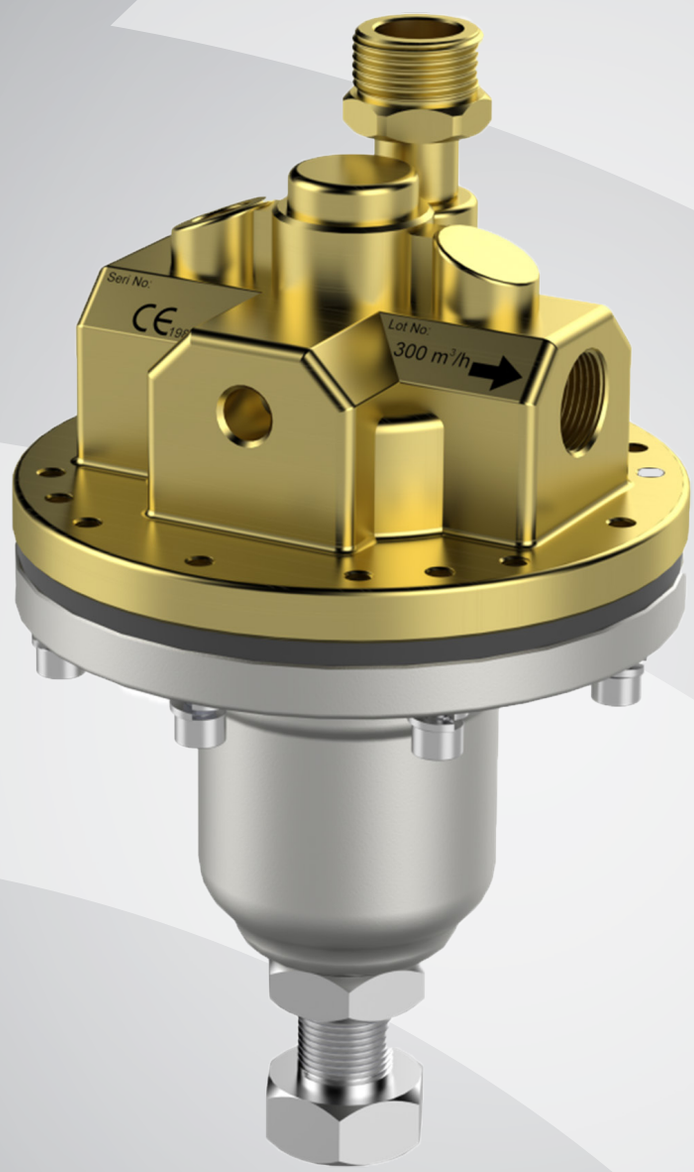
MEGASAN



Pressure Reducers

www.megasan.com.tr

MEGASAN

MEGASAN Medikal entered the sector in 1981 with assembly and maintenance works and started production in 1998.

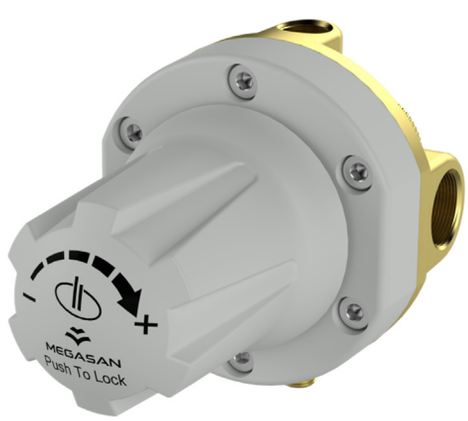
It continues its activities in its production facility established on a total area of 70 thousand m² with a closed area of 14 thousand m². There is also a showroom in Ankara where the R&D and sales departments are located. Today, **MEGASAN Medikal A. Ş.** is one of the largest medical gas manufacturers in Europe. In addition to pressure reducers in its product range, it produces medical gas plants, area valve service units, medical gas outlets, patient service units, intensive care and emergency service units, pendants, gas adapters.

Today, **MEGASAN** has the rightful pride of offering dozens of best quality products and serves in gas installation projecting, installation and maintenance with its modern manufacturing building equipped with sensitive technological devices and equipments, engineers, extremely well-trained technicians, assembly and maintenance personnels. **MEGASAN Medikal**, is proud of its values and determined mind about getting better day by day.

