

R123 – R123/34 brass

Brass pressure regulator,
for compressed air, gas and liquid



FEATURES

Pressure regulator for inlet pressure up to 50 bar (725 psi) in the standard version.

Connection ports.

R123 1"-F

R123/34 3/4"-F

Outlet pressure, up to 15 bar (217 psi), is controlled by a rubber diaphragm; greater outlet pressures are controlled by a piston. Balanced main valve.

Available the ATEX version.

Brand  II 2GDc IICX.

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.

Gauge for outlet pressure
(accuracy class 1.6)

SPECIFICATIONS

Diaphragm regulator weight: ~5,7 kg (~12.6 lb)

Piston regulator weight: ~8 kg (~17.6 lb)

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

Main valve leakage classification: VI

Flow coefficient: $K_v = 5.5 \text{ Nm}^3/\text{h}$ $C_v = 6.4 \text{ US gal/min}$

Degree of protection: IP25

G ¼ gauge port on both sides

MATERIALS

Body: brass

Bonnet: aluminium

Internal parts: brass

Main valve spring: stainless steel AISI 302

Adjusting spring: C85 (not in contact with the fluid)

Diaphragm: two coupled diaphragms in NBR and PTFE (PTFE in contact with the fluid)

NBR single diaphragm for relieving version

Piston: brass

O-Ring: NBR/FPM/EPDM (depending on the fluid). Other compounds available on request

Main valve gasket: NBR/FPM/EPDM for inlet pressure up to 30 bar (depending on the fluid).

PUR for greater inlet pressure.

Other compounds available on request.

ACCESSORIES

Pilot-controlled version, outlet pressure controlled by pilot regulator

Wall mounting bracket P36043A21208

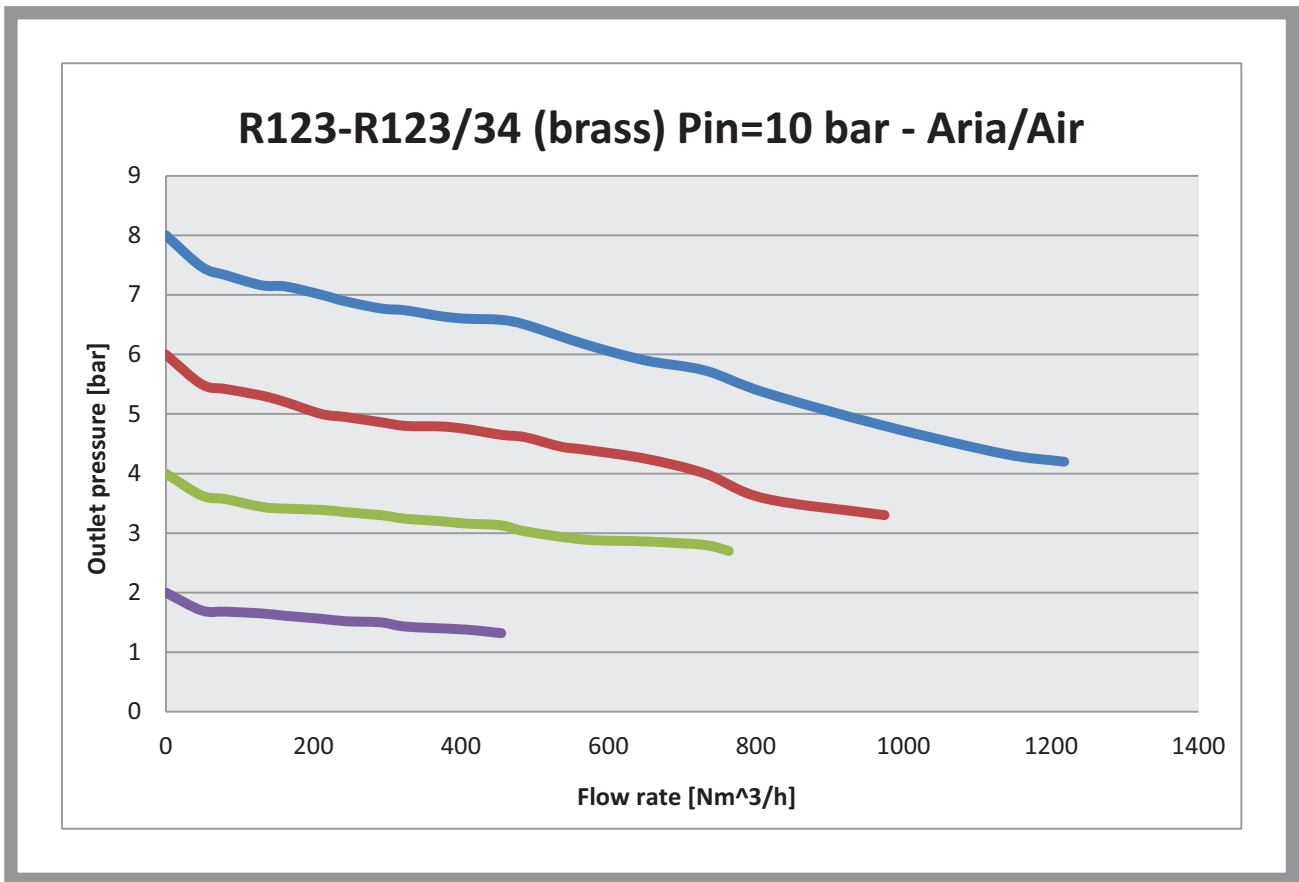
Overpressure relieving function (only for compressed air versions)

