# PENTEK POLYDEPTH SERIES
## POLYPROPYLENE CARTRIDGES

MULTIPLE MICRON RATINGS FOR A WIDE VARIETY OF APPLICATIONS

**Pentair Pentek§ Polydepth§ Filtration Cartridges are constructed of thermally bonded polypropylene microfibers to ensure high efficiency. The filter incorporates a rigid polypropylene center core for increased collapse strength and durability. This thermal bonded micro-fiber construction has minimal fiber release, consistent flow rate and superior filtration performance. It also is not brittle or prone to breakage problems like resin-bonded cartridges.**

**Unique micro-grooves provide added surface area. The Polydepth Cartridge will not impart taste, odor or color to the liquid being filtered, which makes it ideal for food and beverage applications. The recommended temperature limit of 40-175°F (4.4-79.4°C) allows it to be used in many hot water applications. Additionally, the polypropylene construction provides superior chemical resistance and is not prone to bacterial attack.**

**Available in different lengths from 9.75" up to 40". Unlike competitive cartridges, the longer lengths are not manufactured by gluing shorter cartridges together. They are continuous cartridges that cannot separate during use and do not sacrifice filtering surface area.**

### FEATURES/BENEFITS

Thermally bonded polypropylene micro-fiber construction for higher filtration efficiency

Consistent flow rate and superior filtration performance

Will not impart taste, odor or color to water being filtered

Ideal for a wide variety of industrial filtration

Nominal 1, 5, 10, 25, 50 micron rating

Lengths: 10", 20", 30", 40"

### SPECIFICATIONS

Filter Media – Polypropylene
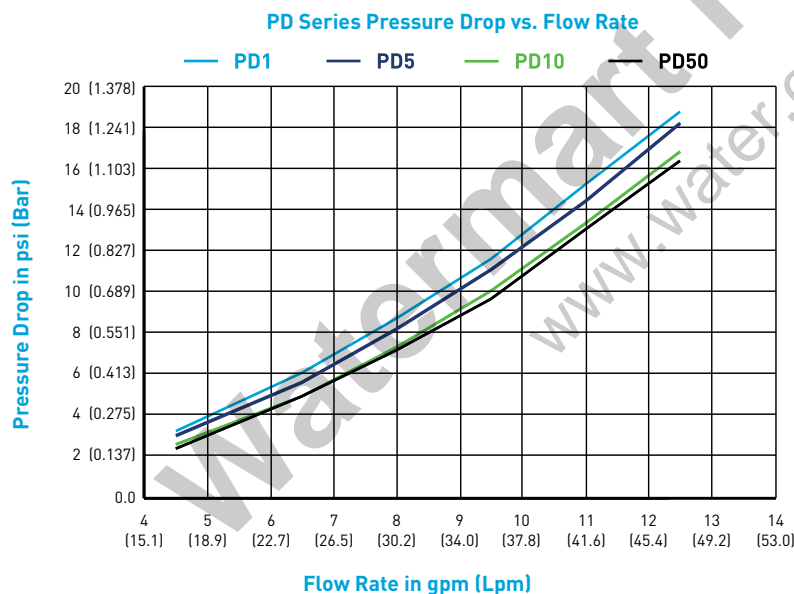
Temperature Rating – 40-175°F  (4.4-79.4°C)

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## SPECIFICATIONS AND PERFORMANCE

