

# R1000

Brass 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 and outlet connection 1" G-M.  
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 for outlet pressure up to 50 bar.

Inlet and outlet pressure gauges.

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

Diaphragm regulator weight: ~15 kg (~33 lb)

Piston regulator weight: ~17 kg (~37 lb)

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

Main valve leakage classification: VI (bubble tight)

Flow coefficient:  $K_v = 2.5 \text{ Nm}^3/\text{h}$  ( $C_v = 2.93 \text{ US gal/min}$ )

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**

Wall mounting bracket

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

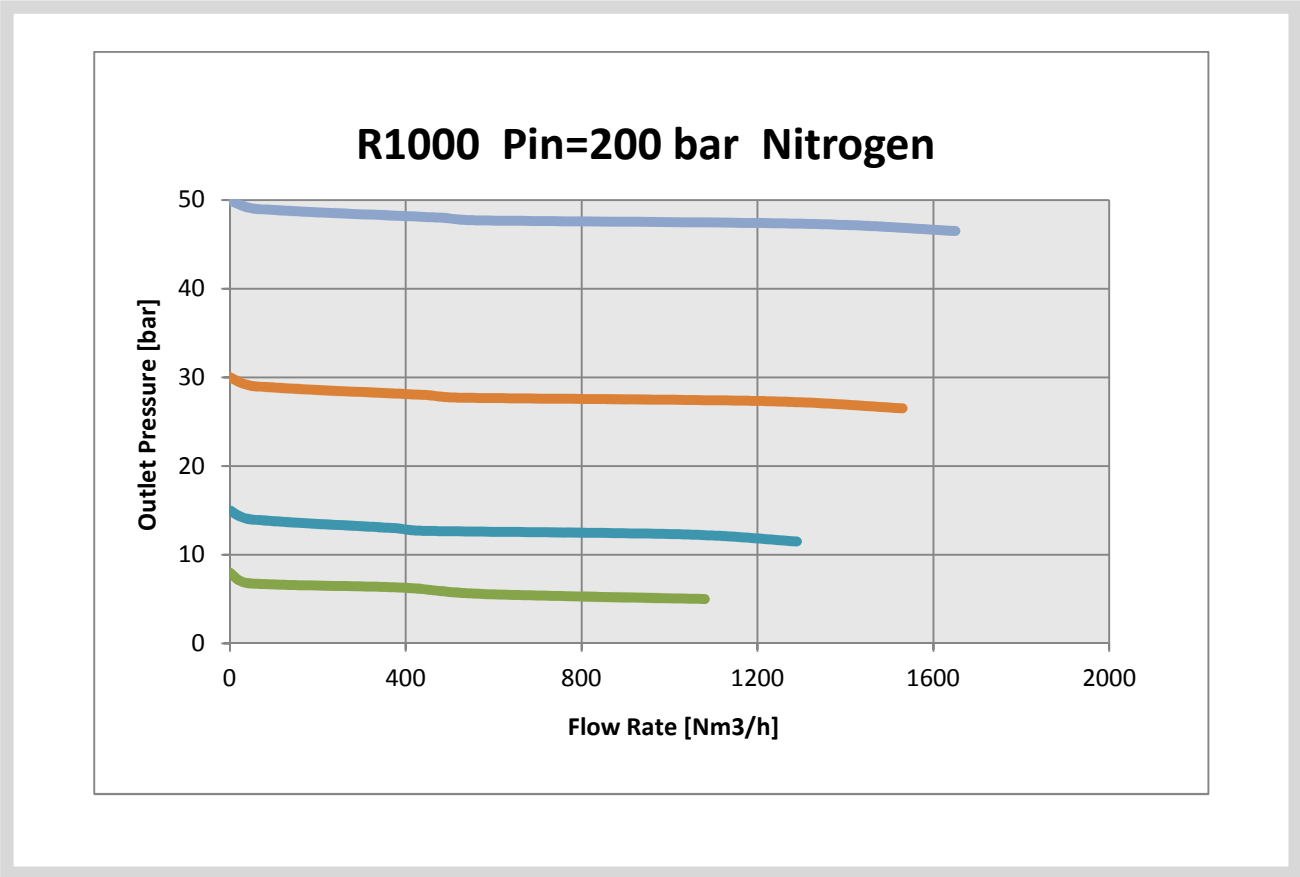
## **SPARE PARTS**

Gauges

Overpressure valve

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

flow charts



## generating the product code

R1000 IN OTTONE			
AA BB CC DD E F GG			
AA	Attacchi / Connections	R0	G 1-M
BB	Pressione d'ingresso / Inlet pressure	J0	220 bar
		L0	80 bar
CC	Intervallo d'uscita/ Outlet range	D0	Pout 0,8 - 8 bar <sup>(B)</sup>
		E0	Pout 1,5 - 15 bar <sup>(B)</sup>
		FO	Pout 3-30 bar <sup>(B)</sup>
		G0	Pout 5-50 bar <sup>(B)</sup>
		V0	Pout 20-200 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 / No accessories

