## **Specifications**

For other materials or modifications, please consult TESCOM.

## **OPERATING PARAMETERS**

Pressure rating per criteria of ANSI/ASME B31.3

#### **Maximum Inlet Pressure**

6000 psig / 414 bar

### **Outlet Pressure Ranges**

**Low Pressure:** 0-220 psig / 0-15.2 bar **High Pressure:** 0-1800 psig / 0-124 bar

## **Design Proof Pressure**

150% maximum rated

### Leakage

Bubble-tight

### **Operating Temperature**

-15°F to 165°F / -26°C to 74°C

-65°F to 165°F / -54°C to 74°C with Buna-N O-rings Up to 400°F / 204°C with Vespel® or PEEK Seat

## **Flow Capacity**

 $C_{V} = 0.06$ 

## MEDIA CONTACT MATERIALS

#### Body

Aluminum 6061 (Nickel-plated)

#### Seat

CTFE, PEEK, or Vespel®

## O-Rings

See Part Number Selector

## **Remaining Parts**

300 Series Stainless Steel or Aluminum

## **OTHER**

### Connections

1/4" NPTF or SAE

### Cleaning

CGA 4.1 and ASTM G93

## Weight (approximate)

0.5 lbs / 0.2 kg

Vespel®, Viton®, and Kalrez® are registered trademarks of E.I. du Pont de Nemours and Company.



TESCOM BB-1 Series high pressure, low flow, miniature pressure reducing regulator provides six outlet pressure ranges available up to 1800 psig / 124 bar outlet. This non-venting regulator is small and compact, weighing approximately 0.5 lbs / 0.2 kg in the standard aluminum construction.

# **Applications**

- Portable equipment
- OEM equipment

## **Features and Benefits**

- Durable piston-sensed design
- Outlet pressure ranges are field adjustable
- Two and four 1/4" NPTF or SAE ports are standard
- Minimal soft goods
- Non-venting
- Two-stage and cartridge versions are available
- 316 Stainless Steel construction is available

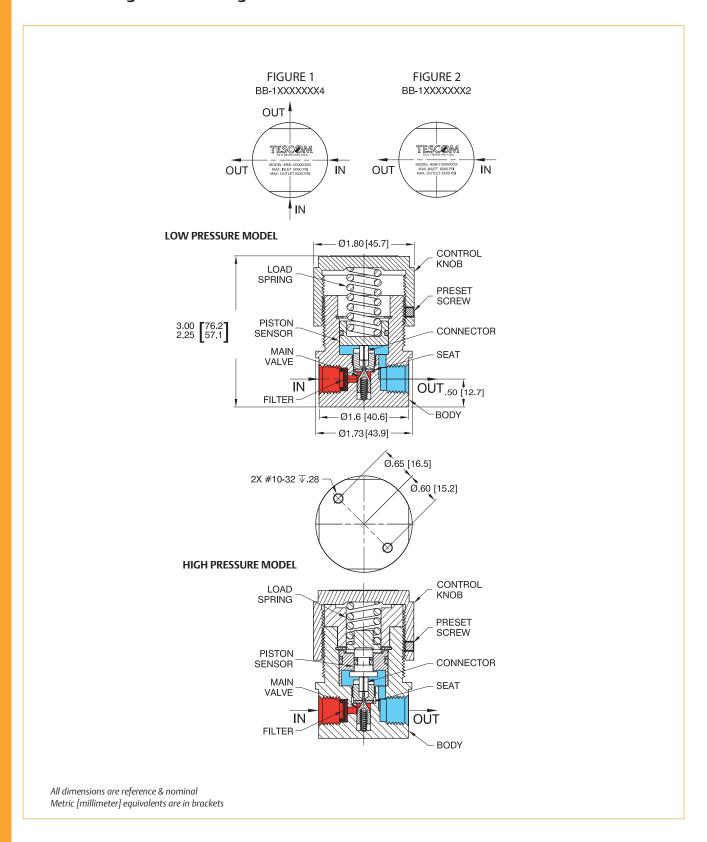






# **TESCOM**

# **BB-1 Series Regulator Drawings**

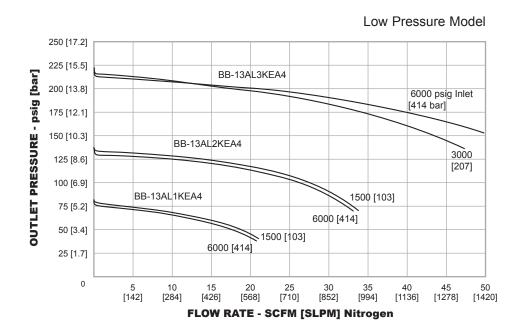


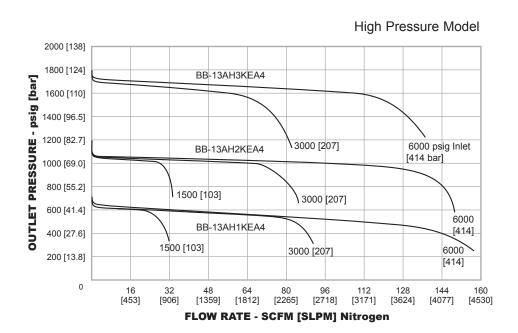




# **BB-1 Series Regulator Flow Charts**

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.









# **BB-1 Series 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:

BB -	1	3	Α	L3		K	E	A4
BASIC SERIES	FUNCTION	BODY MATERIAL	LOAD TYPE	OUTLET PRESSURE		CEAT	O DINIC CEAL	PORTING
				ADJUSTABLE	PRESET	SEAT	O-RING SEAL	CONFIGURATION NUMBER OF PORTS
ВВ	<b>1</b> - Pressure Reducing	<b>3</b> - Aluminum 6061	<b>A</b> – Adjustable <b>P</b> – Preset	L1 – 0-80 psig 0-5.5 bar L2 – 0-140 psig 0-9.7 bar L3 – 0-220 psig 0-15.2 bar H1 – 0-700 psig 0-48.3 bar H2 – 0-1200 psig 0-82.7 bar H3 – 0-1800 psig 0-124 bar	0-80 psig 0-5.5 bar 80-140 psig 5.5-9.7 bar 140-220 psig 9.7-15.2 bar 220-700 psig 15.2-48.3 bar 700-1200 psig 48.3-82.7 bar 1200-1800 psig 82.7-124 bar	K – CTFE P – PEEK V – Vespel®	B – 90 Duro Buna E – Ethylene Propylene K – Kalrez® N – Buna-N U – Polyurethane V – Viton®	A4 – 1/4" NPTF 4 (Figure 1) B4 – 1/4" SAE 4 (Figure 1) A2 – 1/4" NPTF 2 (Figure 2) B2 – 1/4" SAE 2 (Figure 2)

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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.

