

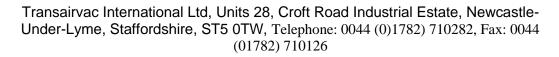
Hydraulic Coolers, Pressure Line Filters, Air & Gas Compressors / Vacuum Pumps / Blowers / Booster Packages and Rotary Lobe Pumps for Transport and Industry.

"PLF150 "T" Ported Micronic filter"

Pressure line filter for use with pneumatic pressure discharge of bulk liquid products from a road tanker.

INSTALLATION, OPERATION AND MAINTENANCE MANUAL

Part number (FIL.003)



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1 HEALTH AND SAFETY (GENERAL)

This product is for use in pressurised systems so which are potentially dangerous if items of equipment are not properly operated and maintained. It is imperative that all users of such equipment fully educate themselves as to the potential dangers and satisfy themselves that the personnel responsible for installing, testing, commissioning, operating and maintaining the machinery are competent to do so.

The main directive for this is the Pressure safety system regulation 2000 PSSR.

Instruction manuals are provided for guidance but must assume some basic level of competence by user staff. In these operating instructions safety measures are advised before each step. It is imperative that these safety precautions are observed. If there are any doubts concerning correct procedures, ask Transairvac International Ltd, who will be pleased to advise,

DO NOT TAKE RISKS.

2 Technical Data for PLF150 5micron Micronic filter

Gas Medium	Air
Filtration	5 micron absolute (100%)
Flow rate maximum	50 - 200 m3/hr
Operating pressure	2.5 barg
Maximum pressure	3 barg (Test pressure 5 batg)
Operating Temperature	-30 C to + 150 C
Materials of construction	Body and filter 316 stainless steel , Seal
	Silicon .
Pressure Equipment	Group II Gases
Directive(PED) 97/23/EC	Category SEP, Pipe line accessories

3 APPLICATION AND INSTALLATION

The application is to filter out any unwanted particles from the air which is used for pressure discharge from liquid tankers for bulk liquid transfer. It is to provide a security filter to ensure the conveying air is to an agreed standard of 5 micron absolute as specified by certain industries.

The pipe work should be fully supported and no strain should be placed on the filter flanges. Fitted upright position and allowance should be made to be able to remove the outer body should element replacement be required.

There is a drain in the bottom of the filter to allow the liquid to be drained off and disposed off safely.

4. Maintenance

Before commencing any maintenance, servicing or making other adjustments, the prime mover and other equipment must be isolated to prevent accidental start-up and the system depressurised to atmospheric pressure.

Very little maintenance is required only potentially to clean a blocked element or replace it.

This is limited to cleaning the element and internals when required.

To remove the element it will be necessary to open the filter body by removing the retaining clamp and the outer body can then be removed .

The element can be removed as it is a push fit into the head.

Re-assembly is reverse of dismantling the filter.

5. CLEANING INSTRUCTIONS

(Never use a jet wash on the actual element it will damage the media and will require replacement)

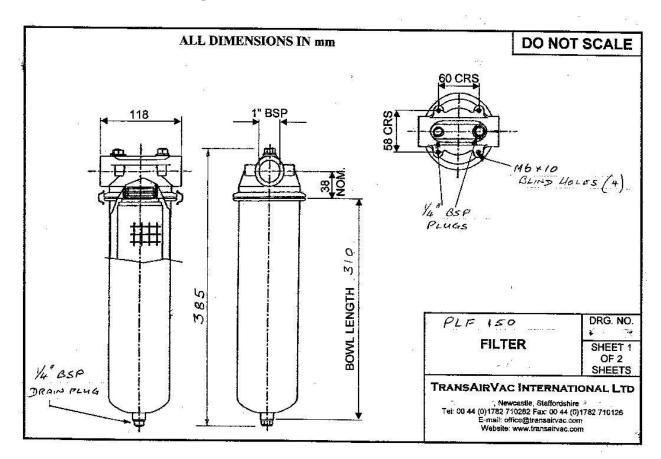
It can be cleaned by blowing compressed air from inside to outside.

Other methods of cleaning can be used including ultrasonic and reverse flow cleaning.

Transairvac have a sperate in detail cleaning instructions about this and is available on request.

If the element is damaged in anyway it will require replacement.

6. Dimensional drawing



7. UK & EU DECLARATIONS OF INCORPORATION

EU DECLARATION OF INCORPORATION



We, Transairvac International Ltd, located at Unit 28 Croft Road Industrial Estate, Croft Road, Newcastle, Staffordshire, ST5 0TW, United Kingdom declare:

- In exclusive responsibility that the PLF150 meets the essential health and safety requirements of the directive(s) detailed below.
- This partly completed machinery must not be out into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of this directive, where appropriate.
- The relevant technical documentation is compiled in accordance with Annex VII part B and, where appropriate, a sentence declaring the conformity of the partly completed machinery with other relevant Directives.
- We undertake to transmit, in response to a reasoned request by the national authorities, relevant information on the partly completed machinery.

To ensure safety, the product has been assessed for compliance with the following directives and standards, either in part or in full.

EN 60204-1: 2018

Directive	Requirements and / or Standards applied
Pressure Equipment Directive	Group II Gases, Article 4, Para 3
2014/68/EU	Category SEP, Pipeline accessories

Machinery Directive 2006/42/EC

Product type	Pressure Line Air Filter PLF150
Part number	PLF150 (each element carries a unique build number)
Product Group	Gas Group II only (Air)
Flow	50-200 m³/hr
Pressure	Working 2.5 barg max 3 barg rated
Temperature	-30°C to + 150°C
Specification	5 micron absolute particle size
Application	To remove particles for pneumatic conveying air for air quality criteria from silo tanker delivery
Marketplace	Bulk Liquid road transport delivery vehicle (only).

TCF reference no: TCF2023/PLF

Name: Mitchell Hill, BEng Date: 30th September 2024

Title: Technical Director Signature:

UK DECLARATION OF INCORPORATION



We, Transairvac International Ltd, located at Unit 28 Croft Road Industrial Estate, Croft Road, Newcastle, Staffordshire, ST5 0TW, United Kingdom declare:

- In exclusive responsibility that the **PLF150** meets the essential health and safety requirements of the directive(s) detailed below.
- This partly completed machinery must not be out into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of this directive, where appropriate.
- The relevant technical documentation is compiled in accordance with Annex VII part B and, where appropriate, a sentence declaring the conformity of the partly completed machinery with other relevant Directives.
- We undertake to transmit, in response to a reasoned request by the national authorities, relevant information on the partly completed machinery.

To ensure safety, the product has been assessed for compliance with the following directives and standards, either in part or in full.

Directive	Requirements and / or Standards applied
Pressure Equipment (Safety)	Sound Engineering Principles
Regulations S.I.2016:1105	Cat 1, Module
Supply of Machinery (Safety) Regulations 2008	BS EN 60204-1: 2018

Product type	Pressure Line Air Filter PLF150
Part number	PLF150 (each element carries a unique build number)
Product Group	Gas Group II only (Air)
Flow	50-200 m ³ /hr
Pressure	Working 2.5 barg max 3 barg rated
Temperature	-30°C to + 150°C
Specification	5 micron absolute particle size
Application	To remove particles for pneumatic conveying air for air quality criteria from silo
	tanker delivery
Marketplace	Bulk road transport delivery vehicle (only) mainly EU sales

TCF reference no: TCF2023/PLF

Name: Mitchell Hill, BEng Date: 30th September 2024

Title: Technical Director Signature: