

R2034

Brass two stage high pressure regulator,
suitable for laboratory use



FEATURES

High pressure regulator for cylinder or manifold; standard version inlet pressure up to 220 bar (3190 psi), higher pressure for special versions.

Inlet connections available for every type of gas. Outlet connection G 1/4 - F. External chrome-plated finish.

The regulator is composed of an high pressure stage followed by a lower pressure stage, providing an accurate outlet pressure control starting from 0,1÷0,5 bar range.

Outlet pressure is controlled by a diaphragm. Two-stage regulator provide constant outlet pressure regardless of inlet pressure variations.

Available the ATEX 2014/34/EU version
Brand $\text{CE} \text{ II2GclICTX}$
 $\text{CE} \text{ II2DclICTX}$.

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

Available the EAC-EX TP TC 012/2011 versions for the Russian market.

The product complies with the directive 2014/68/EU (PED).

SPECIFICATIONS

Inlet and outlet pressure gauges: accuracy class 1.6, G 1/4 ports

Regulator weight: ~1.5 kg (~3.3 lb)

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

Main valve leakage classification: VI (bubble tight)

Flow coefficient: $K_v = 0.4 \text{ Nm}^3/\text{h}$ ($C_v = 0.47 \text{ US gal/min}$)

Degree of protection: IP25

MATERIALS

Body and bonnet: brass

Internal parts: brass

Main valve springs: AISI 302

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

Diaphragm: EPDM or FPM according to the fluid

O-ring: EPDM or FPM according to the fluid (other compounds available on request)

Main valve gasket 1° stage: PA 6.6
 2° stage : EPDM or FPM according to the fluid

ACCESSORIES

Fixed outlet pressure (adjusting screw locked by a cap nut)