Our aim; By closely following scientific and technological developments and following a policy parallel to the globalization process in the world, we aim to maintain our leading position in our sector and become a more respected company around the world, while also strengthening this leadership.

Megasan, has the CE (Conformity of Europe) certificate which is very rare in the medical sector in Turkey, proudly states once again that while providing the best service to all its customers;

"The quality of our products is our best reference."



Description

Pressure Reducers are medical products that ensure the gas flow from a gas supply which has high pressure gasses. The required medical gases have to be at a certain pressure in order to be useful for patients and other medical devices.

Intended Use:

Pressure Reducers are medical equipment which are used by healthcare professionals in order to ensure that necessary gasses for medical treatments are supplied at required flowrates and pressures.

Environments of Use:

In general, pressure reducers are used in medical gas pipelines, the operating room, intensive care, service rooms, intervention rooms and portable gas cylinders.

Do not use the device in the following environments:

Areas where the oxygen concentration volume percentage is above 25, where combustible gas mixtures or explosive gas mixtures may occur.

Locations where magnetic field applications are performed (e.g. magnetic resonance tomography)

Product Conforming to the following Standards

- ✓ EN ISO 15223-1:2021
- ✓ EN ISO 10524-1:2019
- ✓ EN 62366-1:2015
- ✓ EN ISO 10524-2:2019
- ✓ EN ISO 11197:2016
- ✓ EN ISO 10524-3:2019
- ✓ EN ISO 14971:2020
- ✓ EN ISO 10524-4:2008
- ✓ EN ISO 20417:2021
- ✓ EN ISO 15001:2012
- ✓ EN 60601-1:2009
- ✓ EN ISO 21969:2010
- ✓ EN 60601-1-2:2016
- ✓ EN ISO 15002:2010
- ✓ EN 60601-1-8:2008
- ✓ EN 62304:2009
- ✓ HTM02-01

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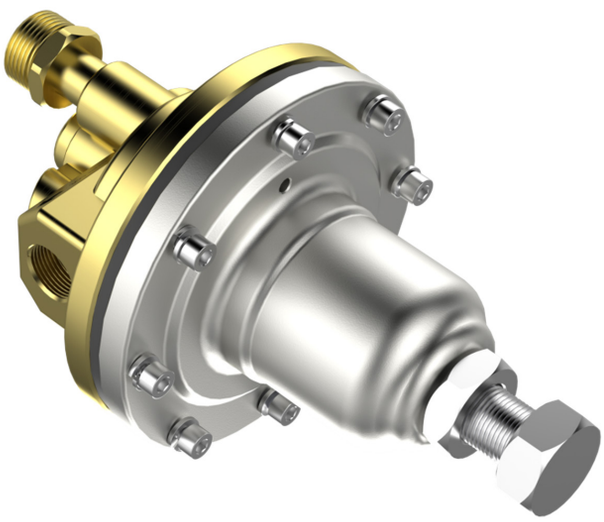
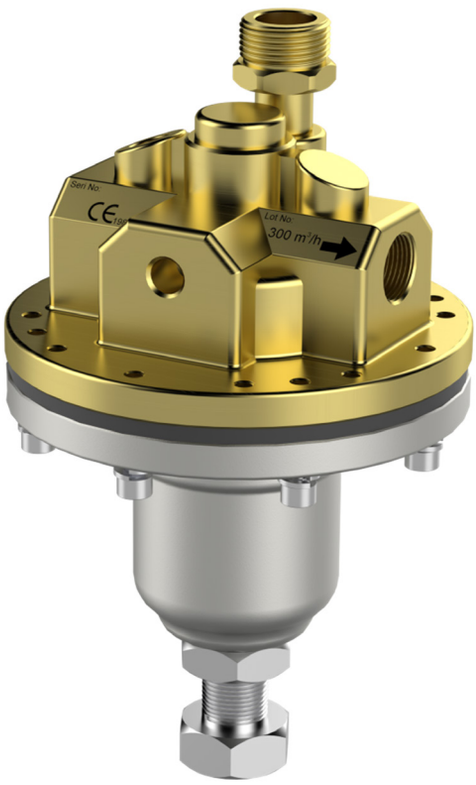
High Pressure Reducer





These are regulators that reduce the high pressure (230 Bar) of medical gases coming out of medical cylinders to the desired pressure values. All gas passages are made of brass and rubber material compatible with medical gases and the regulator is completed with an aluminum cover. There is a bolt that allows the pressure value to be adjusted and a counter nut that ensures that the pressure value is safe and reliable after adjustment. High pressure regulators have manometers to control the input and output pressure values. There is a safety valve at the regulator output to prevent unintentional output pressure values.

