

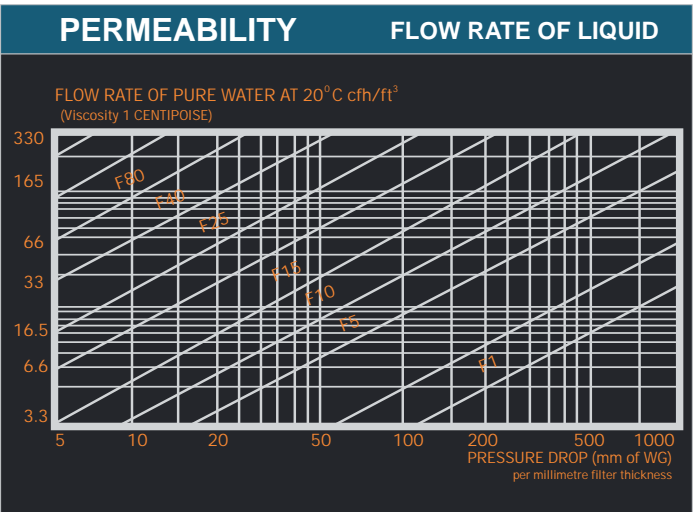
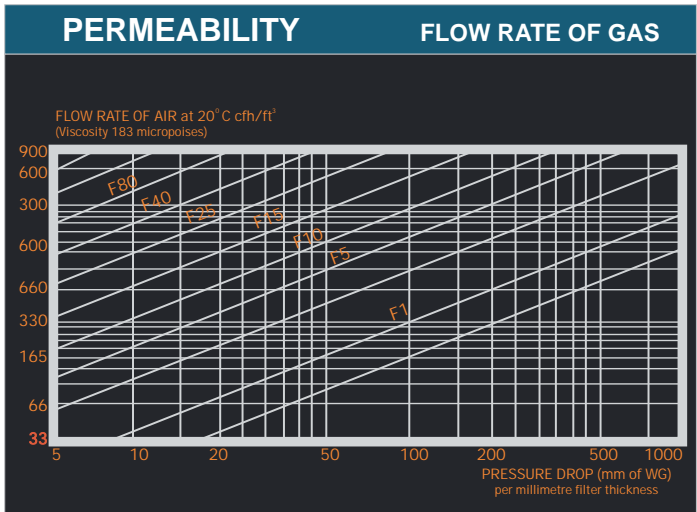
S.S. WIREMESH AND PAPER FILTER ELEMENTS

Paper filter elements are made from cost effective cellulose paper. These are used in hydraulic machinery and pneumatic equipment. S.S. Wiremesh filter elements are used for oil filtration in hydraulic machinery as well as for water filters. It can be used for filtration from 5 micron to 200 micron levels. Flamingo can customize this product as per client's requirements.



CHARACTERISTIC OF FLAMINGO SINTERED BRONZE FILTER ELEMENTS

Flamingo materials have a high interconnecting with a uniform porous surface and small wall thickness, which insure the great permeability for given pore size



The permeability coefficient of flamingo sintered bronze filter elements can be calculated using the following formula (Darcy)

$$\left[ \phi = \frac{Q t \eta}{\delta P A} \right]$$

Where  
ϕ = Coefficient of permeability of a given grade  
Q = Flow of fluid through sintered bronze elements in cc/sec.  
t = thickness of filter elements in cm.  
η = viscosity of fluid in poise.  
δP = pressure drop across elements in dynes/cm²  
A = area of filtration in cm²

KINDLY ENQUIRE WITH THE FOLLOWING DETAILS:

- 1. Minimum flow rate required.
- 2. Maximum pressure drop across the filter element.
- 3. Fineness of filtration required.
- 4. Required shape and size of element, method of mounting.
- 5. Viscosity and temperature of the fluid to be filtered.

IMPORTANT CHARACTERISTICS

CHEMICAL COMPOSITION (NOMINAL)	Cu-89% Sn-11%
DENSITY	5-6.5gm/cc
POROSITY BY VOLUME	30-45%
COEFFICIENT OF LINEAR EXPANSION	18.3 X 10⁻⁶°C
TEMPERATURE SUITABILITY	In Oxidising gasses (air) upto 180°C or in reducing gasses upto 400°C

Grade	Average Filtration Level, micron	Co-efficient of permeability(x10 cm)
F80	75-95	1500
F40	50-65	1000
F25	25-35	250
F15	14-20	75
F10	10-12	25
F5	5-8	10
F1	2-8	3

TM

FLAMINGO  
FILTERS PVT. LTD

FLAMINGO SINTERED BRONZE FILTER ELEMENTS

## FLAMINGO FILTERS PVT. LTD

Flamingo Filters Pvt. Ltd. are the Manufacturers, Suppliers, & Exporters of high quality sintered bronze elements for several years. Manufactured by using spherical bronze metal powder to produce a wide variety of shapes and sizes such as a sintered bronze mufflers/silencer, cartridge elements, fluidizing pads, flame arresters and other products like Stainless Steel wire mesh elements, paper filter elements and gauge snubbers.

