

R33000

Stainless steel AISI 316L high pressure 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.

Balanced main valve, for outlet pressure up to 50 bar, to provide constant outlet pressure regardless of inlet pressure variations.

Available the ATEX version

Brand $\text{CE} \text{ II 2GDcl I C X}$.

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

Diaphragm regulator weight: ~25 kg (~55 lb)

Piston regulator weight: ~32 kg (~ 70 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

Gauges ports: G 1/4 – F

Big dimension upstream filter

MATERIALS

Body and bonnet: stainless steel AISI 316 L

Internal parts: stainless steel AISI 316 L

Main valve spring: AISI 302 or C85 nickel plated NiP/Fe 15 µm

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

Diaphragm (for inlet pressure up to 15 bar): stainless steel AISI 316 L

Piston (for greater outlet pressure): stainless steel AISI 316 L

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

Main valve gasket: PTFE + carbon

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 acciaio inox 316L, idonei per aria compressa, gas tecnici e liquidi

Pressure regulators for high pressure,

made of stainless steel 316L, for compressed air technical gases and liquids

Corpo da lavorazione di barra tonda, attacco entrata G 1-M (per linea)

Body by machining round bar, inlet connection G 1-M (for line service)

TYPE	PS bar	P.Out bar	CONNECTION IN	CONNECTION OUT	CODE	MEDIUM
						R33000
R33000 MA	80	0,8-8	G 1-M	G 1 1/4-F	33000#	CO2
R33000 MB	80	1,5-15	G 1-M	G 1 1/4-F	33000#	CO2
R33000 MC	80	3-30	G 1-M	G 1 1/4-F	33000#	CO2
R33000 HA	220	0,8-8	G 1-M	G 1 1/4-F	33000#	H2 - CH4 Aria - N2 - Ar - He
R33000 HB	220	1,5-15	G 1-M	G 1 1/4-F	33000#	H2 - CH4 Aria - N2 - Ar - He
R33000 HC	220	3-30	G 1-M	G 1 1/4-F	33000#	H2 - CH4 Aria - N2 - Ar - He
R33000 HD	220	5-50	G 1-M	G 1 1/4-F	33000#	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)

Attacchi flangiati / Connections with flanges

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

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

R33000 IN AISI 316			
AA BB CC DD E F GG			
AA	Attacchi / Connections	J0	IN G 1-M - OUT G 1"1/4-F
BB	Pressione ingresso / Inlet pressure	J0	220 bar H
CC	Intervallo uscita / Outlet range	E0	B - Pout 1,5 - 15 bar
		X0	Pout 10 -100 bar
DD	Tipologia di fluido / Fluid type	98	EPDM
E	Pilotato / Pilot operated	N	Non pilotato
F	Marchiato / Marked	I	ID
		Z	Dir ATEX 94/9 CE
GG	Accessori / Accessories	00	Nessun accessorio

CODE COMPOSITION EXAMPLE

33000# J0 J0 E0 98 N Z 00

33000#: R33000 stainless steel regulator

J0: Inlet connection G 1 – M, outlet connection G 1 1/4 – F

J0: Inlet pressure 220 bar

E0: Outlet pressure 1.5-15 bar

98: EPDM gaskets

N: Not dome loaded

Z: ATEX version

00: No accessories

technical drawings (all dimensions in mm)

