

# PH-3200 Series

## Regulators - Pressure Reducing

DPH321978X012

### Specifications

For other materials or modifications, please consult TESCOM.

#### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

<b>Maximum Inlet Pressure</b>	500 psig / 34.5 bar
<b>Outlet Pressure Ranges</b>	0-25, 0-50, 0-100, 0-150 psig / 0-1.7, 0-3.4, 0-6.9, 0-10.3 bar
<b>Design Proof Pressure</b>	150% maximum rated
<b>Leakage</b>	
<b>Internal:</b>	ANSI Class VI Shutoff
<b>External:</b>	designed to meet < 2 x 10 <sup>-8</sup> atm cc/sec He
<b>Operating Temperature (media only)</b>	
<b>Teflon® Seat:</b>	-40°F to 165°F / -40°C to 74°C
<b>PEEK-OPTIMA® or PEEK-Classix® Seat:</b>	-40°F to 400°F / -40°C to 204°C
<b>Flow Capacity</b>	
C <sub>v</sub> =	1.8, 1.0

#### MEDIA CONTACT MATERIALS

<b>Body</b>	316L Stainless Steel
<b>Seat</b>	Teflon®, PEEK-OPTIMA®, PEEK-Classix®
<b>O-Ring</b>	Ethylene Propylene (E.P.)
<b>Diaphragm</b>	316 Stainless Steel
<b>Seat Retainer</b>	Nitronic 60
<b>Remaining Parts</b>	316 Stainless Steel

#### OTHER

<b>Connections</b>	Sanitary Fittings Tube Ends High Purity Internal Connections (H.P.I.C.) (gauge port only)
<b>Cleaning</b>	CGA 4.1 and ASTM G93, Clean Service Certificate of Compliance available
<b>Weight (approximately)</b>	3.5 lbs / 1.6 kg

Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.  
PEEK-OPTIMA® is a registered trademark of Invibio Ltd.  
PEEK-Classix® is a registered trademark of Invibio Ltd.



TESCOM PH-3200 Series is part of our Pharmpure™ product line. This high purity high flow single-stage regulator offers a compact, USP Class VI and BPE compliant design suitable for biotech and pharmaceutical applications. This regulator offers gas flows of 5-50 SCFM / 142-1416 SLPM. Diffusion-resistant metal-to-metal diaphragm seal ensures gas purity and integrity.

