

## Cartridge Filters

### Nowata PC & PCP Series Pleated Trapper

Pleated Polypropylene or Cellulose Elements  
Chemically Compatible with a Wide Range of Fluids

#### 1. Introduction

The PC and PCP series Trapper cartridges, named for their superior dirt trapping ability, are pleated filter elements designed for use with a variety of fluids. Cartridges are available in either a cellulose (PC series) or Polypropylene (PCP series) material. Each configuration has specific advantages matched to the particular filtration use.

The high quality cellulose media of the PC series elements provide a rugged design for dependable, low-cost filtration.

The polypropylene media is best suited for applications where higher removal efficiencies are needed, along with enhanced chemical compatibility. The PCP series cartridges are made of high strength polypropylene and ideally suited for fine filtration of water, brines and numerous chemicals.

These cartridges elements are available in several lengths, micron ratings and end styles.



## 2. Construction Features

### PC Series Cellulose Cartridges

The economical PC series cellulose cartridges are designed for rugged use and dependable filtration. They are available in several ratings of particle removal efficiencies; 1, 2, 5, 10, and 30 microns.

The media material is a high quality cellulose fiber. Phenolic resin locks the fibers into the rigid yet porous configuration. The pleated construction of the cartridge maximizes the surface area, increasing the dirt holding capacity and the life of the cartridge.

The economical PC series pleated cellulose Trapper cartridge is the media of choice in a vast majority of filtration applications.

Typical applications for this cartridge include:

- Lubricating Oil
- Cutting Fluid
- Solvents
- Distillate Fuels
- Organic solvents
- Fuel Oil
- Low Pressure Hydraulics
- Refrigerant Oils

### PCP Series Polypropylene Cartridges

PCP pleated cartridges are available in 0.5, 1, 5, 10, 20 and 25 micron ratings. They provide the highest removal efficiencies and the greatest range of chemical compatibility. The microfibrinous polypropylene material is fashioned into a multi-layer, pleated configuration to provide consistent filtration over the entire life of this durable cartridge.

Because of its broad range of chemical compatibility, the PCP series polypropylene media is ideally suited for many filtration applications. It is a stable, strong and extremely efficient media for use in the fine filtration of water, brines and many chemical applications.

Other typical applications include:

- Mild acids
- Electroplating
- Film processing
- Completion fluids
- R.O. Pre-filtration
- Process water
- Fine chemicals
- Workover fluids

## 3. Specifications

The Nowata Pleated Trapper cartridges are available in 9-3/4", 10", 29-1/4", 30" and 40" standard lengths. Other lengths may be available upon request. The media is fused to polypropylene end caps, anchored to the rigid center core, and then protected by a color coded outer layer of plastic mesh. They are designed to operate at temperatures up to 150 °F (66 °C) and differential pressures up to 75 psi (5.3kgm/cm<sup>2</sup>). Cartridge replacement is suggested at a 35 psi (2.46kgm/cm<sup>2</sup>) differential pressure.

These cartridges are available in two different end styles, each providing specific benefits unique to that individual design. Both the cellulose and polypropylene media are available with either DOE style ends or SOE style ends. No matter what the cartridge configuration, the particle removal efficiency of the media remains constant.

### Double Open End

The Double Open End (DOE) cartridge has a 2-5/8 inch outside diameter and a 1-1/16 inch inside diameter with a flat melt blown polypropylene gasket on each end. This unit is the standard configuration and provides very economical performance.

### Single Open End

The Single Open End (SOE) cartridge also has a 2-5/8 inch outside diameter. It also features an external 222 o-ring adapter on one end, with the other end closed. The o-ring design allows quick cartridge change-out and the most reliable seal. Standard gasket material is Buna, with other materials available upon request.

## 4. Ordering Information

### Pleated Trapper Model Number - Example: 3PCP10-OP

| 3                | PCP                                 | 10                      | -OP   |
|------------------|-------------------------------------|-------------------------|---|
| Cartridge Length | Pleated Filter Media                | Micron Rating           | Configuration   |
| 1 = 9-3/4"       | PC = Cellulose with Phenolic binder | 0.5                     | Blank = DOE with Polypropylene flat gaskets<br><br>-OP = SOE, one end closed Buna external 222 o-ring mount |
| 1E = 10" *       |                                     | 1                       |   |
| 2 = 19-1/2" *    | 2                                   |                         |   |
| 2E = 20" *       | 5                                   |                         |   |
| 3 = 29-1/4"      | PCP = Polypropylene (no binder)     | 10                      |   |
| 3E = 30" *       |                                     | 25                      |   |
| 4 = 40"          |                                     | 30                      |   |
|                  |                                     | other microns available |   |

\* Special order cartridges (not a stock item)

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