# Ultra High Purity MiniLabo 2

**Regulators - Pressure Reducing** 

### **Specifications**

For other materials or modifications, please consult TESCOM.

#### FLUID MEDIA

For corrosive and non-corrosive gases and mixtures

#### OPERATING PARAMETERS Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure

580 psig / 40.0 bar

Maximum Outlet Pressure 22, 58, 145 psig / 1.5, 4.0, 10.0 bar

**Leakage Rate Against Atmosphere** 10<sup>-8</sup> mbar l/sec He each connection

Nominal Flow Rate 1-200 LPM based on Nitrogen

**Operating Temperature** -4°F to 158°F / -20°C to 70°C

#### MEDIA CONTACT MATERIALS

Material Body: 316L Stainless Steel Diaphragm: Elgiloy<sup>®</sup> / Hastelloy<sup>®</sup>

Seat Valve: PCTFE Pressure Reducer: PTFE

#### OTHER

Cleaning

Cleaned for Oxygen Service

Connections Inlet and Outlet: 1/4" HPIC High Purity Internal Connection (HPIC) designed for use with 1/4" swivel VCR<sup>®</sup> (or compatible fittings) Gauge: 1/4" Internal VCR<sup>®</sup>

### Weight (approximate)

2.7 lbs / 1.2 kg

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



TESCOM Ultra High Purity MiniLabo 2 is a point-of-use regulator for high purity applications with a compact, modular ergonomic design. All connections are 1/4" Internal VCR<sup>®</sup> for reduced leak rates.

### Applications

- High purity applications
- Reduces line pressure to working pressure
- Laboratory, research & development and analyzer applications

### **Features and Benefits**

- Minimized internal volume
- All connections are 1/4" Internal VCR<sup>®</sup> for reduced leak rates
- Compact and economical design
- Ease of use by ergonomic handwheels
- Pressure regulator and 1/4 turn shut-off valve integrated in one body
- Includes low pressure gauge and a wall mounting plate
- Suitable for gases up to purity 6.0



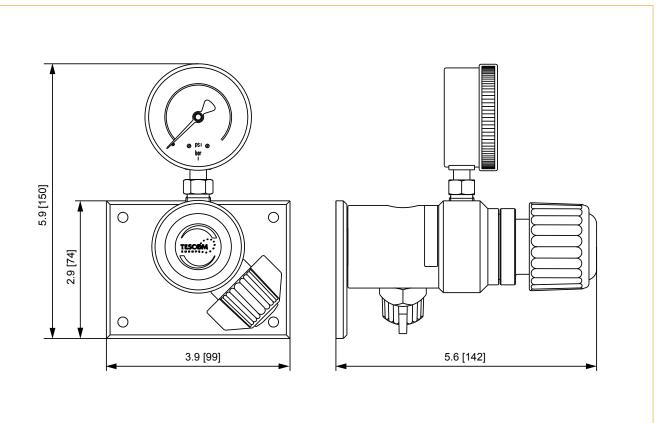
### DCATLABO12133XEN2





## **TESC**ØM

## Ultra High Purity MiniLabo 2 Regulator Drawing



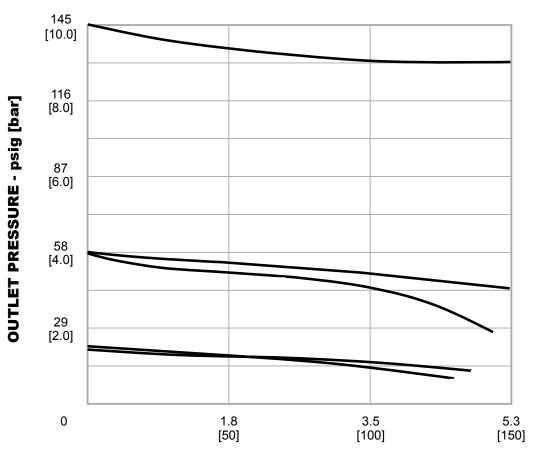
All dimensions are reference & nominal Metric [millimeter] equivalents are in brackets



## **TESC**ØM<sup>®</sup>

### Ultra High Purity 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.



FLOW RATE - SCFM [SLPM]



## TESCØM

### Ultra High Purity 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:

D45372 -	2
BASIC SERIES	PRESSURE RANGE
<b>D45372</b> MiniLabo 2 Ultra High Purity Point-of-use regulator with wall mounting plate and metal diaphragm	1 – 22 psig / 1.5 bar 2 – 58 psig / 4.0 bar 3 – 145 psig / 10.0 bar

### Accessories for Wall Mounting

D43371 Kit countersunk screws + dowels for wall plate
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WARNING! Do not attempt to select, install, use or maintain this product until you have read and fully understood the TESCOM Safety, Installation and Operation Precautions.

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