

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 version

Brand $\text{CE} \text{Ex} \text{II}2\text{GDcIICX}$.

For use in potentially explosive atmospheres zones:

1, 21, 2, 22 (not for mines and zone 0).

The product complies with the directive 97/23/CE (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

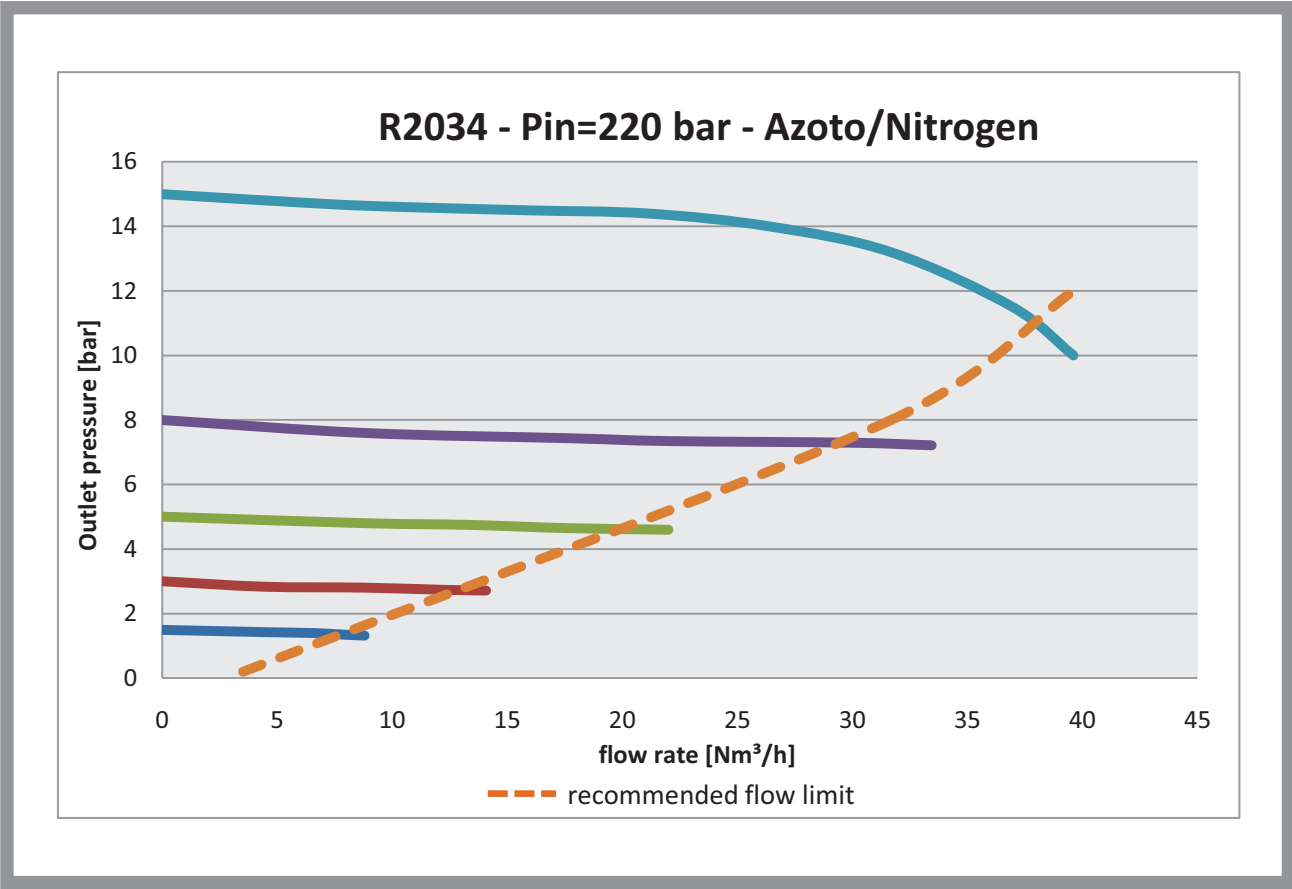
SPARE PARTS

Gauges

Overpressure valve

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

flow charts



Regolatori di pressione per alta pressione / High pressure regulators

Regolatori di pressione per alta pressione a doppio stadio

in ottone cromato, idonei per impiego in laboratorio

Double stage pressure regulators for high pressure,
made of chromed brass, for laboratory application

