

# 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  $\mu\text{m}$  or 50  $\mu\text{m}$ .

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

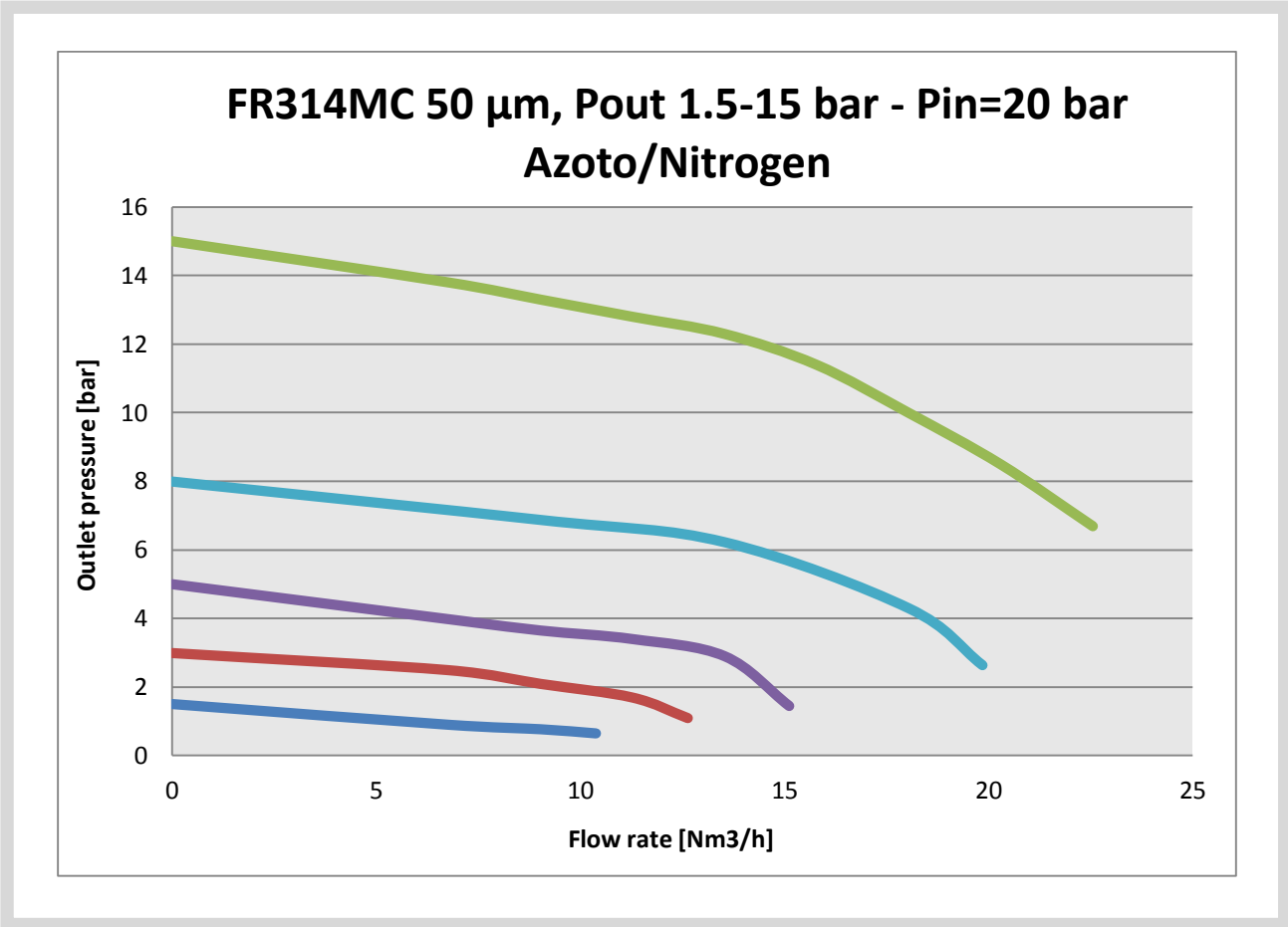
## **SPARE PARTS**

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
									<b>FR314 MC</b>
FR 314 MC	30	0,8-8 1,5-15	G 1/4-F	50 µm	30cc	SM	S	443#N0	Aria
									<b>FR318 MC</b>
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

