

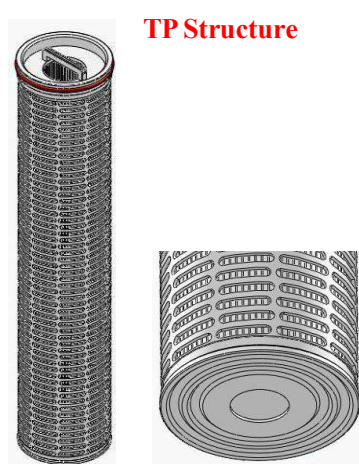
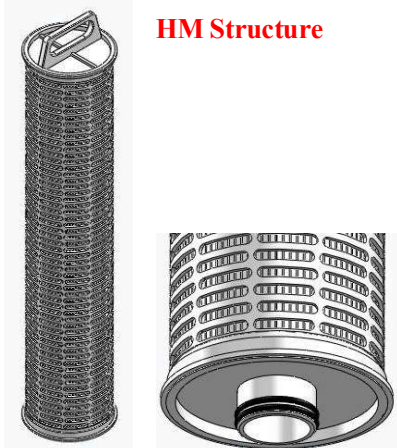
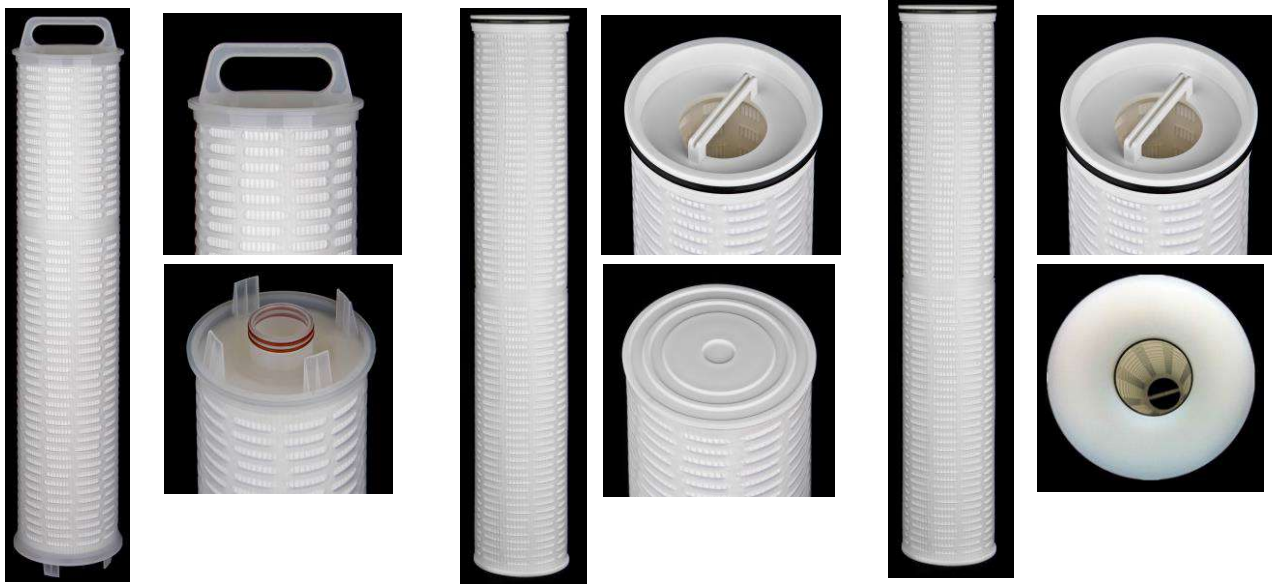
## 600 Series CPPL High Flow Pleated Cartridge

600 series CPPL is part of a product family, which is designed for the industrial filtration market.

The main features of the 600 series products are the large filter area and the practical engineering characteristics. The diameter of the cartridge is 6"(152 mm), and its maximum length is 80" (2032mm). The largest handling capacity of a single element can be up to 1800 LPM (475GPM). The standardization of cartridges of large diameter reduce the workload maintenance and the cost of equipment investment.

CPPL600 is a high flow pleated filter which using 100% polypropylene material. Designed using MP filter material, which can insure the parallel engineer flow with the the common material, and replace it. The removal efficiency of Absolute Rated CPPL600 can be up to 98%. In addition to the requirements of high purity water treatment, CPPL600 is especially suitable for fine chemicals.