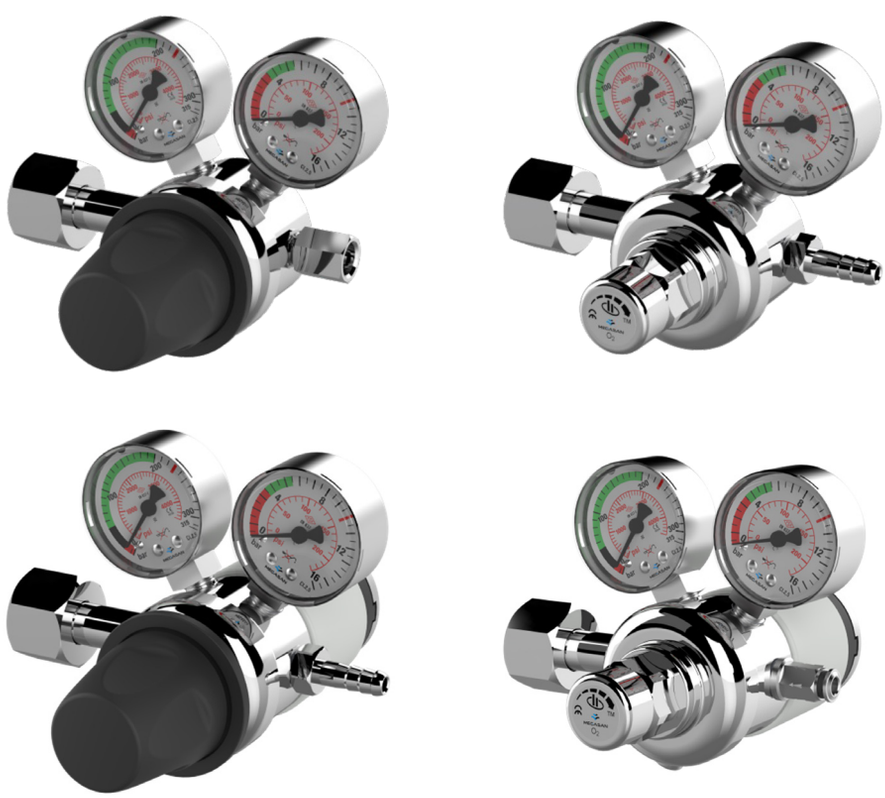
Input Pressure	230 Bar
Output Pressure	0-30 Bar
Operating Temperature	(+10) - (+45)
Surface Materials In Contact With Gas	Brass
Compatible Gases	O_2, N_2O, N_2, CO_2 , Mix.
Input Thread Size	W ½''
Output Thread Size	W ½''
Weight	4,2 kg
Sealing Elements	NBR
Springs In Contact With The Gas	Stainless Steel (302)

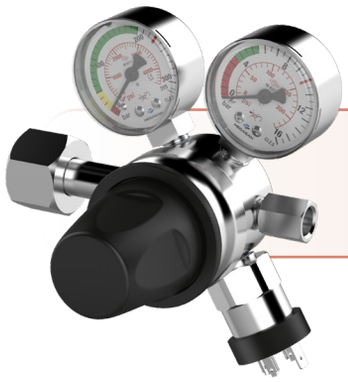
Ambulance Regulator

It is designed with input connections compatible with medical gas cylinders with different output standards.

The Ambulance Regulator is manufactured with fixed adjustment or adjustment handles upon request. Manometers are available to check the input and output pressures of the ambulance regulator. In addition, switch connection for warning and monitoring is optionally available. There is a high-pressure safety relief valve to be formed in the regulator.

