Regulators - Pressure Reducing

DBEXX2025X012

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

Maximum Outlet Pressure
See Part Number Selector

Design Proof Pressure
150% maximum rated pressure

Leakage
Bubble-tight

Operating Temperature
See Part Number Selector

Flow Capacity
C_V = 0.02

MEDIA CONTACT MATERIALS

Body
Brass, Nickel-plated Aluminum, 316 Stainless Steel

Piston
Brass (Brass and Aluminum bodies only)
316 Stainless Steel (316 Stainless Steel bodies only)

Seat
PTFE, PCTFE, Polyimide

O-Ring
Nitrile, Buna-N, FKM (Viton®-A), Ethylene Propylene (E.P.), Urethane

Filter
Bronze, Stainless Steel

OTHER

Weight
0.5 lbs / 0.2 kg

Viton® is a registered trademark of E.I. du Pont de Nemours and Company.

TESCOM BE Series regulator functions alone, as a pilot source or can be used to convert most TESCOM low pressure regulators into a two-stage pressure reducer.

Applications

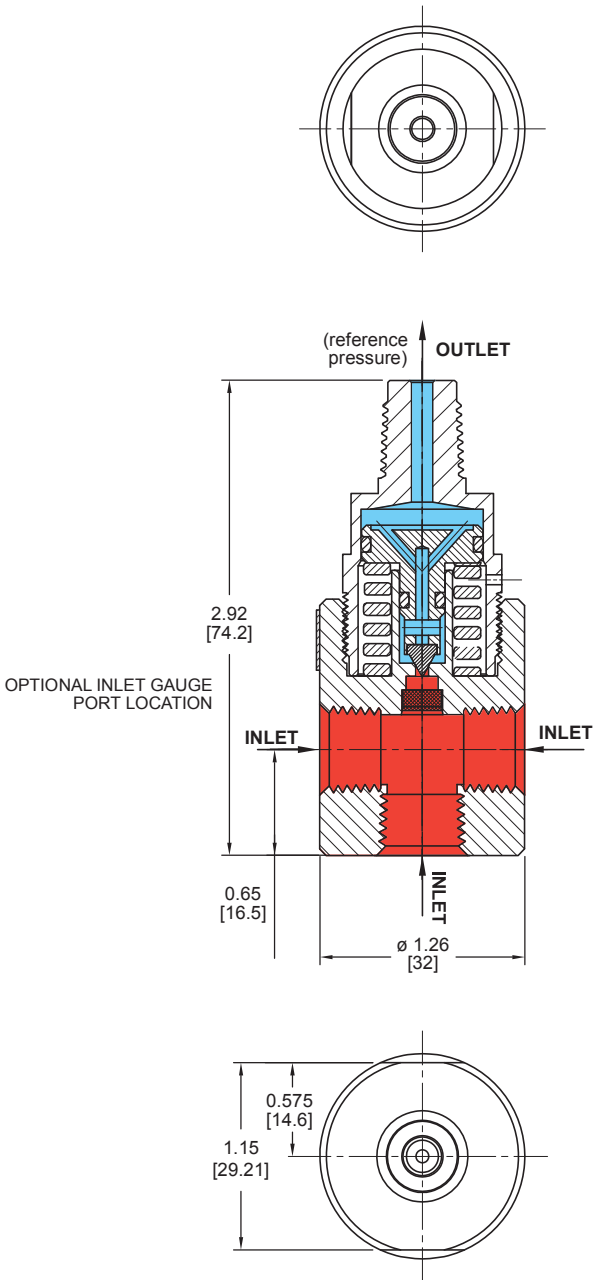
- Rough cut regulator
- Can be combined with a one-stage regulator to create a two-stage regulator
- Tee-ed in for a pilot source
- Non-venting

Features and Benefits

- Material: Nickel-plated Aluminum, Brass, and 316 Stainless Steel
- Positive shut-off for leak integrity
- Reverse decaying inlet characteristic for sensitive equipment applications
- Preset at factory for a set of standard operating conditions
- Low flow applications: C_V = 0.02
- 6000 psig / 414 bar inlet, 0-450 psig / 0-31 bar outlet
- Various porting configurations for gauges and relief valves

