

DHF Series

Regulators - Pressure Reducing

DDHFXXX10102XEN2

Specifications

For other materials or modifications, please consult TESCOM.

FLUID MEDIA

Corrosive or non-corrosive gases requiring high purity regulation compatible with materials of construction.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure

580 psig / 40.0 bar

Outlet Pressure Ranges

0-20, 0-50, 0-100, 0-150, 0-250, 0-300 psig (dome load only)
0-1.4, 0-3.4, 0-6.9, 0-10.3, 0-17.2, 0-20.7 bar (dome load only)

Design Proof Pressure

150% of rated pressure

Design Burst Pressure

400% of rated pressure

Leakage

Internal: Bubble-tight

Flow Capacity

$C_v = 5.0$

Operating Temperature

-20°F to 165°F / -29°C to 74°C

MEDIA CONTACT MATERIALS

Body, Bonnet, Back-cap

316 Stainless Steel

Main Valve Seat, O-Ring, Vent Valve Seat, Diaphragm

See Part Number Selector

Seal

PCTFE

Remaining Parts

300 Series Stainless Steel/Nitronic 60

OTHER

Weight (approximate)

19 lbs / 8.6 kg

Vespel® is a registered trademark of E.I. du Pont de Nemours and Company.

Chemraz® is a registered trademark of Greentweed.

Gylon® is a registered trademark of Garlock, Inc.



TESCOM DHF Series high flow pressure reducing regulators come with flanges according to EN 1092 and are suitable for gas service.