The pioneering product of CPPL600 provides a typical engineering configuration. We provide two kinds of typical engineering configuration for CPPL600. HM structure, from outside to inside, maintains the classic design, which has strong commonality and more conveniences to operate. TP structure, from inside to outside, makes the impurities trapped inside the cartridge, which prevent impurities from contaminating downstream piping and equipment. HTP structure, from inside to outside, has two open ends, which can exchange with universal cartridge. The bottom of CPPL600 with HTP structure and metab of metal filter can form three lines of defense, which can effectively prevent side leakage.



# 600 Series CPPL High Flow Pleated Cartridge

## Application

- Water treatment process  
Reverse osmosis system, The central water treatment systems, Process water, Municipal water, Desalination, Wastewater recycling process.
- Thermal power plant  
Boiler condensate, Circulating cooling water of nuclear power plant, CHP water system, Fuel for power generation.
- Machining industry and Equipment industry  
Electroplating, Painting, Pulp and paper, Automotive engine manufacturing, Metallurgy process water.
- Fuels and chemicals  
Chemicals, Fine processing, Amine systems, Petrochemicals, Polymers, Oil recycling, Sea water reinjection, Film processing, Fiber and resin, High-performance plastics.

## Feature

- Polypropylene of 100% is strong and high resistance to a wide range of chemicals.
- Large filter area provides large filtering flow.
- The filter material is absolute filtration precision, and the removal efficiency can be 98%.
- Using proprietary materials of high flux, on the basis of guaranteeing the high removal efficiency, the flow of CPPL600 is 15% higher than the flow of the same size of ordinary cartridge.
- Offers a variety of standard sealing ring structure and material, the main material of the standard O-ring is: nitrile rubber (BUNA), EPDM, VITON etc, Which can meet a wide range of chemical adaptability.
- Single equipment has higher flow.
- The pipe size of CPPL600 meet the world universal standard, CPPL600 can exchange with universal cartridge.
- Comparing with the equipment of the same flow, the filter of CPPL600 covers smaller area and saves installation space.
- It's easy to replace the filter element, comparing with the traditional small cartridge, the time of replacing cartridge reduces by more than 70%.
- More suitable for high flow filtration applications.
- Provide the length of 20", 30", 40", 60", 70"and 80", to meet different engineering applications.

# 600 Series CPPL High Flow Pleated Cartridge

## Specifications

### Structural materials

- Filter material: polypropylene
- Skeleton / Diversion part: polypropylene
- "O"-ring: a variety of materials
- Sealing method: heat friction welding

### Size

- Diameter: 6"(152mm)
- Length: 20"/30"/40"/60"/70"/80"
- Superficial area: (60" length) 5.7m<sup>2</sup>

## Characteristic Parameter

Absolute precision  $\beta$  value 100\*:-----1/3/5/10/20/50/75/

100 Refer to operating instructions:

Forward maximum operating pressure @ temperature  
-----30PSI(2.1Bar)@20°C

Maximum Temperature: 80°C in Transitory

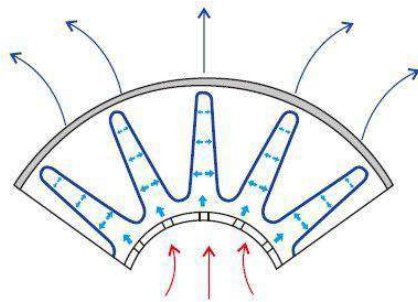
Suggest Operation Temperature:  $\leq 60^\circ\text{C}$

Reverse cleaning is not recommended

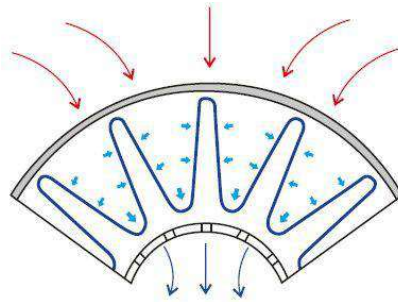
\*Absolutely rejection requires the  $\beta(x)$  of membrane  $> 1,00$ .

When the particles restricted go through a membrane,  $\beta(x)$  value is decided by the number of trapped particles and the particles of passing the membrane.

For example:  $\beta(1) = 1,00$  means, there is one hundred particles of 1  $\mu\text{m}$  into the entrance, the detection at export must be at most one particle.