Corpo da lavorazione di barra tonda, attacco entrata per bombola a norme UNI. DOPPIO STADIO

Body by machining round bar, inlet connection to bottle according to standard UNI. DOUBLE STAGE

TYPE	PS bar	P.Out bar	CONNECTION OUT	CODE	MEDIUM
					R2034
R2034 A	80	0,1-0,5	G 1/4-F	2034#	CO2 - N2O
	220	0,1-0,5	G 1/4-F	2034#	O2
					H2 - CH4
Aria - N2 - Ar - He					
R2034 B	80	0,2-1,5	G 1/4-F	2034#	CO2 - N2O
	220	0,2-1,5	G 1/4-F	2034#	O2
					H2 - CH4
Aria - N2 - Ar - He					
R2034 C	80	0,3-3	G 1/4-F	2034#	CO2 - N2O
	220	0,3-3	G 1/4-F	2034#	O2
					H2 - CH4
Aria - N2 - Ar - He					
R2034 D	80	0,8-8	G 1/4-F	2034#	CO2 - N2O
	220	0,8-8	G 1/4-F	2034#	O2
					H2 - CH4
Aria - N2 - Ar - He					

MEDIUM	CONNECTION IN	UNI
CO2	Bombola_Rampa / Bottle_Manifold	2-UNI 11144
N2O	Bombola / Bottle	9-UNI 11144
	Rampa / Manifold	2-UNI 11144
O2	Bombola_Rampa / Bottle_Manifold	2-UNI 11144
Aria	Bombola / Bottle	6-UNI 11144
	Rampa / Manifold	2-UNI 11144
N2	Bombola / Bottle	5-UNI 11144
	Rampa / Manifold	2-UNI 11144
Ar - He	Bombola / Bottle	8-UNI 11144
	Rampa / Manifold	2-UNI 11144
H2 - CH4	Bombola_Rampa / Bottle_Manifold	1H-UNI 11144

ATTACCHI DIVERSI DA STANDARD / CONNECTION DIFFERENT FROM STANDARD

Attacchi bombola diversi da standard UNI / Bottle connection different from Italian standard UNI (DIN 477, CGA, NFE 29-650, BS 341 e UNE ITC MIE)

Attacco entrata rampa, esclusi CO2, O2, H2, CH4 / inlet connection for manifold, not for CO2, O2, H2, CH4

ESECUZIONI DIVERSE DA STANDARD / EXECUTIONS DIFFERENT FROM STANDARD

Pressione ingresso 250-300 bar / Inlet pressure 250-300 bar

Pressione uscita prearata / Pre-set outlet pressure

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

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

O-ring FPM / O-ring FPM

O-ring speciali / Special O-ring

Convogliamento su campana e Valvola di sovrappressione / Venting on bonnet and over pressure Valve

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

Portagomma - 0CPCB23 / Hose tail - 0CPCB23

generating the product code

REGOLATORE R2034			
AA BB CC DD E FF			
AA	Attacchi / Connections	00	Vedi tipo fluido, tabella DD
BB	Pressione ingresso / Inlet pressure	J0	PS 220 bar
		L0	PS 80 bar
CC	Intervallo uscita / Outlet range	A0	MOD B 0,2 - 1,5 bar
		B0	MOD C 0,3 - 3 bar
		C0	MOD D 0,8 - 8 bar
		Y0	MOD A 0,1 - 0,5 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
		U9	9 - UNI 11144
E	Marchiato / Marked	I	ID
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)

