

R3000

High pressure brass regulator,
suitable for compressed air, gas and liquid



FEATURES

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

Suitable for industrial applications that require high flow rates.

Inlet connection 1" – M and outlet connection 1 1/4" – F.
Other connections available on request.

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

Inlet and outlet pressure gauges.

Available the ATEX version
Brand $\text{CE} \text{ II 2GDc IICX}$.
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, G1/4 ports

Diaphragm regulator weight: ~18.8 kg (~41.44 lb)

Piston regulator weight: ~21.4 kg (~47.2 lb)

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

Main valve leakage classification: VI (bubble tight)

Flow coefficient: $K_v = 3.5 \text{ Nm}^3/\text{h}$ ($C_v = 4.10 \text{ US gal/min}$)

Degree of protection: IP25

Big dimension upstream filter

MATERIALS

Body and bonnet: brass

Internal parts: brass

Main valve spring: C85 (not in contact with the fluid)

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

Diaphragm (for outlet pressure up to 15 bar): two coupled diaphragms neoprene + PTFE
(PTFE in contact with the fluid)

Piston (for greater outlet pressure): brass

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

Main valve gasket: PA 6.6

ACCESSORIES

Dome loaded version: outlet pressure to be controlled by a pilot pressure

SPARE PARTS

Gauges

Overpressure valve

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

available model types

Regolatori di pressione per alta pressione / High pressure regulators

Regolatori di pressione per alta pressione

in ottone, idonei per aria compressa e gas tecnici non corrosivi e liquidi

Pressure regulators for high pressure,

made of brass, for compressed air and technical, non corrosive gases and liquids

Corpo da lavorazione di barra tonda, attacco entrata G 1-M

Body by machining round bar, inlet connection G 1-M

| TYPE | PS bar | P.Out bar | CONNECTION IN | CONNECTION OUT | CODE | MEDIUM |
|----------|--------|-----------|---------------|----------------|-------|---------------------|
| | | | | | | R3000 |
| R3000 MA | 80 | 0,8-8 | G 1-M | G 1 1/4-F | 3000# | CO2 |
| R3000 MB | 80 | 1,5-15 | G 1-M | G 1 1/4-F | 3000# | CO2 |
| R3000 MC | 80 | 3-30 | G 1-M | G 1 1/4-F | 3000# | CO2 |
| R3000 HA | 220 | 0,8-8 | G 1-M | G 1 1/4-F | 3000# | O2 |
| | | | | | | H2 - CH4 |
| | | | | | | Aria - N2 - Ar - He |
| R3000 HB | 220 | 1,5-15 | G 1-M | G 1 1/4-F | 3000# | O2 |
| | | | | | | H2 - CH4 |
| | | | | | | Aria - N2 - Ar - He |
| R3000 HC | 220 | 3-30 | G 1-M | G 1 1/4-F | 3000# | O2 |
| | | | | | | H2 - CH4 |
| | | | | | | Aria - N2 - Ar - He |
| R3000 HD | 220 | 5-50 | G 1-M | G 1 1/4-F | 3000# | O2 |
| | | | | | | H2 - CH4 |
| | | | | | | Aria - N2 - Ar - He |

ATTACCHI DIVERSI DA STANDARD / CONNECTION DIFFERENT FROM STANDARD

Attacchi in/out diversi da standard (nipples esterni in 1"NPT-M - out 1"1/4 NPT-F) / Connections different from standard (external nipples in 1"NPT-M - out 1"1/4 NPT-F)

ESECUZIONI DIVERSE DA STANDARD / EXECUTIONS DIFFERENT FROM STANDARD

Pressione ingresso 250 bar / Inlet pressure 250 bar

Pressione ingresso 300 bar / Inlet pressure 300 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 secondo FDA / O-ring according 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

Versione idonea per liquidi / Execution for liquid

Versione regolatore pilotato / Dome loaded version

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 + viti (mod. HA,HB, HC, HD) M1B304 / Bracket with screws (mod. HA,HB, HC, HD) M1B304

generating the product code

| R3000 OTTONE | | | |
|---------------------------|-------------------------------------|----|-------------------------------|
| AA BB CC DD E F GG | | | |
| AA | Attacchi / Connections | B0 | IN 1" NPT-M - OUT 1-1/4"NPT-F |
| | | J0 | IN G 1-M - OUT G 1"1/4-F |
| BB | Pressione ingresso / Inlet pressure | J0 | 220 bar H |
| | | L0 | 80 bar M |
| CC | Intervallo uscita / Outlet range | D0 | A - Pout 0,8 - 8 bar |
| | | E0 | B - Pout 1,5 - 15 bar |
| | | F0 | C - Pout 3 - 30 bar |
| | | G0 | D Pout 5 - 50 bar |
| DD | Tipologia di fluido / Fluid type | 15 | O2 PED CLASSE III |
| | | 94 | FPM PED CLASSE III |
| | | 98 | EPDM |
| E | Pilotato / Pilot operated | N | Non pilotato |
| | | P | Pilotato |
| F | Marchiato / Marked | I | ID |
| GG | Accessori / Accessories | 00 | Nessun accessorio |

CODE COMPOSITION EXAMPLE

3000# B0 J0 F0 98 N I 00

3000#: Brass regulator R3000

B0: Inlet connection NPT 1" – M, outlet connection NPT 1 ¼" - F

J0: Inlet pressure 220 bar

F0: Outlet pressure 3-30 bar

98: EPDM gaskets

N: Not dome loaded

I: Insert Deal

00: No accessories

technical drawings (all dimensions in mm)

