

INSTALLATION, REGULATION & MAINTENANCE INSTRUCTIONS

AISI316 Filter with borosilicate bowl - 1/4"NPT

1. INTRODUCTION

Throughout this manual there are a number of HAZARD WARNINGS that must be read and adhered to in order to prevent possible personal injury and/or damage to equipment. Three signal work "DANGER", "WARNING" and "CAUTION" are used to indicate the severity of a hazard, and are preceded by the safety alert symbol.

⚠ Danger Denotes the most serious hazard and is used when serious injury or death WILL result from misuse or failure to follow specific instructions.

⚠ Warning Used when serious injury or death MAY result from misuse or failure to follow specific instructions.

⚠ Caution Used when injury or product/equipment damage may result from misuse or failure to follow specific instructions.

⚠ Caution It is the responsibility and duty of

⚠ Warning all personnel involved in the installation,

⚠ Danger operation and maintenance of the equipment on which this device is used, to fully understand the procedures by which hazards can be avoided.

The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Only personnel with appropriate training should operate machinery and equipment.

Do not service or attempt to remove the machinery or equipment until safety is confirmed.

2. DESCRIPTION

Before you can feed a plant with a gaseous fluid, it must be processed to remove contaminants such as water and oil particles, dirt and is also necessary to reduce the pressure to the level required by the equipment downstream.

- Filters are designed to remove airborne solid and liquid contaminants which may plug small orifices and hinder performance or cause excessive wear and premature equipment failure.

3. OPERATION

In these devices, the fluid is forced to pass through a porous element as to block, and in a second time remove, any impurities such as foreign bodies of different sizes, water, oil. The porous element is enclosed in a container that is used to collect all the impurities and that eliminate them using a drain connection.

4. PNEUMATIC DIAGRAM



5. TECHNICAL FEATURES

Medium: compressed air or inert gases

Port thread: 1/4" NPT

Filtration: : 5, 25, 40 micron, coalescing

Max inlet pressure: 10 bar

Drain valve: manual, 1/8"NPT connection

Materials: Body and internal parts - SS316L

Filter element - SS316

Bowl: borosilicate

MATERIAL	TEMPERATURE		
SEALS	TRANSPORT	STORAGE	OPERATING
FKM	-30°C...+180°C	-30°C...+180°C	-30°C...+180°C

6. TRANSPORTATION & STORAGE

The preferred storage location is a clean, dry and protected warehouse. If the components have to be stored outside, precautions should be taken to keep valves clean and dry. For storage temperatures, refer to the table in paragraph "TECHNICAL FEATURES".

To avoid contamination of impurities during the storage just

don't remove thread protection caps; remove them just before the installation phase.

7. INSTALLATION

⚠ Warning Before performing any work, read this manual and study all figures. Assure yourself that you understand and you can do what is required in each step. Failure to follow these instructions may affect quick release valve operation and may result in exposure to personal injury.

Before installing the valve, set and block the machine or equipment in a secure position; close the air shutoff valve and exhaust air from air lines and disconnect all electrical power.

- Upstream of lubricators and cycling valves
- As close as possible to the air supply when used as a main line filter
- As close as possible to the device being serviced when used as a final filter

9. TESTING

Connect the filter to the system using suited fittings. Apply inlet pressure and check possible leakages.

10. MAINTENANCE

⚠ Warning Before performing any work, read this manual and study all figures. Assure yourself that you understand and can do what is required in each step. Failure to follow these instructions may affect quick release valve operation and may result in exposure to personal injury.

Before uninstalling the valve, set and block the machine or equipment in a secure position; close the air shutoff valve and exhaust air from air lines; disconnect all electrical power.

- Filter can be disassembled without removal from air line.
- Shut off inlet pressure. Reduce pressure in inlet and outlet lines to zero.
- Disassemble in general accordance with the item numbers on exploded view. Do not remove the drains unless replacement is necessary. Remove and replace drains only if they malfunction.

A. Ordinary maintenance

⚠ Caution The F should be periodically checked for proper functioning:

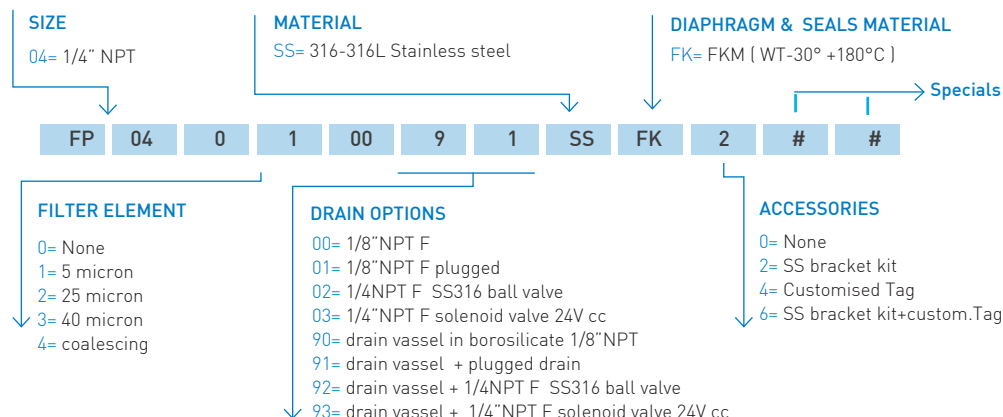
- Clean from impurities and dirt;
- Visually check of the integrity of the body and cup
- Check that there aren't leakages;
- Check the correct functionality;
- For manual drain models, regularly open drain to expel accumulated liquids. Keep liquids below filter element;
- Clean or replace filter element when dirty.

