

Filter cartridge amaLloy

1. Introduction

amaLloy metal filter cartridges are designed for the most extreme operating conditions like high severe temperatures or chemicals. The completely welded 316L stainless steel amaLloy is available in a pleated or cylindrical construction.

Together with the different media types, the amaLloy offers you excellent performance in the most extreme applications.

The amaLloy is not only suitable for liquids but can also be used for many gas applications.



2. Features

- Cylindrical and pleated constructions available
- High differential pressures
- High chemical compatibility
- Resistant against high temperatures
- 316L FDA-approved material
- TiG welded construction
- Rated at 99.98% (beta ratio 5000) efficiency for stainless steel fibre and sintered powder
- Available with wide variety of end caps
- No extractables

3. Product specifications

Filter medium	: 316L stainless steel fibre, sintered powder or wire mesh
Support medium	: 316L stainless steel
Hardware	: 316L stainless steel
Backflush cage	: 316L stainless steel
Construction	: TiG welded
Gasket/O-Rings	: silicone, EPDM, Buna-N, Viton®, PTFE, PTFE encapsulated silicone, PTFE encapsulated Viton®

Dimensions

External diameter	: 66 mm
Length	: see ordering information
Filtration area	: 0.05 m ² /10" cylindrical cartridge 0.13 m ² /10" pleated cartridge

4. Performance specifications

Maximum recommended differential pressure

Fibre and mesh	: 25 bar for forward flow 1 bar for reversed flow 3 bar for reversed flow with back flush cage
Sintered powder	: 100 bar for forward flow 50 bar for reversed flow
Maximum operating temperature	: 300 °C

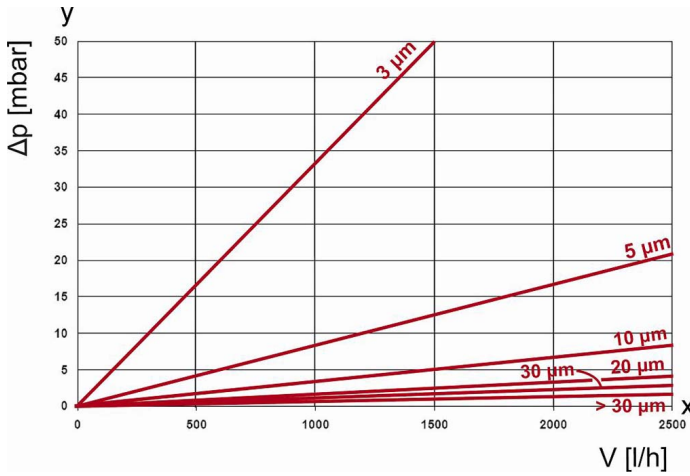
Cleaning

The filter cartridges can be cleaned by means of reverse flow, ultrasonic bath, high temperature burnout or chemicals.

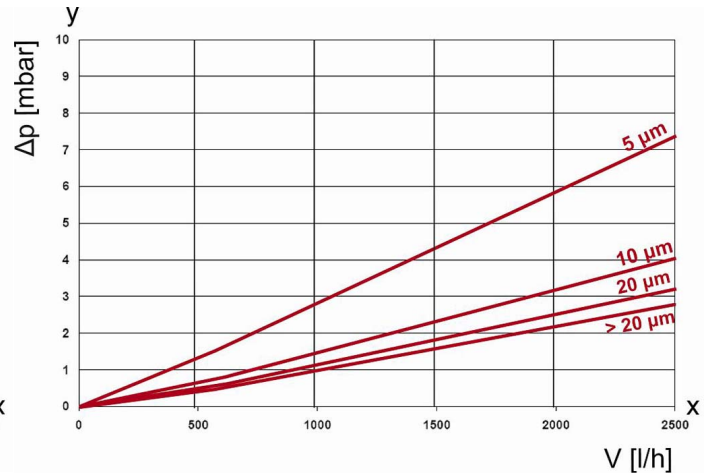
Micron rating stainless steel fibre		Micron rating sintered powder	
Liquid 99.98%	Gas 99.98%	Liquid 99.98%	Gas 99.98%
3	1	6	0.4
5	1.3	10	0.7
10	2.5	15	1.2
15	4	30	4.5
20	5	60	10
30	8		
40	10		
60	15		