Input Pressure	230 Bar
Output Pressure	0-30 Bar
Operating Temperature	(+10) - (+45)
Surface materials in contact with gas	Brass
Compatible gases	O_2, N_2O, N_2, CO_2 , Mix.
Weight	1.1 - 1.5 kg
Sealing Elements	NBR
Springs in contact with the gas	Stainless Steel (302)

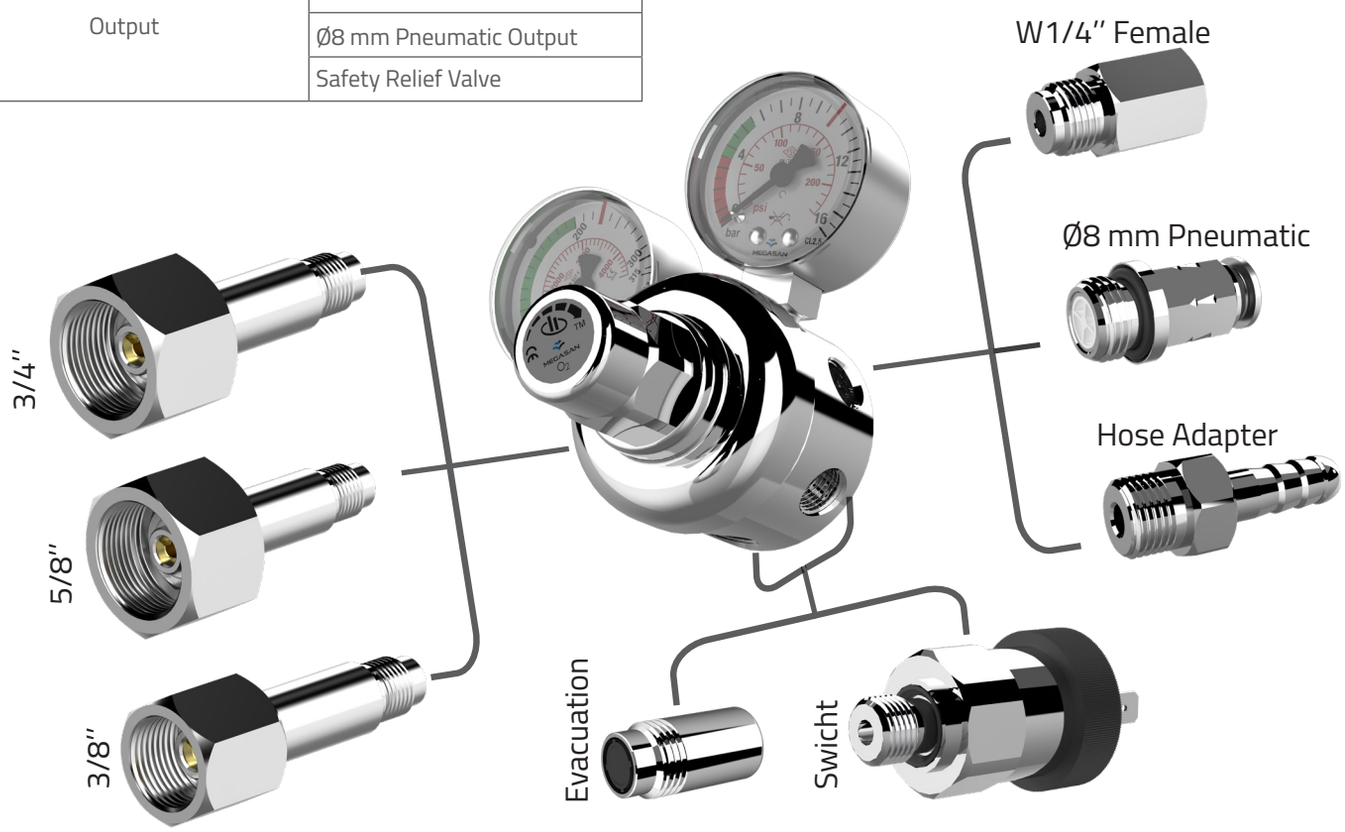




There is a lock mechanism to prevent the regulator adjustment knob from being affected by involuntary external interventions of the set pressure values.

