HELYON
5 Chemin du Jubin 69570 DARDILLY
Tél. +33 (0)4 72 52 16 70 - Fax +33 (0)4 72 52 16 71
www.helyon.com / E-mail : contact@helyon.com

R1200

Brass high pressure regulator, for compressed air, gas and liquids

FEATURES

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

Ideal for industrial application and for welding equipment.

Inlet connection by nose nipple and hexagon nut G¾-F. Other 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.

Available the ATEX version.
Brand CE Ex 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

Regulator weight: ~4.5 Kg (~9,9 lb)

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

Main valve leakage classification: VI (bubble tight)

Flow coefficient: Kv= 0.25 Nm^3/h (Cv = 0,29 US gal/min)

Degree of protection: IP25

MATERIALS

Body and bonnet: brass

Internal parts: brass

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

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

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

Piston (for greater outlet pressure): brass

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

Main valve gasket: PA 6.6 (EPDM for PS 15 bar)

ACCESSORIES

Ring-nut 0DU80301

Kit bracket and ring-nut M1B101

SPARE PARTS

Gauges

Relief valve

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

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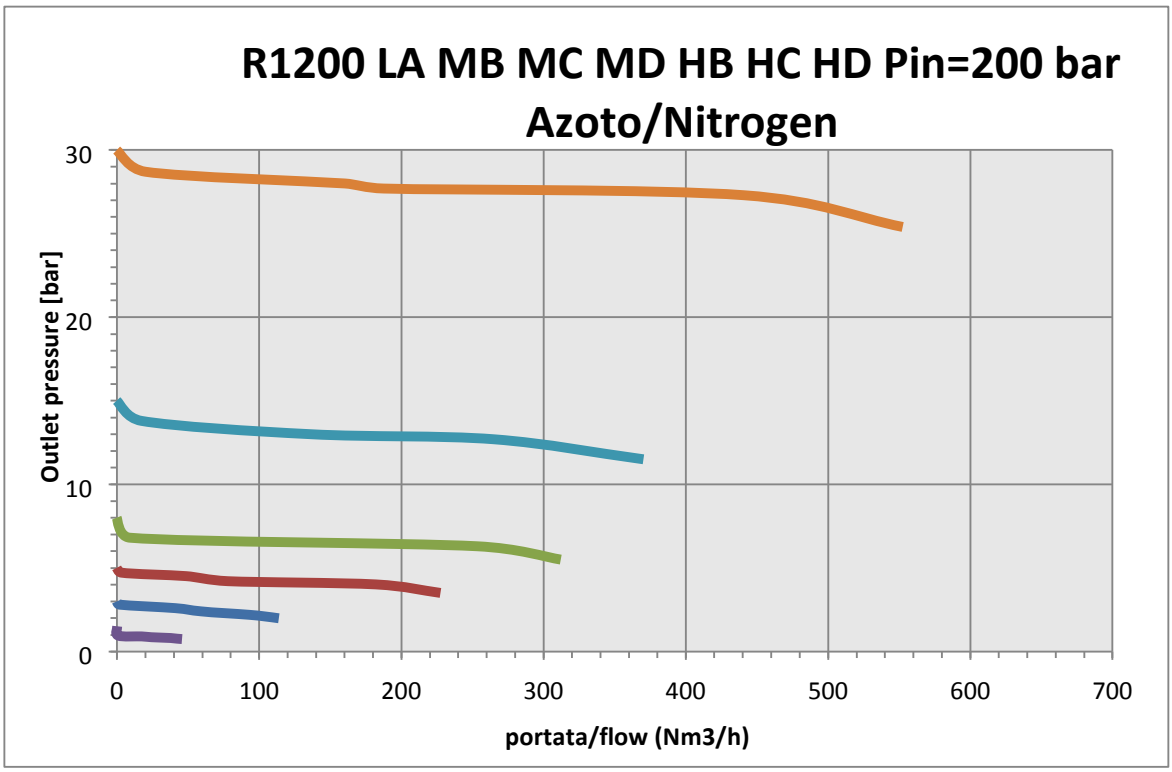
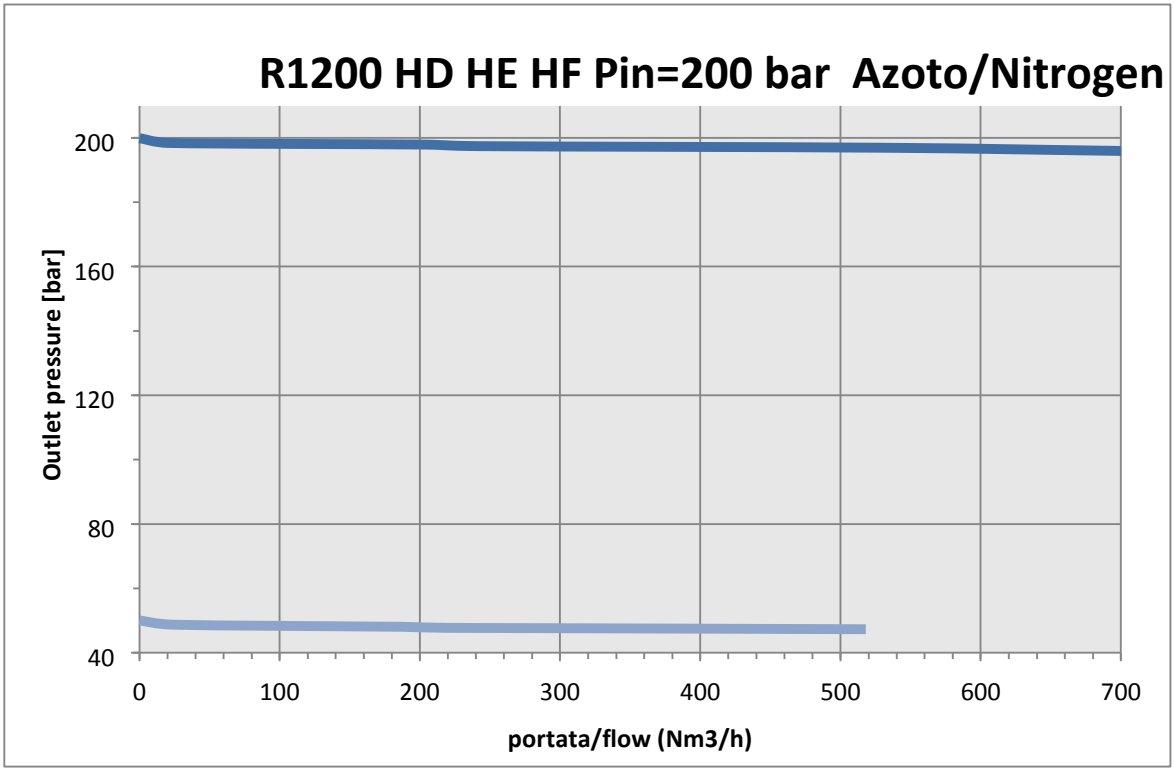
flow charts





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available model types

Body by machning round bar, inlet connection with hemispheric end and rotating G 3/4-F nut

