

# Accufit Welded™ Liquid Filter Bag



**Filtration Systems™**

Division of Mechanical Mfg. Corporation



## There are 3 distinct design advantages to this patented liquid filter bag

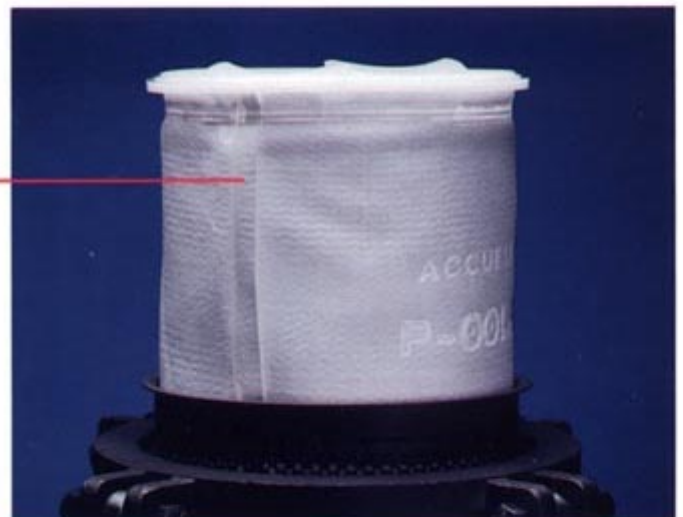
1. A flanged bag collar that provides an integral sealing gasket when used in a **Filtration System's** filter vessel. No bypass of particulate will occur around the sealed bag collar when the filter bag is under elevated pressure.



2. A dual handle lift-out, located above the liquid level, eliminates contact with dirt and unfiltered materials and allows quick filter bag removal for replacement.



3. Completely welded construction prevents solids, larger than the micron rating of the media, from bypassing the filter bag. Conventional filter bags are sewn, allowing particles to bypass through the needle holes of seams.



## Materials of Construction

100% Polypropylene

### FEATURES

**HIGH EFFICIENCY**

**NO SEWN SEAMS**

**FLANGED BAG COLLAR WITH INTEGRAL GASKET**

**DUAL HANDLES**

**SURFACE TREATED EXTERIOR**

**100% POLYPROPYLENE**

**FULLY COMBUSTIBLE**

**HIGH STRENGTH**

**LOW PRESSURE DROP**

**BAG IDENTIFICATION**

**ECONOMICAL**

Maximum Temperature: 180°F

Maximum Operating Differential Pressure: 30psi

### BENEFITS

Consistent, verifiable results

No bypass of unfiltered fluid

No bypass around filter bag seal

Quick and easy filter bag removal eliminates contact with dirt or unfiltered material

Minimizes fiber migration downstream

Broad range of chemical compatibility

Total incineration at low temperatures reduces disposal costs

Minimizes bag breakage reducing product failures

Low resistance to flow means greater yield per filter bag

Micron rating and filter bag size permanently embossed eliminates incorrect replacement

Low cost, high performance liquid filtration

## Chemical Compatibility

The following list is a guide to chemical compatibility of polypropylene with several commonly used fluids grouped by chemical categories:

■ Compatible in most situations

■ Limited compatibility, testing is suggested

■ Generally not compatible, testing is suggested

Fluid compatibility with polypropylene filters (at room temperature)

### Acids

Acetic Acid ■  
Carbonic Acid ■  
Citric Acid ■  
Formic Acid ■  
Hydrochloric Acid ■  
Hydrofluoric Acid ■  
Nitric Acid ■  
Phosphoric Acid ■  
Sulfuric Acid ■

### Alcohols

Butanol ■  
Ethanol ■  
Ethylene Glycol ■  
Glycerine ■  
Isopropanol ■  
Methanol ■

### Alkalies

Ammonium Hydroxide ■  
Potassium Hydroxide ■  
Sodium Hydroxide ■

### Aromatics

Benzene ■  
Toluene ■  
Xylene ■

### Ethers

Dioxane ■  
Ether ■  
Tetrahydrofuran ■

### Chlorinated Solvents

Carbon Tetrachloride ■  
Chloroform ■  
Trichloroethylene ■

### Esters

Amyl Acetate ■  
Butyl Acetate ■  
Ethyl Acetate ■  
Methyl Acetate ■

### Ketones

Acetone ■  
Methylethyl Ketone ■

### Oils

Cottonseed Oil ■  
Mineral Oil ■

### Other Fluids

Formaldehyde ■  
Gasoline ■  
Hexane ■  
JP-4 ■  
Kerosene ■  
Mineral Spirits ■  
Phenol ■  
Pyridine ■  
Turpentine ■  
Varnish ■

### ACCUFIT WELDED™ FILTER BAG SIZES

Size	Product Dimensions	Square Feet	Max. Recommended Flow Rate (gpm) Water
1 (P1)	7" x 16"	2.2	55 gpm/filter bag
2 (P2)	7" x 33"	4.4	90 gpm/filter bag
4 (P4)	4" x 14"	1.0	25 gpm/filter bag
5 (P5)	4" x 24"	1.8	45 gpm/filter bag

### MICRON RATING AVAILABILITY

1	3	5	10	15	25	50	75	100	150	200
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### IMPORTANT NOTE ON CHEMICAL & THERMAL COMPATIBILITY AND ACCUFIT WELDED™ LIQUID FILTER BAGS

The compatibility data presented in this brochure is for general guidance only. In most cases, the use of a specific filtering material, such as polypropylene, can be safely recommended without special testing. Issues of possible filter bag incompatibility, such as swelling, leaching of the filter bag material into a fluid solution or disintegration, can only be determined by the user under actual on-site operating conditions.