5. Water flow rates

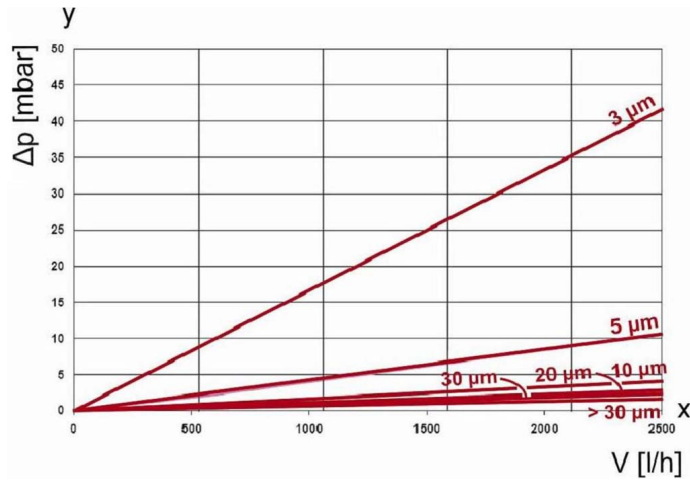
amaLloy CA 10" cartridge



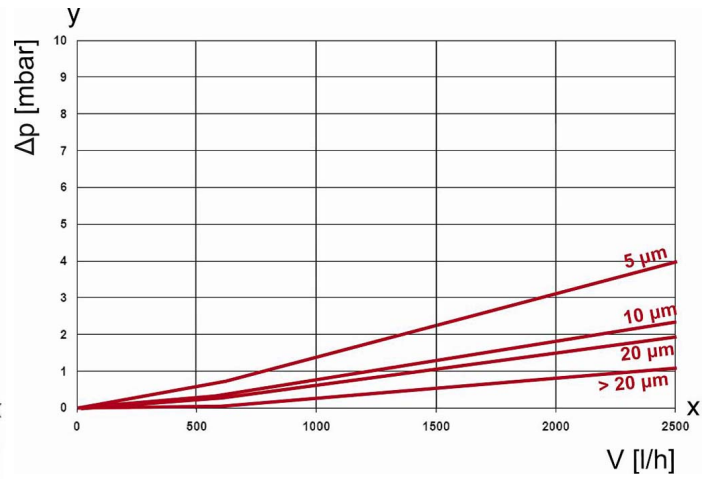
amaLloy LA 10" cartridge



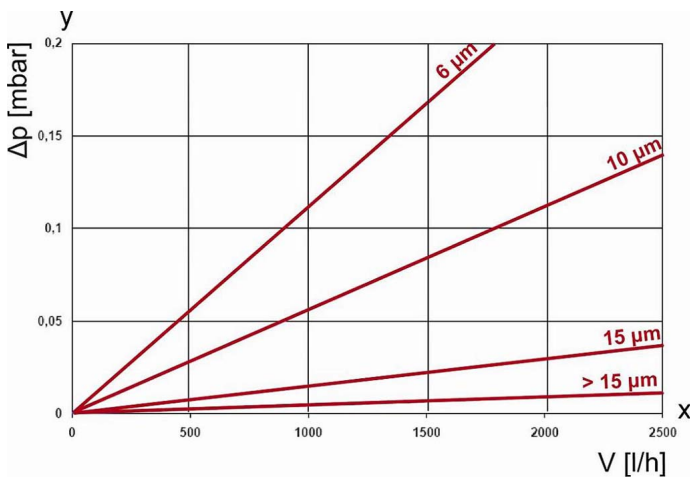
amaLloy FA 10" cartridge



amaLloy MA 10" cartridge



amaLloy PA 10" cartridge



x=Flow rate

y=Clean pressure drop

6. Ordering code

Example

amaLloy FA

3

10

S

X4

S

Cartridge type

amaLloy CA=cylindrical fibre

amaLloy FA=pleated fibre

amaLloy LA=cylindrical mesh

amaLloy MA=pleated mesh

amaLloy PA=cylindrical powder

Micron rating

fibre 3, 5, 10, 15, 20, 30, 40, 60

mesh 3, 5, 10, 20, 40, 70, 100, 250, 450, 840

powder 6, 10, 15, 30, 60

Nominal length [inch]

10 (250 mm)

20 (498 mm)

30 (745 mm)

40 (1012 mm)

Hardware material

S=316L stainless steel

Cartridge style

X3=SOE with external 222 O-rings

X4=DOE with flat gaskets

X7=SOE with fin end, bayonet and external 226 O-rings

X8=SOE with fin end and external 222 O-rings

X12=SOE with 1" NPT thread

O-Ring material

S=Silicone

N=Buna-N

E=EPDM

V=Viton®

T=PTFE encapsulated silicone / PTFE flat gasket

F=PTFE encapsulated Viton®

Options

B=Backflush cage for amaLloy CA and amaLloy LA

Back flush cage is standard on pleated cartridges

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