

FR314MC – FR318MC

Stainless steel AISI 316L filter regulator
for air, gas and liquids



FEATURES

Filter regulator for inlet pressure up to 30 bar (435 psi).

Connections 1/4"-F and 1/8"-F.

Outlet pressure is controlled by a rubber diaphragm.

Grade of filter cartridge: 5 µm or 50 µm.

Manual drain SM.

The product complies with the directive 97/23/EC PED.

SPECIFICATIONS

Peso: ~0,6 Kg (~1,3 lb)

Standard version operating temperature: -20°C ÷ +60°C (-4°F ÷ 140°F)

Main valve leakage classification: VI (bubble tight)

Degree of protection: IP25

Bowl capacity: 30 cc (1 fluid ounce)

G1/8 ports for outlet pressure gauge

Overpressure relieving function (not for gas and liquids)

MATERIALS

Body and bonnet: stainless steel AISI 316L

Internal parts: stainless steel AISI 316L

Filter cartridges 5 and 50 µm: stainless steel AISI 316L

Main valve spring: stainless steel AISI 302

Adjusting spring: stainless steel AISI 302 (not in contact with the fluid)

Diaphragm: two coupled diaphragms NBR+PTFE, PTFE in contact with the fluid

O-Rings: FPM (other compounds available on request)

