

## Engineering Specification

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# Series PWPL

## Pleated Filter Cartridges

### Greater surface area for longer life and reduced filtration costs.

Watts Pleated filter cartridges outperform wound, spun, melt blown, resin bonded, and other "depth" type filter elements because of our high surface area.

Lower pressure drop is another significant advantage. Using pleated cartridges allows for increased flow rates and the use of smaller filter housings to reduce capital equipment costs.

Further savings are provided because our 100% synthetic filter media is cleanable, 5 micron and up, to lower cartridge replacement costs. Pleated filter cartridges outperform other pleated elements because our high-performance filter media is systematically produced using 100% synthetic fibers, with no binders or additives to leave a residue, foam or contaminate.

Our filter media is dramatically thicker than other products. For this reason, Pleated cartridges provide "depth" filtration for greater sediment removal, along with more surface area.

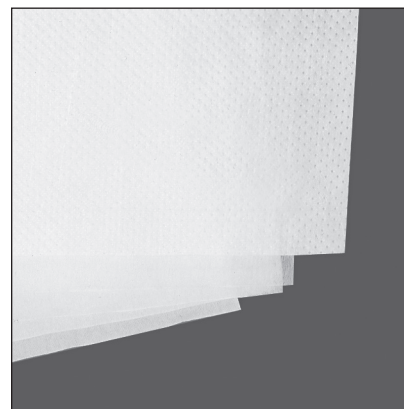
### Features

- Filter media is pleated for greater surface area
- Synthetic filter media is cellulose-free
- "Thicker" filter media has a greater capacity to capture and retain particles, compared to thin, more rigid media types, which have less void space for particle retention
- 0.35 media use a multi-ply laminate for superior performance
- Long lengths have netting to hold pleats in place
- All cartridge types and lengths are wrapped
- Full product line (Large selection of types, lengths & micron ratings)
- Low pressure drop, long life, and reduced filtration costs, compared to wound and spun cartridges
- No additives or binders, which may cause foaming
- Increased dirt holding capacity, longer life, fewer cartridge replacements needed, and reduced filtration costs, compared to other pleated cartridge suppliers
- Increased particle removal efficiency
- Superior performance and appearance

**WATTS®**  
pure water



Pleated Filter Cartridges



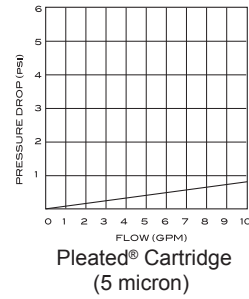
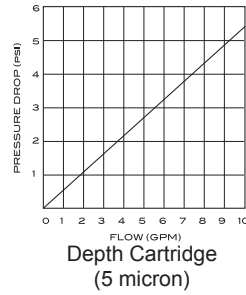
A multi-ply laminate is used with our sub micron grade for longer life and greater solids removal.

### ⚠ WARNING

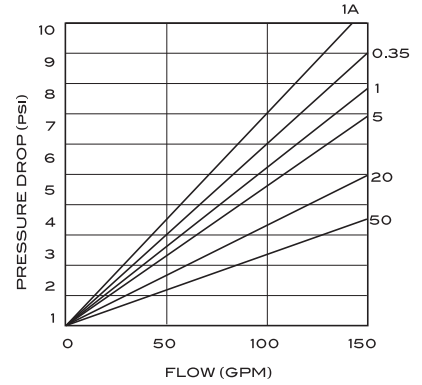
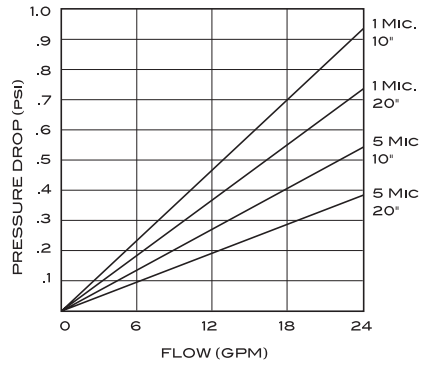
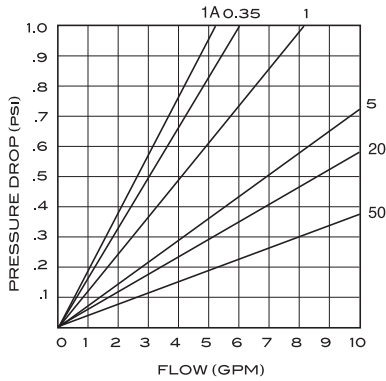
Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

## Lower pressure drop for higher flow rates

These cartridges are pleated, so initial pressure drop is significantly less compared to depth cartridges, such as wound, spun, melt blown and resin bonded. As a result, higher flow rates are possible, reducing filter housing size requirements to lower capital equipment costs.



Use the pressure drop charts shown below to help determine the ideal flow rate for your particular application:



Note: Pressure drop data shown above include filter housing and cartridge.

## Flow rates

Maximum flow rate guidelines for our cartridges are shown below:

Micron Rating	MAXIMUM FLOW RATES PER CARTRIDGE (GPM)							
	9 1/4"	Standard Cartridge			10" Big Blue	20" Big Blue	Jumbo Cartridge	
		20"	29 1/4"			40	90	170
0.35 Micron	4	8	12	9	13	25	50	100
1 Micron	4	8	12	10	15	30	60	120
5 Micron	7	14	21	15	25	50	100	150
20 Micron	8	16	24	15	25	50	100	150
50 Micron	10	20	30	15	25	50	100	150

Note: Filter housing selection should also be considered when flow rate per cartridge is determined.



