TESCOM

DH Series **Regulators - Pressure Reducing**

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, Bonnet, Back-cap

316 Stainless Steel or Brass

Diaphragm Ethylene Propylene (E.P.) or Nylon Reinforced, Gylon[®] (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

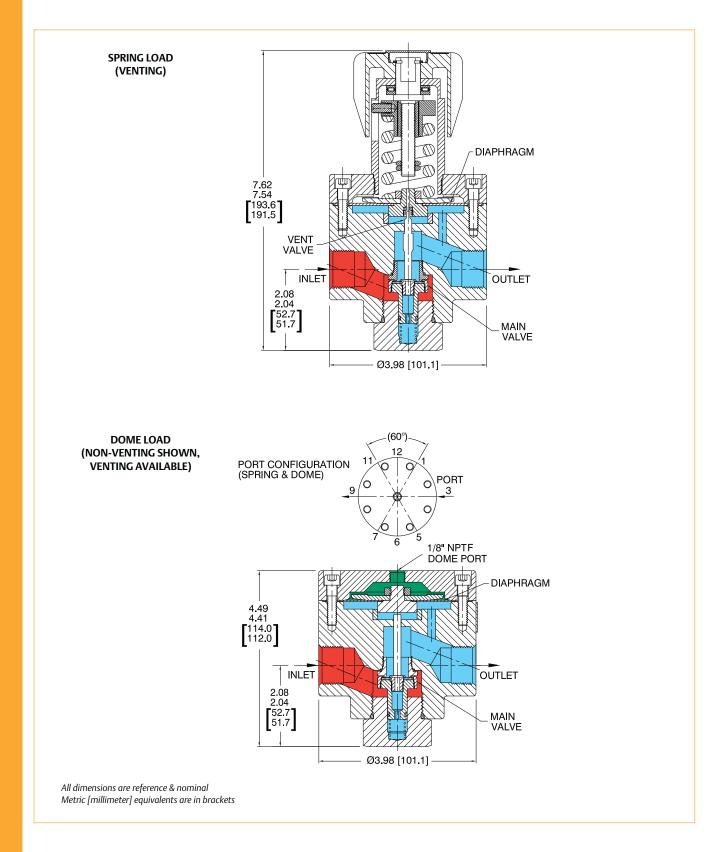
Features and Benefits

- 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



TESCØM

DH Series Regulator Drawings

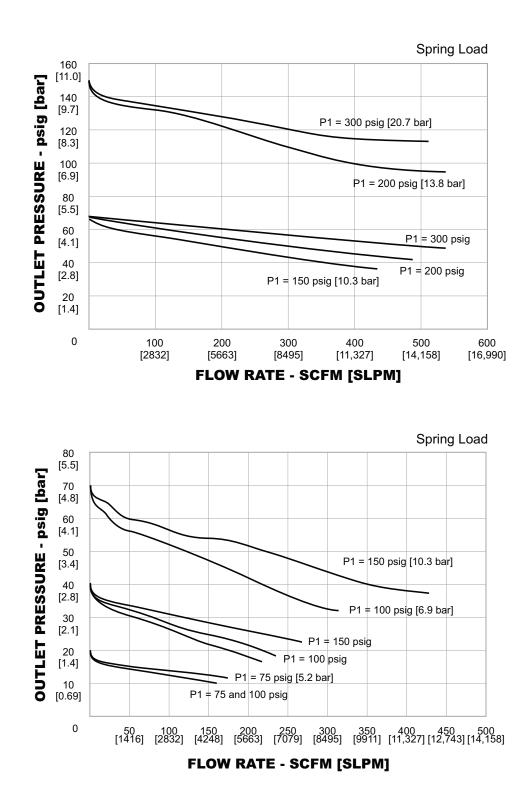




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DH Series Regulator Flow Charts

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.





TESC@M[®]

DH Series Regulator Part Number Selector

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

								FOR NON-METALLIC KIT		
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Exam	ple for selecting	a part num	iber:						INLET	OUTLET
									Z	5 5
DH	н	1	0	В	Е	v	9	Å	4	⊥ ⊥ 4 9
		1	0		L	v	5	~		4 5
		BODY,		O-RING AND						
BASIC SERIES	LOAD TYPE	BONNET, BACK-CAP MATERIAL	OUTLET PRESSURE	VALVE SEAT MATERIAL	DIAPHRAGM MATERIAL	VENT SEAT MATERIAL	OPTIONAL ITEMS	PORTING CONFIGURATION		OUTLET
								CONTROLATION	GAUG	E PORTS
DH	H – Spring Loaded,	1 – Brass	0 – 0-20 psig	B – Buna-N	E – E.P. or	C – CTFE	c – CCL	A – No gauge ports	LL 1/	2" NPTF*
Di	Handknob W – Spring Loaded, Wrench	6 – 316 Stainless Steel	0-1.4 bar 1 – 0-50 psig 0-3.4 bar	O-Ring Buna-N 90 Seat	Nylon Reinforced G – Gylon [®]	V – Vespel® P – Peek N − Non-	9 – None		,	$_{1} = 3.5$
								∢ ⊖ ∢		4" NPTF
								B – 2 gauge ports at 60°	4 – 1"	
	D – Dome Loaded (available with)		2 – 0-100 psig 0-6.9 bar	E – E.P. O-Ring E.P. 80 Seat		Venting		K~K	9 – No	
	Gvlon®		3 – 0-150 psig	M – Chemraz [®]				←)←	5 110	JIC
	diaphragm only)		0-10.3 bar	O-Ring,				D – 1 outlet gauge at		
			5 – 0-250 psig	Chemraz®				90°		
			0-17.2 bar	75 Seat				1		
			D– 0-300 psig 0-20.7 bar	V – Viton®				←)←		
			(Dome Load					L – 2 gauge ports at 90°		
			only)					Å		
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