

II SECOND STAGE REDUCTION UNITS



Medical Devices

IIB Class

CE 0425

TECHNICAL SPECIFICATIONS

Second stage reduction units are designed for medical gas distribution systems, reducing line pressure from 8 bar (or 10 bar) to a final operating pressure of 3.5 / 4 bar (or 8 bar).

The system ensures stable delivery pressure, low pressure drop, and continuous gas flow for end-use applications.

Main Features

- Pressure reduction from 8–10 bar to 3.5 / 4 / 8 bar
- Flow capacity from 45 m³/h to 70 m³/h
- Low pressure drop design for efficient gas delivery
- Available in: Semi-recessed cabinet, Surface-mounted cabinet
- Cabinet equipped with: Front door, Sicure Lock: safety locking system, Pressure gauge inspection window
- Compatible outlet standards:
AFNOR-UNI-NIST
- Integrated non-return safety device below pressure gauges
- Pressure switches included as standard
- Optional pressure transducer available
- Manufactured entirely in high-resistance brass alloy
- Designed for medical gas pipeline systems

PARAMETER	SPECIFICATION
Inlet Pressure	8 bar / 10 bar
Outlet Pressure	3.5 bar / 4 bar / 8 bar
Flow Capacity	45–70 m ³ /h
Installation Type	Semi-recessed or surface-mounted
Cabinet Closure	Sicure Lock safety system
Pressure Monitoring	Front inspection window
Outlet Standards	AFNOR / UNI / NIST
Safety Device	Integrated non-return valve
Optional Accessories	Pressure transducer
Standard Accessories	Pressure switches
Construction Material	High-resistance brass alloy
Application	Medical gas distribution systems

Safety Features

- Non-Return Safety Device
- Installed below the pressure gauges to prevent gas leakage in case of: Gauge damage, Incorrect gauge calibration, Pressure gauge failure
- This system improves operational safety and minimizes unwanted gas escape.

Monitoring and control

The unit can be equipped with:

- Pressure switches (standard)
- Pressure transducers (optional)

These devices allow:

- Pressure signal conversion into electrical output
- Automated monitoring
- System integration with alarm/control systems
- Improved precision and gas flow management

Reliability

The second stage reduction units are manufactured entirely from high-resistance brass alloy, ensuring:

- Long-term durability
- Corrosion resistance
- Operational reliability
- Stable pressure regulation

Designed specifically for medical gas systems, the units guarantee safe and continuous gas distribution under demanding operating conditions.

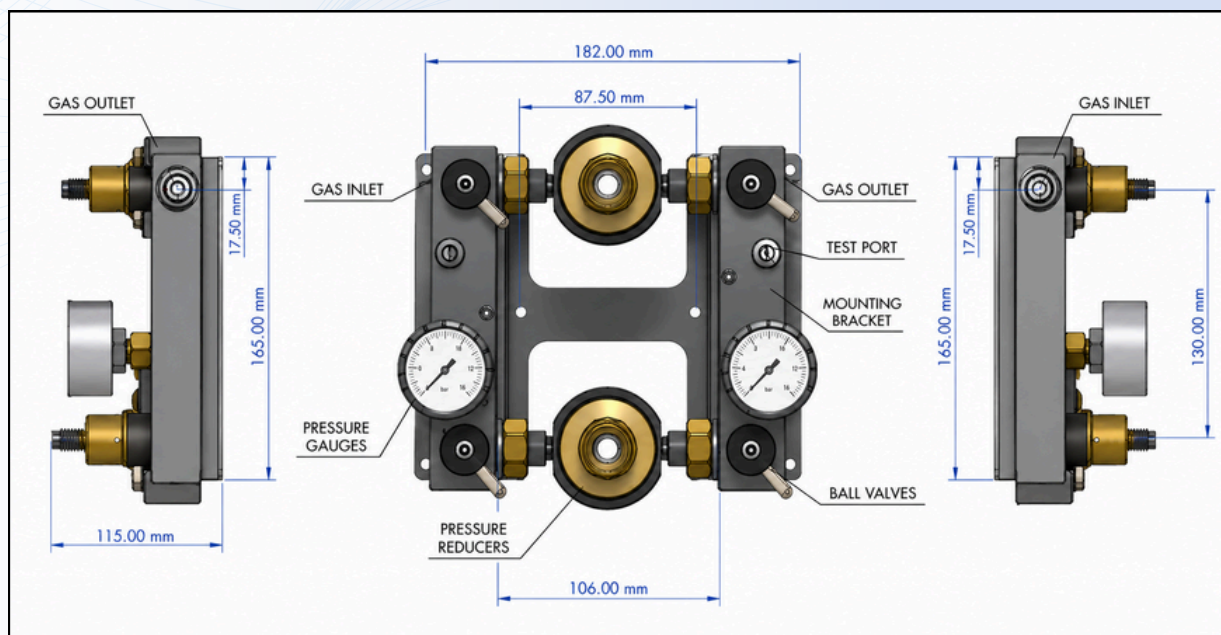
Performance

The units are designed to provide:

- Stable operating pressure
- Continuous regulated gas flow
- High operational safety
- Reliable long-term performance

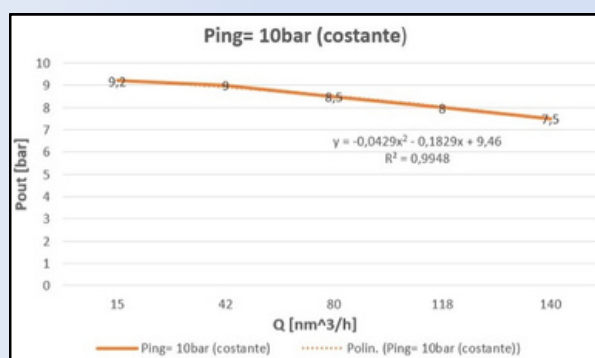
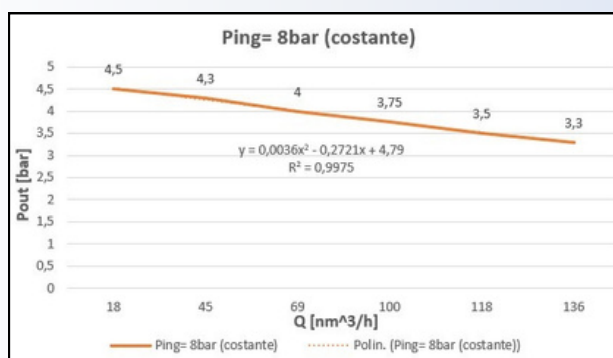
APPLIED STANDARDS

- Directive 93/42/EEC (MDD) and Regulation (EU) 2017/745
- UNI EN ISO 7396-1
- UNI EN ISO 10524-2
- UNI EN ISO 15001
- Ministerial Decree 25/03/2015 (Italy)



Recessed Cabinet Dimensions (mm) – (A/Alarm)

	RECESSED MOUNTING WIDTH	OVERALL WIDTH + FRAME	RECESSED HEIGHT	OVERALL HEIGHT + FRAME	RECESSED MOUNTING DEPTH	OVERALL DEPTH + FRAME
1G+V	454	536	342	395	96	132
1G+V+A	454	536	542	595	96	132
2G+V	454	536	542	595	96	132
2G+V+A	454	536	741	795	96	132
3G+V	454	536	741	795	96	132
3G+V+A	454	536	941	995	96	132
4G+V	454	536	941	995	96	132
4G+V+A	454	536	1142	1195	96	132
5G+V	454	536	1142	1195	96	132



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