Pall Corporation

Profile® Star Filters and DFA Capsules

Description

Profile Star filters are pleated, all polypropylene depth filters ideally suited for the removal of agglomerated particles and gels from slurries used in the chemical mechanical polishing (CMP) of oxide, tungsten and copper.

Features & Benefits

- Deep, wide pleats for long service life in liquids with high levels of suspended solids
- High filter area, combined with continuously profiled pore structure minimizes sheer
- Steep efficiency curves result in minimal strip-out of desirable slurry particles while sharply increasing removal of oversized particles

Specifications

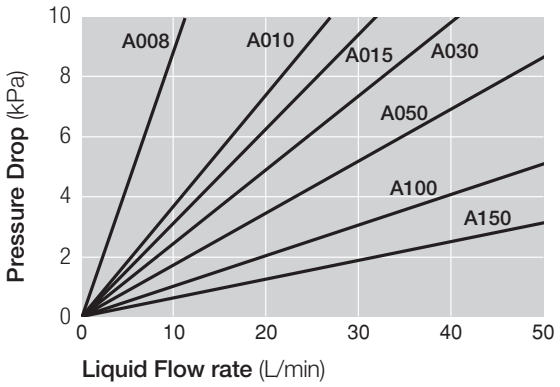
Materials of Construction

Components	Materials
Filter Medium	Polypropylene
Support and drainage	Polypropylene
Core,cage and end caps	Polypropylene
Housing (DFA)	Polypropylene
Gasket options	EPDM, Polypropylene
O-ring options	EPDM, Silicone, Fluoroelastomer

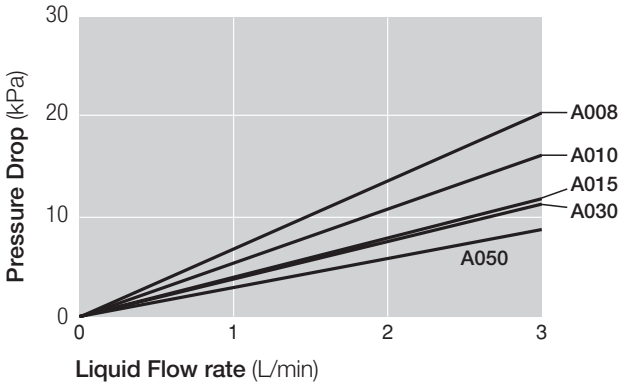
Product Name	10 inch cartridges	DFA capsules
Removal Ratings (µm)	0.8, 1, 1.5, 3, 5, 10, 15	0.8, 1, 1.5, 3, 5
Maximum Operating Temperature	80 ℃ / 176 ℉	38 ℃ / 100 ℉
Maxiimum forward differential pressure	0.50 MPa / 70 psid @ 50 ℃ / 120 ℉ 0.34 MPa / 50 psid @ 80 ℃ / 176 ℉	0.34 MPa / 50 psid @ 80 ℃ / 176 ℉
Maximum Operating Pressure	-	0.49 MPaG / 71 psig @ 38 ℃ / 100 ℉

Pressure Drop vs. Liquid Flow Rate[1] (Water 20 ºC)

Profile Star Filters



Profile Star Capsules



[1] Typical flow rates. For liquids with a viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.

Unit conversion: 1 bar = 0.1 MPa

Part Numbers Ordering Information

Gasket Seal Filters

PUY [1] **A** [2] [3]

Table 1

Code	Cartridge Length (Nominal)
1	254 mm / 10 in
2	508 mm / 20 in
3	762 mm / 30 in

Table 2

Code	Removal Ratings[2] (µm)
008	0.8[3]
010	1[4]
015	1.5
030	3
050	5
100	10
150	15

Table 3

Code	Gasket Materials
J	EPDM (Standard)
Y1	Polypropylene

O-ring Seal Filters

AB [1] **A** [2] [4] [5]

Table 4

Code	O-ring Specifications
3	AS568A-222
7	AS568A-226
25[5]	AS568A-222

Table 5

Code	Gasket Materials
J	EPDM (Standard)
H4	Silicone
H	Fluoroelastomer

[2] Removal ratings at 99.98% efficiency based on a modified OSU-F2 single pass test in aqueous medium.

[3] Removal ratings at 94% efficiency.

[4] Removal ratings at 99.8% efficiency.

[5] Options for 0.8 µm only.

DFA Capsules

DFA [6] **A** [7]

Table 6

Code	Connections		Vent / Drain	
	Tube size	Configurations	Tube size	Configurations
4201	1/4" in	NPT male	1/8" in	NPT male
5301	6 mm	1/4" Swagelok[6]	4 mm	Swagelok

[6] Swagelok is a trademark of Swagelok Co.

Table 7

Code	Removal Ratings[1] (µm)
008	0.8[3]
010	1
015	1.5
030	3
050	5

Representative example part numbers

AB1A00825J
AB2A00825J
AB1A0103J
AB2A0103J
AB1A0153J
AB2A0153J
AB1A0303J
AB2A0303J
AB1A0503J
AB2A0503J
AB1A1003J
AB2A1003J
AB1A2003J
AB2A2003J

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