(B): Regolatore bilanciato/Balanced regulator

## CODE COMPOSITION EXAMPLE

**1000# R0 J0 E0 98 N I 00**

**1000#:** Brass regulator R1000

**R0:** inlet and outlet connections G 1 - M

**J0:** Inlet pressure 220 bar

**E0:** Outlet pressure 1,5-15 bar

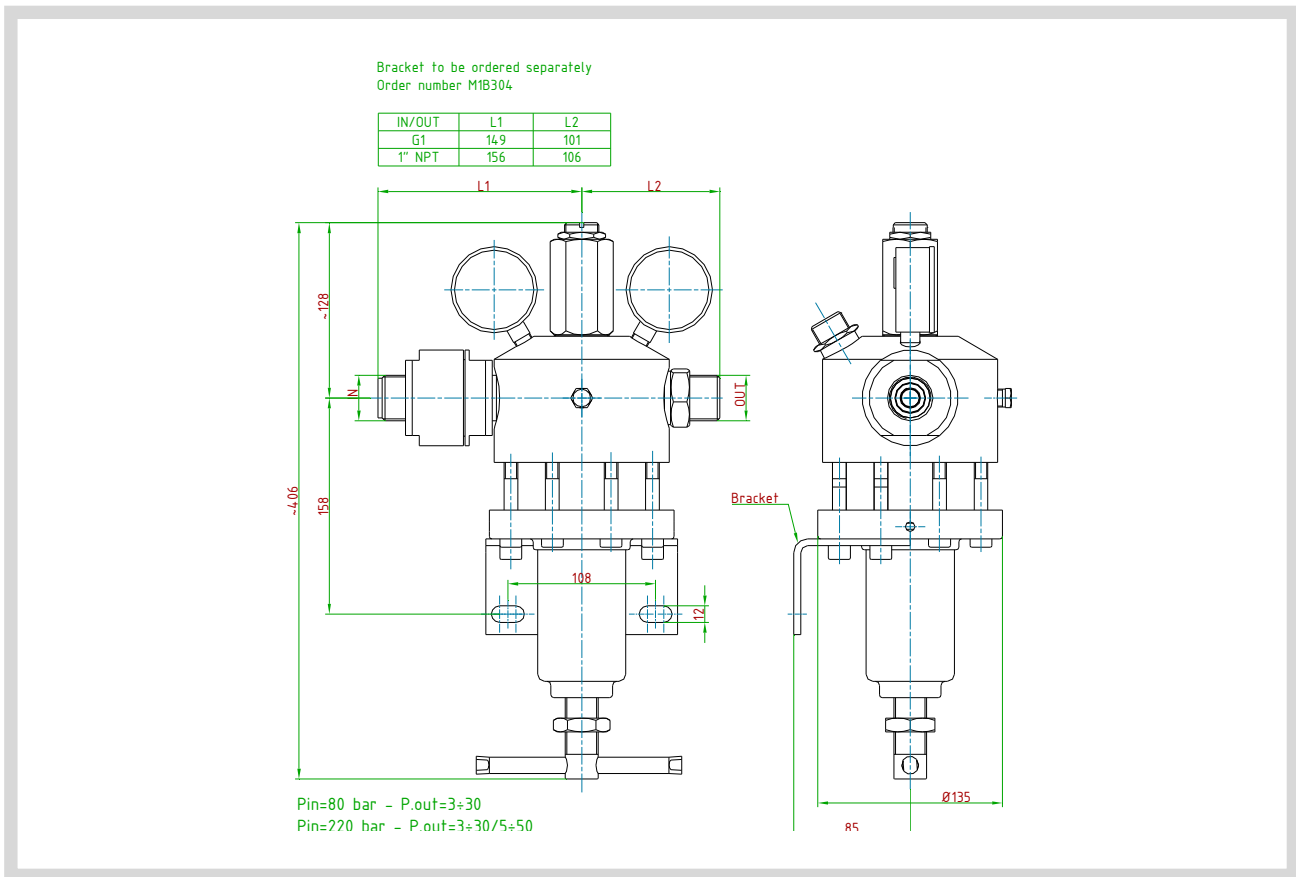
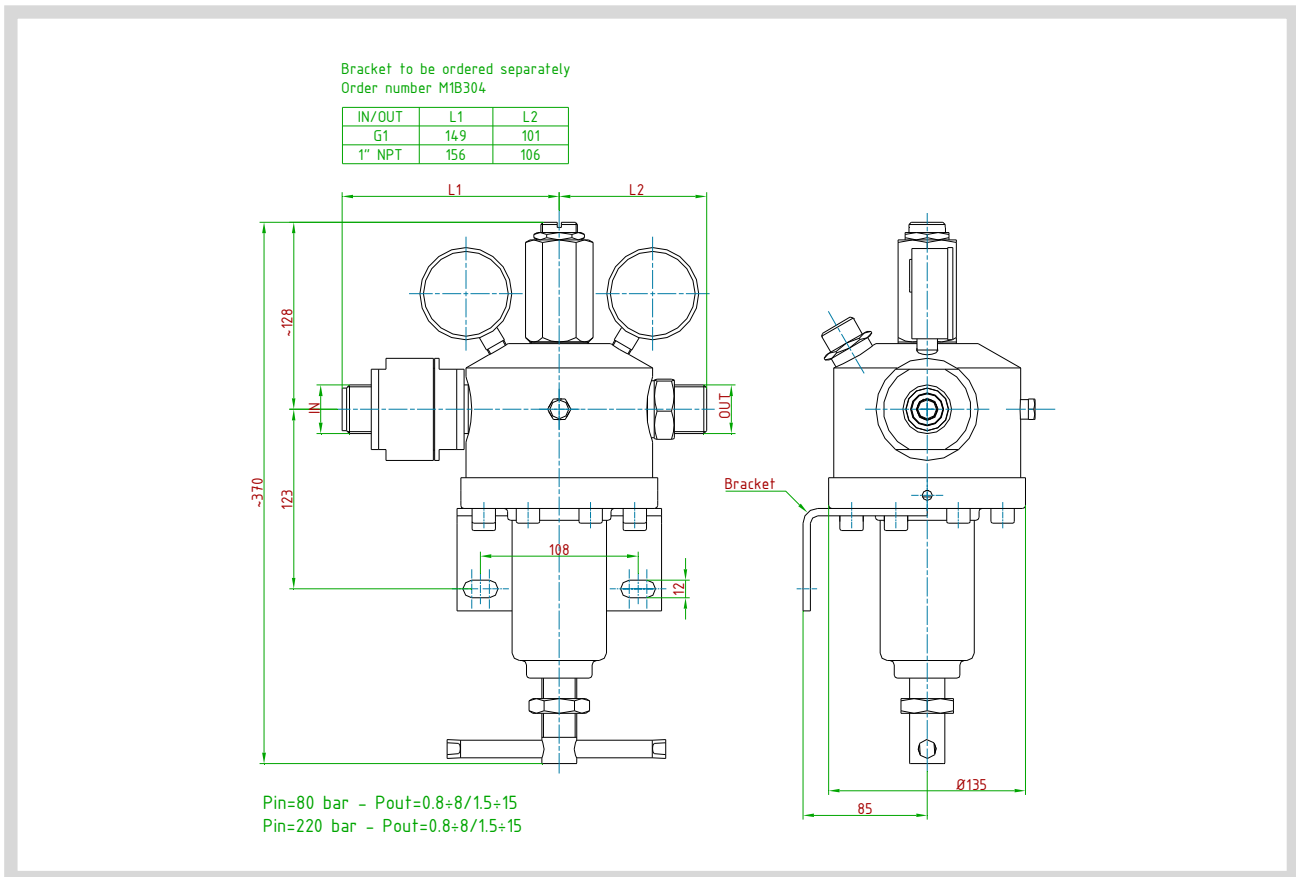
**98:** EPDM gaskets

