

F22H

Stainless steel, oil removal (coalescing) filters



- > Port size: 1/2 PTF
- > 316 Stainless steel construction for use in corrosive environments
- > Provides high efficiency oil and particle removal
- > Large filter element area for high flow and minimum pressure drop
- > Metallic parts meet NACE*
- > Automatic drain is operated by liquid level and also opens upon depressurization
- > Optional service life indicator turns from green to red when the filter element needs to be replaced

* National Association of Corrosion Engineers (NACE) MR-01-75 defines requirements for sulphide stress cracking resistant materials used in well-head and other corrosive environments.



Technical features

Medium:

Compressed air,
Hydrocarbon gas*

* Confirm compatibility with materials of construction. Use in gas applications must be in a well vented or outdoor area. Products are designed with an allowable leakage and should only be used within the specifications printed on the data sheet or the product label for pressure, temperature, etc. It is the responsibility of the user to apply the product in a safe environment free from potential fire or explosive materials or components. Norgren will not be responsible for any injury or damage caused by the use of the product in an unsafe application.

Air quality:

Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content)

Maximum remaining oil content in outlet air:
0,01 ppm at 20°C (-4°F) with an inlet concentration of 12 ppm.

Operating pressure:
17 bar (246 psi) max

Particle removal:
Down to 0.01 µm

Installation:
Install an F22 filter with 5 µm element upstream of the F22H for optimum coalescing element life.

Port sizes:
1/2 PTF

Automatic drain operating conditions (float operated):

Bowl pressure required to close drain: Greater than 0.3 bar (0,4 psi)

Bowl pressure required to open drain: Less than 0.2 bar (0,3 psi)

Minimum air flow required to close drain: 1 l/s

Nominal bowl size:
0,24 liter

Ambient/Media temperature:
-20 ... +80°C (-4 ... +176°F)



Air supply must be dry enough to avoid ice formation at temperatures below +2°C(+35°F).

Materials:

Body & bowl: 316 stainless steel
Filter element: Stainless steel, synthetic fiber, EPDM, polyester
Bowl sight glass: Pyrex
Elastomers: NBR
Manual drain: 316 Stainless steel, NBR
Automatic drain: 316 Stainless steel, Nylon, Acetal, NBR

Service life indicator (factory option)
Body: 316 Stainless steel
Lens: Transparent nylon
Internal parts: Acetal
Spring: 18-8 Stainless steel
Elastomers: NBR

Technical data, standard model

Symbol	Port size	Flow *1) (dm ³ /s)	Drain	Service life indicator	Weight (kg)	Model
	1/2 PTF	35,4	Manual	None	2,27	F22H-4AN-MDO
	1/2 PTF	35,4	Manual	Visual	2,38	F22H-4AD-MDO
	1/2 PTF	35,4	Automatic	None	2,35	F22H-4AN-TDO
	1/2 PTF	35,4	Automatic	Visual	2,46	F22H-4AD-TDO

*1) Maximum flow with at 6,3 bar inlet pressure to maintain stated oil removal performance

