

# R3123

Stainless steel AISI 316L pressure regulator,  
for compressed air, gas and liquid



## FEATURES

Pressure regulator for inlet pressure up to 60 bar (870 psi) in the standard version.

Connections by flanges screwed to the body:

G 1-1/4-F;

G 1-F;

1-1/4"NPT-F;

1"NPT-F

Connections with EN or ASME flanges available on request.

Outlet pressure, up to 15 bar (218 psi), is controlled by a rubber diaphragm; greater outlet pressures are controlled by a piston. Balanced main valve.

Available the ATEX version.

Brand  II2GDcllCX.

For use in potentially explosive atmospheres zones: 1, 21, 2, 22 (not applicable in mines and zone 0).

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

## **SPECIFICATIONS**

Weight R3123: diaphragm model ~10.2 kg (~22.5 lb), piston model ~10.6 kg (~ 23.4 lb)

Operating temperature: -20°C ÷ +80°C (-4 °F ÷ +176 °F) for standard version

Main valve leakage classification: VI (bubble tight)

Flow coefficient:  $K_v = 6 \text{ Nm}^3/\text{h}$   $C_v = 7 \text{ US gal/min}$

Degree of protection: IP25

G 1/4 or 1/4" NPT gauge port on both sides by flanges screwed to the body.

## **MATERIALS**

Body and bonnet: stainless steel AISI 316L

Internal parts: stainless steel AISI 316L

Main valve spring: stainless steel AISI 302

Adjusting spring: C85 nickel-plated NiP/Fe 15 µm, not in contact with the fluid

Diaphragm: NBR+PTFE

Piston: stainless steel AISI 316L

Gaskets: FPM or EPDM depending on the fluid (different compounds available on request)

## **ACCESSORIES**

Pilot operated version, pressure setpoint to be controlled by a pilot regulator

Wall mounting bracket: P36107030304

Overpressure relieving function (only for compressed air versions)

