DDHXX1910X012

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS *Pressure rating per criteria of ANSI/ASME B31.3*

Maximum Inlet Pressure

500 psig / 34.5 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 inlet

Leakage Bubble-tight

Ambient Operating Temperature

-4°F to 165°F / -20°C to 74°C Flow Capacity

 $C_V = 5.0$

MEDIA CONTACT MATERIALS

Body, Back-cap

316 Stainless Steel or Brass

Bonnet

303 Stainless Steel or Brass

Diaphragm

Ethylene Propylene (E.P.) or Nylon Reinforced, Gylon $^{\circ}$ (PTFE)

Seat

Main Valve: Buna-N, E.P., Chemraz[®], Viton[®] Vent: CTFE, Vespel[®]

O-Rings

Buna-N, E.P., Chemraz[®], Viton[®]

Remaining Parts 300 Series Stainless Steel, Nitronic 60

OTHER

Cleaning CGA 4.1 and ASTM G93

Weight Stainless Steel: 15 lbs / 6.8 kg Brass: 16 lbs / 7.3 kg

Vespel® and Viton® are registered trademarks of E.I. du Pont de Nemours and Company. Gylon® is a registered trademark of Garlock, Inc.

Chemraz[®] is a registered trademark of Greentweed.



DOME LOADED

SPRING LOADED

TESCOM DH-Series single-stage regulator provides a compact size with high flow capability from 5-200 SCFM / 142-5663 SLPM. The large diaphragm and balanced main valve design provide low droop (larger usable flow range) than competitive designs. Available in spring or dome loaded configurations.

Applications

- Purging, blanketing, high flow inerting, heat treating, and shielding gases
- Performs well at very low pressure differentials such as dewar-supplied processes
- Multi-drop breathing air stations

Features and Benefits

- Available in 316 Stainless Steel or Brass
- Accurately regulates pressure up to 250 psig / 17.2 bar for spring load, 300 psig / 20.7 bar for dome load and 500 psig / 34.5 bar for air load (optional)
- Five outlet pressure ranges
- Choice of spring load or dome load (air load is optional)
- Low droop
- Panel mounting is available
- Flanged end connections available

