## TESC@M

# MiniLabo 2

## Regulators - Pressure Reducing

DCATLABO1209XEN2

## **Specifications**

For other materials or modifications, please consult TESCOM.

#### **FLUID MEDIA**

Non-corrosive / corrosive gases and mixtures up to 6.0 (99.9999 Vol%) purity

#### **OPERATING PARAMETERS**

Pressure rating per criteria of ANSI/ASME B31.3

#### **Maximum Inlet Pressure**

580 psiq / 40.0 bar

#### **Outlet Pressure Ranges**

22, 58, 145 psig / 1.5, 4.0, 10.0 bar

#### **Leak Rate**

10-8 mbar I/s He

### **Operating Temperature**

-4°F to 158°F / -20°C to 70°C

#### **Nominal Flow Rate**

100 LPM based on Nitrogen

### MEDIA CONTACT MATERIALS

### Body

316L Stainless Steel or Chrome-plated Brass

### Diaphragm

Elgiloy® or Hastelloy®

## **OTHERS**

### **Porting Inlet or Outlet**

G 1/4" Female

Valve Outlet G 1/8" Female

Optional with Adapter 1/4" NPT

## **Inlet or Outlet Connections**

See Part Number Selector

#### Mounting

Wall Mounting Plate 75x100 mm Aluminum Grey/White

#### Cleaning

Cleaned for Oxygen Service

### Weight (approximate)

**Brass:** 1.5 lbs / 0.7 kg

Stainless Steel: 2.6 lbs / 1.2 kg

Hastelloy® is a registered trademark of Haynes International, Inc. Elgiloy® is a registered trademark of Elgiloy Corp.



TESCOM MiniLabo 2 Point-of-Use regulator for non-corrosive/corrosive gases and mixtures up to 6.0 (99.9999 Vol %) purity with a compact, modular and ergonomic design.

## **Applications**

- Reduction of line pressure to working pressure
- Laboratory, R&D and analyzer applications
- Suitable for ECD (Electronic Capture Detector) applications

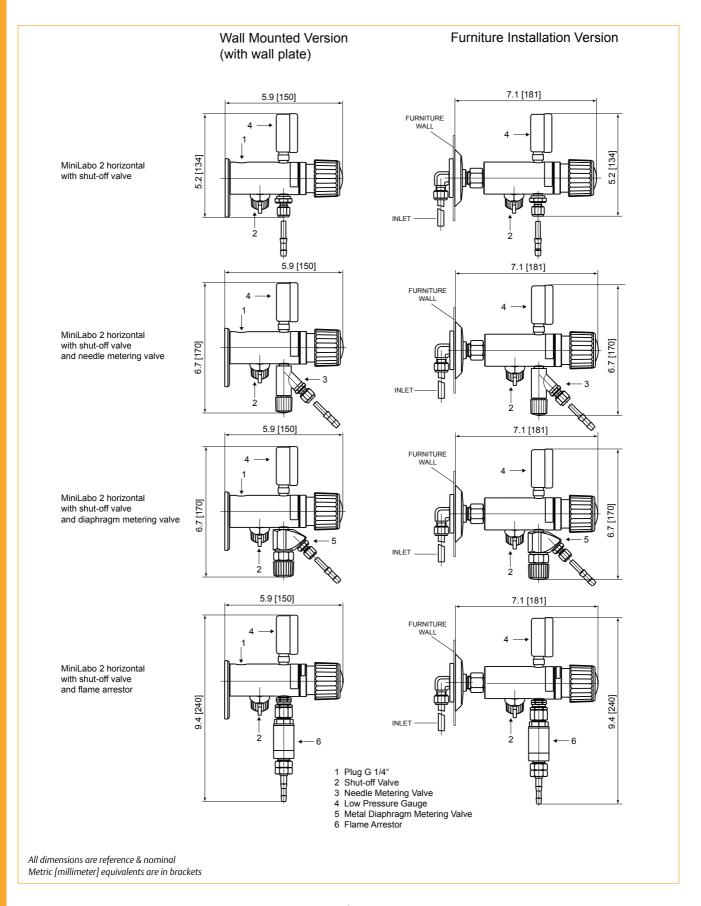
## **Features and Benefits**

- Clear indication of open/closed position (90°) of shut-off valve
- Minimal space for installation required because pressure regulator and shut-off valve are integrated in one body
- Reduced internal volume, short purging times
- Modular design featuring a pressure regulator, gauge, 1/4 turn shut-off valve and metering valve
- Easy installation due to wall mounting plate