SPARE PARTS

Gauge

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

flow charts



available model types

Regolatori di pressione per media pressione Pressure regulators for medium pressure

Regolatori di pressione per media pressione in ottone,
ideali per aria compressa e gas tecnici non corrosivi e liquidi

Pressure regulators for medium pressure, made of brass,
for compressed air and technical, non corrosive gases and liquid

Corpo stampato in ottone e campana da fusione in alluminio / Forged brass body and cast aluminium bonnet

TYPE	PS bar	P.Out bar	CONNECTION IN	CONNECTION OUT	CODE	MEDIUM
						R123
R123 A1	30	0,2-1,5	G 1-F	G 1-F	551#R	O2
						Liquid
						*
						Air - Relieving
R123 B1	30	0,3-3	G 1-F	G 1-F	551#R	O2
						Liquid
						*
						Air - Relieving
R123 C1	30	0,8-8	G 1-F	G 1-F	551#R	O2
						Liquid
						*
						Air - Relieving
R123 E1	30	1,5-15	G 1-F	G 1-F	551#R	O2
						Liquid
						*
						Air - Relieving
R123 F1	50	1,5-15	G 1-F	G 1-F	551#R	O2
						Liquid
						*
						Air - Relieving
R123 G1	50	3-30	G 1-F	G 1-F	551#R	O2
						Liquid
						*
						Air - Relieving
R123 L1	50	5-50	G 1-F	G 1-F	551#R	O2
						Liquid
						*
						Air - Relieving
RP123 E1**	30	1,5-15	G 1-F	G 1-F	551#R	O2
						Liquid
						*
						Air - Relieving
RP123 F1**	50	1,5-15	G 1-F	G 1-F	551#R	O2
						Liquid
						*
						Air - Relieving
RP123 L1**	50	5-50	G 1-F	G 1-F	551#R	O2
						Liquid
						*
						Air - Relieving

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

** Versione pilotata / Dome loaded execution

ATTACCHI DIVERSI DA STANDARD / CONNECTION DIFFERENT FROM STANDARD

Attacchi entrata/uscita 1" NPT-F / Inlet/outlet connections 1" NPT-F

Attacchi flangiati / Connections with flanges

ESECUZIONI DIVERSE DA STANDARD / EXECUTIONS DIFFERENT FROM STANDARD

Pressione ingresso max 60 bar / Inlet pressure max 60 bar

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 - FPM / O-ring different from standard - FPM

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

Convogliamento su campana / Connection for bonnet piping

Cromatura-nichelatura / Chrome-Nichel plating

Stampigliatura su specifica del cliente / Not standard branding

Versione ATEX / ATEX version

Temperature diverse da standard / Special temperature range

Sgrassato uso O2 / Degreased for O2

ACCESSORI / ACCESSORIES

Kit staffa P36043A21208 / Kit bracket P36043A21208

available model types

Regolatori di pressione per media pressione Pressure regulators for medium pressure

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						Liquid
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						*
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						Liquid
						*
						Air - Relieving
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						Liquid
						*
						Air - Relieving
R123/34 G1	50	3-30	G 3/4-F	G 3/4-F	551#Q	O2
						Liquid
						*
						Air - Relieving
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						*
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RP123/34 E1**	30	1,5-15	G 3/4-F	G 3/4-F	551#Q	O2
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RP123/34 F1**	50	1,5-15	G 3/4-F	G 3/4-F	551#Q	O2
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						Air - Relieving

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

** Versione pilotata / Dome loaded execution

ATTACCHI DIVERSI DA STANDARD / CONNECTION DIFFERENT FROM STANDARD

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

Attacchi flangiati / Connections with flanges

ESECUZIONI DIVERSE DA STANDARD / EXECUTIONS DIFFERENT FROM STANDARD

Pressione ingresso max 60 bar / Inlet pressure max 60 bar

Pressione uscita prearata / Pre-set outlet pressure

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

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ACCESSORI / ACCESSORIES

Kit staffa P36043A21208 / Kit bracket P36043A21208

generating the product code

Reg. R123 Ottone			
AA BB CC DD E F GG			
AA	Attacchi / Connections	Q0	R123 OT58 G 3/4-F
		R0	R123 G 1-F ottone
BB	Pressione ingresso / Inlet pressure	D0	30 bar
		E0	50 bar
CC	Intervallo uscita / Outlet range	A0	0,2 - 1,5 bar
		B0	0,3 - 3 bar
		D0	0,8-8 bar
		E0	1,5-15 bar
		F0	3 - 30 bar
		G0	Pout 5 - 50 bar
DD	Tipologia di fluido / Fluid type	15	O2
		97	NBR
		98	EPDM
		99	FPM
E	Pilotato / Pilot operated	n	Non pilotato
		P	Pilotato
F	Marchiato / Marked	I	ID
		Z	Dir ATEX 94/9 CE
GG	Accessori / Accessories	00	Nessun accessorio