Upon request, gas output is provided to the output of the Ambulance regulator with the connection of the terminal unit (gas socket) compatible with the desired standards.

Optional	
Pressure Sensor	
Input	W3/8"
	W5/8"
	W3/4"
Output	Hose Adapter
	W1/4" Female Tread
	Ø8 mm Pneumatic Output
	Safety Relief Valve



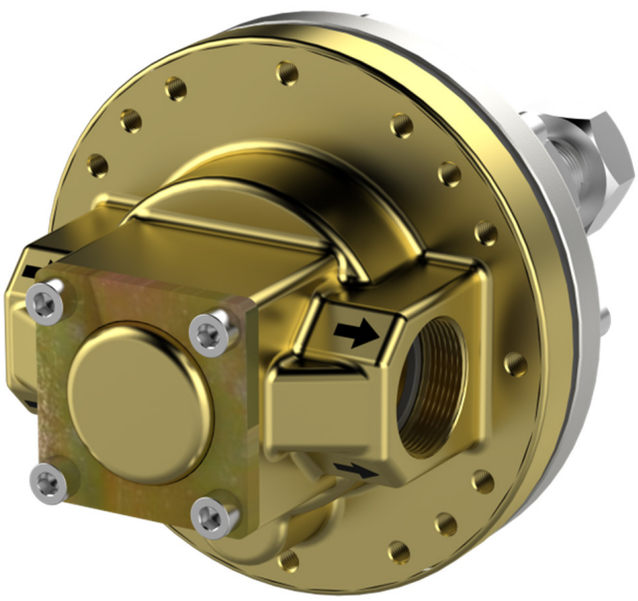
Low Capacity Low Pressure Reducer

These regulator are used for reducing the pressures of medical gasses from 30 bars to desired pipeline pressures. High pressure regulators sometimes gives fluctuating pressure values. Low pressure regulator are used for balancing the total output pressure.

All gas passages are made of brass and rubber material compatible with medical gases. The regulator is completed with an ergonomically designed plastic adjustment handle. It has a locking system that ensures that the pressure value is safe and reliable after adjustment.

Input Pressure	30 Bar Max.
Output Pressure	0-10 Bar
Operating Temperature	(+10) - (+45)
Output Flowrate	150 m3/hour
Surface materials in contact with gas	Brass
Compatible gases	O_2, N_2O, N_2, CO_2 , Mix.
Input Thread Size	W ½''
Output Thread Size	W ½''
Weight	1.2 kg
Sealing Elements	NBR
Springs in contact with the gas	Stainless Steel (302)