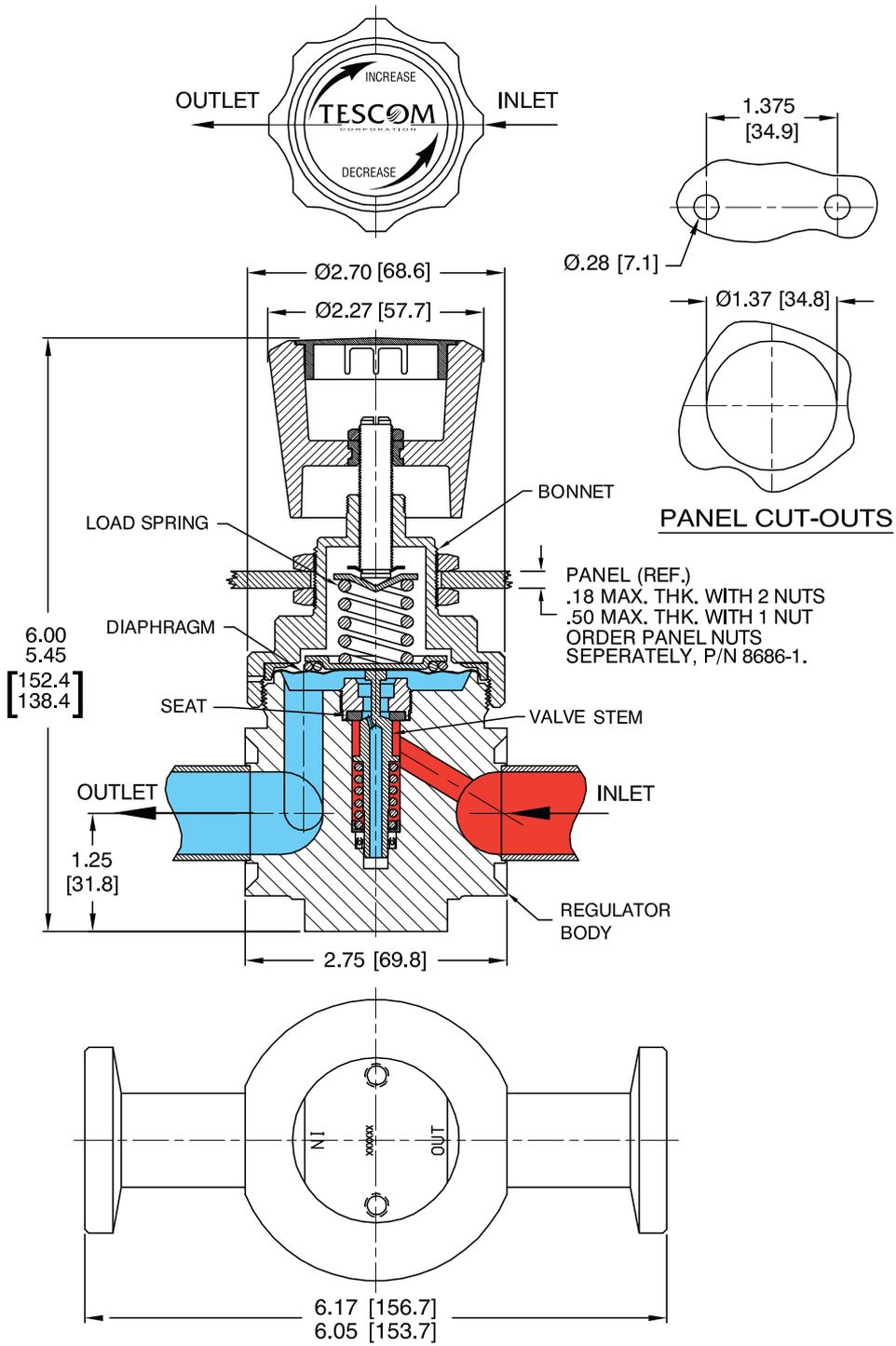
### Applications

- Sparge gases
- Clean steam for sanitization
- Transfer panels

### Features and Benefits

- 316L Stainless Steel barstock regulator body design
- FDA/USP compliant designs are available
- Clean Service Certification of Compliance is available: Includes actual material certification, weld records, and bill of materials
- 15 or 32 R<sub>a</sub> microinch / 0.38 or 0.81 micrometer body surface finish standard
- Precise pressure control
- Gauge port is available
- ASME BPE 2009 compliant design