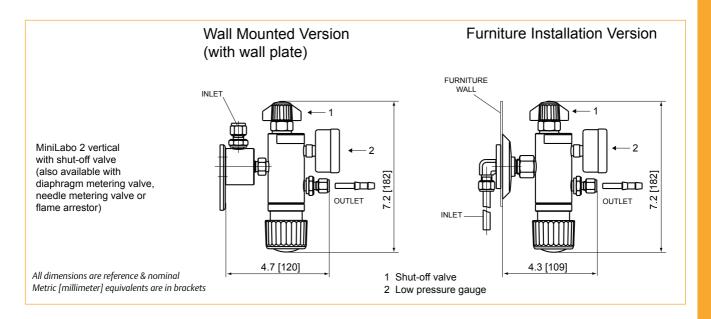
# **TESCOM**

# **MiniLabo 2 Regulator Horizontal Drawings**



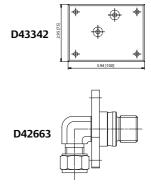


## **MiniLabo 2 Regulator Vertical Drawings**



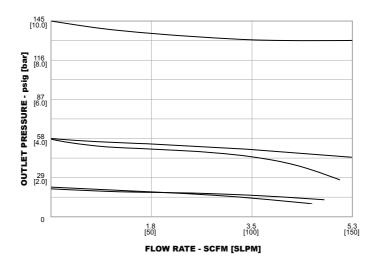
# **Accessories for Wall Mounting**

PART NUMBER	DESCRIPTION
D43342	Wall mounting plate, grey white, thickness 6 mm
D43371	Kit countersunk screws + dowels for wall plate
D42663-00-X	Wall plate, Brass, including elbow compression fitting 6, 8, or 10 mm
D42663-22-X	Wall plate, Stainless Steel, including elbow compression fitting 6, 8, or 10 mm
V09166	Wall plate cover
D42572	Gas label (please, state gas type)



# MiniLabo 2 Regulator Flow Chart

For more information on how to read flow curves, please refer to the Flow Curves and Calculations document (debul2007x012) in the TESCOM catalog or on www.tescom.com.





# MiniLabo 2 Regulator Part Number Selector

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

Example for selecting a part number:

D43483 -	- AR -							03 -						D										1				
BASIC SERIES	TYPE OF GAS						OUTLET CONNECTION						INLET CONNECTION											PRESSURE RANGE				
	AO - Oxygen	AR - Other gases	AK - Corrosive gases	20 - Ammonia *	22 - Acetylene*	23 - Carbon monoxide	00 - None (G 1/4" internal)	2 - Compression Fitting G 1/8"	03 - Compression Fitting ø 6 mm	4 - Compression Fitting G 1/4"	05 - Compression Fitting ø 6 mm with hose connection ø 6 mm	A - G 1/4" female top	-G 3/8" ball cone rear	C - G 3/8" metal cone fitting top	D - G 3/8" ball cone bottom	E - G 1/4" female top with wall mounting plate	F - Compression fitting 8 mm with wall mounting plate	G - Compression fitting 10 mm with wall mounting plate	H - G 1/4" female rear	J- Compression fitting 6 mm with wall mounting plate	K - Compression fitting 12 mm with wall mounting plate	1 - 21.8 psig / 1.5 bar	- 58 psig / 4 bar not for Acetylene	3 - 145 psig / 10 bar not for Acetylene	4 - 43.5 psig / 3 bar not for Acetylene	5 - 72.5 psig / 5 bar not for Acetylene and Hydrogene		
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D43372 Brass	Х	Х		Х	Х		X	X	IDO 2	поп	X	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ		-		
D43373 Brass, needle valve	X	X		X	X		X	X		Х	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
D43374 Brass, metal diaphragm metering valve	Х	Х		Х	Х		Х	Х		Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х				
D43375 Brass flame arrestor	Χ	Χ		Χ	Χ						Х	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X**		Χ	X**		
						iniLa			zonta	al Bra	ss wit	h Shu		f Valv														
D43376 Brass, shut-off valve	Х	Χ		Χ	Х		Х	Χ			Χ	Х	Х	Х	Χ	Χ	Χ	Χ		Χ	Χ	Х	Χ	Χ				
D43377 Brass, shut-off valve, needle valve D43378 Brass, shut-off valve,	Х	Х		Х	Х		Х	Х			X	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	Х	Х				
metal diaphragm metering valve	Х	Х		Х	Х		Х	Х			Х	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	Х	Х				
D43379 Brass, shut-off valve, flame arrestor	Х	Х		Х	Х						Χ	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	X**		Χ	X**		
MiniLabo 2 Horizontal Stainless Steel																												
D43482 Stainless Steel	Х	Х	Х	Χ	Х	Χ	Х	Х			Х	Х	Х	Х	Х	Х	Χ	Χ		Χ	Х	Х	Х	Х				
D43483 Stainless Steel, metal diaphragm metering valve	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	Х	Х				
				IV	liniLa	bo 2	Hori	zonta	al Sta	inles	s Stee	eel with Shut-Off Valve																
D43484 Stainless Steel, shut-off valve	Х	Х	Х	Х	Х	Х	Х	Х	Х		Χ	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	Х	Х				
D43485 Stainless Steel, shut-off valve, metal diaphragm metering valve	х	Х	Х	Х	Х	Х	Х	Х	х		Х	Х	Х	Х	Х	х	Х	Х		х	Х	Х	х	х				
								Mini	Labo	2 Ver	tical E	Brass																
D43380 Brass, shut-off valve D43381 Brass, shut-off valve	X	X	X	X	X	X	X	X			X X	X	X									X X	X	X X				
with needle valve D43382 Brass, shut-off valve																												
with metal diaphragm metering valve	Х	Х	Х	Х	Х	Х	Х	Х			Х	Х	Х									Х	Х	Х				
D43383 Brass, shut-off valve with flame arrestor	Х	Χ	Х	Х	Х	Χ	Х	Х			Х	Х	Х									Х	Χ	Х				

## <u>X available</u>

Gas specific label available on request. Please mention gas type when ordering.



<sup>\*</sup> Only for outlet pressure 22 psig / 1.5 bar \*\* Not for Acetylene and Hydrogen