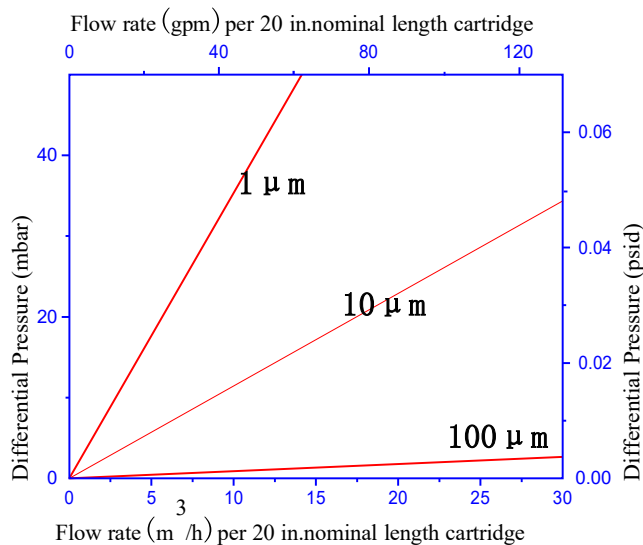


The Flow Direction of TP Structure



The Flow Direction of HM Structure

## Flow Diagram



Flow diagram of 20" CPPL600

# 600 Series CPPL High Flow Pleated Cartridge

## Typical Differential Pressure Data of CPPL600

Code Grade	Micron	20 inch		40 inch		60 inch		80 inch	
		psid/100gpm	mbar /1 m <sup>3</sup> /hr	psid/100gpm	mbar/1m <sup>3</sup> /hr	psid/ 100gpm	mbar/1m <sup>3</sup> /hr	psid /100gpm	mbar/1 m <sup>3</sup> /hr
A00A	0.1μm	3.514	10.668	1.7388	5.292	1.1648	3.556	0.2632	0.8708
A00B	0.22μm	2.8865	8.763	1.4283	4.347	0.9568	2.921	0.2162	0.7153
A00C	0.45μm	1.506	4.572	0.7452	2.268	0.4992	1.524	0.1128	0.3732
A001	1μm	1.255	3.81	0.621	1.89	0.416	1.27	0.094	0.311
A003	3μm	0.538	1.63	0.266	0.80	0.178	0.54	0.041	0.133
A005	5μm	0.454	1.38	0.225	0.68	0.151	0.46	0.035	0.113
A010	10μm	0.378	1.14	0.187	0.57	0.125	0.39	0.029	0.094
A020	20μm	0.279	0.85	0.138	0.41	0.092	0.28	0.021	0.069
A050	50μm	0.200	0.61	0.099	0.30	0.066	0.20	0.015	0.050
A075	75μm	0.046	0.14	0.023	0.07	0.015	0.05	0.004	0.012
A100	100μm	0.030	0.09	0.014	0.04	0.010	0.03	0.002	0.008

Note:

- About the test of precision and removal efficiency, It's unavailable to use ISO for the coarse filter of larger than 1 micron, instead of using the standard test of the spherical particles of impurities.
- The data in this table is using the standard of ISO4572, and revised depending on different accuracy.
- The above data is multiplied by the actual flow, you can calculate the differential pressure of element. When used in non-aqueous medium, the real differential pressure is multiplied by viscosity as the unit of cp. Please note that these calculated differential pressure value is only the differential pressure between both ends of the elements, when calculating the differential pressure of filter, you need to add the differential pressure producing by itself.

## Order Information

**CPPL600**

**20**

**-A001**

**-HTP**

**-S**

CPPL600-

**Length**

**A-Absolute**

**Sealing construction**

**Gasket**

High

20-20"

**Precision**

HM1-From outside to inside,

**Material**

precision large

30-30"

00A-0.1μm

The size of outlet: DIN50

B-Buna

flow PP

40-40"

00B-0.22μm

HM2-From outside to inside,

V-Viton

pleated

60-60"

00C-0.45μm

The size of outlet: DIN80

E-EPDM

cartridge

70-70"

001-1μm

TP1-From inside to outside,

S-Silicon

80-80"

005-5μm

"U"-type cross-section

010-10μm

TP2-From inside to outside,

020-20μm

"O"-type cross-section

050-50μm

075-75μm

HTP-From inside to outside,

100-100μm

two opened ends