

Sartofine PP

Particle & Bioburden Reduction Filter Cartridges



Description

Sartofine PP, un-pleated, depth filters feature 4 to 7 filter zones, each 14 mm in thickness. Each zone, made up of polypropylene filter layers is a homogeneous depth filter itself. The nominal retention rating of these successive zones becomes increasingly finer in the direction of filtration. Therefore Sartofine PP filters are ideally suited for all applications requiring exceptional high dirt holding capacity and provide an added benefit of high total throughput.

Applications

Whether in the bio-pharmaceutical or chemical industry, Sartofine PP filter cartridges are used wherever liquids with a wide range of particle sizes need to be prefiltered or clarified. A range of 7 different retention ratings (0.5 µm to 40 µm), depending on the size of the particles to be removed, allows you to select the filter type which best suits your particular application.

Efficiency

Particle removal by fractionated depth filtration ensures optimal use of the entire multi-layer which results in a long service life of the filter. The filtration efficiency is enhanced by the filter cake that can be built up within the depths of each filter zone, retaining colloids in the finer filter zones.

Mechanical Stability

Sartofine PP filter cartridges have been designed for daily routine use. Our special production method of wrapping the filter layers tightly around the supportive core of the cartridge provides high mechanical stability and eliminates the common problem of breakthrough. The thermally bonded exterior layer and our special welding technique for joining filter layers and end caps impart structural integrity in all Sartofine PP filter cartridges - allowing for easy back flush of the filters during cleaning.

Documentation

Sartofine PP cartridges are designed, developed and manufactured in accordance with a ISO 9001 certified Quality Management System. A Validation Guide is available for compliance with regulatory requirements.

Specifications

Materials

| | |
|------------------|-----------------------------------|
| Filter Material: | Multiple Polypropylene layers |
| Support Fleece: | Polypropylene |
| Core: | Polypropylene |
| End caps: | Polypropylene |
| O-Rings: | Silicone (optional EPDM or Viton) |

Retention Rates

0.5 µm, 0.7 µm, 1 µm, 3 µm, 5 µm, 10 µm, 15 µm, 20 µm, 40 µm

Available Sizes | Filtration Area

Cartridges

| | | |
|--------|-----|--|
| Size 1 | 10" | 0.05m ² 0.5 ft ² |
| Size 2 | 20" | 0.1m ² 1 ft ² |
| Size 3 | 30" | 0.15m ² 1.5 ft ² |

Available Adapters Cartridges

00, 03, 05, 07, 08

Operating Parameters

| | |
|---------------------------------------|-------------------------|
| Max. Allowable Differential Pressure: | 5 bar 75 psi at 20 °C |
| | 2 bar 29 psi at 80 °C |
| Max. Allowable Back Pressure: | 2 bar 29 psi at 20 °C |

Depth Filter Cartridges

Specifications

Extractables

Sartofine PP cartridges meet, or exceed the requirements for WFI quality standards set by the current USP.

Regulatory Compliance

Non pyrogenic according to USP Bacterial Endotoxins

Pass USP Plastic Class VI Test

Non fiber releasing according to 21 CFR

Sterilization

In-Line Steam Sterilization

134 °C, 20 min. at max differential pressure of 0.5 bar | 7 psi

Autoclaving:

134 °C, 2 bar | 29 psi, 30 min

Sterilization Cycles

In-Line Sterilization: Min. 25

(only cartridges)