Pre-set version: factory set outlet pressure

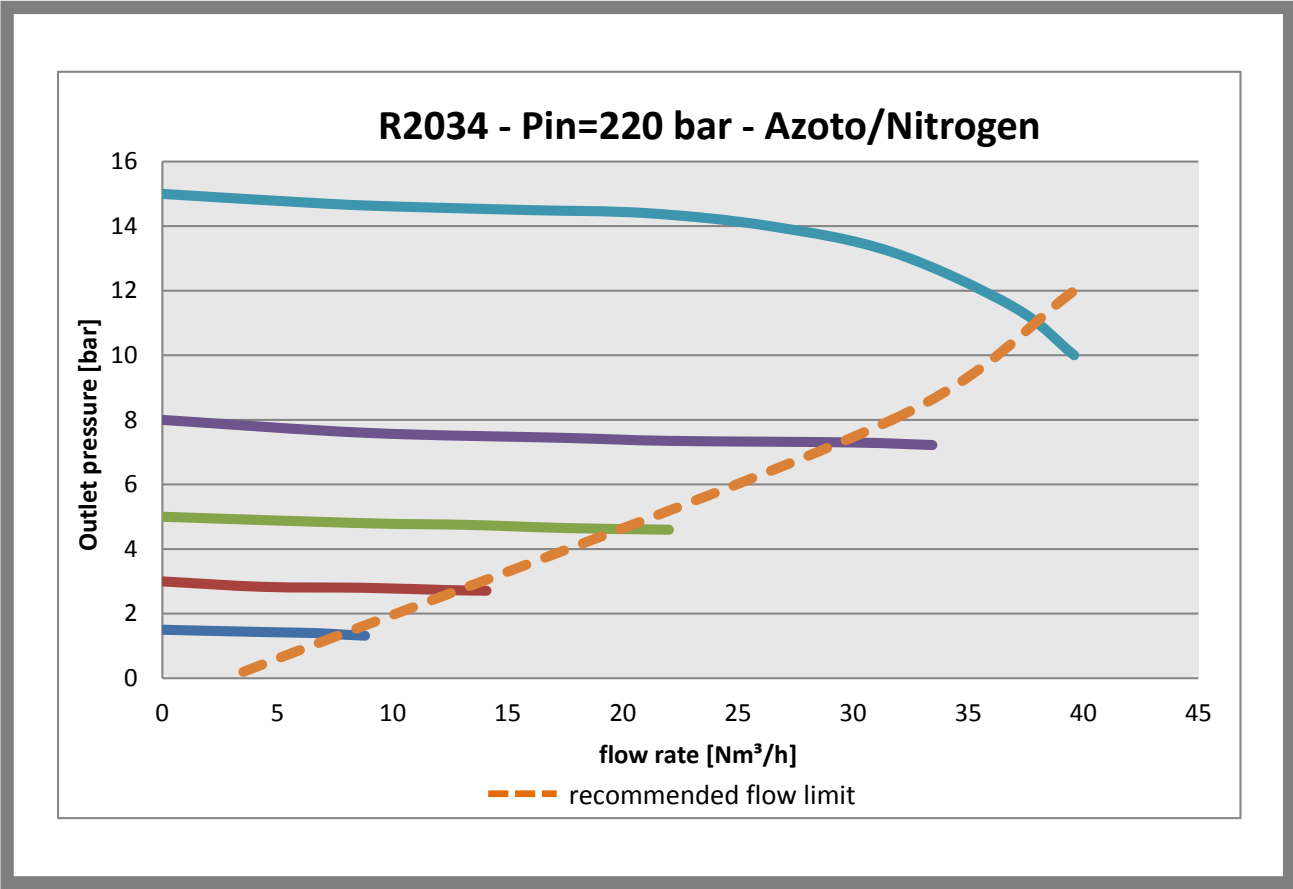
SPARE PARTS

Gauges

Overpressure valve

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

flow charts



generating the product code

REGOLATORE R2034			
AA BB CC DD E FF			
AA	Attacchi / Connections	00	Vedi tipo di fluido, tabella DD
BB	Pressione d'ingresso / Inlet pressure	J0	PS 220 bar
CC	Intervallo d'uscita/ Outlet range	Y0	Pout 0,1 - 0,5 bar
		A0	Pout 0,2 - 1,5 bar
		B0	Pout 0,3 - 3 bar
		C0	Pout 0,8 - 8 bar
DD	Tipologia di fluido / Fluid type	15	O2 PED Classe III
		98	EPDM
		99	FPM
		U1	1H- UNI 11144 PED CLASSE III
		U2	2 - UNI 11144
		U5	5 - UNI 11144
		U6	6 - UNI 11144
		U8	8 - UNI 11144
E	Marchiato / Marked	I	ID
		Z	Dir ATEX 2014/34/UE
FF	Accessori/Accessories	00	Nessun accessorio

CODE COMPOSITION EXAMPLE

2034# 00 J0 C0 U1 I 00

2034#: Brass regulator R2034

00: Connection according to the fluid see table DD

J0: Inlet pressure 220 bar

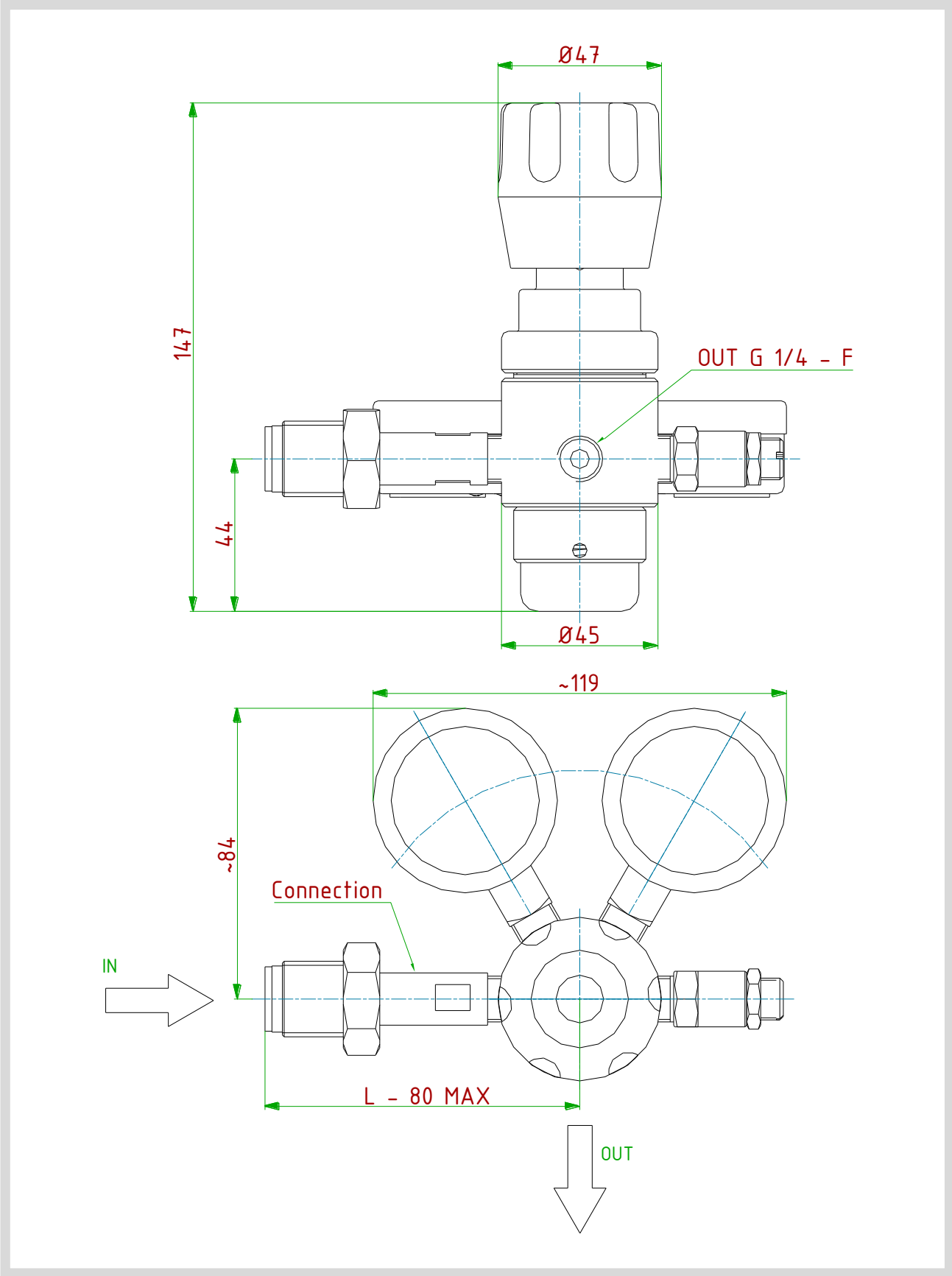
C0: Outlet pressure 0.8 ÷ 8 bar

U1: Inlet connection 1H-UNI 11144

I: Insert Deal

00: No accessories

technical drawings (all dimensions in mm)



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PRESSURE REGULATOR_R2034_EN_01



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Company with certificated quality management system.
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