Main valve gasket: PUR

ACCESSORIES

Ring-nut P35021030304

Kit bracket and ring-nut: M14301

No relieving version

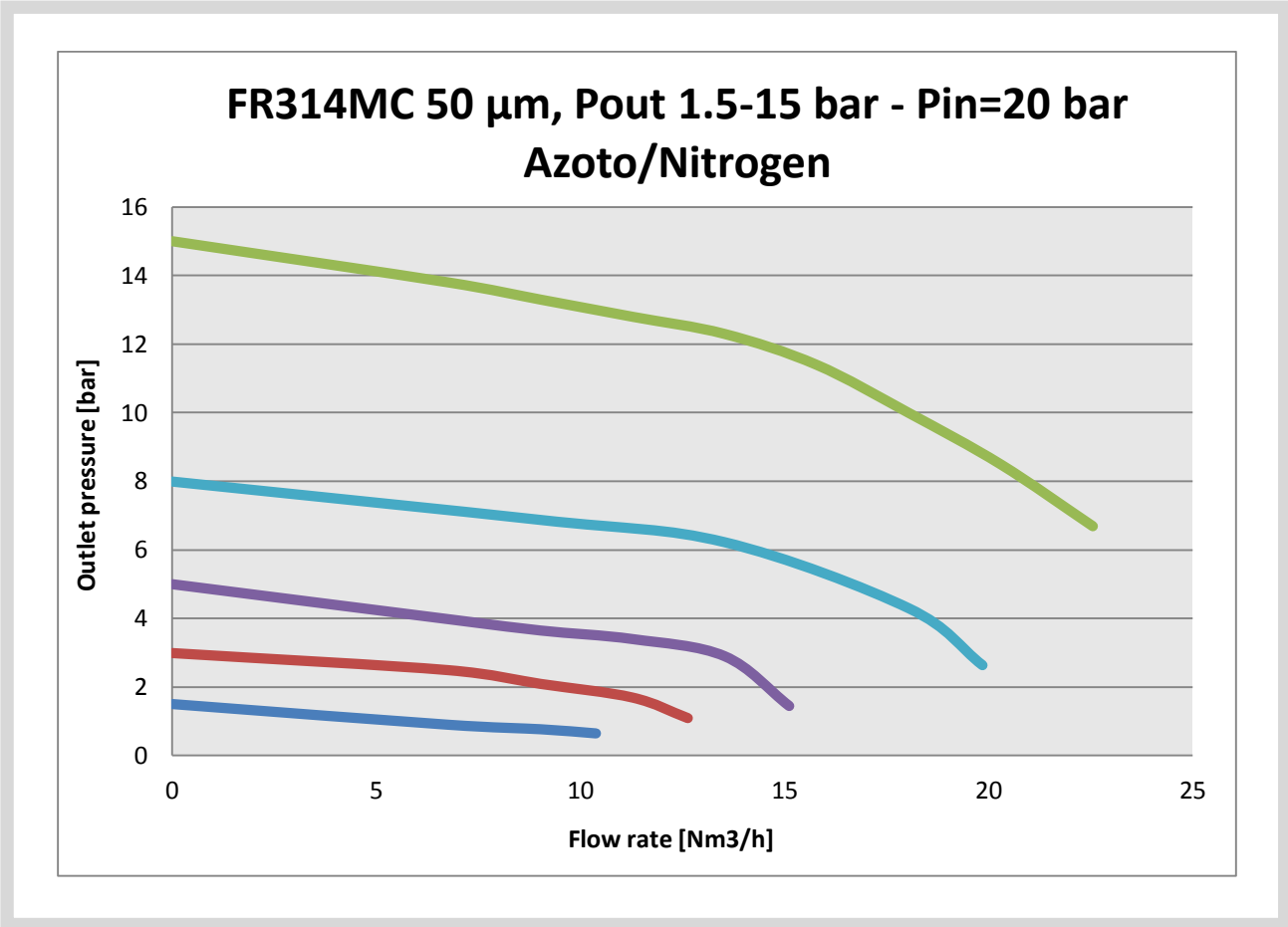
SPARE PARTS

Gauges

Filter cartridges

Complete kit: filter cartridge, O-rings, complete main valve

flow chart



available model types

Filtri/Regolatori Filters/Regulators

Filtri/regolatori per media pressione (max 30/50 bar) in acciaio inox 316 L
Medium pressure filters/regulators (max 30/50 bar) of stainless steel 316 L
Corpo e tazza da lavorazione di barra/ Body and bowl by machining bar

| TYPE | PS bar | P.Out bar | CONNECTIO N IN/OUT | FILTRATION RATE | BOWL | DRAIN | RELIEVIN G | CODE | MEDIUM |
|-----------|--------|-----------------|--------------------------|--------------------|-------|-------|---------------|--------|-----------------|
| | | | | | | | | | FR314 MC |
| FR 314 MC | 30 | 0,8-8 1,5-15 | G 1/4-F | 50 µm | 30cc | SM | S | 443#N0 | Aria |
| | | | | | | | | | FR318 MC |
| FR 318 MC | 30 | 0,8-8 1,5-15 | G 1/8-F | 50 µm | 30 cc | SM | S | 443#M0 | Aria |

SM= Scarico Manuale / Manual Drain

ATTACCHI DIVERSI DA STANDARD / CONNECTION DIFFERENT FROM STANDARD

Attacchi entrata/uscita NPT / Inlet/outlet connections NPT

ESECUZIONI DIVERSE DA STANDARD / EXECUTIONS DIFFERENT FROM STANDARD

Pressione entrata 50 bar / Inlet pressure 50 bar

Pressione uscita P.out diversa da standard / Outlet pressure different from standard

Versione non Relieving / Non Relieving execution

Versione per Gas / Execution for gas different from Air

Convogliamento su campana / Connection for bonnet piping

Esecuzione con filtrazione 5 micron / Filtration rate 5 micron

O-ring secondo FDA / O-ring according to FDA

O-ring diversi da standard - EPDM / O-ring different from standard - EPDM

Stampigliatura su specifica del cliente / Not standard branding

Temperatura diversa da standard / Temperature different from standard

ACCESSORI / ACCESSORIES

Ghiera P35021030304 / Ring nut P35021030304

Kit staffa + ghiera M14301 / Kit bracket + Ring nut M14301

generating the product code

| FR318-314MC AISI 316 L | | | |
|------------------------|----------------------------------|----|-----------------------------------|
| AA BB CC D E FF | | | |
| AA | Attacchi / Connections | M0 | FR318MC G 1/8-F |
| | | N0 | FR314MC G 1/4-F |
| BB | Tazza / Bowl | 14 | Tazza da barra 30cc - SM - 30 bar |
| CC | Intervallo uscita / Outlet range | D0 | Pout 0,8 - 8 bar |
| | | E0 | Pout 1,5 - 15 bar |
| D | Filtrante / Filter | C | 5µm AISI 316L |
| | | H | 50µm AISI 316L |
| E | Marchiato / Marked | I | ID |
| FF | Accessori / Accessories | 00 | Nessun accessorio |

