

PSS® Plus Series Metal Elements

For Aggressive Liquid and/or Culinary Grade Steam Filtration Applications

PSS Plus series porous metal filter elements are designed for aggressive liquid and/or steam filtration applications requiring 316L stainless steel porous metal construction.

Description

PSS Plus series metal elements are Pall's most recent development in porous metal filtration. The elements utilize a new state-of-the-art manufacturing method to fabricate elements that have a more uniform pore structure within the metallic media to increase filtration efficiency and tighten permeability.

The fine sintered stainless steel structure enables filtration in applications with high-temperature, pressure, culinary grade steam and solvent resistance. They are recommended for clean steam service and well suited for liquid or gas applications including solvents chemical intermediates, heat transfer and cryogenic fluids, polymers, pharmaceuticals and high-temperature gases.



PSS Plus Series Metal Elements

Features	Benefits
All stainless steel construction	Compatible for applications like steam, chemicals, high temperature gases
More consistent permeability	New process allows for a tighter range of permeability
High pressure and corrosion resistance	Withstands high reverse flows
New manufacturing process reduces production time lead	Flexibility in order procurement
ISO 9001 Certified Facility	Manufactured for use in conformance with cGMP

Recommended Maximum Flow Densities

Liquid Rating*	Gas Rating**	Max Aqueous Recommended Flow Density (L/min) GPM/ft ²	Max Recommended Flow Density (NM ³ /h) ACFM/ft ²
10 µm	1 µm	(0.8-3.0) 0.2-0.8	(4.98-13.34) 3.1-8.3

* Liquids: Beta 1000 (99.9%) by a modified F2 test method and actual particle count data.

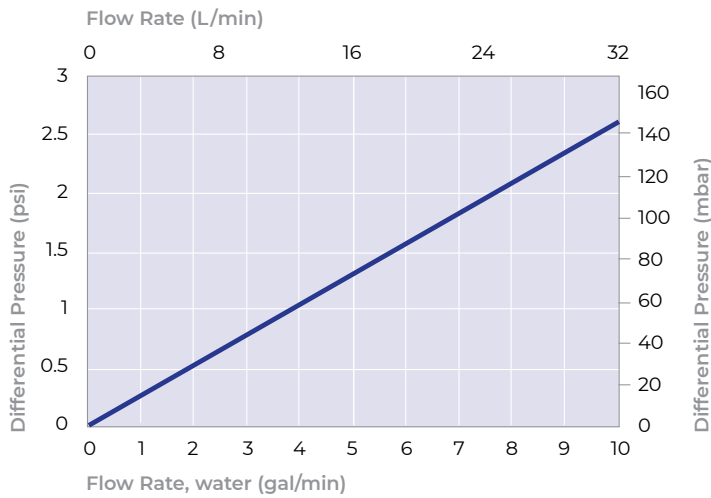
** Gases: Using the 10:1 ratio of liquid: gas to be confirmed using IMR

Materials of Construction

Component	Description
Medium	316L stainless steel
Gaskets	See the ordering information below

Technical Specifications

Typical Liquid Flow Rate Graph PSS Plus Series 1001 AH Grade



¹ Typical initial clean medium ΔP per 10 in. (254 mm) element, water at 68 °F (20 °C), 1 cp. For assistance in sizing and housing selection, contact your local Pall representative.

Clean Pressure Drop

Liquid Service	Gaseous Service
Aqueous Pressure Drop psi/gpm/ft ²	Air Pressure Drop psi/acfm/ft ²
0.13	0.013

¹ Pressure drop in psi obtained by multiplying value shown by actual flow desired in gpm, viscosity of liquid in centipoise (if other than 1 cp).

² Pressure drop in psi using the 10:1 ratio of liquid:gas to be confirmed using IMR.

Operating Conditions

Maximum Differential Pressure:

75 psid forward and reverse @ 200 °F (93.3 °C)

Nominal Dimensions

Diameter: 2.33 in (59.2 mm)



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Ordering Information

This is a quick guide to the part number structuring. For specific options, please contact Pall.

Part number nomenclature:

MBS100 P
Table 1 Table 2 Table 3

Example: MBS1001PAHJ7

Table 1: Dimensions

Code	Nominal Length	Filter Area
1	10 in. (254 mm)	0.05 m ² (0.5 ft ²)

Table 2: Ratings

Code	Liquid Ratings ¹	Gas Ratings ²
AH	10 µm	1 µm

¹ Liquids: >99.98% by mod. OSU-F2 test.

² Gases: 100% for hard spherical particles.

Table 3: Gaskets

Code	Gasket Material
H	Viton*
J	Ethylene Propylene
H5	FEPM
J7	Ethylene Propylene for Steam Service

* Viton is a trademark of E.I. du Pont de Nemours and Company

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IF APPLICABLE Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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