| MODEL # | PART # | MAXIMUM DIMENSIONS | RATING* (NOMINAL) | INITIAL ΔP (PSI) @ FLOW RATE (GPM) |
|---------|--------|--------------------|--------------------|--------------------------------------|
| PD-1-934 | 155748-43 | 2.32" x 9.88" (59 mm x 251 mm) | 1 micron | <2 psi @ 2 gpm (<0.14 bar @ 7.6 Lpm) |
| PD-5-934 | 155749-43 | 2.32" x 9.88" (59 mm x 251 mm) | 5 micron | <2 psi @ 2 gpm (<0.14 bar @ 7.6 Lpm) |
| PD-10-934 | 155750-43 | 2.32" x 9.88" (59 mm x 251 mm) | 10 micron | <2 psi @ 2 gpm (<0.14 bar @ 7.6 Lpm) |
| PD-25-934 | 155751-43 | 2.32" x 9.88" (59 mm x 251 mm) | 25 micron | <2 psi @ 2 gpm (<0.14 bar @ 7.6 Lpm) |
| PD-50-934 | 155752-43 | 2.32" x 9.88" (59 mm x 251 mm) | 50 micron | <2 psi @ 2 gpm (<0.14 bar @ 7.6 Lpm) |
| PD-1-20 | 155755-43 | 2.32" x 20" (59 mm x 508 mm) | 1 micron | <2 psi @ 5 gpm (<0.14 bar @ 19 Lpm) |
| PD-5-20 | 155756-43 | 2.32" x 20" (59 mm x 508 mm) | 5 micron | <2 psi @ 5 gpm (<0.14 bar @ 19 Lpm) |
| PD-10-20 | 155757-43 | 2.32" x 20" (59 mm x 508 mm) | 10 micron | <2 psi @ 5 gpm (<0.14 bar @ 19 Lpm) |
| PD-25-20 | 155758-43 | 2.32" x 20" (59 mm x 508 mm) | 25 micron | <2 psi @ 5 gpm (<0.14 bar @ 19 Lpm) |
| PD-50-20 | 155759-43 | 2.32" x 20" (59 mm x 508 mm) | 50 micron | <2 psi @ 5 gpm (<0.14 bar @ 19 Lpm) |
| PD-1-30 | 155762-43 | 2.32" x 30" (59 mm x 762 mm) | 1 micron | <2 psi @ 7 gpm (<0.14 bar @ 26.5 Lpm) |
| PD-5-30 | 155763-43 | 2.32" x 30" (59 mm x 762 mm) | 5 micron | <2 psi @ 7 gpm (<0.14 bar @ 26.5 Lpm) |
| PD-10-30 | 155764-43 | 2.32" x 30" (59 mm x 762 mm) | 10 micron | <2 psi @ 7 gpm (<0.14 bar @ 26.5 Lpm) |
| PD-25-30 | 155765-43 | 2.32" x 30" (59 mm x 762 mm) | 25 micron | <2 psi @ 7 gpm (<0.14 bar @ 26.5 Lpm) |
| PD-1-40 | 155769-43 | 2.32" x 40" (59 mm x 1016 mm) | 1 micron | <2 psi @ 9 gpm (<0.14 bar @ 34 Lpm) |
| PD-5-40 | 155770-43 | 2.32" x 40" (59 mm x 1016 mm) | 5 micron | <2 psi @ 9 gpm (<0.14 bar @ 34 Lpm) |
| PD-25-40 | 155772-43 | 2.32" x 40" (59 mm x 1016 mm) | 25 micron | <2 psi @ 9 gpm (<0.14 bar @ 34 Lpm) |

*Not Performance Tested or Certified by NSF

### PD Series Pressure Drop vs. Flow Rate

— PD1  — PD5  — PD10  — PD50

Pressure Drop in psi (Bar) — vertical axis: 20 (1.378), 18 (1.241), 16 (1.103), 14 (0.965), 12 (0.827), 10 (0.689), 8 (0.551), 6 (0.413), 4 (0.275), 2 (0.137), 0.0

Flow Rate in gpm (Lpm) — horizontal axis: 4 (15.1), 5 (18.9), 6 (22.7), 7 (26.5), 8 (30.2), 9 (34.0), 10 (37.8), 11 (41.6), 12 (45.4), 13 (49.2), 14 (53.0)

Data shown reflects the performance of 10˝ cartridges. 20˝, 30˝ and 40˝ cartridge pressure drops can be estimated by dividing the psi above by 2, 3 and 4 respectively at the same flow rate.

## PENTAIR

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