CODE COMPOSITION EXAMPLE

443# M0 14 D0 H I 00

443#: Filter regulator stainless steel MC

M0: FR318 MC connection G1/8-F

14: Bowl 30 cc, manual drain, maximum inlet pressure 30 bar

D0: Outlet pressure range 0,8-8 bar

H: Filtration 50 µm

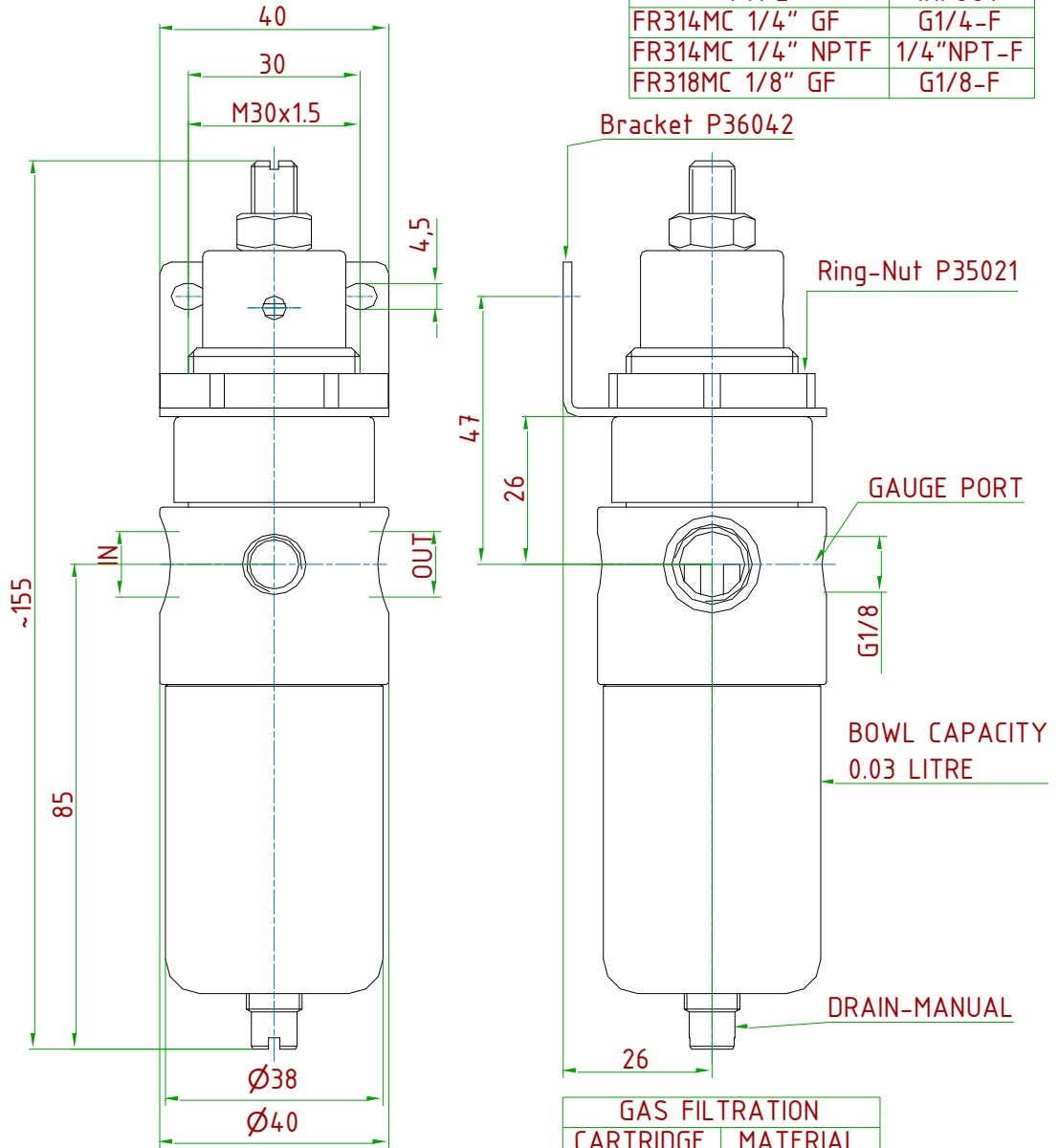
I

00: No accessories

technical drawing (all dimensions in mm)

Bracket to be ordered separately: Kit order number M14301

| TYPE | IN/OUT |
|-------------------|-----------|
| FR314MC 1/4" GF | G1/4-F |
| FR314MC 1/4" NPTF | 1/4"NPT-F |
| FR318MC 1/8" GF | G1/8-F |



GAUGE PORT

BOWL CAPACITY
0.03 LITRE

DRAIN-MANUAL

| GAS FILTRATION | |
|----------------|-----------|
| CARTRIDGE | MATERIAL |
| 5 µm | AISI 316L |
| 50 µm | AISI 316L |

PS 30 bar/P.out 0.2÷1.5/0.3÷3/0.5÷5/0.8÷8/1.5÷15 bar

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FILTER REGULATOR_443(FR314MC-FR318MC)_EN_00



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