Pall Corporation

Quantum P Series Filter Cartridges

Pleated Polypropylene Filter Cartridges

- Melt blown polypropylene filter medium provides efficient particle removal, high contaminant-holding capacity and wide chemical compatibility
- Available in retention ratings of 0.25 to 30 micron (µm)
- Protective netting is color coded for easy identification
- Small diameter fibers provide high flow rates at low pressure drops
- Manufactured under an ISO 9001 quality system

Performance Specifications

Filter grades
0.25, 0.5, 1, 2, 3, 5, 10, 30 µm

Maximum forward differential pressure
4.8 bard (70 psid) @ 20°C (68°F)
2.8 bard (40 psid) @ 65°C (150°F)

Recommended change-out differential pressure[1]
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.

Product Specifications

Materials of construction

Filter media:	Melt blown polypropylene
Support material:	Polypropylene
Hardware:	Polypropylene
Sealing:	Thermal bond
Gaskets/O-rings:	Silicone elastomer (standard), nitrile, hydrocarbon rubber, white silicone, fluorocarbon elastomer, expanded PTFE, FEP encapsulated silicone

Dimensions (nominal)

Outside diameter:	6.4 cm (2.5 in)
Lengths:	24.8 cm (9.75 in), 25.4 cm (10 in), 49.5 cm (19.5 in), 50.8 cm (20 in), 68.6 cm (27 in), 74.3 cm (29.25 in), 76.2 cm (30 in), 100.3 cm (39.5 in), 102 cm (40 in)

Color Code Chart For Quantum P Series Filters

Cartridge Designation	Filter Grade	Netting Color
002	0.25	Yellow
005	0.5	White
010	1	Green
020	2	White with orange swatch
030	3	Orange
050	5	Blue
100	10	Red
300	30	Purple

[1] *Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.*

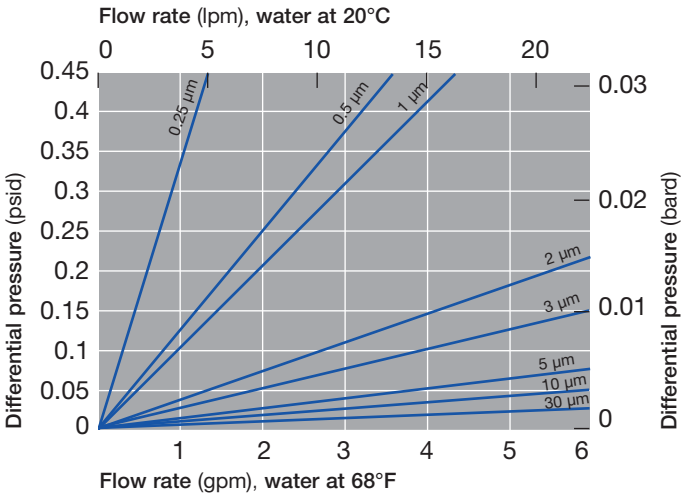
Liquid Retention Ratings (µm) (by ASTM F-795 Test)

Cartridge Designation	90% Efficiency	>99.9% Efficiency
QMPT 002	0.25	1
QMPT 005	0.5	1.2
QMPT 010	1	2.5
QMPT 020	2	5
QMPT 030	3	7
QMPT 050	5	12
QMPT 100	10	15
QMPT 300	30	40

Quantum P Series filter cartridges have been extensively laboratory and field tested to determine removal efficiencies in the most stringent of operating conditions. Removal efficiencies provided are initial efficiencies.

The particle removal data given below was obtained from laboratory tests using dilute aqueous suspensions of AC Fine Test Dust at a flow of 9.5 lpm/25.4 cm (2.5 gpm/10 in) element at a temperature of 20°C (68°F). The removal efficiencies were determined with an electronic particle counter, and the values given represent the minimum efficiencies obtained. The removal rating of any filtration device will be influenced by the nature of the fluid, its viscosity, flow rate, type of contaminant, and temperature. Consult your local representative for more information regarding Pall's test procedures.

Typical Flow vs. Differential Pressure for Application Sizing



Unit conversion: 1 bar = 100 kPa

Flow rate is for a 25.4 cm (10 in) cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP).

Ordering Information

Pall Part Number = QMPT [1] – [2] U [3] – [4] – [5]

Table 1

Code	Filter grades (µm)
002	0.25
005	0.5
010	1
020	2
030	3
050	5
100	10
300	30

Table 2

Code	Cartridge lengths (cm/in) nominal
975	24.8/9.75
100	25.4/10
195	49.5/19.5
200	50.8/20
270	68.6/27
292	74.3/29.25
300	76.2/30
395	100.3/39.5
400	102/40

Table 3

Code	Gasket/O-ring materials
S	Silicone (standard O-rings)
N	Nitrile (standard gaskets)
V	Fluorocarbon elastomer
E	Hydrocarbon rubber
M	White silicone (222 O-rings)
T	FEP encapsulated silicone (O-rings)
T	Expanded PTFE (gaskets)

Table 4

Code	End configurations
Blank	DOE with elastomer gasket seals and end caps
1X	DOE, 2.54 cm (1in) extended core
M2	SOE flat closed end, fits housings with 020 O-ring post
M3	SOE flat closed end, external 222 O-rings (retrofits other manufacturers' Code 0)[2]
M3H	SOE large diameter closed end, external 222 O-rings
M4	SOE fin end, external 222 O-rings with locking tabs
M5	DOE, internal 120 O-rings (retrofits 213 O-ring style)[2]
M6	SOE flat closed end, external 226 O-rings (retrofits other manufacturers' Code 6)[2]
M7	SOE fin end, external 226 O-rings (retrofits other manufacturers' Code 7)[2]
M8	SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5)[2]
M10	DOE, internal O-rings (fits other manufacturers' housings)[2]
M20	SOE, internal O-ring (same as M10), closed end with deep recess

[2] *For details, contact Pall Corporation.*

Table 5

Code	Bubble test option
Blank	No bubble test
B	100% bubble test

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Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/contact.

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.

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.

Filtration. Separation. Solution.SM

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