

# Food gas equipments



## 451-type cylinder pressure regulator

### Product description

Pressure regulator for cylinders, suitable for food-grade gas, equipped with dual pressure gauge to show high and low pressure, used on outlet of cylinders to reduce the pressure down to that of the line or of the equipment. Maximum inlet pressure is 200 bar, the outlet pressure is adjustable up to 12 bar. The gas inlet connection is W21.7x1/14" 'A', the outlet is fitted with an Ø 8 hose connector. Its maximum nitrogen capacity at 12 bar outlet pressure is 90 Nm<sup>3</sup>/h, 1500 NI/min.

### Normatives

UNI EN ISO 2503:2015 | UNI EN ISO 5171:2010 | UNI EN ISO 9001:2008

### Components

Body, cap and overpressure discharge valve integrated into the pressure regulator, made of CW614N chemically nickel-plated brass.

Pressure adjustment by threaded screw.

Inlet connections are specific according to the type of gas.

One Ø8 mm hose connector on the outlet.

One 0-315 bar inlet pressure gauge, Ø 60 mm, class 2.5.

One 0-16 bar outlet pressure gauge, Ø 60 mm, class 2.5.

Stainless steel springs.

Food-grade NBR diaphragm.

Silicone O-ring.

Teflon seat.

Nylon gaskets.

### Product codes

GAS	INLET CONNECTION	OUTLET CONNECTION	CODE
OXYGEN	G3/4" 'A' DIN	Hose connector Ø 8 mm	HRAL006D
OXYGEN	W21,80x1/14" 'A' DIN	Hose connector Ø 8 mm	HRAL006D2
OXYGEN	G5/8" 'B' DIN	Hose connector Ø 8 mm	HRAL006D3
OXYGEN	SI22,91x1,814 'A' F	Hose connector Ø 8 mm	HRAL006F
OXYGEN	G5/8" 'B' BS	Hose connector Ø 8 mm	HRAL006UK

## Product codes

GAS	INLET CONNECTION	OUTLET CONNECTION	CODE
NITROGEN	W24,32x1/14" 'A' DIN	Hose connector Ø 8 mm	HRAL007D
NITROGEN	W21,80x1/14" 'A' DIN	Hose connector Ø 8 mm	HRAL007D2
NITROGEN	SI21,7x1,814 'A' F	Hose connector Ø 8 mm	HRAL007F
NITROGEN	G5/8" 'B' BS	Hose connector Ø 8 mm	HRAL007UK
HELIUM	W21,80x1/14" 'A' DIN	Hose connector Ø 8 mm	HRAL008D
HELIUM	W24,32x1/14" 'A' DIN	Hose connector Ø 8 mm	HRAL008D2
HELIUM	G3/4" 'A' DIN	Hose connector Ø 8 mm	HRAL008D3
HELIUM	SI21,7x1,814 'A' F	Hose connector Ø 8 mm	HRAL008F
HELIUM	G5/8" 'B' BS	Hose connector Ø 8 mm	HRAL008UK
ARGON	W21,80x1/14" 'A' DIN	Hose connector Ø 8 mm	HRAL009D
ARGON	W24,32x1/14" 'A' DIN	Hose connector Ø 8 mm	HRAL009D2
ARGON	G3/4" 'A' DIN	Hose connector Ø 8 mm	HRAL009D3
ARGON	SI21,7x1,814 'A' F	Hose connector Ø 8 mm	HRAL009F
ARGON	G5/8" 'B' BS	Hose connector Ø 8 mm	HRAL009UK
CARBON DIOXIDE	W21,80x1/14" 'A' DIN	Hose connector Ø 8 mm	HRAL010D
CARBON DIOXIDE	G3/4" 'A' DIN	Hose connector Ø 8 mm	HRAL010D2
CARBON DIOXIDE	SI21,7x1,814 'A' F	Hose connector Ø 8 mm	HRAL010F
CARBON DIOXIDE	W0,860"X14 TPI 'A' BS	Hose connector Ø 8 mm	HRAL010UK