CODE COMPOSITION EXAMPLE

551#R0 D0 D0 97 N I 00

551#: R123 brass regulator

R0: connection G 1-F

D0: maximum inlet pressure 30 bar

D0: outlet pressure range 0,8 - 8 bar

97: NBR gaskets

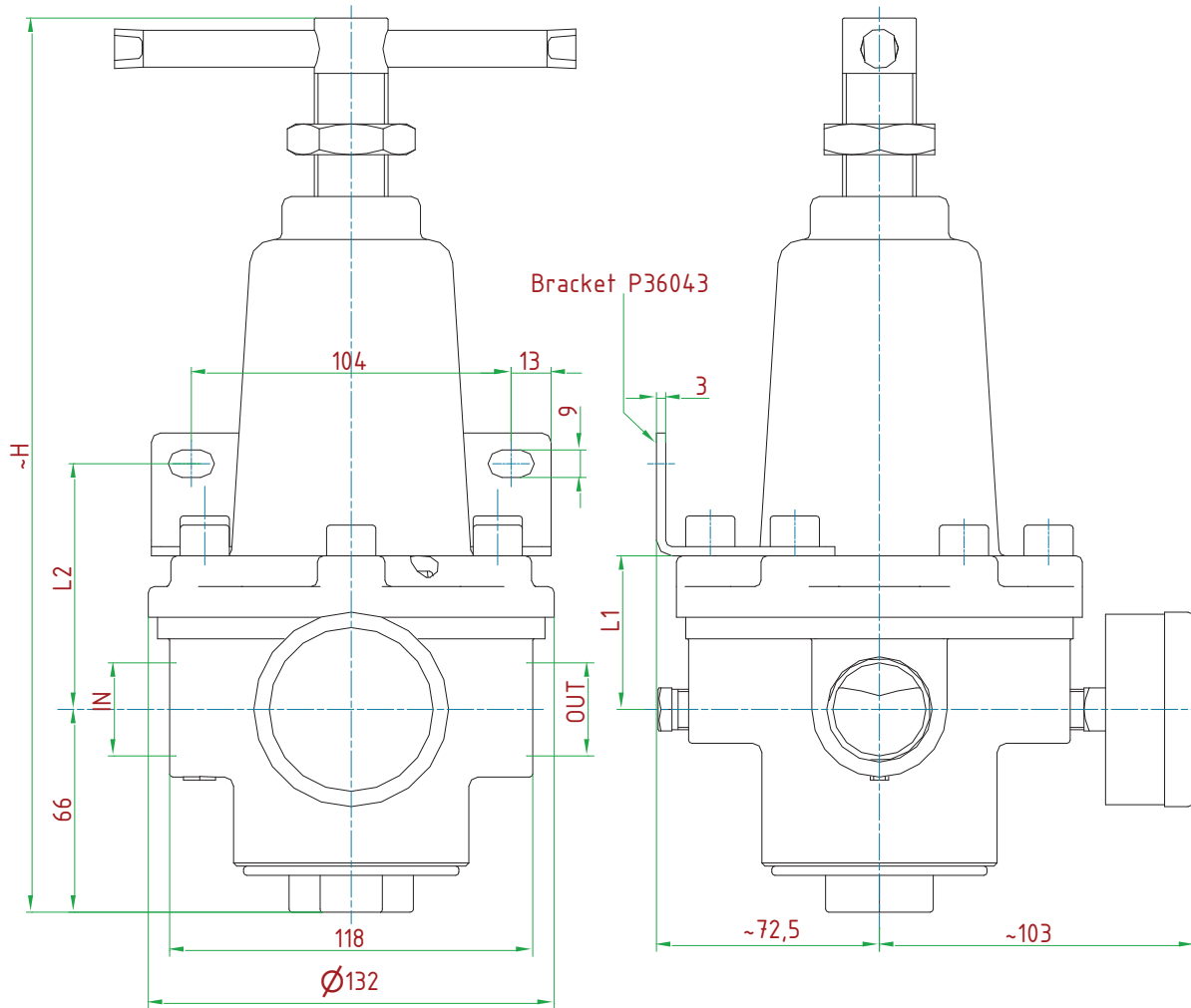
N: not pilot-controlled

I

00: no optional

technical drawings (all dimensions in mm)

Bracket to be ordered separately: Order number P36043A21208



TYPE	~H	L1	L2	OUTLET PRESSURE
Diaphragm	291	50	80	Up to 15 bar
Piston	316	73	103	More than 15 bar

TYPE	IN/OUT
R123 1" GF	G 1-F
R123 3/4" GF	G 3/4-F
R123 1" NPTF	1" NPT-F
R123 3/4" NPTF	3/4" NPT-F