High Capacity Low Pressure Reducer



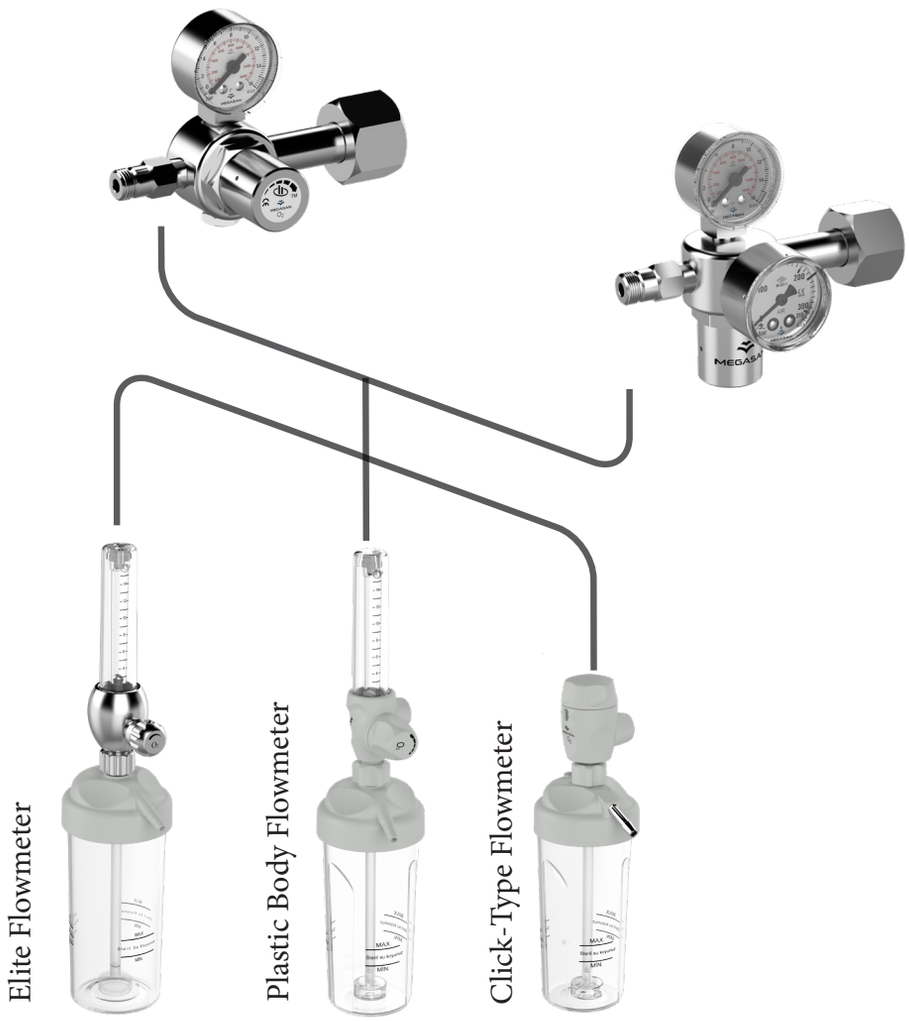
These regulator are used for reducing the pressures of medical gasses from 30 bars to desired pipeline pressures. High pressure regulators sometimes gives fluctuating pressure values. Low pressure regulator are used for balancing the total output pressure.

All gas passages are made of brass and rubber material compatible with medical gases and the regulator is completed with an aluminum cover. There is a bolt that allows the pressure value to be adjusted and a counter nut that ensures that the pressure value is safe and high quality after adjustment. There are manometers to control the input and output pressure values of pressure regulators.

Input Pressure	35 Bar
Output Pressure	0-30 Bar
Operating Temperature	(+10) - (+45)
Output Flowrate	300 m3/hour
Surface materials in contact with gas	Brass
Compatible gases	O_2, N_2O, N_2, CO_2 , Mix.
Input Thread Size	W 1''
Output Thread Size	W 1''
Weight	4,5 Kg
Sealing Elements	NBR
Springs in contact with the gas	Stainless Steel (302)

Therapy Devices

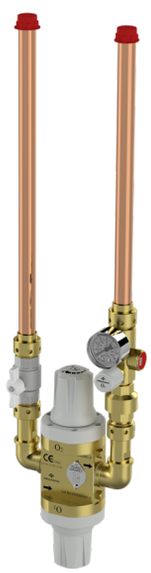
Therapy devices connected to medical gas cylinders reduce the pressures of medical gases and transfer them to the flowmeter connections, allowing the gas flow to reach the patient by adjusting the desired flow rate.



Input Pressure	35 Bar
Output Pressure	0-30 Bar
Operating Temperature	(+10) - (+45)
Surface materials in contact with gas	Brass
Compatible gases	O_2, N_2O, N_2, CO_2 , Mix.
Input Thread Size	W 1/2''
Output Thread Size	W 1/4''
Weight	0.5 - 0.7 kg
Sealing Elements	NBR
Springs in contact with the gas	Stainless Steel (302)

By-Pass Regulator

Thanks to the double-sided regulator system, it is the medical regulator that provides gas flow at the desired pressure values without interruption even during maintenance and repair. The By-Pass system is assembled on a single body without the need for complex assemblies.



Single Output

Dual Output

Input Pressure	10 Bar Max.
Output Pressure	0-10 Bar
Operating Temperature	(+10) - (+45)
Surface materials in contact with gas	Brass
Compatible gases	O_2, N_2O, N_2, CO_2 , Mix.
Input Thread Size	W 1/2''
Output Thread Size	W 1/2''
Weight	5,8 - 6,2 kg
Sealing Elements	NBR
Springs in contact with the gas	Stainless Steel (302)

MEGASAN

MEDİKAL GAZ SİSTEMLERİ TIBBİ ALET ve CİHAZLAR A.Ş.

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