## Technical data

CODE	Q max.	P <sub>1</sub> max.	P <sub>2</sub> max.	INLET CONNECTION	OUTLET CONNECTION	WEIGHT
HRAL006D	90 Nm <sup>3</sup> /h	200 bar	12 bar	G3/4" 'A' DIN	Hose connector Ø 8 mm	4,0 kg
HRAL006D2	90 Nm <sup>3</sup> /h	200 bar	12 bar	W21,80x1/14" 'A' DIN	Hose connector Ø 8 mm	4,0 kg
HRAL006D3	90 Nm <sup>3</sup> /h	200 bar	12 bar	G5/8" 'B' DIN	Hose connector Ø 8 mm	4,0 kg
HRAL006F	90 Nm <sup>3</sup> /h	200 bar	12 bar	SI22,91x1,814 'A' F	Hose connector Ø 8 mm	4,0 kg
HRAL006UK	90 Nm <sup>3</sup> /h	200 bar	12 bar	G5/8" 'B' BS	Hose connector Ø 8 mm	4,0 kg
HRAL007D	90 Nm <sup>3</sup> /h	200 bar	12 bar	W24,32x1/14" 'A' DIN	Hose connector Ø 8 mm	4,0 kg
HRAL007D2	90 Nm <sup>3</sup> /h	200 bar	12 bar	W21,80x1/14" 'A' DIN	Hose connector Ø 8 mm	4,0 kg
HRAL007F	90 Nm <sup>3</sup> /h	200 bar	12 bar	SI21,7x1,814 'A' F	Hose connector Ø 8 mm	4,0 kg
HRAL007UK	90 Nm <sup>3</sup> /h	200 bar	12 bar	G5/8" 'B' BS	Hose connector Ø 8 mm	4,0 kg
HRAL008D	90 Nm <sup>3</sup> /h	200 bar	12 bar	W21,80x1/14" 'A' DIN	Hose connector Ø 8 mm	4,0 kg
HRAL008D2	90 Nm <sup>3</sup> /h	200 bar	12 bar	W24,32x1/14" 'A' DIN	Hose connector Ø 8 mm	4,0 kg
HRAL008D3	90 Nm <sup>3</sup> /h	200 bar	12 bar	G3/4" 'A' DIN	Hose connector Ø 8 mm	4,0 kg
HRAL008F	90 Nm <sup>3</sup> /h	200 bar	12 bar	SI21,7x1,814 'A' F	Hose connector Ø 8 mm	4,0 kg
HRAL008UK	90 Nm <sup>3</sup> /h	200 bar	12 bar	G5/8" 'B' BS	Hose connector Ø 8 mm	4,0 kg
HRAL009D	90 Nm <sup>3</sup> /h	200 bar	12 bar	W21,80x1/14" 'A' DIN	Hose connector Ø 8 mm	4,0 kg
HRAL009D2	90 Nm <sup>3</sup> /h	200 bar	12 bar	W24,32x1/14" 'A' DIN	Hose connector Ø 8 mm	4,0 kg
HRAL009D3	90 Nm <sup>3</sup> /h	200 bar	12 bar	G3/4" 'A' DIN	Hose connector Ø 8 mm	4,0 kg
HRAL009F	90 Nm <sup>3</sup> /h	200 bar	12 bar	SI21,7x1,814 'A' F	Hose connector Ø 8 mm	4,0 kg
HRAL009UK	90 Nm <sup>3</sup> /h	200 bar	12 bar	G5/8" 'B' BS	Hose connector Ø 8 mm	4,0 kg
HRAL010D	90 Nm <sup>3</sup> /h	200 bar	12 bar	W21,80x1/14" 'A' DIN	Hose connector Ø 8 mm	4,0 kg
HRAL010D2	90 Nm <sup>3</sup> /h	200 bar	12 bar	G3/4" 'A' DIN	Hose connector Ø 8 mm	4,0 kg

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## Technical data

CODE	Q max.	P <sub>1</sub> max.	P <sub>2</sub> max.	INLET CONNECTION	OUTLET CONNECTION	WEIGHT
HRAL010F	90 Nm <sup>3</sup> /h	200 bar	12 bar	SI21,7x1,814 'A' F	Hose connector Ø 8 mm	4,0 kg
HRAL010UK	90 Nm <sup>3</sup> /h	200 bar	12 bar	W0,860"X14 TPI 'A' BS	Hose connector Ø 8 mm	4,0 kg

## Technical Images