Gauge for outlet pressure

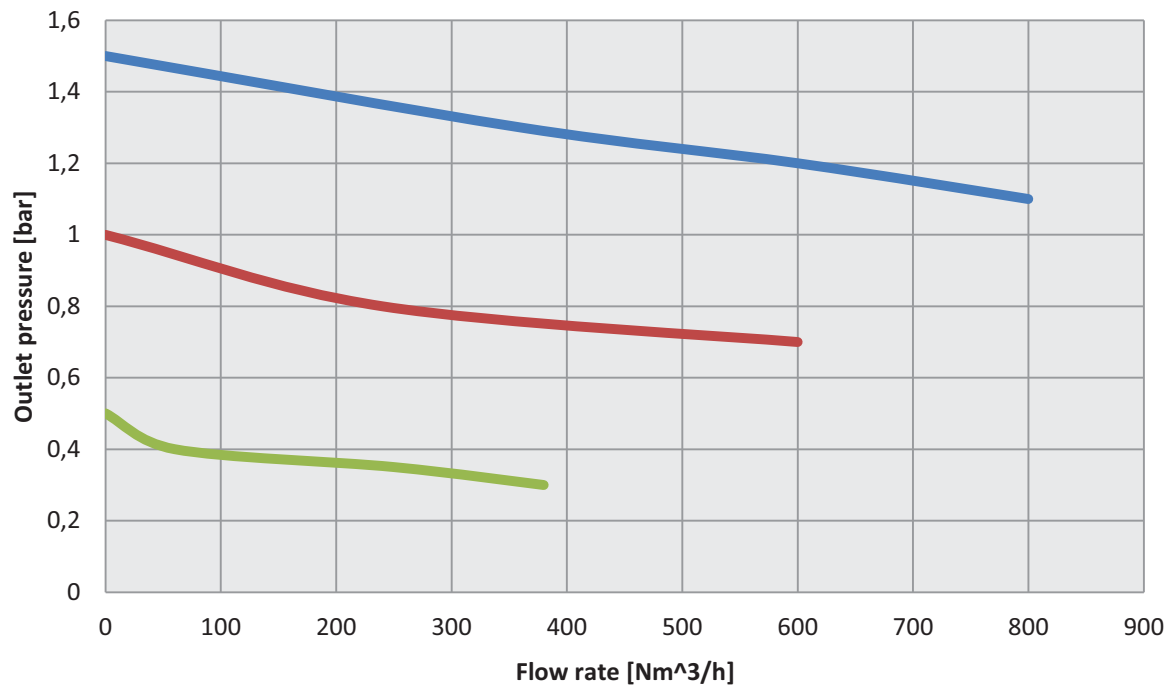
## **SPARE PARTS**

Gauges

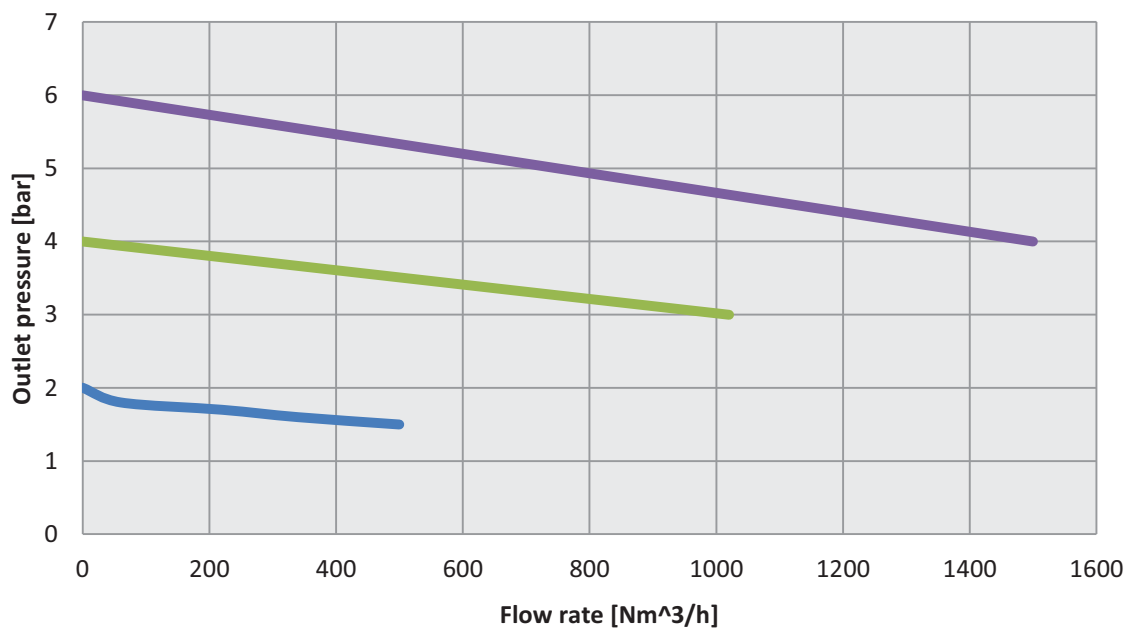
Complete kit: net filter, complete main valve, O-rings, assembled diaphragm.

## flow charts

### R3123 Pout 0,2÷1,5 bar - Pin=10 bar - Aria/Air



### R3123 Pout 0,8÷8 bar - Pin=10 bar - Aria/Air



## available model types

### Regolatori di pressione per media pressione Pressure regulators for medium pressure

Regolatori di pressione per media pressione in acciaio inox,  
idonei per aria compressa e gas tecnici non corrosivi e liquidi  
Pressure regulators for medium pressure, made of stainless steel,  
for compressed air and technical, non corrosive gases and liquid

Corpo e campana da lavorazione di barra-NO manometro / Body by machining bar-Without gauge

