

Specifications

For other materials or modifications, please consult TESCO. M.

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 TESCO low pressure regulators into a two-stage pressure reducer.

Applications

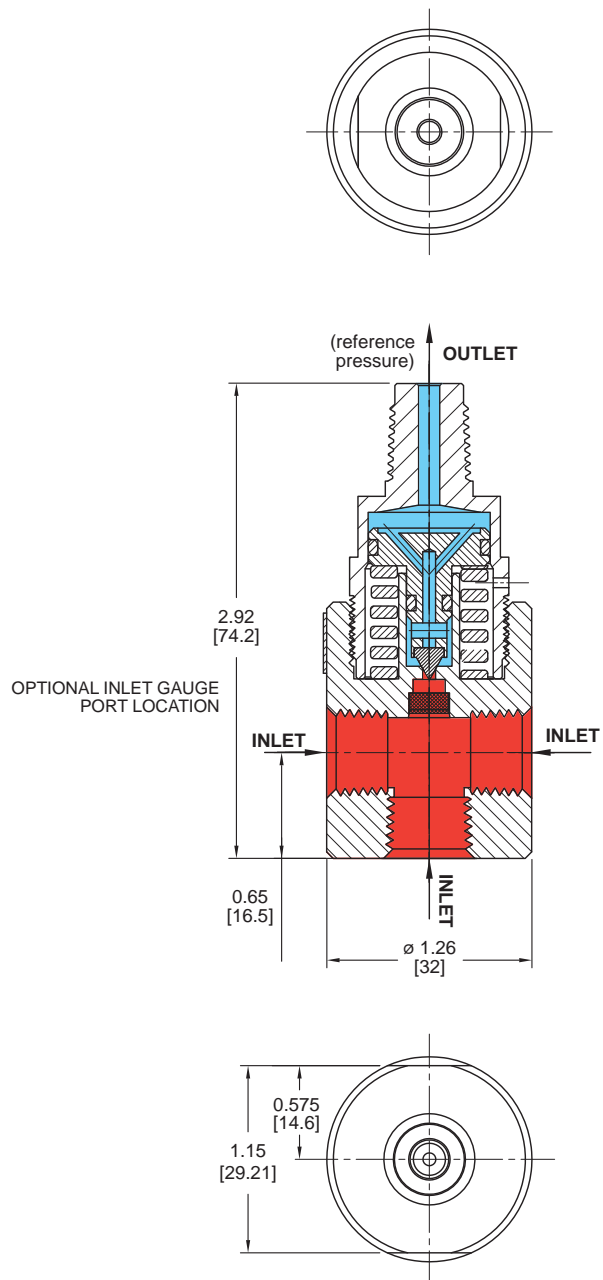
- Rough cut regulator
- Can be combined with a one-stage regulator to create a two-stage regulator
- Tee-ed in for a pilot source
- Non-venting

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

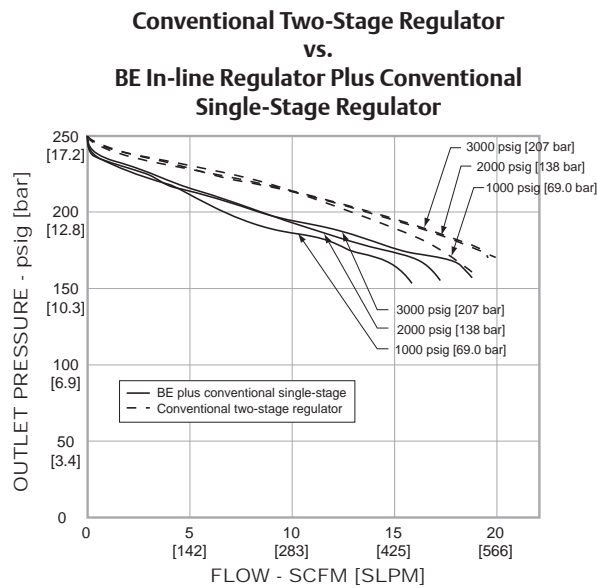
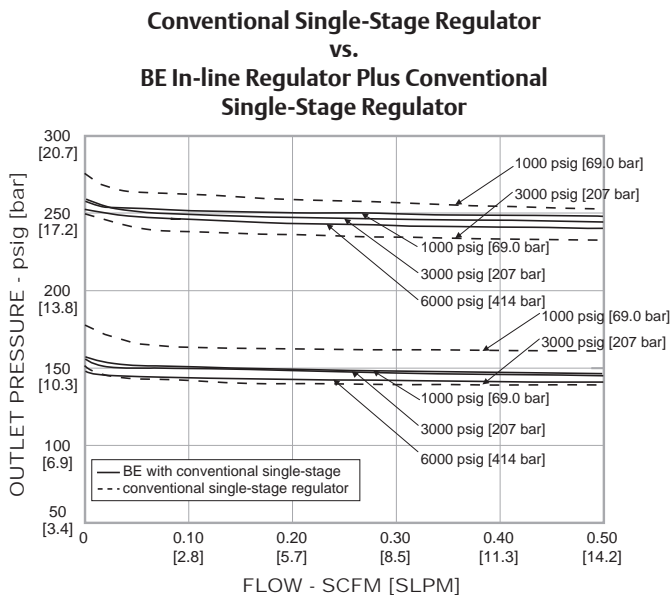
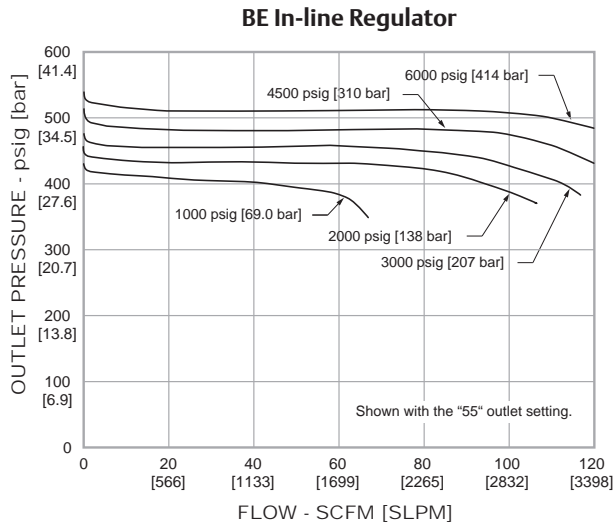
BE Series Regulator Drawing



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 TESCO catalog or on www.tescom.com.



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



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	F – one gauge port 	4 – 1/4" Female NPTF
			20 – 160 / 11.0	200 / 13.8	260 / 17.9		ET – E.P.		-40°F to 250°F -40°C to 121°C		B – 1/8" Male NPTF
	6 – 316 Stainless Steel	25 – 220 / 15.2	250 / 17.2	330 / 22.8	UT – Urethane		PCTFE	-40°F to 165°F -40°C to 74°C	H – two gauge ports 	C – 1/4" Male NPTF	
		55 – 510 / 35.2	550 / 37.9	600 / 41.4	BC – Nitrile, Buna-N			-40°F to 140°F -40°C to 60°C		I – 1/4" Male SAE	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	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	-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.