TYPE	PIn Bar	Pout Bar	Connection IN	Connection OUT	MEDIUM
					R1200
R1200 LA	15	0,2 – 1,5	G 3/4-F	G 1/2-M	C2H2
R1200 MB	80	1,5 – 15	G 3/4-F	G 1/2-M	CO2 – N2O
R1200 MC	80	3 – 30	G 3/4-F	G 3/8-F	CO2 – N2O
R1200 MD	80	5 – 50	G 3/4-F	G 3/8-F	CO2 – N2O
R1200 HB	220	1,5 – 15	G 3/4-F	G 1/2-M	O2
					H2 – CH4
					Air – N2 – Ar – He
R1200 HC	220	3 – 30	G 3/4-F	G 3/8-F	O2
					H2 – CH4
					Air – N2 – Ar – He
R1200 HD	220	5 – 50	G 3/4-F	G 3/8-F	O2
					H2 – CH4
					Air – N2 – Ar – He
R1200 HE	220	10 – 100	G 3/4-F	G 3/8-F	O2
					H2 – CH4
					Air – N2 – Ar – He
R1200 HF	220	20 – 200	G 3/4-F	G 3/8-F	O2
					H2 – CH4
					Air – N2 – Ar – He

MEDIUM	Connection IN	UNI	
C2H2	Bracket bottle	7S-UNI 11144	
	Manifold	1H-UNI 11144	*
	Bottle connection	7F-UNI 11144	
CO2	Bottle_manifold	2-UNI 11144	**
N2O	Bottle	9-UNI 11144	
	Manifold	2-UNI 11144	**
O2	Bottle_manifold	2-UNI 11144	**
Air	Bottle	6-UNI 11144	
	Manifold	2-UNI 11144	**
N2	Bottle	5-UNI 11144	
	Manifold	2-UNI 11144	**
Ar – He	Bottle	8-UNI 11144	
	Manifold	2-UNI 11144	**
H2 – CH4	Bottle_manifold	1H-UNI 11144	

* Connector manifold_pressure regulator required P29107

** Connector manifold_pressure regulator required P29128

CONNECTION DIFFERENT FROM STANDARD

Connections different from standard (G 3/8-F in body, external nipples G1/2-F - 1/2'' NPT-F – ½'' NPT-M – ¾'' NPT-F – ¾'' NPT-M)

Bottle connection from Standard UNI

Bottle connection different from italian standard UNI (DIN 477, CGA, NFE 29-650, BS 341 e UNE ITC MIE)

Connector manifold_pressure regulator P29107 right

Connector manifold_pressure regulator P29107 left

EXECUTIONS DIFFERENT FROM STANDARD

Inlet pressure 250 bar

Inlet pressure 300-400 bar

Pre-set outlet pressure

Fixed outlet pressure, screw with cap nut

Reverse flow : right inlet – left outlet

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

Chrome-Nickel plating

Not standard branding

ATEX version

Special temperature range

Relieving version Pout 0,8-8 bar / 1,5-15 bar

Pout 3-30 bar / 5-50 bar

Pout 10-100 bar

Pout 20-200 bar

Degreased for O2

ACCESSORIES

Ring nut 0DU80301

Kit bracket and ring nut M1B101

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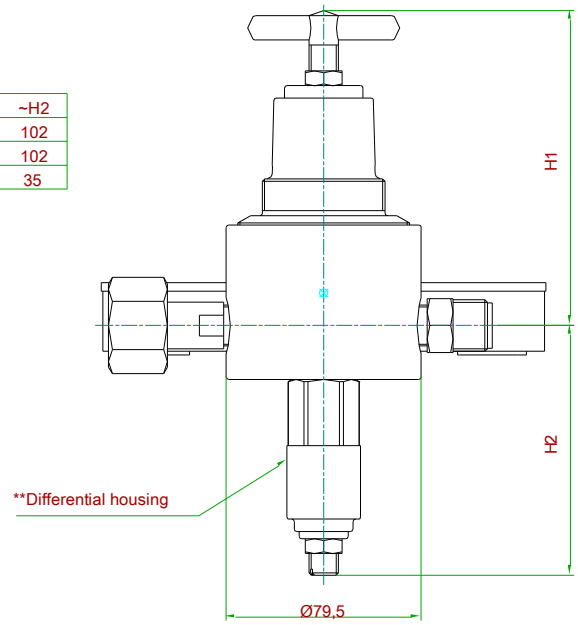
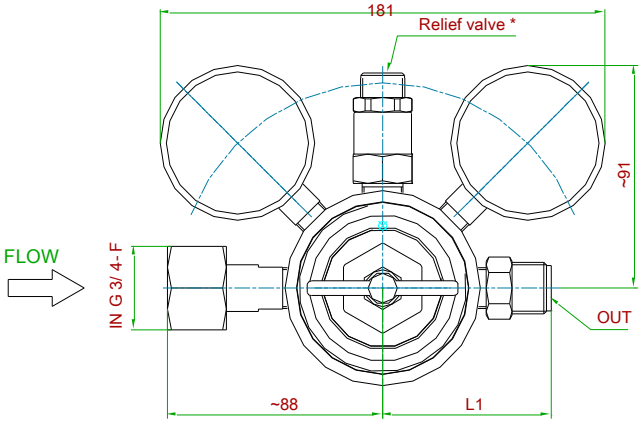
technical drawings (all dimensions in mm)

