Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure

300 psig / 20.7 bar

Outlet Pressure Ranges

0-20, 0-50, 0-100, 0-150, 0-250 psig 0-1.4, 0-3.4, 0-6.9, 0-10.3, 0-17.2 bar

Design Proof Pressure

150% of rated pressure

Leakage

Bubble-tight

Operating Temperature

-20°F to 300°F / -28°C to 148°C

Flow Capacity

1/2" Port Size: $C_V = 2.5$ 3/4" Port Size: $C_V = 3.5$ 1 and 1-1/2" Port Size: $C_V = 5.0$

MEDIA CONTACT MATERIALS

Body

316L Stainless Steel

Diaphragm

Gylon®

Seat, Valve

Ethylene Propylene (E.P.)

O-Rings

Ethylene Propylene (E.P.)

Valve Spring

Elgiloy®

Remaining Parts

316 Stainless Steel

OTHER

Internal Surface Finish

 $20 R_a$, $30 R_a$ microinch / 0.63, 0.80 micrometer

Connections

Sanitary Fittings

Tube Ends

High Purity Internal Connections (H.P.I.C.) (gauge port only)

Cleaning

CGA 4.1 and ASTM G93 Clean Service Certificate of Conformance available

Weiaht

16 lbs / 7 kg

VCR® is a registered trademark of Cajon Co. Gylon® is a registered trademark of Garlock, Inc. Elgiloy® is a registered trademark of Elgiloy Specialty Metals.



TESCOM PH-1600 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 provides gas flows up to 400 SCFM / 11,320 SLPM. Its Gylon® diaphragm ensures gas purity and integrity.

Applications

- Clean steam for sanitization
- Vessel headspace pressurization

Features and Benefits

- Up to $C_V = 5.0$ flow capacity
- Gylon® diaphragm
- Low droop, high flow
- Five outlet pressure ranges
- Accurately regulates pressures up to 250 psig / 17.2 bar
- Welded sanitary connections and tube ends are available
- Soft goods USP Class VI compliant
- BPE 2009 compliant design

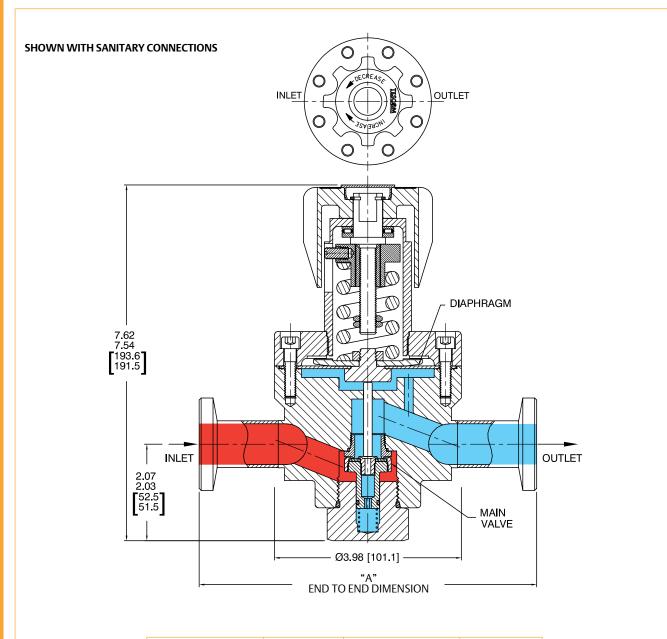






TESCOM

PH-1600 Series Regulator Drawing



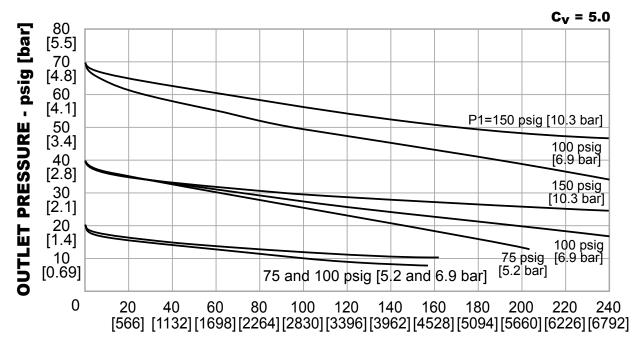
PART NUMBER	DIMENSION "A"	PART NUMBER	DIMENSION "A"
PH16XXXXXXAAX	7.25 7.13	PH16XXXXXX66X	9.91 / 9.79
PH16XXXXXXBBX	7.25 7.13	PH16XXXXXX77X	9.91 / 9.79
PH16XXXXXXCCX	7.25 7.13	PH16XXXXXX88X	9.91 / 9.79
PH16XXXXXXDDX	7.19 7.07	PH16XXXXXXWWX	9.91 / 9.79

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

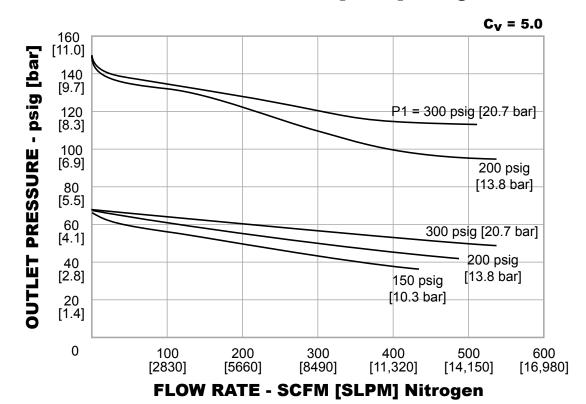


PH-1600 Series Regulator Flow Charts

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.



FLOW RATE - SCFM [SLPM] Nitrogen



Note: Flow curves shown with 1" ports. Smaller ports will limit the maximum flow reached. Additional flow curves are available, please consult TESCOM.





PH-1600 Series Regulator Part Number Selector

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

OUTLET GAUGE INLET Example for selecting a part number: **PH16** Н Α 1 G Ν В Α D D 9 **BODY MATERIAL** / OUTLET CERTIFICATE OF CONFORMANCE BASIC SERIES **GAUGE PORT** VENT INLET, OUTLET AND LOAD TYPE **BODY SURFACE SOFT GOODS** CONFIGURATION **PRESSURE GAUGE PORTS** SEAT **FINISH** PH16 **D** – Dome A – 316L Stainless **0** – 0-20 psig G – Diaphragm: N - Non-A – None A - No gauge ports A - 1/2" Sanitary¹ 0-1.4 bar Venting **B** – Clean B - 3/4" Sanitary² 20 Ra SFV1 O-rings: E.P. H - Spring 1 - 0-50 psig Service Seat: E.P. C – 316L Stainless C - 1" Sanitary 0-3.4 bar Certificate handknob Steel / D - One outlet **D** – 1-1/2" Sanitary 2 - 0-100 psig 30 Ra SFV3 W - Spring 0-6.9 bar 6 - 1/2" Tube1 load, 3 - 0-150 psig wrench **7** – 3/4" Tube² 0-10.3 bar adjust **8** – 1" Tube **5** – 0-250 psig 0-17.2 bar W - 1-1/2" Tube 1. Port size limits regulator to $C_V = 2.5$ Y - 1/4" HPIC 2. Port size limits regulator to $C_V = 3.5$ **9** – None

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WARNING! Do not attempt to select, install, use or maintain this product until you have read and fully understood the TESCOM Safety, Installation and Operation Precautions.

