

R E L I A B I L I T Y B Y D E S I G N

Sizes 1/2" to 6" with
steam flow rates up to
28,000 lb/hr.



**3A-Accepted
Steam Filters
Remove
Contaminants
from Steam
Systems and
Improve Plant
Production.**

Introducing the GP line of steam filters from R.P. Adams.

No matter what the industry, contamination of steam, for general use or culinary purposes, can dramatically increase maintenance costs and even shut your process or plant down.

That's why leading companies all over the world rely on R.P. Adams steam filters to prevent clogging and friction wear caused by dirt, rust, pipe scale, solid contaminants such as particles of packing and gasket materials, lubricants and boiler feed water additives.

And with the introduction of high-performance GP Filters, you simply can't find more effective or reliable filtration of steam for direct infusion and to protect sensitive process equipment. Just what you'd expect from the pioneer of advanced filtration technology.

BENEFITS AT A GLANCE

- Two-step separation process
- Nominal two micron filtration
- Rugged design and construction provides long-term reliability.
- Inline connections, easy to install.
- Durable permanent element withstands repeated cleanings to extend tube life.
- Withstands operating temperatures up to 650°F and pressures to 400 PSIG.
- Complies with 3A-accepted practices, meets requirements for culinary steam systems.

FILTER FEATURES

Two-Step Separation Guarantees Maximum Filtration

Steam is directed in a tangential flow around the element and against the inside wall, providing centrifugal separation of larger particles and droplets. Contaminants are captured in patented vertical slots located on the filter's side walls. A steam flow interrupter at the bottom of the unit improves draining efficiency and reduces condensate pick-up from liquid collected before the drain. The steam is then diffused through the Poro-Carbon tube to achieve maximum filtration.

Rugged Construction

The Poro-Carbon element and corrosion-resistant cast ductile iron filter body on sizes 1/2" to 3" withstand temperatures up to 500°F. For sizes 4" and larger, a combination of fabricated carbon steel and cast iron is furnished. Units also are available in stainless steel construction.

Meeting Industry Standards

GP filters meet 3A Standards, and are designed for culinary steam use as outlined by the Dairy and Food Industries Supply Association. In addition, filters are designed for, and can be certified to meet the requirements of Section VIII, Division 1, of the ASME code.

Design Pressures to 400 PSIG

GP Filters are capable of handling pressures up to 400 PSIG. Standard units with design pressures of 100 PSIG and 200 PSIG are available from stock.

Inline Process Connections Easy Installation

Inlet and outlet connections are in line with process piping to simplify installation.

APPLICATIONS

General Purpose

Prevents clogging and friction wear caused by dirt, rust, pipe scale, solid contaminants, lubricants, and non-volatile boiler feedwater additives.

Filters can be used at point of use or in the main process stream.

Food Processing

Provides filtered steam for direct heating of food products, cooking, pasteurization and blanching.

Dairy

Filtered steam is injected into milk for odor control or steam infusion.

Pharmaceutical

Culinary steam is routinely required in the manufacture of medicinal products.

ELEMENT FEATURES

Two Micron Filtration

The Poro-Carbon element removes 95% of particles that are two micron or larger.

Durable Tube Construction

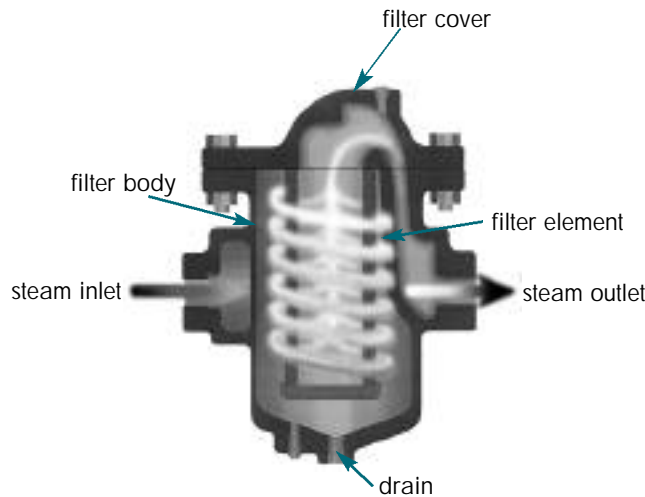
Filter element is a pure inert amorphous carbon structure which provides superior durability to handle the toughest applications. There are no moving parts. The Poro-Carbon tube is directly attached to the filter cover which makes it easy to remove and replace the element.

Cleanable Filter Element

The Poro-Carbon element can be cleaned and reused for years of effective filtration.

Guaranteed Protection

Unlike other filter cartridges, the Poro-Carbon element will never collapse, even when plugged, to fully protect your process and processing equipment.



GP Filters for Saturated Steam Service
Capacity in lb/hr based on operating pressure noted below

Size	Model	50 PSIG	100 PSIG	125 PSIG	150 PSIG	200 PSIG
1/2"	GP-22	95	160	195	225	290
3/4"	GP-31	165	285	340	400	515
1"	GP-47	270	460	555	650	835
1 1/2"	GP-99	635	1,090	1,310	1,530	1,965
2"	GP-132	1,050	1,800	2,165	2,525	3,240
3"	GP-283	2,310	3,965	4,773	5,570	7,145
4"	GP-508	3,985	6,825	8,215	9,590	12,305
6"	GP-1527	9,045	15,495	18,650	21,770	27,930



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