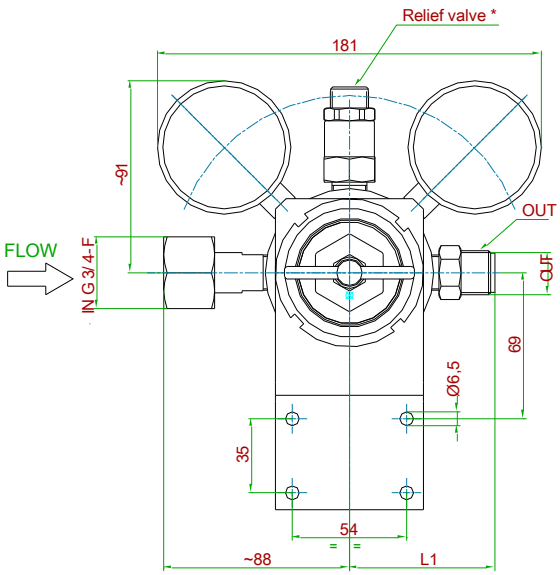
* No Relief valve for type piston 200 bar

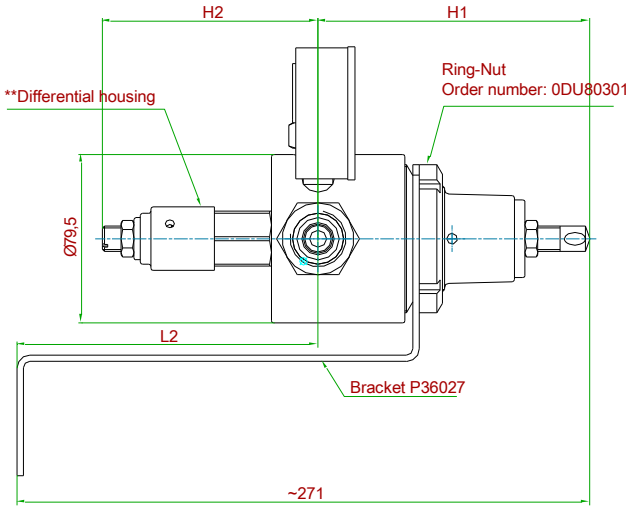
** No Differential housing for type piston 200 bar

TYPE	OUT	L1	~H1	~H2
Diaphragm	G 1/2-M	69	129	102
Piston 30/50 bar	G 3/8-F	Thread in the body without connection	131	102
Piston 200 bar	G 3/8-F	Thread in the body without connection	149	35









TYPE	OUT	L1	~H1	~H2	L2
Diaphragm	G 1/2-M	69	129	102	142
Piston 30/50 bar	G 3/8-F	Thread in the body without connection	131	102	140
Piston 200 bar	G 3/8-F	Thread in the body without connection	149	35	122

Order number bracket and ring-nut: M1B101

* No Relief valve for type piston 200 bar

** No Differential housing for type piston 200 bar

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