Pall Corporation

Ultipleat® PK GS Filter

Description

Ultipleat® PK series of filter cartridges are widely used for high flow rate, aqueous-based applications in the production of thin film transistor liquid crystal displays (TFT LCD). This series has been expanded by the addition of the GS grade to meet the high flow rate needs of G8, G10 and G12 processes. One filter cartridge can typically handle flow rates of 300 LPM, thereby reducing system foot-print and change-out costs.

Features and Benefits

- Ultipleat technology allows for the construction of large filter area cartridges, enabling high liquid flow rates
- Highly asymmetric, hydrophilic, polysulfone filter media provide for very low differential pressures, which result in increased flow rates and extended filter service life
- Excellent filter performance results in lowered operating costs
- Easy filter change-outs reduce equipment down-time

Specifications

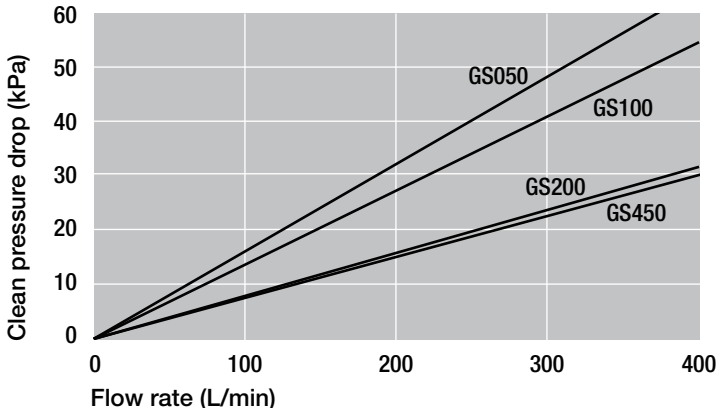
Materials of Construction

Components	Materials
Filter Membrane	Highly asymmetric hydrophilic polysulfone
Medium Support	Polypropylene
Core	Polypropylene
End Caps	Polypropylene
Seals	Ethylene propylene U-Cup FEP encapsulated fluoroelastomer O-ring

Removal Ratings	0.05 µm, 0.1 µm, 0.2 µm, 0.45 µm
Maximum Operating Temperature[1]	80°C / 176°F
Maximum forward differential pressure[1]	0.41 MPa @ 20°C / 60 psi @ 68°F 0.31 MPa @ 80°C / 45 psi @ 176°F
Housings	• Ultipleat PK T-flow polypropylene housing P/N: UPKTUPP-1GU32J • Stainless steel and PVC housings. (For availability of specific options and housing details, please contact your Pall Corporation representative.)

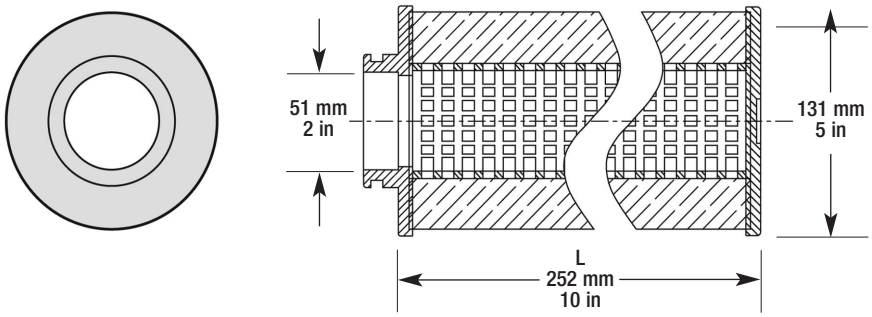
[1] Only for compatible liquids which do not swell, soften or attack any of the filter components.

Pressure Drop vs. Liquid Flow Rate (Water, 20°C)[2]



[2] For Liquids with a viscosity differing from water, multiply the pressure drop by the viscosity in centipoises.

Dimensions (nominal)



Part Numbers / Ordering Information

UPK510GS [1] [2]

Table 1

Code	Removal Ratings
050	0.05 µm
100	0.1 µm
200	0.2 µm
450	0.45 µm

Table 2

Code	Memo
JU	EP U Cup
H1	FEP Encapsulated fluoroelastomer

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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.pall.com to verify that this information remains valid. Products in this document may be covered by one or more of the following patent numbers: EP 667,800; EP 982,061; EP 1,380,331; US 5,543,047; US 5,690,765; US 5,725,784; US 6,113,784; US 7,083,564; US 7,318,800.