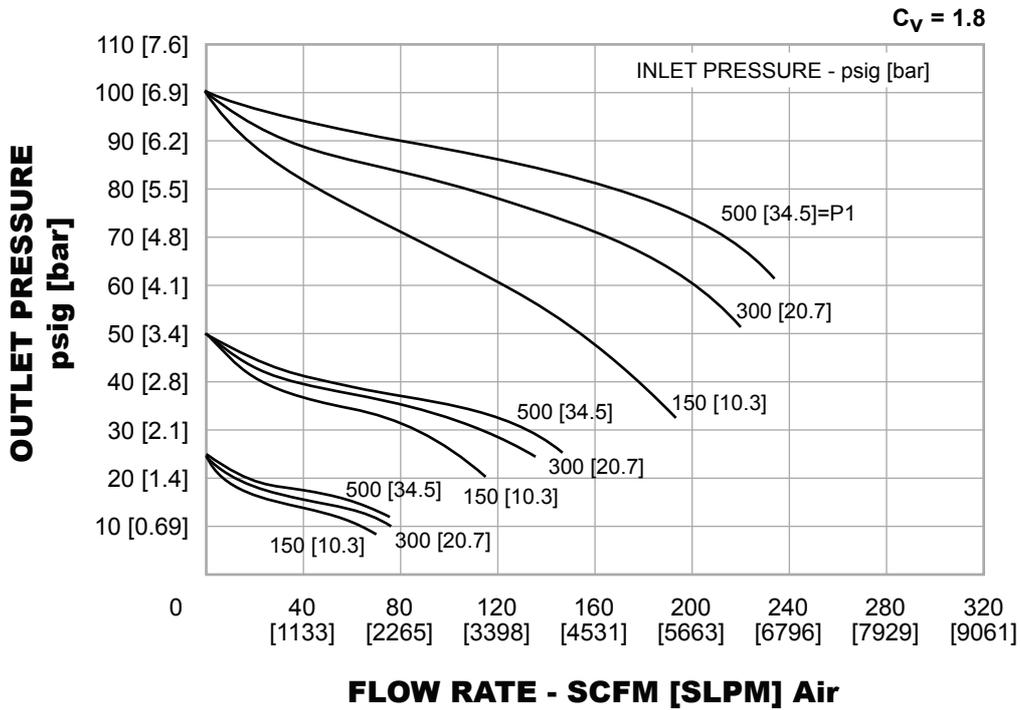
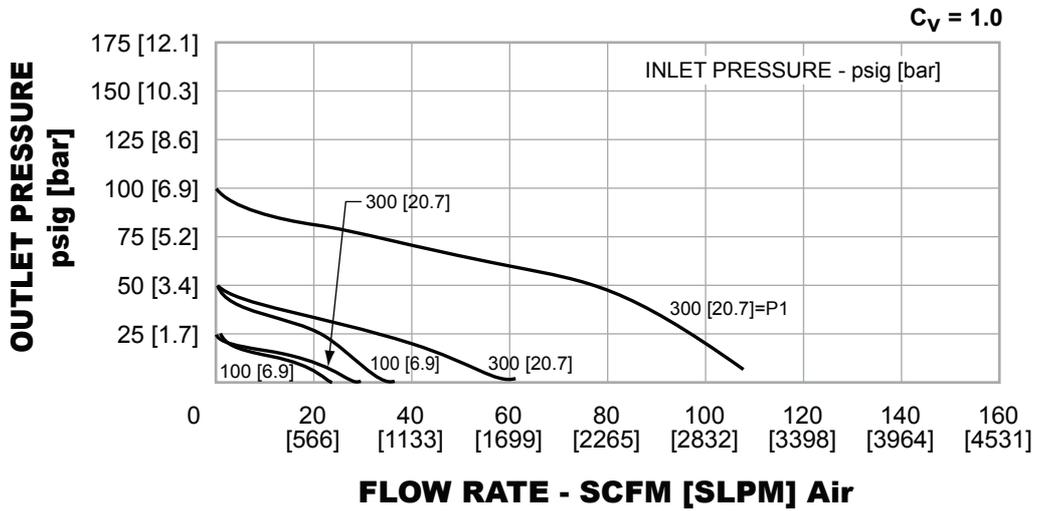
PH-3200 Series Regulator Drawing



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

### PH-3200 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).



## PH-3200 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:

PH-32	A				0	8	08	3	0	B	
BASIC SERIES	BODY MATERIAL	BODY SURFACE FINISH	SEAT MATERIAL	SEAL MATERIAL	LOAD TYPE	OUTLET PRESSURE	INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE WALL THICKNESS	FLOW CAPACITY	GAUGE PORT OPTIONS	CERTIFICATE OF CONFORMANCE
PH-32	A – 316L Stainless Steel	15 R <sub>a</sub>	Teflon®	E.P. O-Ring	0 – Spring	0-25 psig 0-1.7 bar	8 – Sanitary 9 – Tube	08 – 1/2" 0.500" OD x 0.065" wall 12 – 3/4" 0.750" OD x 0.065" wall	2 – C <sub>v</sub> = 1.8 3 – C <sub>v</sub> = 1.0	0 – No gauge ports	A – None B – Clean Service Certification
	B – 316L Stainless Steel	15 R <sub>a</sub>	PEEK	E.P. O-Ring	1 – Spring	0-50 psig 0-3.4 bar				1 – One 3/4" sanitary outlet gauge port at 90°	
	C – 316L Stainless Steel	32 R <sub>a</sub>	Teflon®	E.P. O-Ring	2 – Spring	0-100 psig 0-6.9 bar				2 – One 1/4" HPIC outlet gauge port at 90°	
	D – 316L Stainless Steel	32 R <sub>a</sub>	PEEK	E.P. O-Ring	3 – Spring	0-150 psig 0-10.3 bar					