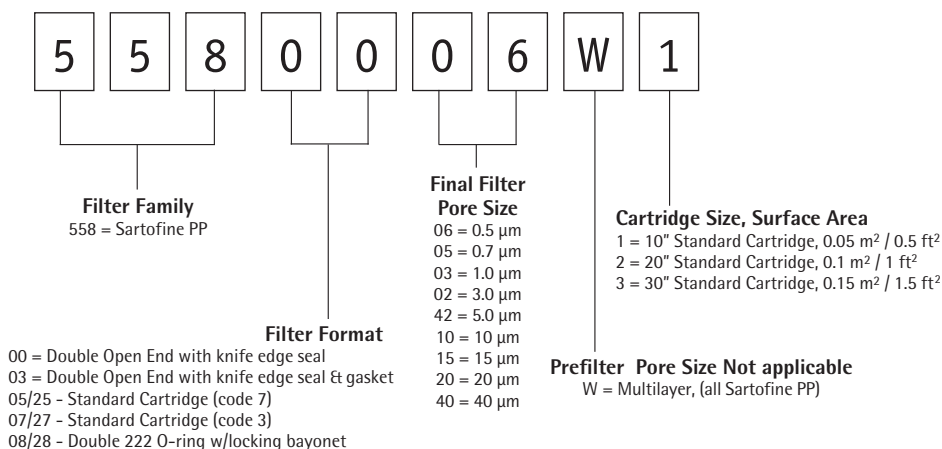
Autoclaving: Min. 25

Technical References

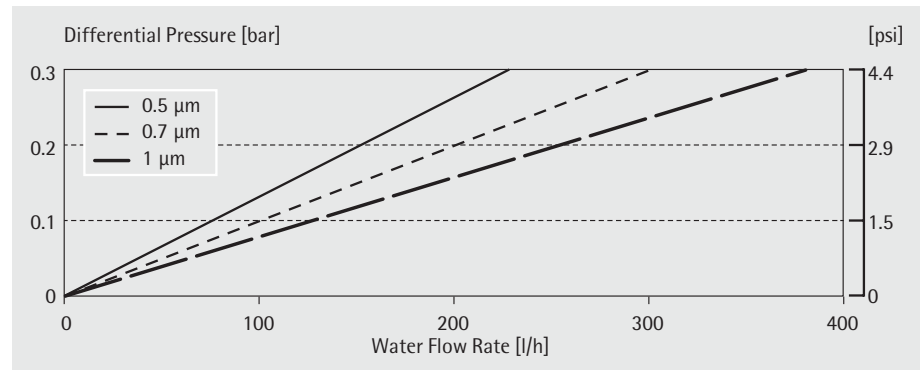
Validation Guide

SPK 5707-e

Ordering Guide

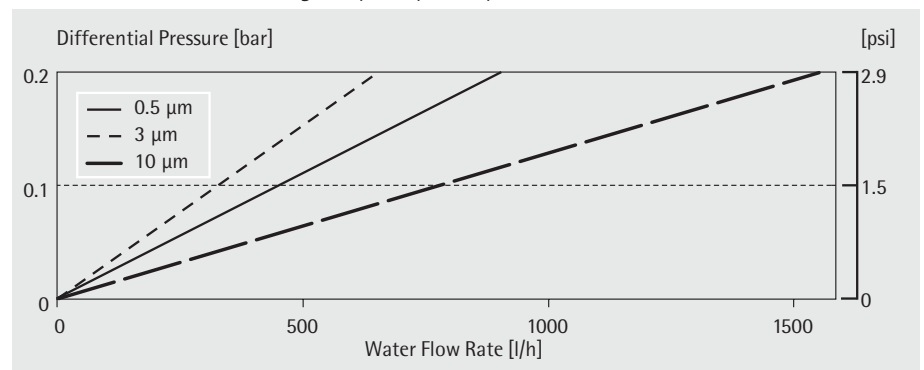


Sartofine 10" Standard Cartridges, 0.5 µm, 0.7 µm, 1 µm



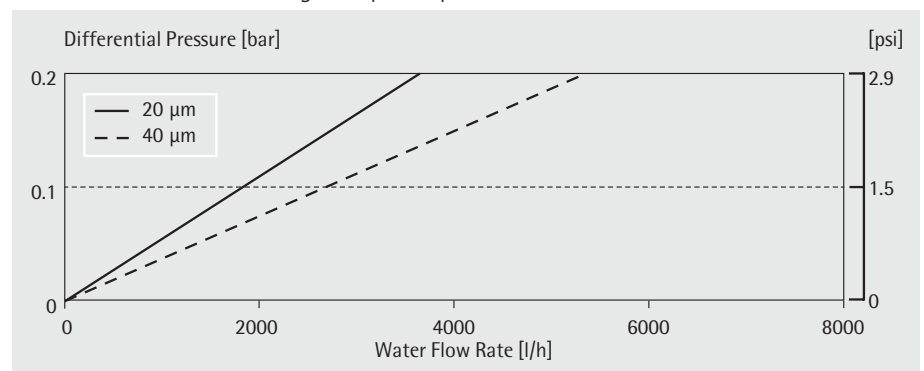
Standardized at 20 °C

Sartofine 10" Standard Cartridges, 3 µm, 5 µm, 10 µm



Standardized at 20 °C

Sartofine 10" Standard Cartridges, 20 µm, 40 µm



Standardized at 20 °C

Sartorius AG
 Weender Landstrasse 94-108
 37075 Goettingen, Germany
 Phone +49.551.308.0
 Fax +49.551.308.3289
 www.sartorius.com
 USA +1.631.2544249
 UK +44.1372.737100
 France +33.1.69192100
 Italy +39.055.634041
 Spain +34.91.3586100
 Japan +81.3.33293366

Specifications subject to change without notice.
 Printed and copyrighted by Sartorius - W/sart-000 - G
 Publication No.: SPK2048-e04041
 Order No.: 85030-516-85