



## BB-3 SERIES

Regulators - Relief / Backpressure

DBB031790X012

### Specifications

For other materials or modifications, please consult TESCO.™

#### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

##### Inlet Pressure Ranges

See Part Number Selector

##### Design Proof Pressure

150% of maximum pressure

##### Operating Temperature<sup>1</sup>

-15°F to 140°F / -26°C to 60°C

##### Flow Capacity

C<sub>v</sub> = 0.2

##### Internal Leakage

Bubble-tight

#### MEDIA CONTACT MATERIALS

##### Body

Nickel-plated Aluminum or 316 Stainless Steel

##### Seat

ETFE (Tefzel®), PCTFE, PTFE or Polyimide (Vespel®)

##### O-Rings

Ethylene Propylene, Nitrile, Buna-N, FKM (Viton®-A) or FFKM, Perfluoroelastomer (Kalrez®)

##### Remaining Parts

300 Series Stainless Steel or Aluminum

#### OTHER

##### Cleaning

CGA 4.1 and ASTM G93

##### Connections

1/4" NPTF or SAE inlet and outlet ports

##### Weight

**Aluminum:** 0.5 lbs / 0.2 kg

**Stainless Steel:** 1 lbs / 0.5 kg

<sup>1</sup>. For extended temperatures from -40°F to 204°F / -40°C to 96°C, consult TESCO.™

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TESCOM BB-3 is a high pressure, low flow, miniature backpressure regulator. Six control pressure ranges are available up to 1200 psig / 83 bar outlet. This regulator can be used for hydraulic or pneumatic service and is small and compact, weighing approximately 4 oz / 0.11 kg in the standard Aluminum construction (316 Stainless Steel also available).

### Applications

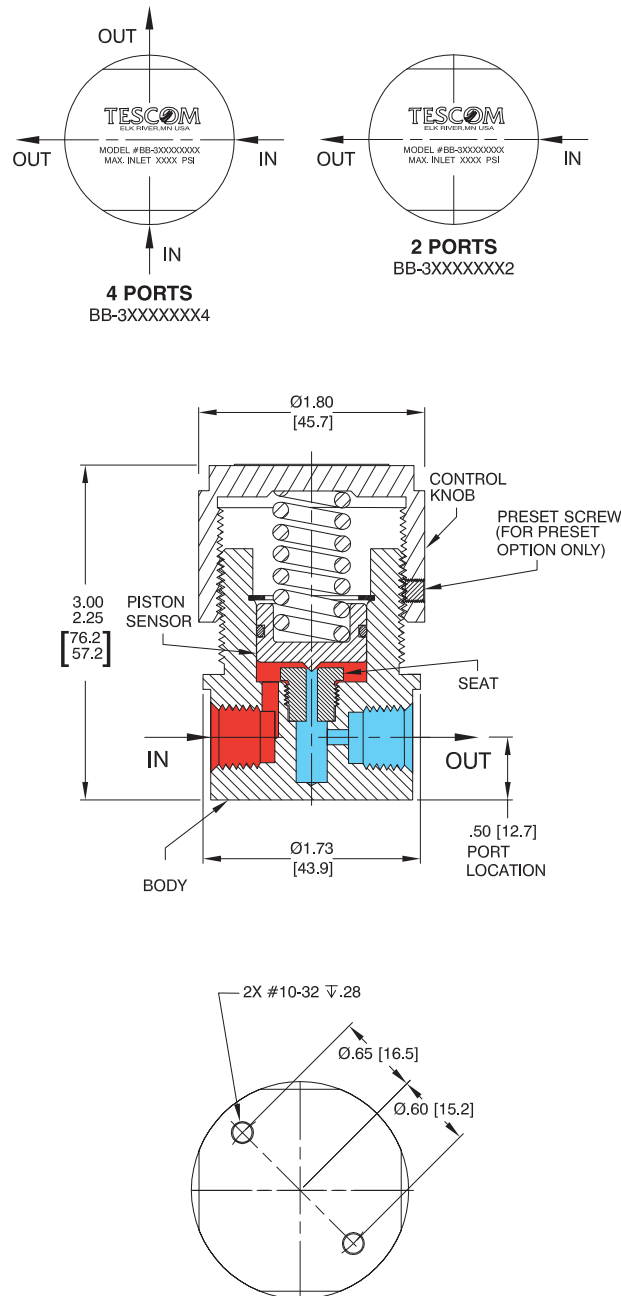
- Portable equipment
- OEM equipment

### Features and Benefits

- Economical and extremely compact
- Durable piston sensor design
- High flow capacity
- High temperature version (up to 204°F / 96°C)
- Close pressure differential between crack and reseal
- Bubble-tight shutoff at all reseating pressures
- Six control pressure ranges

