



PallCell Series Filter Elements

Description

PallCell filters have a pleated high area construction for long service life. They are constructed of pure 100% cellulose medium, having no resin binders, with polypropylene hardware. Since the components are cellulose and FDA listed polypropylene (approved for use in contact with wet foods), PallCell filters are recommended for clarification of such fluids as: deionized water, electronic grade solvents, fine chemicals, pharmaceuticals, liquid sugars, syrups, and cosmetic formulations. PallCell cartridges do not unload or exhibit media migration.

Operating Characteristics

PallCell elements with polypropylene hardware are rated to withstand differential pressures of 5.5 barg (80 psid) up to 50°C (122°F) and 3.1 barg (45 psid) up to 82°C (180°F).

Sizes

PallCell filter cartridges are available in two styles. UNICAP style cartridges are 63.5 mm (2.5 in) O.D., double open-ended 254 mm (10 in), 508 mm (20 in), 762 mm (30 in), or 1016 mm (40 in) long filters. UNICAP cartridges can be installed in standard industrial style housings designed for double open-ended style filter cartridges.



PallCell Filter Element

Sanitary (AB) style cartridges are 69.9 mm (2.75 in) O.D., single open-ended elements with an O-ring piston seal at the open end. AB style cartridges are available in 254 mm (10 in), 508 mm (20 in), 762 mm (30 in), or 1016 mm (40 in) lengths.

Removal Ratings

Cartridge Grade	Liquid Service Microns, (µm)		Aqueous Clean Pressure Drop Per 10 inch Module MBARD/LPM (PSID/GPM) ³
	Nominal ¹ rating 98%	Absolute ² rating 100%	
DC	3	8	1.64 (0.09)
DE	10	14	0.91 (0.05)
DG	30	35	0.55 (0.03)

¹ **Nominal Filtration Rating:**

An arbitrary micrometer value indicated by filter manufacturers. It is based upon removal of some percentage of all particles of a given size or larger, but rarely well defined and consequently not reproducible. Pall ratings reflect a higher than average 98% removal by weight.

² **Absolute Filtration Rating:**

The diameter of the largest hard spherical particle that will pass through a filter under specified test conditions. This is an indication of the largest opening in the filter element.

³ Pressure drop in PSID per GPM water for a single 10 inch module. Multiply this value by the required flow to determine the total aqueous pressure drop. For fluids other than water, multiply by viscosity in centipoise. If this calculated pressure drop is excessive, then divide this value by the number of 10 inch modules required to reduce this pressure drop to an acceptable level.

Part Numbers / Ordering Information

AB 1 2 3 5

PUY 1 2 4

Table 1

Code	Cartridge length mm / in
1	254 / 10
2	508 / 20
3	762 / 30
4	1016 / 40

Table 2

Code	Cartridge grade
DC	DC
DE	DE
DG	DG

Table 3

Code	End fittings	
	O-ring fitting I.D. (in)	O-ring replacement size
3, 8	1.25	-222
7	1.5	-226

Table 4

Code	Gasket option
J	Ethylene propylene (Standard)
H13	Nitrile
H	Fluorocarbon elastomer

Table 5

Code	O-ring option
H4	Silicone (Standard)
H	Fluorocarbon elastomer
J	Ethylene propylene

Housing Information

Housings are available in either polypropylene, carbon steel, or stainless steel and can accommodate 1–152 254 mm (10 in) modules per housing. Contact Pall for further details.



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