



Pall Corporation

## Pall® PSP Gasket-Sert™ Filter

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### Installation/Replacement Instructions



## Specifications

P/N CNF1104USG4 is constructed with 316L stainless steel medium, a 316L stainless steel gasket and a 316 stainless steel retainer clip. See appropriate Pall Filter data sheet for pertinent technical data, such as removal rating, maximum inlet pressure, and maximum temperature.

Operation outside the specifications or with fluids incompatible with construction materials may cause personal injury and damage to the equipment. Incompatible fluids may chemically attack, soften, swell, stress attack or adversely affect the materials of construction. Please contact your Pall representative for exact limits.

## Packaging

The Gasket-Sert™ filter is pre-cleaned and sealed for cleanroom installation. The Gasket-Sert filter is packaged in two sealed PE bags with the innermost bag containing the clamshell encased filter. The packaged filter is placed in individual boxes for protection.

## Receipt of Equipment

- a. Unpack carefully and check items received against the invoice.
- b. Store the filter cartridge in clean, dry conditions between 0° C and 30° C (32° F and 86° F) without exposure to irradiation sources like direct sunlight, and wherever practical in packaging as delivered.

## Unpacking

Remove the Gasket-Sert™ filter from the outer box. **Note:** *the filter is contained in two protective PE bags. Use powder-free electronics grades gloves for all Gasket-Sert filter installation procedures. Use a clean tool to open the outer sealed PE bag. Carefully remove and discard the clear, outer PE bag, exercising caution not to puncture the clear inner PE bag. Only the sealed inner PE bag containing the installation instructions, clamshell package and Gasket-Sert filter should be carried into the fab area. To prevent contamination, do not carry the clear outer PE bag into any fab area.*

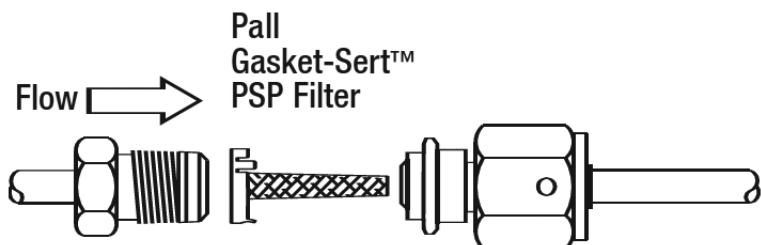
## Suggested Installation

The Identification label shows suggested filter installation orientation.

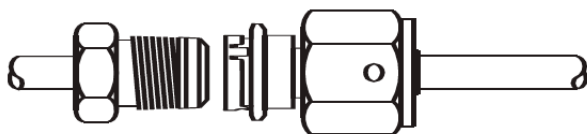
## Installing and Replacing Gasket-Sert Filter

The following installation procedure is recommended. Have all necessary tools and components ready for immediate installation.

- a. Thoroughly purge the process line with purified inert gas. This is especially important if the line has been used for or exposed to toxic or reactive gases. User to determine adequate purge cycle for safe filter removal.
- b. Close the valve upstream of the Gasket-Sert Filter.
- c. Remove and dispose of the used Gasket-Sert filter following any safety precautions required for the process gas filtered.



- d. Inspect tubing or fitting inlet and outlet connections for damage, wear, contamination, and corrosion. Take corrective action if required, making sure all applicable procedures are followed.
- e. Initiate small ( $\approx 1$  slpm) upstream purge flow of inert gas by opening upstream valve slightly. This will minimize atmospheric contamination during filter installation. **NOTE: Complete steps f. and i. within 2 minutes\***
- f. Use a clean tool to open the sealed inner PE bag. Remove the new clamshell encased Gasket-Sert™ filter from the clear PE bag. Open the clamshell container and remove the new Gasket-Sert filter. \*Exercise caution when handling the Gasket-Sert filter. The Gasket-Sert filter should only be handled by the Gasket and retainer, do not make contact with the filter medium as it can easily be damaged and/or contaminated.
- g. Immediately install the Gasket-filter, using the retainer to align the filter cone in the middle of the 1/4" fitting. The retainer clip should be squarely pushed onto the outside of the down stream fitting so that the gasket makes contact with the face seal bead as shown in the following illustration.



Make sure that the process gas flow direction agrees with the flow direction for the filter. Complete the installation by tightening the nuts in accordance with the manufacturers' specifications. (Typically 1/8th turn past finger tight)

- h. Purge the system by cycling the gas flow on then off 10 times using inert gas at standard operating conditions (i.e. flow rate, inlet pressure). This will minimize any particles and entrained atmospheric contamination generated by installation.
- i. Attach new installation sticker included with the identification label on the outside of the fitting nut to show filter is installed inside.

Filter installation is now complete.

**CAUTION: All connections must be thoroughly leak checked before the system can be put on-line. Follow leak check procedures which are applicable to the process gas to be used.**

\*Maintain a controlled atmosphere surrounding the installation section (i.e. glove box) for applications which cannot tolerate any atmospheric contamination or for which the process line cannot be purged as described.

## Disposal of Used Gasket-Sert Filters

Disposal of the used filters should be in line with the national legislation and local regulatory requirements for the materials of construction and due consideration must be made to the nature of contaminants on the filter as the result of use.

## Scientific and Laboratory Services

Pall Corporation and its subsidiaries operate full laboratory services to assist in the application and evaluation of Pall filter products. These services are available to you; we encourage your questions so we can help. In addition to laboratory services, a worldwide network of technical representatives are available to assist you.

## Extensive Selection of Filters Available

Pall produces a wide range of fine filtration equipment including cleanable and disposable types. A comprehensive set of catalogs is available on request.

## Filter Product Availability

Filter products are available from Pall distributors worldwide. For the name and address of your distributor, contact us at [www.pall.com/micro](http://www.pall.com/micro).



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