

## R3300

Stainless steel AISI 316L high pressure regulator  
for compressed air, gas and liquid



### FEATURES

Pressure regulator for inlet pressure up to 220 bar (3190 psi) in the standard version, higher pressure for special version.

Ideal for industrial applications where high flow rates are required.


Standard version inlet and outlet connections G3/4-M. Different or flanged connections available on request.

Balanced main valve for a constant outlet pressure when varying the upstream pressure.

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

Gauges for inlet and outlet pressure.

Available the ATEX version

Brand  II2GDcIICX.

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**

Gauges: accuracy class 1,6

Diaphragm version weight: ~10.5 Kg (~23 lb)

Piston version weight: ~11 Kg (~24 lb)

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

Main valve leakage classification: VI (bubble tight)

Flow coefficient:  $K_v = 1,5 \text{ Nm}^3/\text{h}$  ( $C_v = 1,76 \text{ US gal/min}$ )

Degree of protection: IP25

## **MATERIALS**

Body and bonnet: stainless steel AISI 316L

Internal parts: stainless steel AISI 316L

Main valve spring: C85 nickel plated NiP/Fe 15 µm, not in contact with the fluid

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

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

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

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

Main valve gaskets: PTFE + carbon

## **ACCESSORIES**

Kit bracket and screws: M1B303

Pilot operated version, pressure setpoint to be controlled by a pilot regulator.

Liquids version with rubber diaphragm

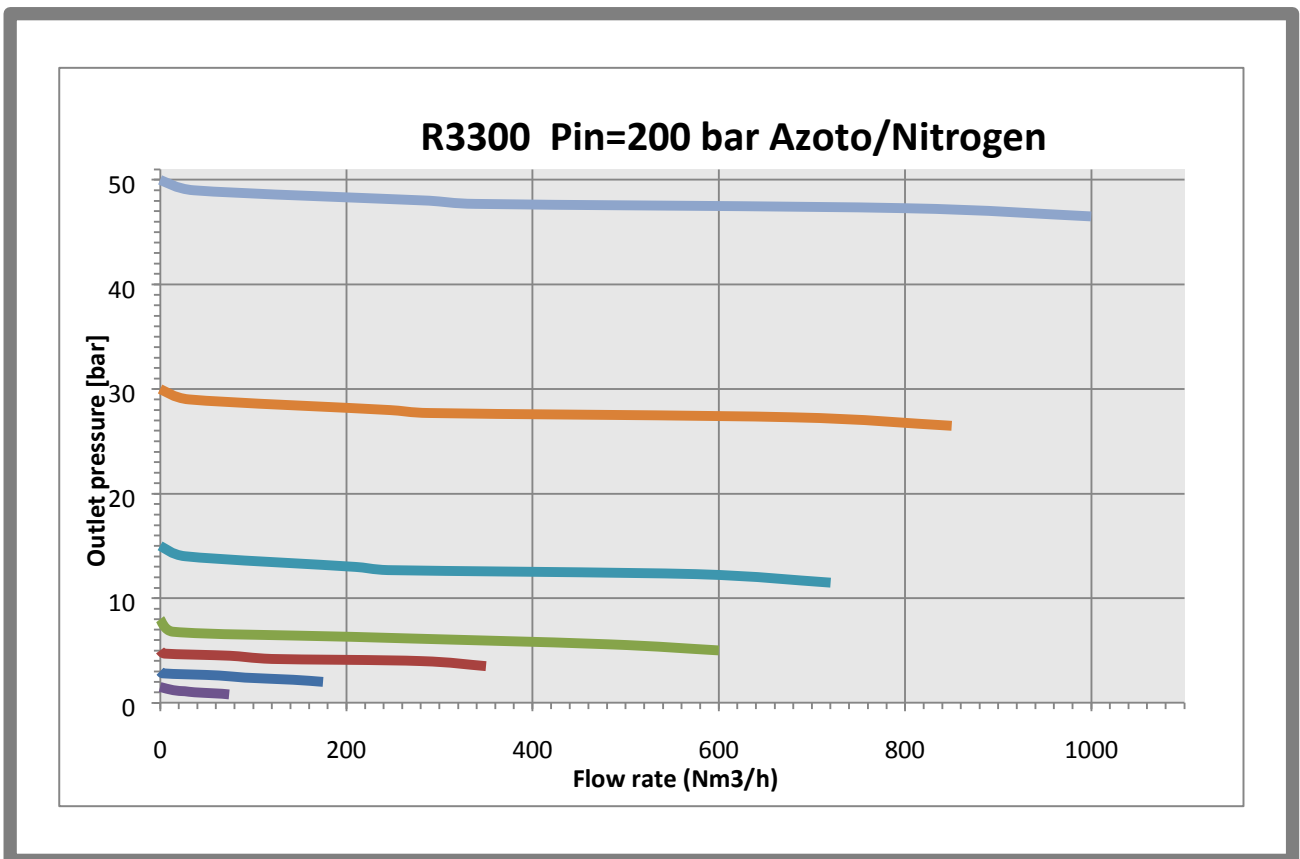
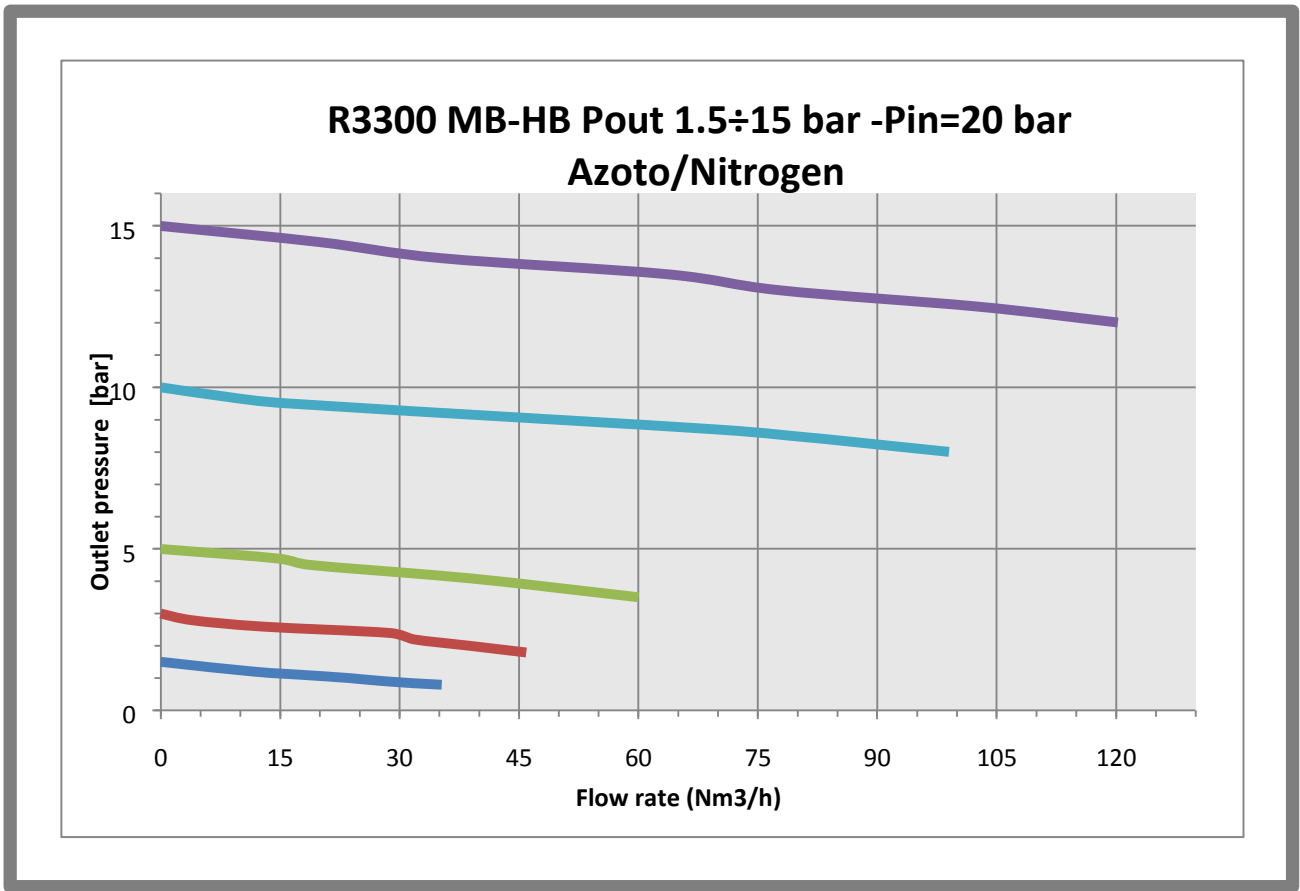
## **SPARE PARTS**

