TECNOCRYO

PRESSURE REGULATORS

SERIE TCR40B

HIGH PRESSURE REGULATOR FOR HIGH FLOW

INDUSTRIAL GASES

Pressure regulator made of brass for high pressures and high flow rates. For models with outlet-pressure till 25 Bar, the control system is based on convoluted diaphragm, for a better stability and regulation; for models with output pressures higher than 25 bar, the system is controlled by piston. The balanced shutter keeps the outlet pressure almost constant and independentfrom fluctuation of inlet pressure. Designed for the most critical applications such as big distribution plants and fire-fighting systems.

APPLICATIONS:

- Technical applications;
- Automation;
- Industrial process;
- Welding and laser cutting machines;
- Heating and burning systems.

FEATURES:

- Spring loaded diaphragm;
- Raccomanded for non-corrosive gases;
- Suitable for oxygen use;

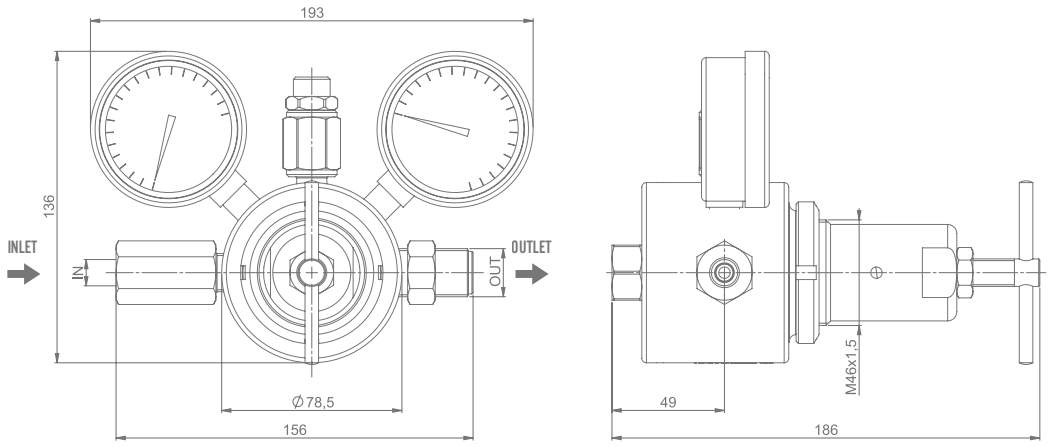
MATERIALS

Body	Brass
Bonnet	Brass
Seals	HNBR – EPDM – SILICONE - FKM
Diaphragm	HNBR – EPDM – SILICONE - FKM
Internal parts	Brass
Shutter	PTFE FI10-02

TECHNICAL DATA

P. max Intet	300 Bar optional 400 Bar
Range pressure out diaphragm	1,5-15 / 2,5÷25 Bar
Range pressure out piston	5÷50 Bar / 20÷200 Bar optional 40-400 Bar
Inlet connections	¼" NPT F alternative bottle connections
Outlet connections	½" Gas M – ½" BSPP M
Flow rate	Membrana/Diaphragm ~ 500 Nm3/h Pistone/Piston ~ 700 Nm3/h
Weight	Membrana/Diaphragm 3.9 kg Pistone/Piston 4,1 kg
Working temp	1-20°C to +100°C*
Conformity to Directive	2014/68/EU PED

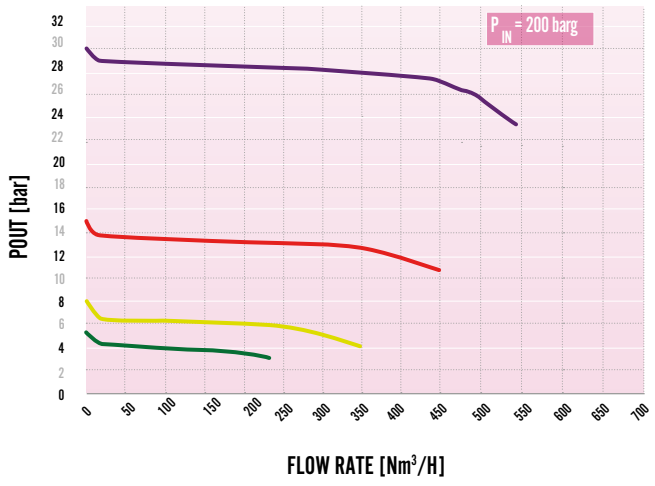
[*] In case of different range of temperature please contact our technical department



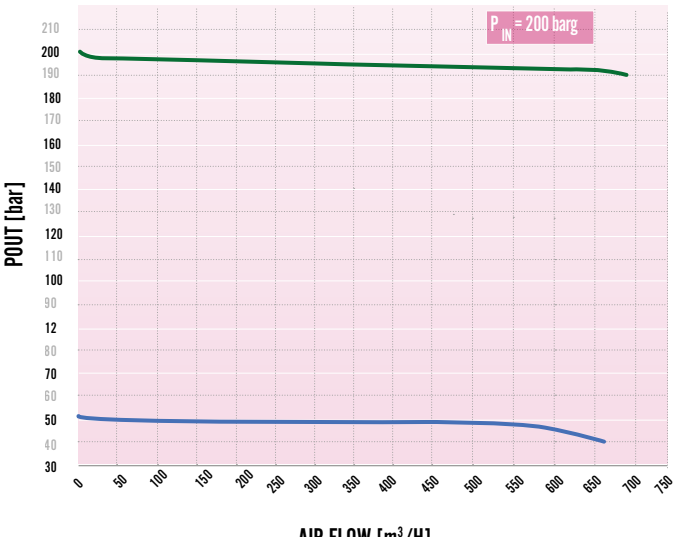
SPECIFICATIONS:

Intlet port	1/4" NPT - 1/4" NPT - Norme UNI - DIN - CGA - NEF - BS
Outlet port	1/2" BSPP - M o alternative 1/2" NPT - F
Weight	3,9 - 4,1 kg
Temperature range	-30°C to +74°C

FLOW CHART Serie: TCR40 Diaphgram version



FLOW RATE Serie: TCR40 Piston version



OPTIONALS:

• Inlet connections for cylindres • Flanges (EN1092-1/ANSI) • With relieving • Execution for liquids • Threaded connection for exhausting gas on bonnet • Lock nut M 46X1,5 cool ARR00167