BE SERIES

BE Series Regulator Drawing

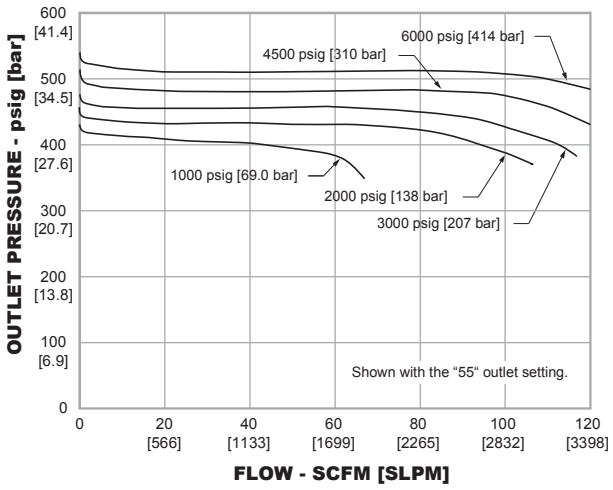


All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

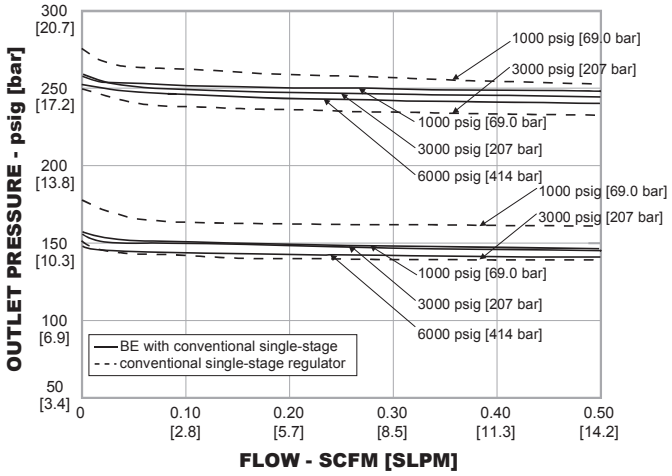
BE Series Regulator Flow Charts

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.

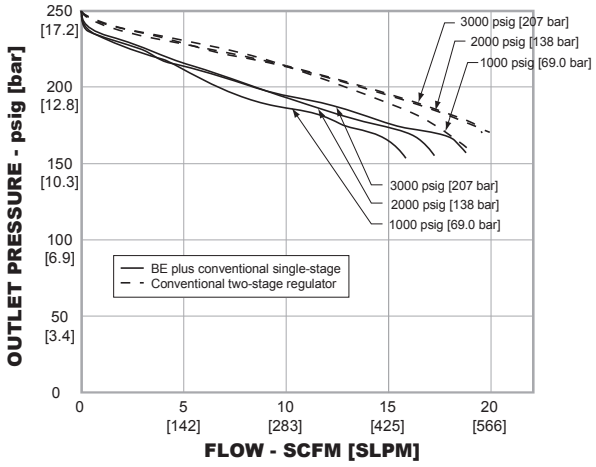
BE In-line Regulator



Conventional Single-Stage Regulator vs. BE In-line Regulator Plus Conventional Single-Stage Regulator



Conventional Two-Stage Regulator vs. BE In-line Regulator Plus Conventional Single-Stage Regulator



BE SERIES

BE Series Regulator Part Number Selector

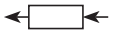
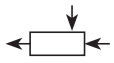
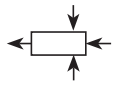
Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

Example for selecting a part number:

OPTIONAL ITEMS	
-	No inlet filter
F	Inlet filter 40 micron Bronze
S	Inlet filter 40 micron Stainless Steel

INLET OUTLET GAUGE

BE 6 25 VC - H - 4 C 4

BASIC SERIES	BODY AND BONNET MATERIAL	NOMINAL OUTLET SETTING P1 psig / bar			O-RING MATERIAL	SEAT MATERIAL	OPERATING TEMPERATURE*	PORTING CONFIGURATION (Side View)	INLET, OUTLET AND GAUGE PORTS
		1000 / 69.0	3000 / 207	6000 / 414					
BE	**1 –** Brass	**05 –** 25 / 1.7	60 / 4.1	120 / 8.3	**BT –** Nitrile, Buna-N	PTFE	-40°F to 165°F -40°C to 74°C	**A –** no gauge ports	**2 –** 1/8" Female NPTF
	3 – Nickel-plated Aluminum	**10 –** 50 / 3.4	95 / 6.6	160 / 11.0	**VT –** FKM (Viton®-A)		-15°F to 250°F -26°C to 121°C		**4 –** 1/4" Female NPTF
	6 – 316 Stainless Steel	**20 –** 160 / 11.0	200 / 13.8	260 / 17.9	**ET –** E.P.		-40°F to 250°F -40°C to 121°C	**F –** one gauge port	**B –** 1/8" Male NPTF
		25 – 220 / 15.2	250 / 17.2	330 / 22.8	**UT –** Urethane		-40°F to 165°F -40°C to 74°C		**C –** 1/4" Male NPTF
		55 – 510 / 35.2	550 / 37.9	600 / 41.4	**BC –** Nitrile, Buna-N	PCTFE	-40°F to 140°F -40°C to 60°C	**H –** two gauge ports	**E –** 1/8" Female SAE
					VC – FKM (Viton®-A)		-15°F to 140°F -26°C to 60°C		**F –** 1/4" Female SAE
					EC – E.P.		-40°F to 140°F -40°C to 60°C	**Note:** Porting configuration could restrict gauge port orientation.	**H –** 1/8" Male SAE
					UC – Urethane		-40°F to 140°F -40°C to 60°C		**I –** 1/4" Male SAE
					BY – Nitrile, Buna-N	Polyimide	-40°F to 165°F -40°C to 74°C		**9 –** None
					VY – FKM (Viton®-A)		-15°F to 400°F -26°C to 204°C		
					EY – E.P.		-40°F to 250°F -40°C to 121°C		
					UY – Urethane		-40°F to 165°F -40°C to 74°C		

**Brass body is limited to +200 °F (93 °C) maximum.*
Aluminum body is limited to +200 °F (93 °C) maximum.