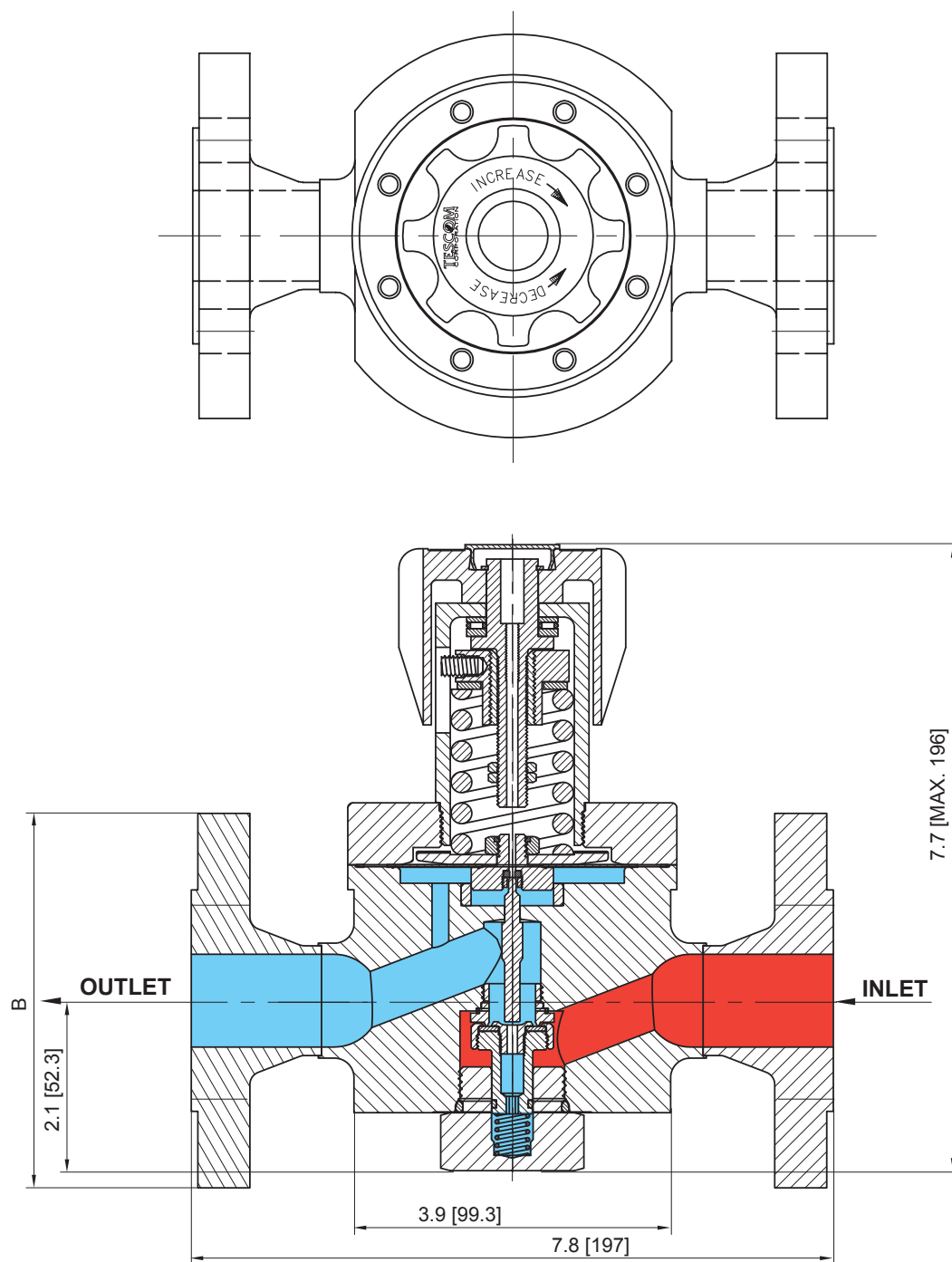
Application

- High flow facility gas supply

Features and Benefits

- Flange connections according to DIN EN 1092-1 Type 11 for easy line installation
- Face-to-face dimensions according to DIN EN 558, Row 38
- Precise pressure control up to 250 psig / 17.2 bar at high flow rates
- Choice of spring or dome load (e.g. remote control with ER5000 for lower droop)
- Gauge ports are available

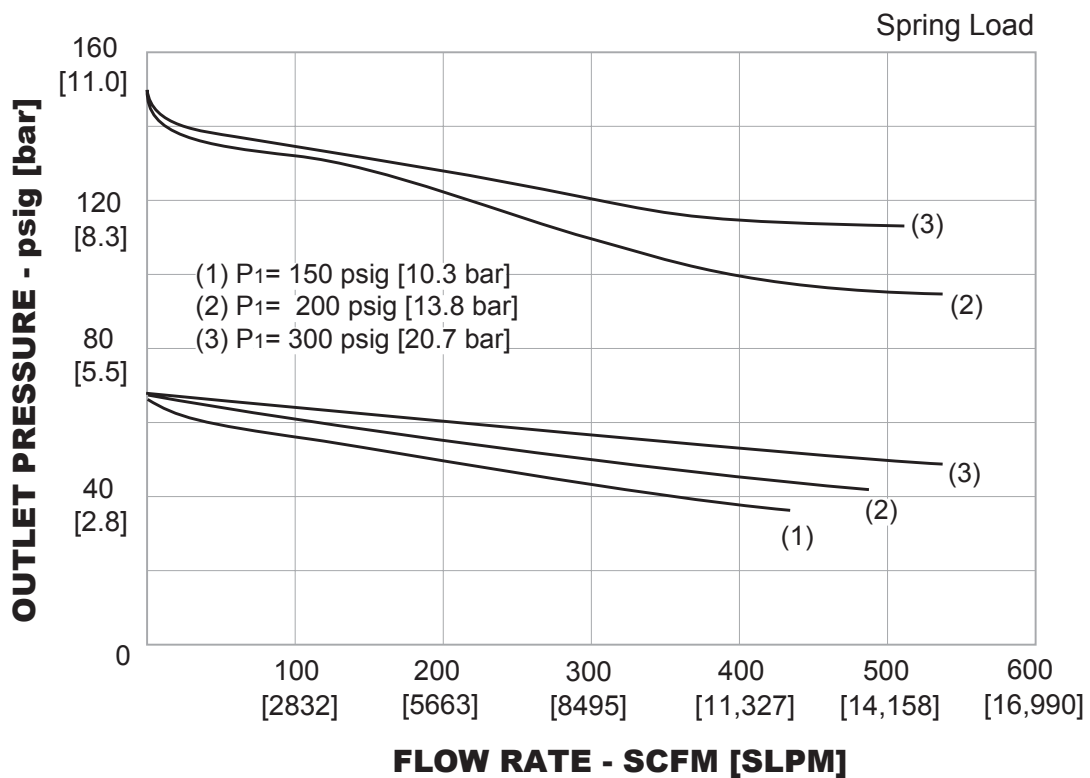
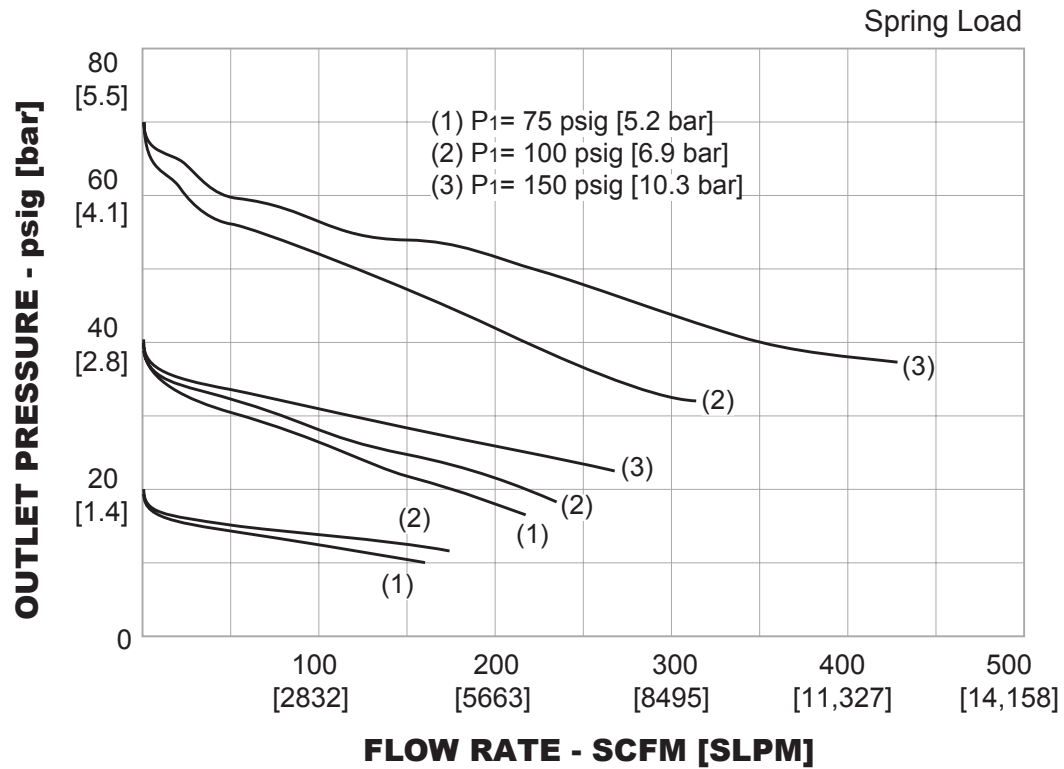
DHF Series Regulator Drawing



