High Flow/Low Pressure

maximum 500 PSIG in/0 - 250 PSIG out
spring loaded or dome loaded/high sensitivity

DH Series

Specifications

❑ Operating Parameters

pressure rating per criteria of ANSI/ASME B31.3
rated inlet pressure . . . . . 500 PSIG
outlet pressure ranges . . . . . 0-20, 0-50, 0-100, 0-150, 0-250 PSIG
design proof pressure . . . . . 150% of rated inlet
leakage . . . . . bubble-tight
ambient operating . . . . . -20° F to +165° F (-20° C to +74° C)
flow capacity . . . . . C_V = 5.0

❑ Media Contact Materials

body, bonnet, back cap . . . . . 316 SST or brass
diaphragm . . . . . Ethylene Propylene (E.P.)/ Nylon Reinforced, Gylon® (PTFE)
seat: main valve . . Buna-N, E.P., Chemraz®, Viton®
vent . . . . . CTFE, Vespel®, Peek
o-rings . . . . . Buna-N, E.P., Chemraz®, Viton®
remaining parts . . . . 300 Series SST, Nitronic 60

❑ Cleaning . . . . . CGA 4.1 and ASTM G93

❑ Weight

Stainless Steel . . . . . 15 lbs. (6.8 kg)
brass . . . . . 16 lbs. (7.2 kg)

Pressure Conversion 14.5 PSIG = 1 bar 145 PSIG = 1 MPa

Vespel® and Viton® are registered trademarks of DuPont.
Gylon® is a registered trademark of Garlock, Inc.
Chemraz® is a registered trademark of Greentweed.

Dome Loaded

Spring Loaded

Advantages

- Available in 316 Stainless Steel or brass
- Accurately regulates pressure up to 250 PSIG (spring load), 300 PSIG (dome load) and 500 PSIG (air load)
- Five outlet pressure ranges
- Choice of spring load or dome load
- Low droop
- Panel mounting option

D760121X012

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Process Management

DH Series High Flow/Low Pressure

Flow Charts

All dimensions are reference & nominal
Metric (millimeter) equivalents are in brackets

Spring Load
(venting)

Dome Load
(non-venting shown, venting available)

FOR NONMETALLIC KIT
K I T N

FOR REPAIR KIT
K I T R

INLET | OUTLET | GAUGE

Part Number Selector

example part number:

DH H 1 0 B E V 9 A 4 4 9

BASIC SERIES	LOAD TYPE	BODY, BONNET, BACK UP MATERIAL	OUTLET PRESSURE	O-RING & 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 **1** – 0-50 PSIG **2** – 0-100 PSIG **3** – 0-150 PSIG **5** – 0-250 PSIG **D** – 0-300 PSIG (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	**A** – No gauge ports **B** – 2 gauge ports at 60° **D** – 1 outlet gauge at 90° **L** – 2 gauge ports at 90°	**F** – 1/4" Gauges only, NPT **H** – 1/2", NPT **3** – 3/4", NPT **4** – 1", NPT **Y** – 1/4" H.P.I.C. **9** – None

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

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

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