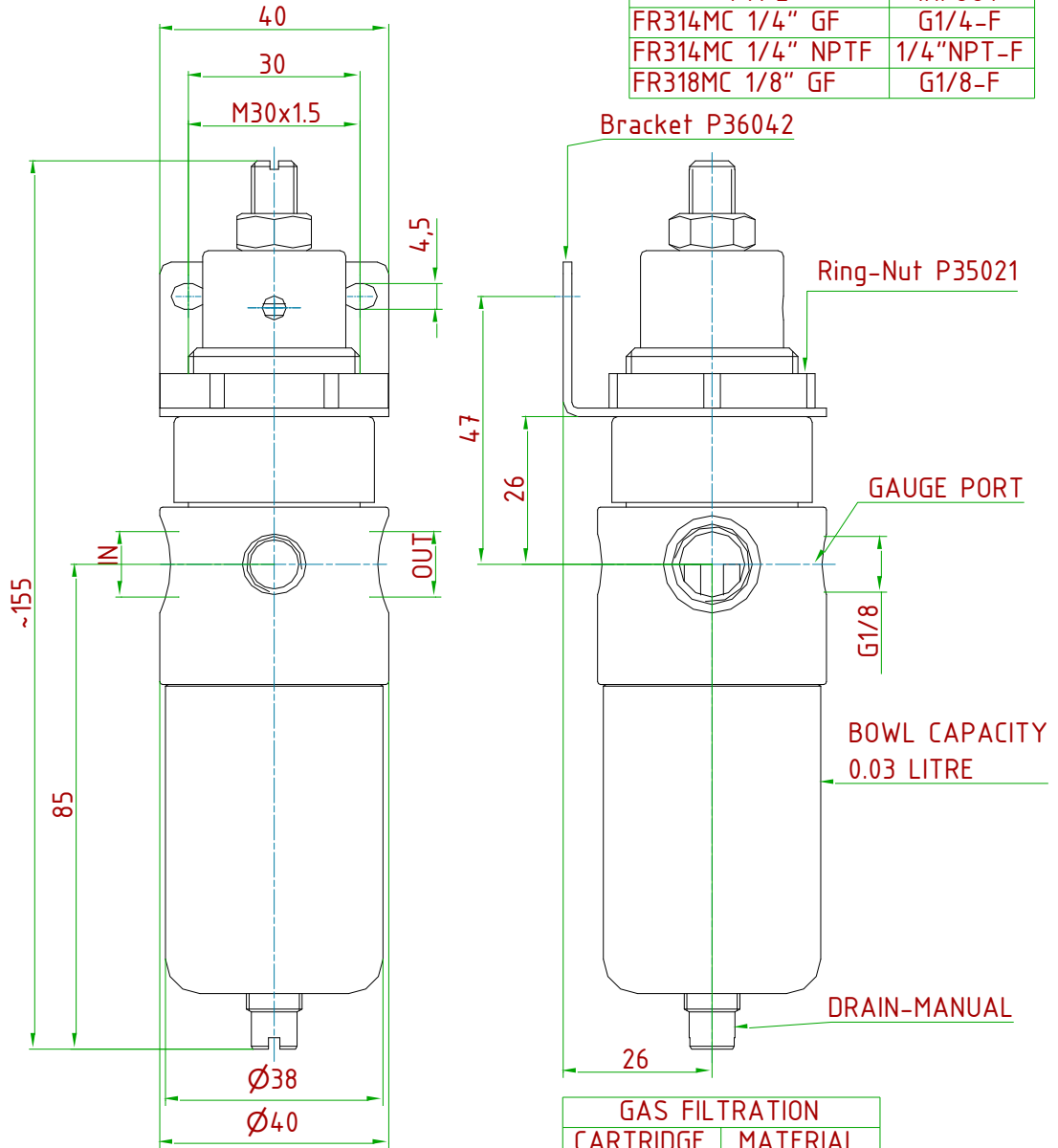
**I**

**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



Ring-Nut P35021

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

## **ID Insert Deal Srl**

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**FILTER REGULATOR\_443(FR314MC-FR318MC)\_EN\_00**



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