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

DHF 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.



DHF 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:

| MATERIAL | | | | | | | | | | |
|------------------------|--|--|--|--|-----------------------|--|--|--|--|--|
| O-RING | | | | | VALVE SEAT | | | | | |
| B - Buna-N | | | | | Buna-N 90 | | | | | |
| E - Ethylene Propylene | | | | | Ethylene Propylene 80 | | | | | |
| M - Chemraz® | | | | | Chemraz® 75 | | | | | |
| V - Viton® | | | | | Viton® | | | | | |

| | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|-----------|---|
| DHF | D | 6 | 1 | V | G | C | 9 | M | B | A | E |
| FLANGE | | | | | | | | | | EN 1092-1 | |

| BASIC SERIES | LOAD TYPE | BODY, BONNET AND BACK-CAP MATERIAL | OUTLET PRESSURE | DIAPHRAGM MATERIAL | VENT SEAT MATERIAL | OPTIONAL ITEMS | INLET AND OUTLET PORT TYPE | "B" [±2] | FLANGE TYPE | GAUGE PORT OPTIONS |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-------------------------------------------|----------------------------|--------------------------|-----------------------------------------------------|--------------------------------------------------------------------------|
| DHF | D – Dome loaded (available with Gylon® diaphragm only) H – Spring loaded (hand-knob) W – Spring loaded (wrench) | 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 | E – Ethylene Propylene/ Nylon reinforced G – Gylon® | C – CTFE V – Vespel® P – PEEK N – Non-venting | Y – FDA* compliant soft goods 9 – None | L – DN 20 M – DN 25 | 4.13 [105] 4.52 [115] | B – Form B - raised face D – Form D - ring joint | A – None B – 1/4" NPTF at 60° 1 x out 1 x in D – 1/4" NPTF 1 x out |
| * FDA only for: Diaphragm (Gylon) O-ring / valve seat (Ethylene Propylene) Vent seat (PEEK) or non-venting | | | | | | | | | | |



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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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