**N:** Not dome loaded

**I:** Insert Deal

**00:** No accessories

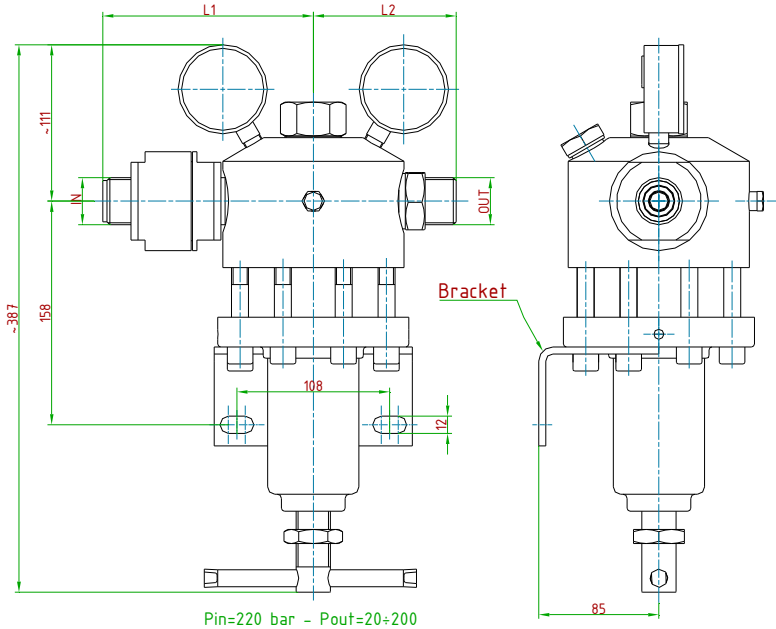
# technical drawings (all dimensions in mm)



# technical drawings (all dimensions in mm)

Bracket to be ordered separately  
Order number M1B305

IN/OUT	L1	L2
G1	149	101
1" NPT	156	106



## **ID Insert Deal Srl**

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**PRESSURE REGULATOR\_R1000\_EN\_04**



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Company with certificated quality management system.  
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