



## **LAB SERIES EMD 3100**

**LOW PRESSURE - POINT OF-USE EQUIPMENT**

## LABORATORY PRESSURE REGULATORS EMD 3100 - SURFACE MOUNTED



Wall mounted  
rear inlet straight  
(Version W)

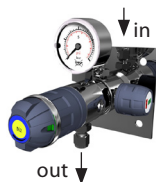
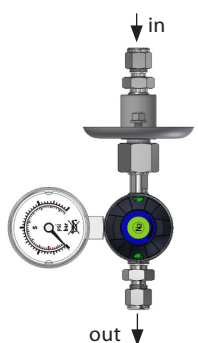
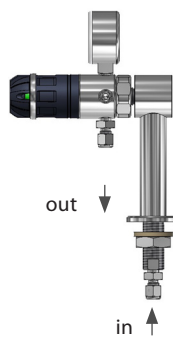


Plate mounted  
inlet, from top  
(Version P)



Hanging version  
top inlet  
(Version HW)



Bench mounted  
bottom inlet  
(Version T)

**Single-stage, for inert, reactive, flammable and oxidizing gases and gas mixtures, purity max. 6.0.**  
**EMD 3100: Inlet pressure 40 bar, downstream pressure 0.1-10 bar**  
**EMD 3104 (analytic version): Inlet pressure 12 bar, downstream pressure 0.1-4.4 bar**

### SPECIAL FEATURES

- Pressure regulator with integrated shut-off function
- Coloured identification of shut-off positions
- Highly compact form
- ECD-compliant
- Ergonomic positioning of the operational elements
- User-friendly system solutions for laboratory applications
- Adjustment knob with gas type identification according to DIN EN 13792
- Analytic version optionally available

### DESCRIPTION

The basic version of this pressure regulator with gauge includes an integrated quick-closing function. The gas type is indicated on the front side of the pressure regulator with the appropriate decal. The wall mounting use a wall adaptor or a wall mounting plate; the gas supply is brought in through the wall. Further installation versions (on mounting plates) allow for the gas supply to come from the top or the bottom. The bench mounting or the wallmounted version is simply and flexibly accomplished with the help of the same adaptor. Numerous other variations are possible.

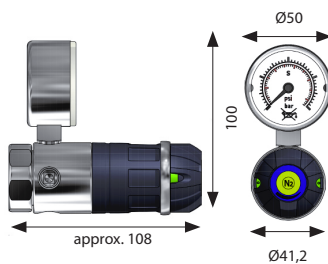
### APPLICATION

This highly compact, space saving designed laboratory point-of-use regulator is suitable for surface wall mounting, for installation on tables or a wallmounted version as well as the installation in diverse supply channels. The systems versatile configuration options cover all the customary lab applications and fit to all laboratory furnishings. An analytic version (LAB 3104) is specially designed for low pressure applications in the automotive industry and offers extremely fine adjustment possibilities for pressure and flow rate.

### TECHNICAL DATA

Body:	Stainless steel 316L (1.4404) specially cleaned and electro-polished or brass
	CW614 (CuZn39Pb3) specially cleaned, nickel-plated and chrome-plated
Gauge:	Safety gauge according to EN 837-1
	Nominal width 50 mm, class of accuracy 2.5
Pressure gauge range:	0 - 2.5 / 6 / 16 bar, 0 - 3 / 6 bar (Type 3104)
Dimensions (wxhxd):	Approx. 50x100x108 mm
Weight:	Approx. 0.64 kg (Basic body)
Inlet - Outlet:	G 3/8" f or G 1/4" f, G 1/4" m (depending on version)
	NPT 1/4" f (available for version with rear wall adaptor)
Temperature range:	-25 °C to +70 °C / -13 to 160 °F

### DIMENSIONS



Basic body (VERSION O)

### ORDER CODE

Type	Periphery	Material	Upstream pressure	Downstream pressure	Surface mounted versions	Inlet	Outlet	Gas type
<b>EMD 3100</b>	<b>-01</b>	<b>BC</b>	<b>E</b>	<b>4</b>	<b>0</b>	<b>CL6</b>	<b>CL6</b>	<b>GAS</b>
<b>EMD 3100</b> = Standard	<b>-01= Pressure regulator (MD)</b>	BC= Brass	<b>E= 40 bar</b>	1.5= 0.2-1.5 bar	0= Basic module	<b>G3/8"-F</b>	<b>G1/4"-F</b>	<b>HYDROGEN</b>
<b>EMD 3104</b> = Analysis version	<b>-06= MD + Pre-shut-off valve</b>	SS=Stainless steel	D=12 bar (only for EMD 3104)	4= 0.2-4 bar	<b>P= Plate Mounting</b>	CL6**	CL6**	
	<b>-07= MD +LP-flame arrestor</b>		A= 1.5 bar ***	<b>10= 0.5-10.5 bar</b>	W= Wall Mounting	CL8**	CL8**	
	<b>-08= MD +LP-MVAR</b>				T= Bench mount standard	CL10**	CL10**	
	<b>-10= MD + Pre-shut-off valve + LP-MVAR</b>				TA= Bench mount 30° angle			
					H= Hanging version standard			
					HW= Hanging version wall adapter			

\*G1/4" F, G3/8" F or NPT 1/4" F (depending on version).

\*\* CL = compression fitting for tube; standard: 6 mm. Other compression fittings for imperial or metric tubes available on request.

\*\*\* Type A is available for Acetylene only.