

# Pure gas devices

## HF/200 cylinder pressure regulator

### Product description



Two-stage pressure regulator for cylinder, suitable for use with pure gases, equipped with two pressure gauges to show cylinder pressure and operating pressure. The device is made up of two HF pressure reducers with chemically nickel-plated CW617N brass bodies and integrated overpressure discharge valves: the first reduces the cylinder pressure to a fixed pressure of 12 bar, the second allows the user to adjust the outlet pressure between 0.2 bar and 2 bar. The dual stage system is designed to optimally stabilize the regulator's outlet pressure and should be chosen for operating pressures lower than 2 bar

and that require stable and precise dispensing. Maximum inlet pressure is 200 bar, the outlet pressure is adjustable up to 2 bar. Inlet connection is specific to the gas type (see table), outlet connection is G1/4" M R. Its maximum capacity at 2 bar outlet pressure is 2,4 Nm<sup>3</sup>/h, 40 NI/min. At the customer's request it is possible to carry out a helium leak test at 10-4 mbar l/s.

### Normatives

UNI EN ISO 2503 | UNI EN ISO 5171

### Components

- One HF high pressure regulator with chemically nickel-plated CW617N brass body with adjustable calibration and stainless steel diaphragm.
- One HF low pressure regulator with chemically nickel-plated CW617N brass body with adjustable calibration and stainless steel diaphragm.
- NYLON adjustment knob.
- One input specific to the gas type used.
- One G1/4" M R outlet.
- Two overpressure discharge valves, built into the pressure regulator, pre-calibrated.
- One high pressure gauge with range 0/135 bar, class 2.5.
- One low pressure gauge with range 0/2.5 bar, class 2.5.
- One sintered bronze inlet filter with filtration grade > 100 mm.
- Stainless steel springs.
- FKM O-Ring for O<sub>2</sub>, NBR O-ring for other gases.
- NYLON seal seat for O<sub>2</sub>, PTFE seal seat for other gases.
- FKM O-Ring for O<sub>2</sub>, NBR O-ring for other gases.

## Maintenance kit

CODE	DESCRIPTION
HK138	MAINTENANCE EQ HF A.P. PURE GASES
HK137A	MAINTENANCE EQ HF/200 B.P. PURE GASES

## Technical data

CODE	GAS	Q max.	P <sub>1</sub> max.	P <sub>2</sub> max.	INLET CONNECTION	OUTLET CONNECTION	WEIGHT
HRG30D	OXYGEN, HELIUM, ARGON	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	G3/4" 'A' DIN	G1/4" M R	1,6 kg
HRG30F	OXYGEN	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	SI22,91x1,814 'A' F	G1/4" M R	1,6 kg
HRG30UK	OXYGEN	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	G5/8" 'B' UK	G1/4" M R	1,6 kg
HRG31D	HELIUM, ARGON	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	W24,32x1/14" 'A' DIN	G1/4" M R	1,6 kg
HRG31F	CARBON DIOXIDE, ARGON, HELIUM, NITROGEN	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	SI21,7x1,814 'A' F	G1/4" M R	1,6 kg
HRG32D	AIR	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	G5/8" 'B' DIN	G1/4" M R	1,6 kg
HRG32F	AIR	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	SI30x1,75 'A' F	G1/4" M R	1,6 kg
HRG33F	NITROUS OXIDE	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	SI26x1,5 'B' F	G1/4" M R	1,6 kg
HRG33UK	NITROOUS OXIDE	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	W11/16"x1/20" UK	G1/4" M R	1,6 kg
HRG34D	OXIGEN, ARGON, HELIUM	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	W21,80x1/14" 'A' DIN	G1/4" M R	1,6 kg
HRG36D	HYDROGEN, METHANE	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	W21,80x1/14" LH 'A' DIN	G1/4" M R	1,6 kg
HRG36F	METHANE	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	SI 21,7x1,8/14" LH 'A' F	G1/4" M R	1,6 kg
HRG36UK	METHANE	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	G5/8" LH 'B' UK	G1/4" M R	1,6 kg
HRG38UK	CARBON DIOXIDE	2,4 Nm <sup>3</sup> /h	200 bar	2 bar	0,860"x14 TPI 'A'	G1/4" M R	1,6 kg

## Technical Images



