

PH-1800 Series

Regulators - Pressure Reducing

DPH181980X012

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 and 0-300 (Dome load only) psig 0-1.4, 0-3.4, 0-6.9, 0-10.3, 0-17.2 and 0-20.7 (Dome load only) bar

Design Proof Pressure 150% of rated pressure

Leakage Bubble-tight

Operating Temperature -20°F to 300°F / -29°C to 149°C

Flow Capacity $C_V = 10.0$

MEDIA CONTACT MATERIALS

Body

316L Stainless Steel

Diaphragm Gylon®

Seat, Main 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 / 0.51, 0.76 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

Weight (approximately) 35 lbs / 15.9 kg

Gylon® is a registered trademark of Garlock, Inc. Elgiloy® is a registered trademark of Elgiloy Corp.



TESCOM PH-1800 Series is part of our Pharmpure[™] product line. This high purity, high-flow singlestage regulator offers a compact, USP Class VI and BPE compliant design suitable for biotech and pharmaceutical applications. This regulator offers gas flows of 5-2000 SCFM /142-56,634 SLPM. Its Gylon[®] diaphragm ensures gas purity and integrity.

Applications

- Clean steam for sanitization
- Vessel headspace pressurization

Features and Benefits

- Flow capacity $C_V = 10.0$
- 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 stubs are available
- Soft goods are USP Class VI compliant
- ASME BPE 2009 compliant design

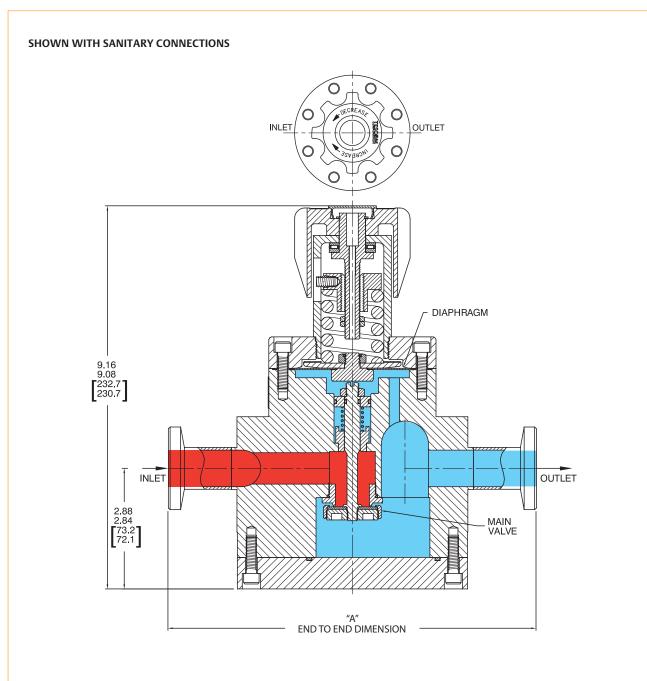






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PH-1800 Series Regulator Drawing



Part No.	Dimension "A"	Part No.	Dimension "A"
PH18XXXXXBBX	8.82/8.70	PH18XXXXX77X	11.56/11.44
PH18XXXXXXCCX	8.82/8.70	PH18XXXXX88X	11.56/11.44
PH18XXXXXDDX		PH18XXXXXXWWX	11.56/11.44
PH18XXXXXXEEX	8.66/8.54		
	PH18XXXXXBBX PH18XXXXXCCX PH18XXXXXDDX	Part No. Dimension "A" PH18XXXXXBBX 8.82/8.70 PH18XXXXXCCX 8.82/8.70 PH18XXXXXDDX 8.82/8.70 PH18XXXXXXEX 8.66/8.54	PH18XXXXXXBBX 8.82/8.70 PH18XXXXX77X PH18XXXXXCCX 8.82/8.70 PH18XXXXX88X PH18XXXXXXDDX 8.82/8.70 PH18XXXXXX88X

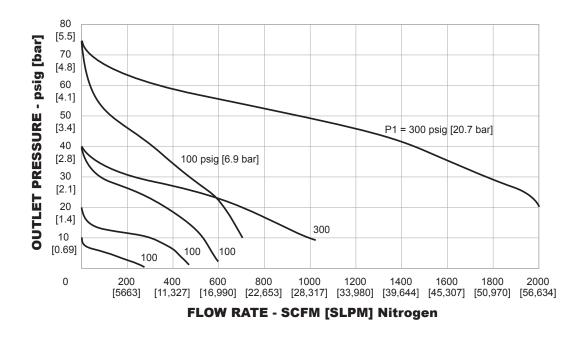
All dimensions are reference & nominal Metric [millimeter] equivalents are in brackets



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PH-1800 Series Regulator Flow Chart

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.





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PH-1800 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-18	Н	Α	1	G	Ν	В	Α	DD9
BASIC SERIES	LOAD TYPE	BODY MATERIAL / BODY SURFACE FINISH	OUTLET PRESSURE	SOFT GOODS	VENT SEAT	Certificate Of Conformance	GAUGE PORT CONFIGURATION	INLET, OUTLET, AND GAUGE PORTS
PH-18	 D – Dome load H – Spring load (handknob) 	 A - 316L Stainless Steel / 20 R_a SFV1 C - 316L Stainless Steel / 30 R_a SFV3 	 0 - 0-20 psig 0-1.4 bar 1 - 0-50 psig 0-3.4 bar 2 - 0-100 psig 0-6.9 bar 3 - 0-150 psig 0-10.3 bar 5 - 0-250 psig 0-17.2 bar D - 0-300 psig 0-20.7 bar (Dome load only) 	Gylon [®] O-Rings: E.P. Seat: E.P. <u>1. Port siz</u>	N – Non-venting	B – Clean Service Certificate	 A - No gauge ports D - One outlet gauge at 90° 	 B - 3/4" Sanitary¹ C - 1" Sanitary D - 1-1/2" Sanitary E - 2" Sanitary 7 - 3/4" Tube¹ 8 - 1" Tube 8 - 1" Tube W - 1-1/2" Tube Y - 1/4" HPIC 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.

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