



BASELINE® V 106P/1.

Electrically heated single stage cylinder regulator.



V106P/1

Description

As carbon dioxide (CO₂) or nitrous oxide (N₂O) passes through a regulator seat, dry ice can form if the flow is too high, causing the regulator to freeze up. The V106P/1 regulators are specifically designed to prevent freeze-up problems associated with high flows of CO₂ and N₂O. The V106P/1 regulators are generally recognised as safe (GRAS) and are suitable for use with FDA's GRAS-approved food additive gases and with process gases in pharmaceutical production. The regulators are also suitable for food gas packaging according to the European Commission Regulation 1935/2004.

Key features

- Capsule seat – Increased serviceability and life
- 316L stainless steel diaphragm – No inboard diffusion
- Low wetted surface area – Minimal purge requirements
- Convoluted diaphragm – Smooth pressure changes
- Compact design – Easily transported and integrated

Product name	bar	psi	Voltage	HiQ® code
V 106P/1, brass	0–1	0–15	120 VAC	6200
V 106P/1, brass	0–2	0–30	120 VAC	6201
V 106P/1, brass	0–3.5	0–50	120 VAC	6202
V 106P/1, brass	0–7	0–100	120 VAC	6203
V 106P/1, brass	0–12	0–175	120 VAC	6204
V 106P/1, brass	0–1	0–15	220 VAC	6205
V 106P/1, brass	0–2	0–30	220 VAC	6206
V 106P/1, brass	0–3.5	0–50	220 VAC	6207
V 106P/1, brass	0–7	0–100	220 VAC	6208
V 106P/1, brass	0–12	0–175	220 VAC	6209

Technical data

Max primary pressure	210 bar	3,000 psi
Outlet gauge range	0–2.1 bar	0–30 psi
	0–4.1 bar	0–60 psi
	0–6.9 bar	0–100 psi
	0–13.8 bar	0–200 psi
Connection	Out = NPT ¼" female	
Temperature range	35–49°C	95–120°F
Weight	2.45 kg	5.41 lb
Heaters	3@50 watts each (110 or 220 VAC)	
Helium Leak Integrity	1 x 10 ⁻⁸ scc/sec	
C _v	0.1	
Flow	suitable for food gas: CO ₂ (higher than 2.5 m ³ /h)	suitable for food MAP mixtures: more than 25% CO ₂ in balance (higher than 5 m ³ /h)
Material		
Body	Chrome-plated brass barstock	
Bonnet	Chrome-plated die cast zinc	
Seat	PTFE	
Filter	10 micron sintered bronze	
Diaphragm	316L stainless steel	
Internal Seals	PTFE	

Flow characteristics