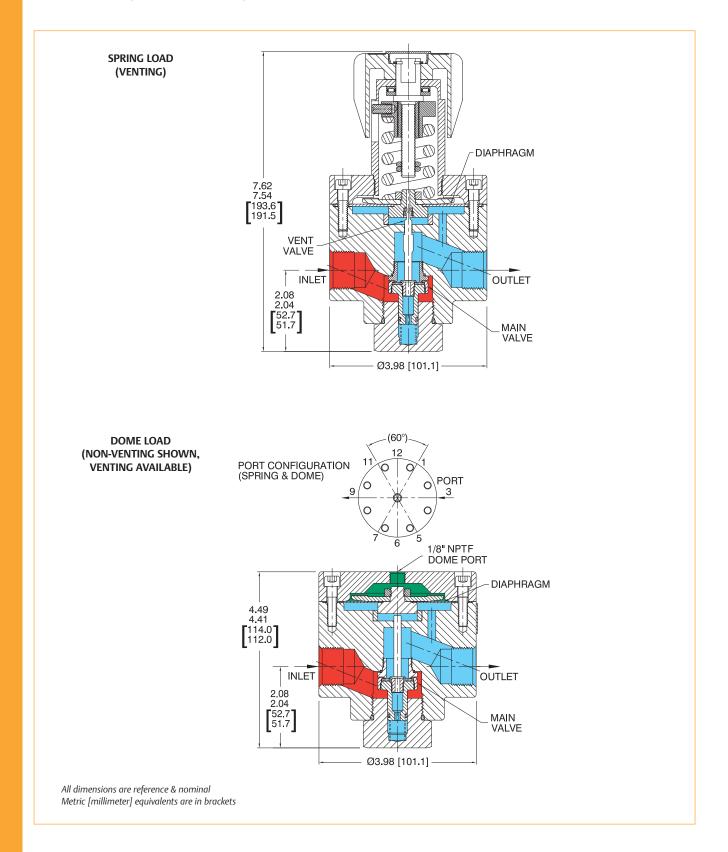






TESCOM

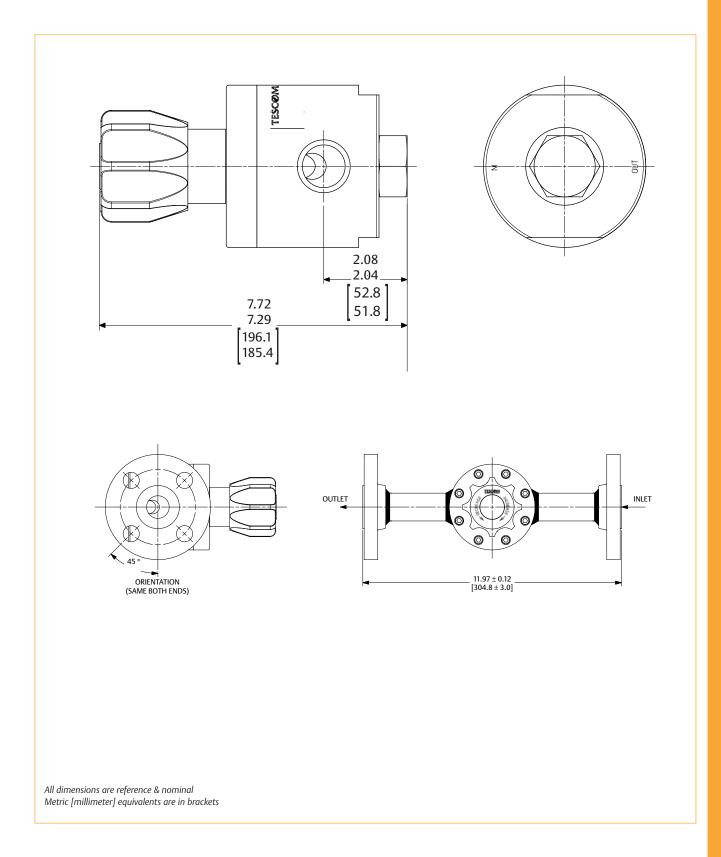
DH Series Regulator Drawings





TESCØM

DH Series Regulator with Flanges Drawing

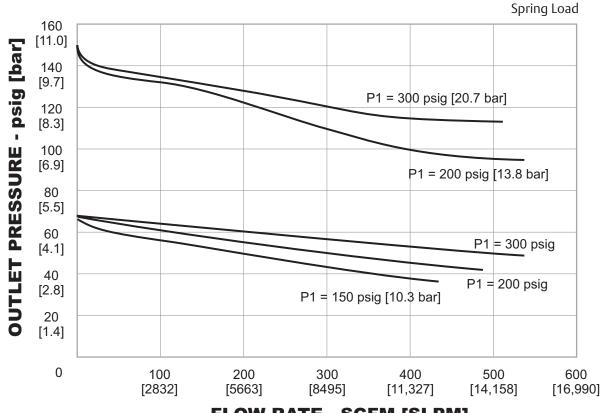




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DH Series Regulator Flow Charts

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.



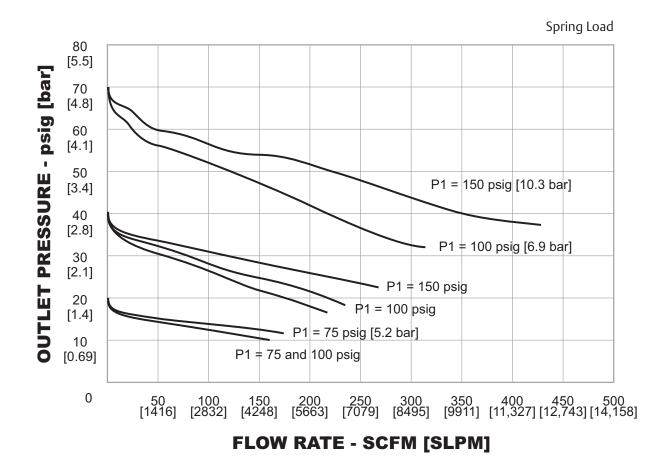
FLOW RATE - SCFM [SLPM]



TESCØM

DH 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.





DH Series Regulator Part Number Selector

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

Threaded End Connector Part Number Selection:									- Inlet Outlet Gauge
DH	н	1	0	В	E	V	9	А	4 4 9
BASIC SERIES	LOAD TYPE	BODY, BONNET, BACK-CAP MATERIAL	OUTLET PRESSURE	O-RING AND VALVE SEAT MATERIAL	DIAPHRAGM MATERIAL	VENT SEAT MATERIAL	OPTIONAL ITEMS	PORTING CONFIGURATION	INLET, OUTLET, GAUGE PORTS
DH	 H – Spring Loaded, Handknob W – Spring Loaded, Wrench D – Dome Loaded (available with Gylon® diaphragm only) 	1 – Brass 6 – 316 Stainless Steel	 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) 	 B - Buna-N O-Ring Buna-N 90 Seat E - E.P. O-Ring E.P. 80 Seat M - Chemraz[®] O-Ring, Chemraz[®] 75 Seat V - Viton[®] 	E – E.P. Nylon Reinforced G – Gylon®	C – CTFE V – Vespel® P – Peek N – Non- Venting	C – CCL 9 – None		$H - 1/2" \text{ NPTF}^* C_V = 3.5 3 - 3/4" \text{ NPTF} 4 - 1" \text{ NPTF} 9 - None F - 1/4" \text{ NPTF} (for gauge only) Y - 1/4" HPIC (for gauge only) Y - 1/4" KPIC (for gauge only) Subsect on 1/2" ts limits C_V to 3.5 (for 3.5) (for 3.5) $

Flanged End Connector Part Number Selection:

DHW	6	0	В		E	V	Α	3	21	1	
BASIC SERIES	BODY, PIPE, FLANGE, BONNET BACK-CAP MATERIAL	OUTLET PRESSURE	O-RING AND VALVE SEAT MATERIAL		OPERATING	DIAPHRAGM		GAUGE	FLANCE	FLANCE	
			O-RING	VALVE SEAT	TEMPE- RATURE	MATERIAL	VENT SEAT MATERIAL	PORT OPTIONS 1/4" NPT	FLANGE SIZE	FLANGE CLASS	FLANGE FACE
DHW	6 – 316 SST	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	B – Buna-N	Buna-N 90	-20 to 165°F /-29 to 74°C	E – E.P. Nylon Reinforced G – Gylon®	C – PCTFE* V – Vespel® P – Peek	No gauge ports	3 – 1"	11 – 150# 1 21 – 300# 41 – 600#	#
			E – E.P.	E.P. 80	-20 to 200°F /-29 to 93°C	G – Gylon [®]	P - Peek N - Non-Venting aximum operat- perature for vent seat mate- $40^\circ F / 60^\circ C$				
			M – Chemraz®	Chemraz [®]	-20 to 200°F /-29 to 93°C	ing tem					
			V – FKM	FKM	-15 to 200°F /-26 to 93°C	rial is 1-					

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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