## BB-3 SERIES

### BB-3 Series Regulator Drawing

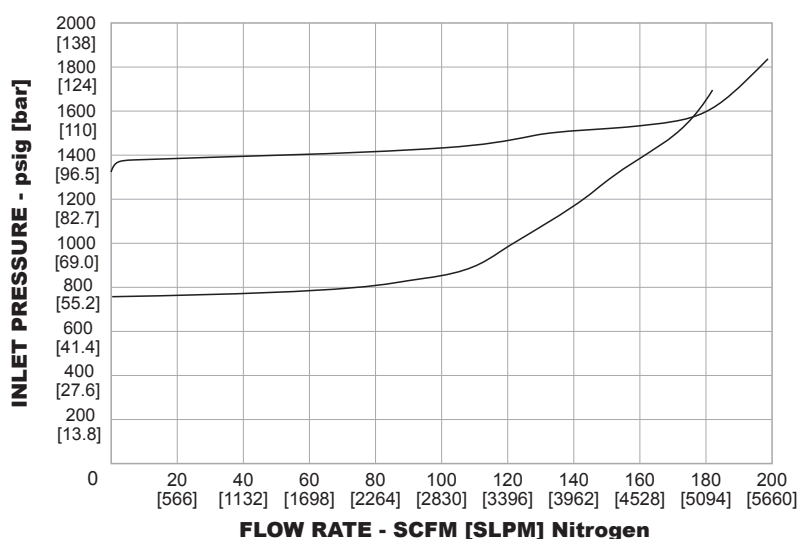
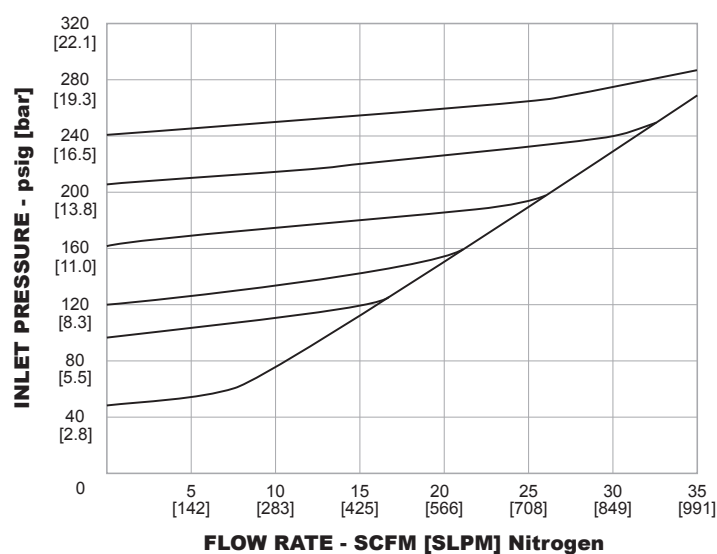


All dimensions are reference & nominal  
Metric [millimeter] equivalents are in brackets

## BB-3 SERIES

### BB-3 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](http://www.tescom.com).



## BB-3 SERIES

### BB-3 Series Regulator Part Number Selector



#### Learn more about common options.

For modifications, repair kits and accessories, contact factory.

Example for selecting a part number:

BB -		3	3	A	L1		K	E	A4	
BASIC SERIES	FUNCTION	BODY MATERIAL	LOAD TYPE	INLET PRESSURE RANGES		SEAT MATERIAL	O-RING SEAL		PORTING	NUMBER OF PORTS
				ADJUSTABLE	PRESET					
BB	3 - Backpressure	3 - Nickel-plated Aluminum (Spring Load only) 6 - 316 Stainless Steel	A - Adjustable P - Preset D - Dome Load (250 psig / 17.2 bar* maximum reference pressure)	L1 - 0-80 psig	0-80 psig	A - ETFE (Tefzel®) K - PCTFE V - Polyimide (Vespel®) T - PTFE (250 psig / 17.2 bar maximum inlet pressure)	E - Ethylene Propylene N - Nitrile, Buna-N S - Special V - FKM (Viton®-A) K - FFKM, Perfluoroelastomer (Kalrez®)		A4 - 1/4" NPTF B4 - 1/4" SAE B2 - 1/4" SAE A2 - 1/4" NPTF	4 4 2 2
				P - 0-5.5 bar	0-5.5 bar					
				L2 - 0-140 psig	80-140 psig					
				0-9.7 bar	5.5-9.7 bar					
				L3 - 0-220 psig	140-220 psig					
				0-15.2 bar	9.7-15.2 bar					
				H1 - 0-700 psig	220-700 psig					
				0-48.3 bar	15.2-48.3 bar					
				H2 - 0-1200 psig	700-1200 psig					
				0-82.7 bar	48.3-82.7 bar					
				D1 - 0-250 psig	Dome Load Only					
				0-17.2 bar*						

\*3000 psig / 207 bar available, please consult factory.