

amaFlow AP – SP – N – TF – RT – HT Needle felt filter bag

For a wide number of filtration applications amaFlow filter bags are an easy to use and economical choice. The amaFlow needle felt bags are mainly used where depth filtration is required. The three dimensional media provides good depth filtration characteristics and high solids loading versus two dimensional media.

Features

- Inside-out flow keeps contaminants enclosed in the bag.
- Bags are quick and easy to be exchanged.
- Filter bags and bag filter housings are usually applied in closed systems. Besides closed systems open and end-of-pipe systems are also known applications.
- The standard amaFlow filter bags are sized to fit into our baskets and housings and will also fit into most other filter housings.
- Special sizes are available on request.
- Cost effective at lower micron ratings versus two dimensional media (mesh).
- The amaFlow filter bags can be equipped with either a Snap-Collar seal comprising of either carbon steel, stainless steel ring or with a plastic seal flange.
- amaFlow filter bags are designed in such a way that they reach optimal filtration performance. We therefore advise to ex-change filter bags below 1.5 bar¹ pressure difference.
- amaFlow filter bags maximum pressure difference: 2.5 bar¹
- The filter bag must be properly mounted into the support basket before starting the filtration process. Filtration Group recommends to use a bag positioner to ensure properly position the filter bag into the support basket.
- Bags (amaFlow AP and SP) are produced in a silicone free environment.
- Materials used for amaFlow AP and SP comply with the European Regulation EC1935/2004 and EU10/2011 and comply with under applicable section of the US Food and Drugs Administration (FDA).

Bag filter housing

Filtration Group supplies a wide range of bag filter housings in different materials, dimensions and models to meet your demands.

For detailed information about bag filter housings, please see the respective data sheets or visit www.ama-lfc.com



Typical applications

- General chemical
- Food and Beverage
- Ink industry
- Process water
- Paints
- Coatings

Types

The amaFlow needle felt bags are available as standard in polyester or polypropylene with many different micron ratings.

Other filter media materials are available on request.

Surface treatment

Polypropylene filter bags are thermally treated on the outside as standard. Thermal treatment will further minimise any possible release of fibres from the needle felt filter media. During the thermal treating process the softened fibres are bonded together on the filtrate side of the filter bag.

Sealing system

In order for bag filters to function properly, especially with smaller pore sizes, a good seal between bag and support basket is of great importance. For this reason Filtration Group has two options:

- Snap-Collar; a felt-covered metal ring which clicks neatly into the upper collar of the support basket. The felt serves as the sealing.
- Plastic flange (with handles) which tightly fits into the standard baskets.

Filtration Group can support you regarding the chemical compatibility of the filter media.

¹ For liquids with a (dynamic) viscosity of 1.00 mPa.s @ 20°C. If liquid temperature is greater than 20 °C and/or viscosity is greater than 1.00 mPa.s than the maximum pressure difference will decrease for those applications.

Ordering information

Example **A P 0 0 0, 8 - P / S 2 - S S - W E - H S - 1 P K**

1 Type

- AP = Polyester
- SP = Polypropylene
- N = Nylon
- TF = PTFE
- RT = PPS
- HT = Nomex[®]

2 Micron rating [µm]

- AP = 0.5; 0.8; 1; 3; 5; 10; 25; 50; 75; 100; 150; 200
- SP = 0.5; 0.8; 1; 3; 5; 10; 25; 50; 75; 100; 150; 200
- N, TF, RT or HT = Micron rating on request

3 Finish

- S = Outside thermally treated
- P = Plain (not for SP)
- P/S = Outside thermally treated (standard for SP)

4 Bag dimensions

- 1 = Size 1 (Ø 178 x 432 mm)
- 2 = Size 2 (Ø 178 x 800 mm)
- Other sizes 3, 4, 30 and 65 on request

5 Ring / Flange

- S = Carbon steel ring (Snap-Collar)
- SS = Stainless steel AISI 304 ring (Snap-Collar)
- E = Polyester flange (for AP)
- P = Polypropylene flange (Size 1, 2, 3, 4: only for AP and SP)
- T = PTFE ring (Snap-Collar) (TF only)

6 Configuration*

- WE = All welded (standard for AP and SP by size 1 and size 2)
- = For types N, TF, RT, HT: standard all seams sewn
For sizes 3, 4, 30 and 65: standard all seams sewn

7 Additional handle

- HS = Handle strap, from same material as needed felt
(standard: size 30, 65 for S, SS, PO)

8 Other options

- 1PK = Single packed in plastic bag, together in box

* If the standard fully welded filter bag is not sufficient for the required process than Filtration Group has other configurations to offer. For example fully sewn (-AS). Please contact Filtration Group for support.

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