

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 CW614N 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 Nm³/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 2503:2015 | UNI EN ISO 5171:2010 | UNI EN ISO 9001:2008

Components

- One HF high pressure regulator with chemically nickel-plated CW614N brass body with adjustable calibration and stainless steel diaphragm.
- One HF low pressure regulator with chemically nickel-plated CW614N brass body with adjustable calibration and stainless steel diaphragm.
- ABS adjustment knob.
- One input specific to the gas type used.
- One G1/4" M R outlet.
- One overpressure discharge valve, built into the pressure regulator, pre-calibrated and with drain channel, G1/4 "M R.
- One high pressure gauge with range according to the gas used, class 2.5.
- One low pressure gauge with range according to the gas used, class 2.5.
- One sintered bronze inlet filter with filtration grade > 100 mm.
- Stainless steel springs.
- TEFLON seal seat.
- NBR o-ring.

Product codes

| GAS | INLET CONNECTION | CODE |
|-----------------------------------------|--------------------------|---------|
| OXYGEN, HELIUM, ARGON | G3/4" 'A' DIN | HRG30D |
| OXYGEN | SI22,91x1,814 'A' F | HRG30F |
| OXYGEN | G5/8" 'B' UK | HRG30UK |
| HELIUM, ARGON | W24,32x1/14" 'A' DIN | HRG31D |
| CARBON DIOXIDE, ARGON, HELIUM, NITROGEN | SI21,7x1,814 'A' F | HRG31F |
| AIR | G5/8" 'B' DIN | HRG32D |
| AIR | SI30x1,75 'A' F | HRG32F |
| NITROUS OXIDE | SI26x1,5 'B' F | HRG33F |
| NITROUS OXIDE | W11/16"x1/20" UK | HRG33UK |
| OXYGEN, ARGON, HELIUM | W21,80x1/14" 'A' DIN | HRG34D |
| HYDROGEN, METHANE | W21,80x1/14" LH 'A' DIN | HRG36D |
| METHANE | SI 21,7x1,8/14" LH 'A' F | HRG36F |
| METHANE | G5/8" LH 'B' UK | HRG36UK |
| CARBON DIOXIDE | 0,860"x14 TPI 'A' | HRG38UK |

Technical data

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

