> 99.9	> 99.9	> 99.9
AR1000	-	-	53.9	81.5	> 99.9	> 99.9
AR2000	-	-	-	59.3	86.9	> 99.9

MODEL # GUIDE

Absolute Rated Pleated Cartridge O-Ring Material Length

AR 0020 S 01 A

Micron End Cap Pre Flush

LEGEND

Length:	1 = 10"	O-Ring Material:	E = EPDM (Black)	End Cap:	F = Double Open Cap
	2 = 20"		N = Buna-N		0 = 222/Flat (SOE)
	3 = 30"		S = Silicone (Red)		5 = 222/Fin (SOE)
	4 = 40"		V = Viton		6 = 226/Flat (SOE)
			T = Viton Encapsulated PFA		7 = 226/Fin (SOE)
					8 = Spring/Open

Micron: 0020 = 0.2 Micron
0045 = 0.45 Micron
0100 = 1 Micron
0500 = 5 Micron
1000 = 10 Micron
2000 = 20 Micron

Pre-Flush:
B = Pre-flush with DI water
A = Non pre-flush

F

0

5

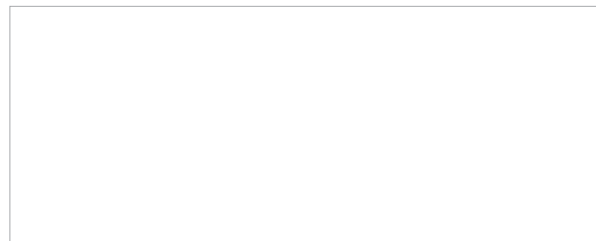
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7

8

End cap, special lengths and diameters available.

DISTRIBUTED BY:



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