B. Troubleshooting

Issue	Possible Cause	Fixes
leakage between body and lower cup	Seal damage	replace the gasket (4) or contact SITECNA technical support for more information

After replacing repeat "TESTING" phase

HOW TO ORDER

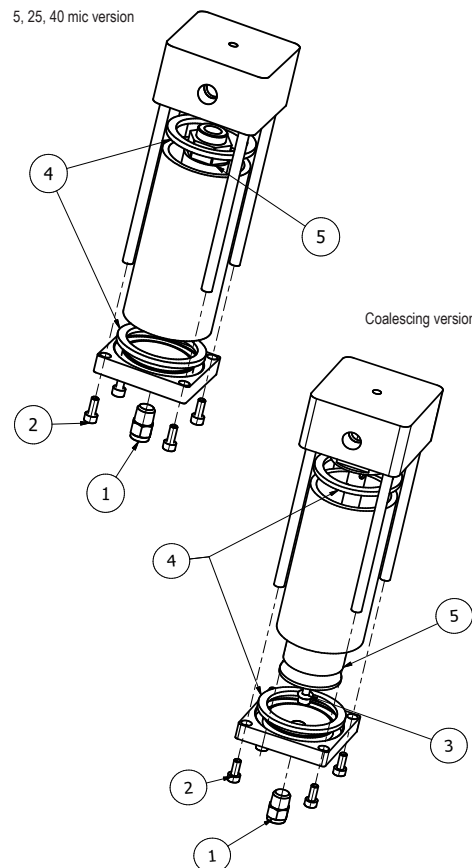


C. Assembly/Disassembly

- Assemble the unit as shown on the exploded view
- Disassemble the item unscrewing four M5 (2)
- Remove the borosilicate bowl
- Remove the dirty filter element (5) and both gaskets (4)
- Replace the items supplied with kit and reassemble

PART LIST

5, 25, 40 mic version



Pos.	Q.ty	Descrizione/Description
1	1	1/8" PLUG
2	4	SCREW
3	1	SCREW
4	2	GASKET
5	1	FILTER ELEMENT

REPAIRING KIT

Contains: 4, 5



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Dichiarazione di conformità UE

In accordo con la Direttiva Europea 2014/34/UE

EU-Declaration of Conformity

In accordance with Directive 2014/34/EU

Noi, Sitecna Srl, dichiariamo che i seguenti prodotti / Sitecna Srl declares that the following equipment:

Product	mod.	Product	mod.	Product	mod.
Filter	F	Control spool valve	DP	Vacuum pump	ST-VP
Regulator	R	Poppet Valves	EP	Silencer	SLHF, SLVP, SLSC
Filter Regulator	FR	Quick exhaust valve	VSR	Dust excluder	PV, PVSL
Back Pressure valve	BP	Lock-up valve	LK	Pressure gauge	MBSS, MBS6, MBSN
2 ways switching valve	SV	Overload protector	SCLP	Vacuum pump	ST-VP
3 ways switching valve	S3	Flow regulator	RF	Ball valve	VS
Volume Booster	VB	Tee Filter	TF		

Sono conformi alla normativa di armonizzazione dell'Unione / They comply with the Union harmonization legislation:

Direttiva 2014/34/UE ATEX	Direttiva 2014/34/UE del Parlamento europeo e del Consiglio, del 26 febbraio 2014, concernente l'armonizzazione delle legislazioni degli Stati membri relative agli apparecchi e sistemi di protezione destinati a essere utilizzati in atmosfera potenzialmente esplosiva (rifusione) Testo rilevante ai fini del SEE.
	Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres (recast) Text with EEA relevance.

Secondo le seguenti Norme di riferimento / As per following reference Normative Documents:

EN ISO 80079-36:2016	Atmosfere esplosive - Apparecchi non elettrici per atmosfere esplosive - Metodo di base e requisiti
	Explosive atmospheres - Non-Electrical equipment for explosive atmospheres - Basic method and requirements
EN ISO 80079-37:2016	Atmosfere esplosive - Apparecchi non elettrici per atmosfere esplosive - Tipo di protezione non elettrica per sicurezza costruttiva "c", per controllo della sorgente di accensione "b", per immersione in liquido "k"
	Explosive atmospheres - Non-Electrical equipment for explosive atmospheres - Non-electrical type of protection constructional safety "c", control of ignition sources "b", liquid immersion "k"
N 1127-1:2019	Atmosfere esplosive - Prevenzione dell'esplosione e protezione contro l'esplosione - Concetti fondamentali e metodologia
	Explosive atmospheres - Explosion prevention and protection - Basic concepts and methodology

Ai sensi della Direttiva 2014/34/EU, i prodotti sopra indicati riportano la seguente marcatura / According to the Directive 2014/34/EU, above mentioned products reports the following marking:



II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X

Inoltre, ai sensi della direttiva 2014/34/UE, i prodotti sopra menzionati sono oggetto, per gli aspetti relativi sia alla progettazione sia alla fabbricazione, al controllo interno di fabbricazione (Allegato VIII – Modulo A). **Ref 557/Ex-Ab 3213/20 c/o N° 0035 TÜV Rheinland.**

In conformity to Directive 2014/34/EU, the afore mentioned equipment, regarding their design and production, are object to internal manufacturing check (Attachment VIII – Module A). **Ref 557/Ex-Ab 3213/20 c/o N° 0035 TÜV Rheinland.**

La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante.

This declaration of conformity is issued under exclusive responsibility of the manufacturer.

Milan, 08/02/2022
Davide Matteo De Corrado
Managing Director