## Washable & reusable

Our cartridges (5 micron and up) are washable and reusable, to reduce filtration costs. For best results, direct spray into pleats to dislodge sediment. Or, let dry and brush off filter cake from surface of the media.

All cartridges are individually shrink wrapped for purity

# Pleated Filter Cartridges

Greater surface area for longer life and reduced filtration costs.



PWPL10

## Standard 2¾" OD x 9¾" Length

MODEL NO.	MEDIA TYPE	MICRON RATING	NUMBER PER CASE
PWPL10M.35	Synthetic	0.35	12
PWPL10M1	Synthetic	1	12
PWPL10M5	Synthetic	5	12
PWPL10M20	Synthetic	20	12
PWPL10M50	Synthetic	50	12
PWPL10M100	Synthetic	100	12



PWPL195

## Standard 2¾" OD x 19½" Length

MODEL NO.	MEDIA TYPE	MICRON RATING	NUMBER PER CASE
PWPL195M1	Synthetic	1	24
PWPL195M5	Synthetic	5	24
PWPL195M20	Synthetic	20	24

## Standard 2¾" OD x 20" Length

MODEL NO.	MEDIA TYPE	MICRON RATING	NUMBER PER CASE
PWPL20M.35	Synthetic	0.35	6
PWPL20M1	Synthetic	1	6
PWPL20M5	Synthetic	5	6
PWPL20M20	Synthetic	20	6
PWPL20M50	Synthetic	50	6

## Standard 2¾" OD x 40" Length

MODEL NO.	MEDIA TYPE	MICRON RATING	NUMBER PER CASE
PWPL40M1	Synthetic	1	24
PWPL40M5	Synthetic	5	24
PWPL40M20	Synthetic	20	24
PWPL40M50	Synthetic	50	24



PWPL40

## Specifications

Filter media	Synthetic (100% cellulose-free)
End caps	Plastisol (PVC)
Center tubes	Polypropylene
Temperature range	40°F - 140°F (4.4°C - 60°C)
Maximum Pressure	40 PSID
Recommended change out	20 - 30 PSID
Flow rate per 10" cartridge	3-10 GPM, depending on micron rating

# Pleated Filter Cartridges

Greater surface area for longer life and reduced filtration costs.



**PWPL10FF**

## Full Flow (FF) 4½" OD x 9¾" Length

MODEL NO.	LENGTH	MEDIA TYPE	MICRON RATING	NUMBER PER CASE
PWPL10FFM.35	9¾"	Synthetic	0.35	4
PWPL10FFM1	9¾"	Synthetic	1	4
PWPL10FFM5	9¾"	Synthetic	5	4
PWPL10FFM20	9¾"	Synthetic	20	4
PWPL10FFM50	9¾"	Synthetic	50	4

Note: Cartridges listed above fit in Full-Flow and Big-Blue® filter housings.



**PWPL20FF**

## Full Flow (FF) 4½" OD x 20" Length

MODEL NO.	LENGTH	MEDIA TYPE	MICRON RATING	NUMBER PER CASE
PWPL20FFM.35	20"	Synthetic	0.35	4
PWPL20FFM1	20"	Synthetic	1	4
PWPL20FFM5	20"	Synthetic	5	4
PWPL20FFM20	20"	Synthetic	20	4
PWPL20FFM50	20"	Synthetic	50	4

Note: Cartridges listed above fit in Full-Flow and Big-Blue® filter housings.

## Specifications (synthetic media for sediment)

Maximum temperature	140°F (60°C)	Center tubes	PVC
Minimum temperature	40°F (4.4°C)	End caps	Molded Urethane
Maximum pressure	40 PSID	Maximum flow rate, model 40	50 GPM (12m3HR)
Recommended change out	25-30 PSID	Maximum flow rate, model 90	100 GPM (24m3HR)
Filter media	PE & PP	Maximum flow rate, model 170	150 GPM (36m3HR)



## Highly efficient, multi ply filter media

A multi-ply laminate is used with our sub micron 0.35 grad for longer life and greater solids removal.

# Jumbo Filter Cartridges

For S.S. (stainless steel) series Jumbo Filter Cartridge Housings with cellulose-free synthetic and mesh media in a wide range of micron ratings.



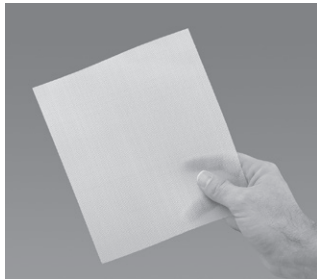
PWJPL40



PWJPL90



PWJPL170



PP Mesh Media

## PWJPL40

FILTER HOUSING MODEL NO.	MICRON RATING	MODEL NO. WITH SYNTHETIC MEDIA	NUMBER PER CASE
40	0.35	PWJPL40M.35	1
	1	PWJPL40M1	1
	5	PWJPL40M5	1
	20	PWJPL40M20	1
	50	PWJPL40M50	1
	100	PWJPL40M100	1

## PWJPL90

FILTER HOUSING MODEL NO.	MICRON RATING	MODEL NO. WITH SYNTHETIC MEDIA	NUMBER PER CASE
90	0.35	PWJPL90M.35	1
	1	PWJPL90M1	1
	5	PWJPL90M5	1
	20	PWJPL90M20	1
	50	PWJPL90M50	1
	100	PWJPLM90M100	1

## PWJPL170

FILTER HOUSING MODEL NO.	MICRON RATING	MODEL NO. WITH SYNTHETIC MEDIA	NUMBER PER CASE
170	0.35	PWJPL170M.35	1
	1	PWJPL170M1	1
	5	PWJPL170M5	1
	20	PWJPL170M20	1
	50	PWJPL170M50	1
	100	PWJPLM170M100	1

### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.



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