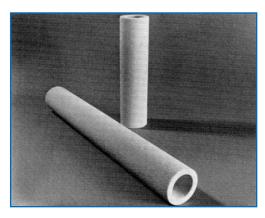
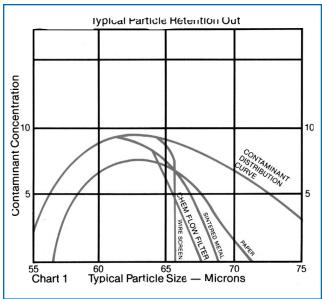


# CHEM FLOWTRONICS

## FILTER ELEMENTS





CHEM FLOW Filter Assemblies with the unique Chem Flow filter element are designed primarily for the filtration of corrosive liquids and gases. These filters also are ideally suited for gas diffusion and purification. Their excellent filtering characteristics, resistance to heat, heat shock, chemical attack and mechanical strength make them uniquely them for difficult applications.



#### Features:

3 Microns — Very Fine polishing and clarifying 5-10 Microns — Fine polishing and clarifying 25-50-100 Microns — General polishing and clarifying

#### PERMANENT FILTER ELEMENT

The extremely hard element wears very little and by use of the various cleaning methods the constant replacement cost on non-permanent elements is completely eliminated.

#### CHEMICAL RESISTANCE

Chem Flow filters are completely resistant to chemical attack by all acids, except HF, and hot concentrated alkalies.

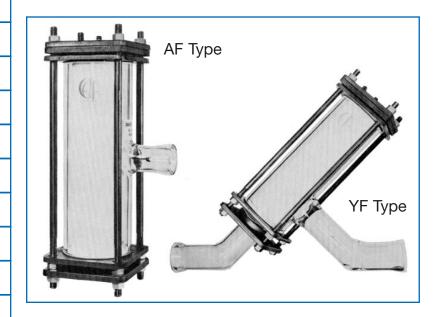
#### NON-SLOUGHING

Sloughing, the shedding and passing of filter body particles greater than rated size, is a defect which occurs with many filter materials. When Chem Flow filter elements are handled properly this condition will not occur.



# CHEM FLOWTRONICS

# FILTERS



# For Polishing Clarifying Cold Sterilization

# Only Chem Flow has all these advantages...

- Complete Corrosion Resistance
- Constructed of Borosilicate Tubing and TFE
  - Low Pressure Drop
    - Non Sloughing
    - Compactness
- High Heat Resistance
  - Transparent Body
- Uniform Structure Voids and Particle Retention
- Complete Porosity Range
   to 100 Micron
  - Gas Filtration
  - Adaptable to all Piping Systems
    - Reuseable Elements



Web: www.chem-flowtronics.com



#### CHEM FLOWTRONICS

Chem Flow Corporation P.O. Box 4635, Wayne NJ 07474-4635 Tel: 800-486-3356 · 973-785-0001 · Fax: 973-785-8051 Email: info@chem-flowtronics.com

8/02



#### **SPECIFICATIONS**

#### CONSTRUCTION

Body — Borosilicate Glass Element — Fused Quartz End Plate — TFE lined steel

#### **OPERATING CONDITIONS**

Micron Rating 5, 10, 50, 100

Maximum operating pressure — 50 psi Maximum operating temperature — 450°F

Maximum sudden temperature differential — 200°F Maximum backwash pressure inside out — 50 psi

Special designs and elements available for higher operating conditions in all materials of construction.

#### UNIFORM STRUCTURE

Maximum particle retention. The uniform structure of the Chem Flow filter element is reflected in its particle-retention rating. (Rating based on the minimum size of a spherical particle which will be retained by the filter.) For example a Chem Flow filter element rated at 50 microns will retain 98% of all particles larger than 50 microns.

#### UNIFORM VOIDS

Uniform voids allow a high percentage of particles below the rated particle size to pass, and thereby greatly reduce clogging rates.

#### FLOW RATE

Chem Flow filters offer minimum pressure loss for any given particle retention range. Constant checking during the manufacturing process assures acceptable limits. Chart shows the rate at shich these filters will pass clear water and liquids with a water viscosity at various pressures. Viscosity, contaiminant, pressure and micron rating will all affect the flow rate. The uniform structure and voids of the element provide the very maximum free area which produces the following high flow rates:

Cat. No. Code Ex	xample:
Port Size 1", 1½" or 2" ———	1
Micron Rating of Element ———	50
Body Type Angle Filter "Y" Filter	YF
½ Sq. Ft. = 10, 1 Sq. Ft. = 20 —	10
1" Filter with 50 Micron Element	t, "Y" Type Body ½ Sq. Ft.



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#### MICRON SIZE

PSI		5	10	25	50	100
1	GPM	5	7	9	13	19
5	GPM	13.2	16	20	31	67
10	GPM	17	21	28	44	115
15	GPM	21.2	267	32	54	155

#### **AF Type**

Size Sq. Ft	A Dim.	B Dim.	C Dim.
1/2	1"	53/2"	11%2"
1/2	1½"	51/32"	111/32"
1/2	2"	51/32"	111/32"
1	1"	1011/32"	211/32"
1	1½"	1011/32"	211/32"
1	2"	1011/32"	211/32"

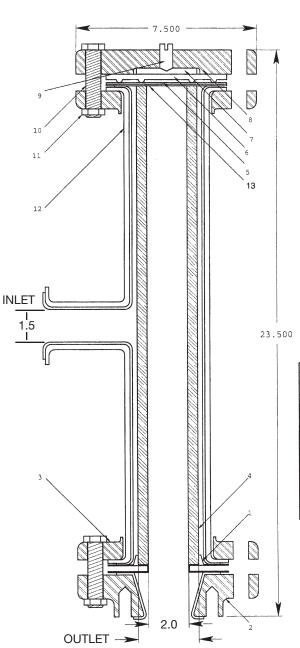
#### YF Type

Size Sq. Ft	A Dim.	B Dim.	C Dim.
1/2	1"	12½"	<b>11</b> <sup>15</sup> / <sub>16</sub> "
1/2	1½"	15¾"	12½"
1/2	2"	181/8"	1227/32"
1	1"	12½"	19½"
1	1½"	15¾"	191/16"
1	2"	18½"	1929/32"



# CHEM FLOWTRONICS

## T.F.E. LINED FILTER



#### Features:

- Corrosion Resistance
- Teflon & Ceramic Wetted Parts
- 100 PSIG Rating
- Low Pressure Drop
- 3-100 Micron Filtration Elements
- Gas Filtration

ITEM	PART NUMBER	DESCRIPTION	QTY
1	FIL-TFE-BCG-2	<b>Bottom Centering Seal</b>	1
2	FIL-TFE-RF-2	Reducing Flange	1
3	FIL-TFE-BF-2	Bottom Flange	1
4	FIL-ELE-2	Element	1
5	FIL-CG-SIL	TFE Top Gasket	1
6	FIL-TFE-TCG-2	Centering Spacer	1
7	FIL-TFE-SD	Sealing Disc	1
8	FIL-TFE-TF-2	Top Flange	1
9	FIL-TFE-PLUG	Plug	1
10	5/8-11 Hexbolt	Bolt	8
11	5/8-11 Hexnut	Nut	8
12	FIL-TFE-MB-2	Body	1
13	FIL-TFE-RCG	Compression Gasket	1



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