Gauges

Relief valve

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

flow charts



## available model types

### High pressure regulators

Pressure regulators for high pressure,  
made of stainless steel 316L, for compressed air technical gases and liquids

Body machining round bar, inlet connection G 3/4-M

TYPE	PIn Bar	Pout Bar	Connection IN / OUT	MEDIUM
				<b>R3300</b>
R3300 MA	80	0,8 – 8	G 3/4-M	CO2
R3300 MB	80	1,5 – 15	G 3/4-M	CO2
R3300 MC	80	3 – 30	G 3/4-M	CO2
R3300 MD	80	5 – 50	G 3/4-M	CO2
R3300 HA	220	0,8 – 8	G 3/4-M	H2 – CH4
				Air – N2 – Ar – He
R3300 HB	220	1,5 – 15	G 3/4-M	H2 – CH4
				Air – N2 – Ar – He
R3300 HC	220	3 – 30	G 3/4-M	H2 – CH4
				Air – N2 – Ar – He
R3300 HD	220	5 – 50	G 3/4-M	H2 – CH4
				Air – N2 – Ar – He
R3300 HE	220	10 – 100	G 3/4-M	H2 – CH4
				Air – N2 – Ar – He

#### CONNECTION DIFFERENT FROM STANDARD

Connections different from standard (external nipples 3/4" NPT-M, 3/4" NPT-F – 1" NPT-F)

Connections with flanges

#### EXECUTIONS DIFFERENT FROM STANDARD

Inlet pressure 250 bar

Inlet pressure 300 bar

Pre-set outlet pressure

Fixed outlet pressure, screw with cap nut

O-ring in accordance to FDA

O-ring in FPM

Special O-ring

Venting on bonnet and over pressure valve

Execution for liquid

Dome loaded version

Not standard branding

ATEX version

Special temperature range

Degreased for O2

#### ACCESSORIES

Bracket with screws M1B303

# technical drawings (all dimensions in mm)

Bracket to be ordered separately: kit order number M1B303

MODEL	IN/OUT	NIPPLE IN	NIPPLE OUT	L1	L2
R3300 3/4"GM	G3/4-M	P29003	P29004	~83.5	~82.5
R3300 3/4"NPTM	3/4"NPT-M	P29020	P29029	~90.5	~88.5

TYPE	OUTLET PRESSURE	H	H1
Diaphragm	0.8÷8/1.5÷15	~342	~72
Piston	3÷30/5÷50/10÷100	~363	~96

\* No Relief valve for P.out 100 bar