Factors such as degree of concentration of a substance in a fluid, temperature and duration of filter bag exposure are also factors to be considered. Chemical and thermal compatibility is further defined to include all materials exposed to fluids such as the filter bag, O-rings and filter vessel, under elevated pressure and/or temperature. If chemical and thermal compatibility is in doubt, please check with the manufacturer.

## Applications for Accufit Welded™ Liquid Filter Bags

Low cost, high performance liquid filtration can be achieved with Accufit Welded™ Liquid Filter Bags, where fine filtration is required. Our filter bags are compatible for many applications such as...

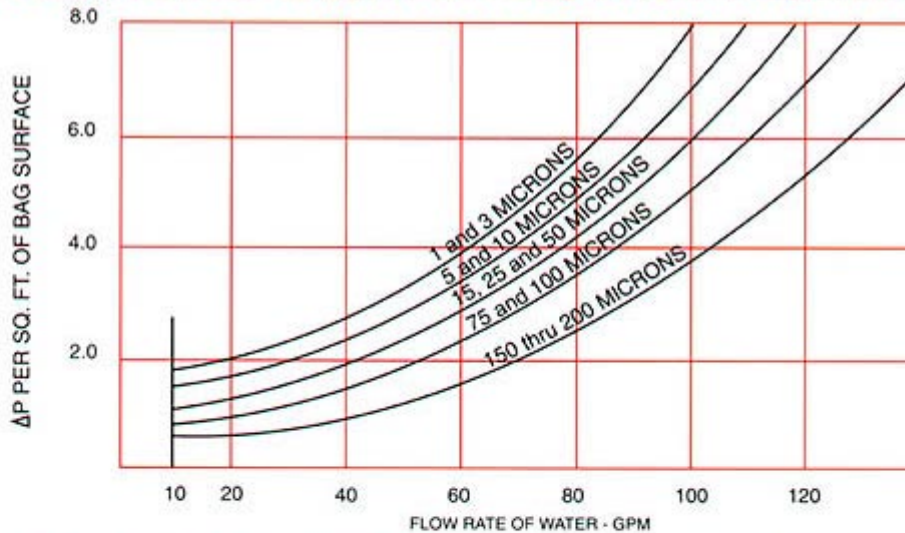
Acids and Bases  
Adhesives  
Aerosols  
Amines  
Bulk Chemicals  
Beverages  
Coil Coatings  
Cleaning Fluids  
Cosmetics  
Cutting Fluids

Confectionery Products  
Dye Stuffs  
Electric Utilities  
Electroplating  
Fats and Oils  
Fabric Coatings  
Hydraulic Fluids  
Industrial Coatings  
Lacquers  
Liquor

Liquid Detergents  
Magnetic Media Coatings  
Oil Well Applications  
Paints & Varnishes  
Paper Coatings  
Pharmaceuticals  
Petrochemicals  
Photographic Products  
Pigments  
Plastisols

Plating Solutions  
Polymers  
Process Water  
Printing Inks  
Reagent Chemicals  
Semiconductors  
Sugars  
Vegetable Oils  
Water  
Etc.

### Accufit Welded™ Liquid Filter Bag-Determining Pressure Drop



#### STEP 1. THE MICRON RATING AND FLOW

The graph shows the pressure drops imposed by one square foot of (clean) bag material based on various micron rates and flow rates of water. Using your rating and flow, find the pressure drop.

#### STEP 2. CORRECT FOR BAG SIZE

Divide the pressure drop found in step 1 by the square feet of surface in the bag size you want.

#### STEP 3. CORRECT FOR VISCOSITY

If the viscosity of your liquid is heavier than 1 cps(water), multiply your result from step 2 by the proper correction factor from chart at right. This should give the correct pressure drop for your application.

#### STEP 4. TOTAL PRESSURE DROP

Add the pressure drop from the bag to the pressure drop of the filter vessel to determine the total.

VISCOSITY (CPS)	CORRECTION FACTOR
50	4.5
100	8.5
200	16.6
400	27.7
800	50.0
1,000	56.2
1,500	77.2
2,000	113.6
4,000	161.0
6,000	250.0
8,000	325.0
10,000	430.0

**Note:** While the information herein is believed to be reliable, we do not guarantee its accuracy. Purchasers are urged to make their own tests.

Manufactured by: **Filtration Systems™**

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**LIMITATION OF LIABILITY:** Filtration Systems, shall not be held responsible or liable for any loss or damage resulting from, direct or indirect, incidental, special or consequential, arising from the sale, use or misuse associated with product merchantability and fitness for a specific purpose. **WARRANTY:** In the event Filtration System's product is found to be defective in workmanship, Filtration Systems, only obligation and a customer's remedy, shall be to replace the product or refund the purchase price.

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