Flamingo filter elements can be used as the most inexpensive permeable filtering element. Our filter elements have a tin content of just 11% and are non-corrosive when subjected to most chemical fluids.

Spherical metal powders and packing of uniform spheres is the whole basis of the high filtering quality of our elements. The ductility and strength of this metallic structure increases resistance to impact and is suitable for high-pressure filtration. Flamingo Filters are stronger than other types of filters since they possess a distinctive cellular structure and have permeability for a given fineness of filtering. Another important characteristic is the amount of oversize material as it is capable of retaining its qualities. Hence our filters have an almost infinite life and can be easily cleaned by either simply washing or using a reverse flow.



### APPLICATIONS

- |  |                               |
|--|-------------------------------|
| ■ Polymer Filtration, Gases Filtration | ■ Bacteriological Plants      |
| ■ Pneumatics Machinery and Equipments  | ■ Steam and Gas Turbines      |
| ■ Compressor                           | ■ Air Drives   ■ Fluidization |
| ■ Mining Equipments                    | ■ Flow Control Devices        |

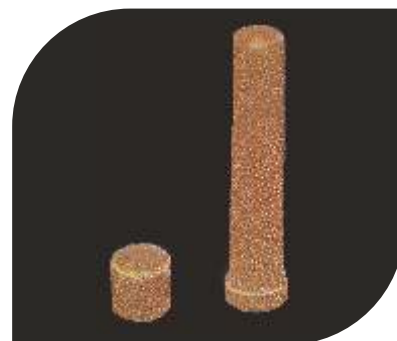
### CARTRIDGE FILTER

It is an important addition to filtration technology. It is recognized the world over for its superior and dependable filtration characteristics. The ductility and strength of this metallic structure increases its suitability for high pressure. These are available in cylindrical shapes. Sintered bronze filter elements are available from 1 micron to 100 micron filtration level capacity. These filter elements are cleanable and reusable resulting in reduced operation cost.



### FLAME ARRESTER

Because of superior thermal conductivity of sintered bronze, a flame arrester/flash back arrester made from it prevents ignition temperature to be attained on the other side and thus prevents fire hazards. Usually find application in welding and electrical equipment.

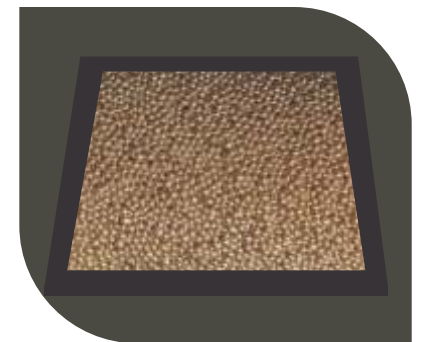


### FLUIDIZATION PADS

Fluidizing pads made from sintered bronze are used to fluidize fine powder of different material such as coal ash, cement, plastic etc. large pads are produced as per clients requirements.

Standard sizes available are:

- a) 300mm L x 150mm W x 3mm thick
- b) 300mm L x 150mm W x 5mm thick



### SILENCERS

#### 3 types of Silencers - Manufactured by Flamingo

##### SINTERED BRONZE SILENCERS

Sintered Bronze Silencers are used on exhaust ports of pneumatic valves and tools to minimize sound levels. These silencers are usually supplied in 40 micron thickness. They can be supplied in any of the remaining six grades on request. Sintered Bronze Ordinary Silencer, manufactured by Flamingo Filters are made from spherical bronze powder. Made using sintering process and are in one piece, that means threading portion is also made using bronze powder.

Noise Reduction Up to: 76 DBA

Available Sizes: 1/8", 1" BSP



##### BREATHER VENTS / (BUTTON SILENCER)

Breather vents have many applications in vacuum relief or pressure equalization or gear boxes. These Silencers have a disc made from bronze and fitted in a brass adaptor and can be customized as per the needs and requirements of the clients.

Sizes - 1/8 " to 1"

##### BRASS THREADING SILENCER

Porous sintered bronze mufflers discharge noise emitted by pneumatic equipment, air tools and cylinders. Sintered bronze Silencer manufactured by Flamingo is made from spherical bronze powder.

Sizes - 1/8" to 2"

