TESCOM[™] Pressure Reducing Regulators

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 psig / 40.0 bar

Outlet Pressure Ranges

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

10⁻⁸ mbar l/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

Cobalt Chrome Nickel Alloy (Eligiloy®) or Nickel Alloy (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 noncorrosive/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



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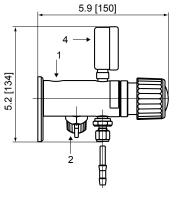
MINILABO 2 SERIES

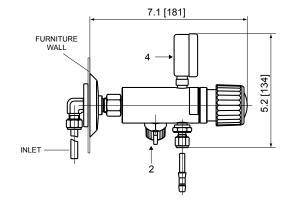
MiniLabo 2 Regulator Horizontal Drawings

Wall Mounted Version (with wall plate)

Furniture Installation Version

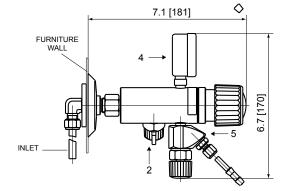
MiniLabo 2 horizontal with shut-off valve



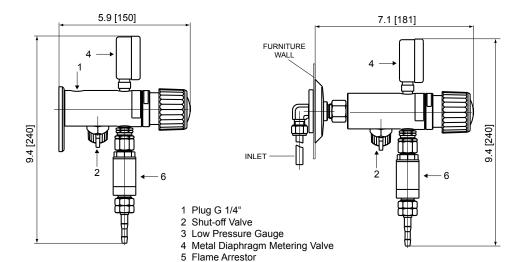


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MiniLabo 2 horizontal with shut-off valve and diaphragm metering valve



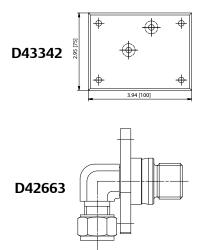
All dimensions are reference & nominal Metric [millimeter] equivalents are in brackets



MiniLabo 2 horizontal with shut-off valve and flame arrestor

Accessories for Wall Mounting

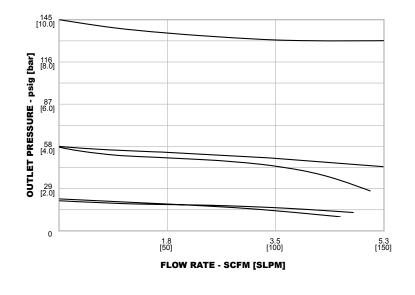
PART NUMBER	DESCRIPTION										
D43342	Wall mounting plate, grey white, thickness 6 mm										
D43371	Kit countersunk screws + dowels for wall plate										
D42663-00-X	Wall plate, Brass, including elbow compression fitting 6, 8, or 10 mm										
D42663-22-X	Wall plate, Stainless Steel, including 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.

All curves with P1 = 290 PSI [20 bar]





MINILABO 2 SERIES

MINILABO 2 Series Regulator Part Number Selector

Learn more about common options. For modifications, repair kits and accessories, contact factory.

Example for selecting a part number:

D43483 -	- AR				03 -						D									1				
BASIC SERIES	TYPE OF GAS				OU	TLET	CON	NECT	INLET CONNECTION									PRESSURE RANGE						
	AR - Other gases	20 - Ammonia *	22 - Acetylene*	23 - Carbon monoxide	00 - None (G 1/4" internal)	02 - Compression Fitting ø 1/8"	03 - Compression Fitting ø 6 mm	04 - Compression Fitting ø1/4"	05 - Compression Fitting ø 6 mm with hose connection ø 6 mm	A - G 1/4" female top	B - G 3/8" ball cone rear	C - G 3/8" ball cone 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	2 - 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
				M	liniLa	bo 2	Horiz	zonta	l Bras	s wit	h Shu	ıt-Of	f Valv	/e										-
D43376 Brass, shut-off valve	Х	Х	Х		Х	Х			Х	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	Х	Х		
D43378 Brass, 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		
D43379 Brass, shut-off valve, flame arrestor	х	х	х						х	х	х	х	х	х	х	х		х	х	х	X**		х	X**
			N	liniLa	abo 2	Hori	zonta	al Sta	inless	Stee	l witl	n Shu	ıt-Off	Valv	e									
D43484 Stainless Steel, shut-off valve	х	х	х	х	х	х	х		Х	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	x	х		х	x	x	x	х		

<u>X available</u>

* Only for outlet pressure 22 psig / 1.5 bar ** Not for Acetylene and Hydrogen

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

