TESCOM

BB-1 Series

Regulators - Pressure Reducing

DBB011761X012

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

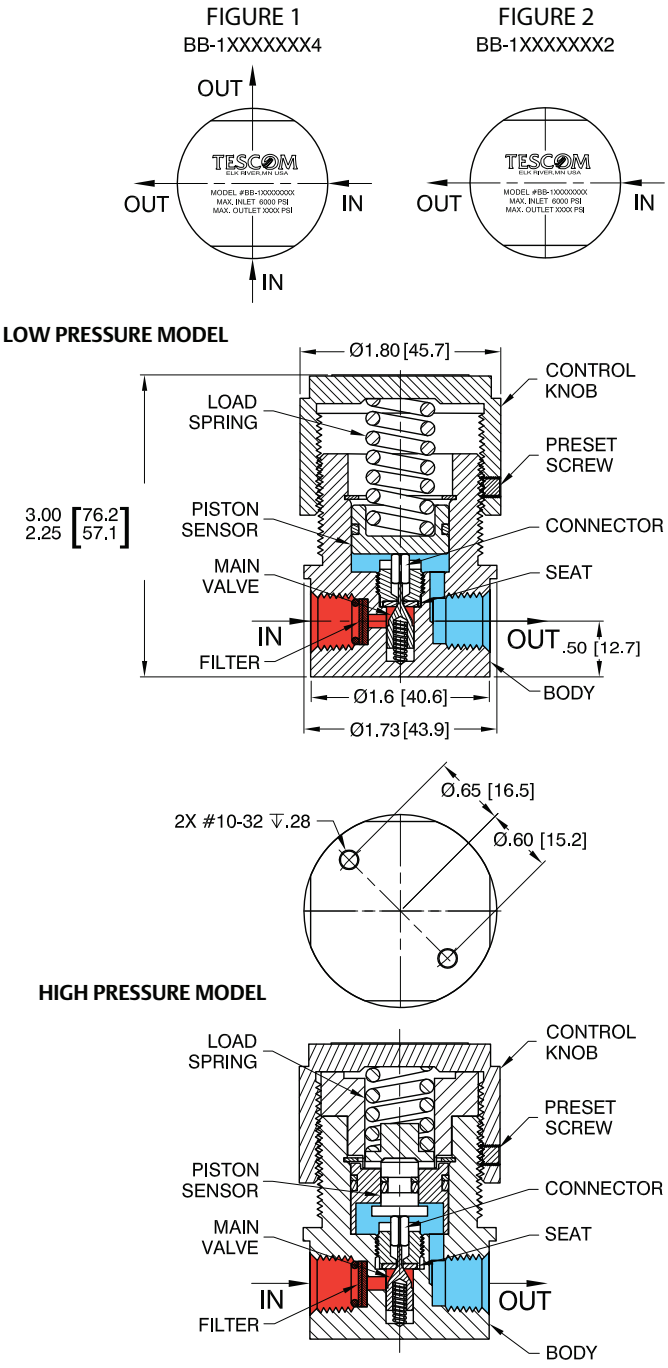
- Portable equipment
- OEM equipment

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

EMERSON
Process Management

BB-1 Series Regulator Drawings

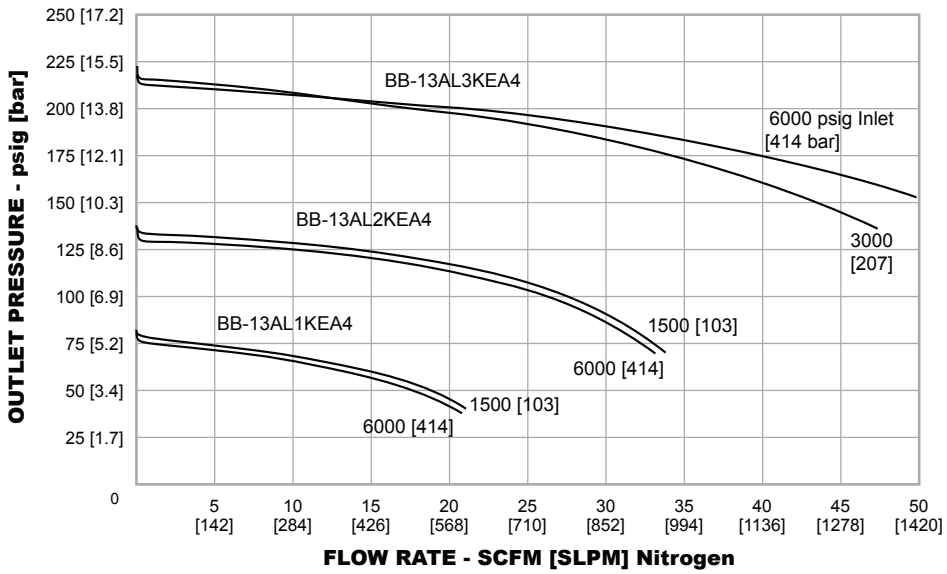


All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

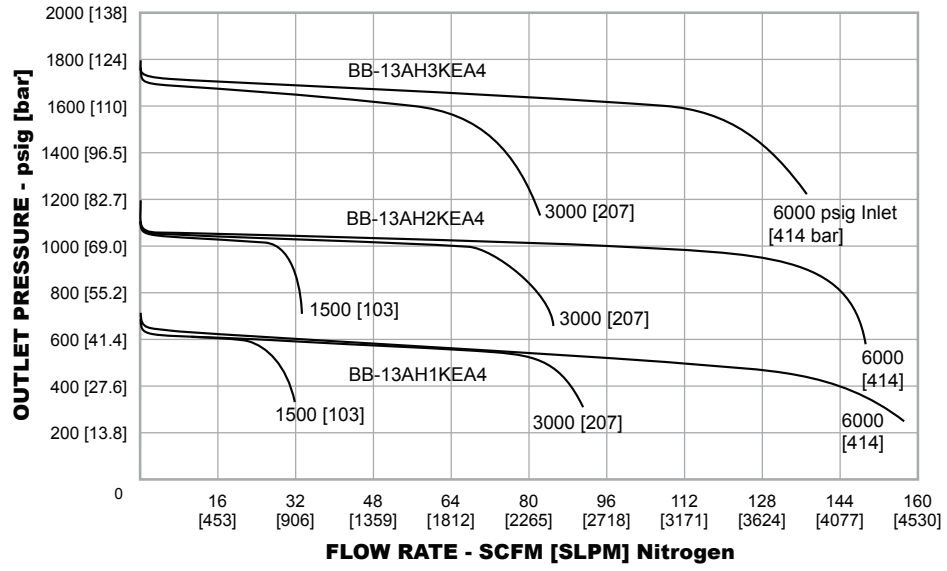
BB-1 Series Regulator Flow Charts

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.

Low Pressure Model



High Pressure Model



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 A L3 K E A4

BASIC SERIES	FUNCTION	BODY MATERIAL	LOAD TYPE	OUTLET PRESSURE		SEAT	O-RING SEAL	PORTING CONFIGURATION NUMBER OF PORTS
				ADJUSTABLE	PRESET			
BB	**1 -** Pressure Reducing	**3 -** Aluminum 6061	**A –** Adjustable **P –** 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)