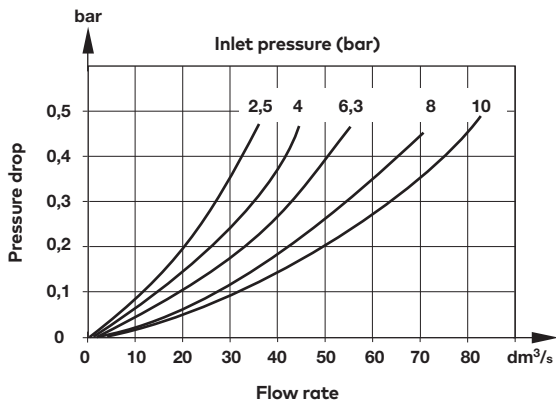
Option selector

F22H-4A★-★DO

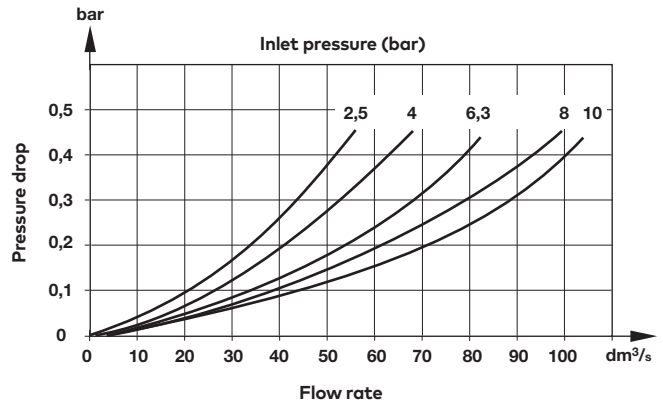
Service life indicator	Substitute	Drain	Substitute
None	N	Manual	M
Visual	D	Automatic	T

Flow characteristics

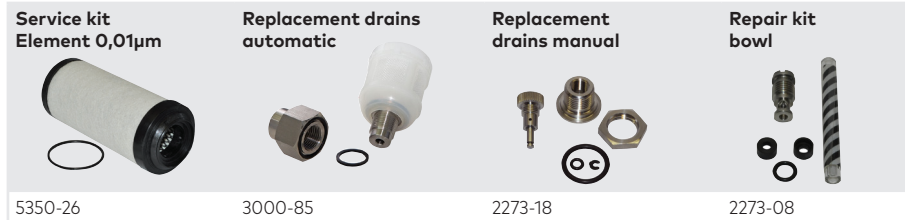
Element: saturated



Element: dry



Spares kit, spares

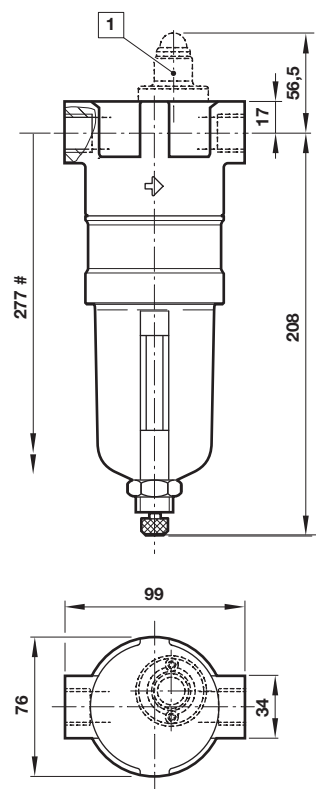


Accessories

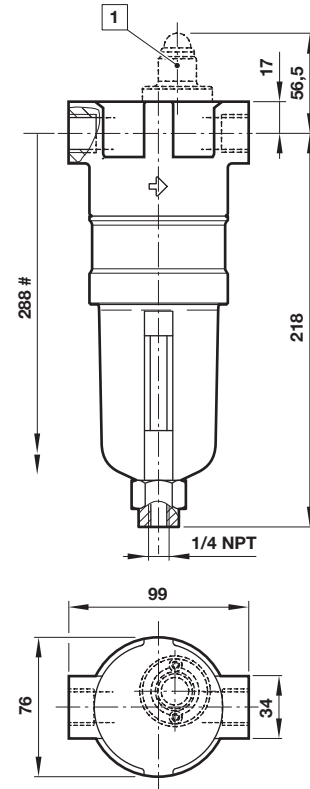


Dimensions

Manual drain

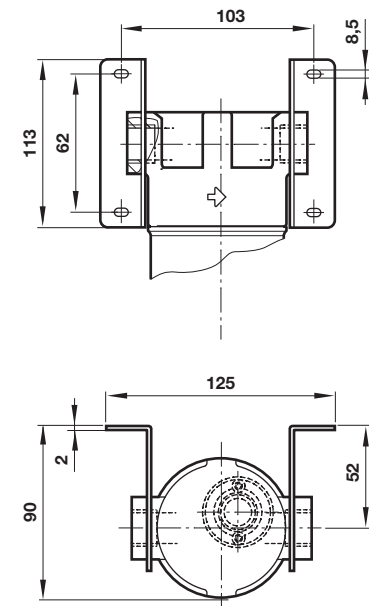


Automatic drain



Wall mounting bracket

Dimensions in mm
Projection/First angle



Minimum clearance required to remove bowl
 1 Service life indicator is a factory installation option

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under

»Technical features/data«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.