TYPE	PS bar	P.Out bar	CONNECTION IN	CONNECTION OUT	GAUGE CONNECTION	CODE	MEDIUM
							<b>R3123</b>
R3123	15	0,2-1,5	G 1-F G 1-1/4 -F	G 1-F G 1-1/4 -F	G 1/4-F G 1/4-F	3123#	NH3
	60	0,2-1,5	1" NPT-F 1"1/4 NPT-F	1" NPT-F 1"1/4 NPT-F	1/4"NPT-F 1/4"NPT-F	3123#	O2
							Liquid
							*
Air - Relieving							
R3123	15	0,3-3	G 1-F G 1-1/4 -F	G 1-F G 1-1/4 -F	G 1/4-F G 1/4-F	3123#	NH3
	60	0,3-3	1" NPT-F 1"1/4 NPT-F	1" NPT-F 1"1/4 NPT-F	1/4"NPT-F 1/4"NPT-F	3123#	O2
							Liquid
							*
Air - Relieving							
R3123	60	0,8-8	G 1-F G 1-1/4 -F 1" NPT-F 1"1/4 NPT-F	G 1-F G 1-1/4 -F 1" NPT-F 1"1/4 NPT-F	G 1/4-F G 1/4-F 1/4"NPT-F 1/4"NPT-F	3123#	O2 Liquid * Air - Relieving
R3123	60	1,5-15	G 1-F G 1-1/4 -F 1" NPT-F 1"1/4 NPT-F	G 1-F G 1-1/4 -F 1" NPT-F 1"1/4 NPT-F	G 1/4-F G 1/4-F 1/4"NPT-F 1/4"NPT-F	3123#	O2 Liquid * Air - Relieving
R3123	60	3-30	G 1-F G 1-1/4 -F 1" NPT-F 1"1/4 NPT-F	G 1-F G 1-1/4 -F 1" NPT-F 1"1/4 NPT-F	G 1/4-F G 1/4-F 1/4"NPT-F 1/4"NPT-F	3123#	O2 Liquid * Air - Relieving
R3123	60	5-50	G 1-F G 1-1/4 -F 1" NPT-F 1"1/4 NPT-F	G 1-F G 1-1/4 -F 1" NPT-F 1"1/4 NPT-F	G 1/4-F G 1/4-F 1/4"NPT-F 1/4"NPT-F	3123#	O2 Liquid * Air - Relieving

\* Aria - N2 - He - Ar - H2 - C3H8 - CH4 - CO2 - N2O

#### ATTACCHI DIVERSI DA STANDARD / CONNECTION DIFFERENT FROM STANDARD

Attacchi flangiati / Connections with flanges

Attacchi entrata/uscita G 3/4-F / Inlet/outlet G 3/4-F connections

Attacchi entrata/uscita 3/4 NPT / Inlet/outlet 3/4 connections NPT

#### ESECUZIONI DIVERSE DA STANDARD / EXECUTIONS DIFFERENT FROM STANDARD

Pressione uscita pretarata / Pre-set outlet pressure

Pressione uscita tarata fissa, vite con dado cieco / Fixed outlet pressure, screw with cap nut

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

O-ring secondo FDA / O-ring in accordance to FDA

Convogliamento su campana / Venting on bonnet

Stampigliatura su specifica del cliente / Not standard branding

Versione Relieving / Relieving version

Versione ATEX / ATEX version

Temperature diverse da standard / Special temperature range

Sgrassato uso O2 / Degreased for O2

Manometro per pressione di uscita / Gauge for outlet pressure

#### ACCESSORI / ACCESSORIES

Staffa P36107030304 / Bracket P36107030304

## generating the product code

Regolatore 2° stadio R3123 AISI 316L			
AA BB CC DD E F GG			
AA	Attacchi / Connections	J0	G1 1/4-F
		R0	G 1-F
		B0	1 1/4"NPT-F
		Y0	1"NPT-F
BB	Pressione ingresso / Inlet pressure	N0	60 bar
CC	Intervallo uscita - Outlet range	A0	Pout 0,2 - 1,5 bar
		B0	Pout 0,3 - 3 bar
		D0	Pout 0,8 - 8 bar
		E0	Pout 1,5 - 15 bar
		F0	Pout 3 - 30 bar
		G0	Pout 5 - 50 bar
DD	Tipologia di fluido / Fluid type	98	EPDM
		99	FPM
E	Relieving / Relieving	0	Non relieving
		1	Relieving
F	Marchiato / Marked	I	ID
GG	Accessori / Accessories	00	Nessun accessorio
		04	Taratura fissa
		05	Pretarato
		06	Manometro
		08	Sgrassato uso O2
		02	Temperatura -20°C ÷ +200°C

## CODE COMPOSITION EXAMPLE

**3123#R0 N0 D0 99 1 I 00**

**3123#:** Regulator R3123 AISI 316

**R0:** connection G 1-F

**N0:** maximum inlet pressure 60 bar

**D0:** outlet pressure range 0,8-8 bar

**99:** FPM gaskets

**1:** Relieving

**I**

**00:** No accessories

# technical drawings (all dimensions in mm)

