

# DF1034 Datasheet

DUAL-FLOW PRESSURE REGULATOR

● Gas ● Liq | ● Diaph ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 1,034 bar (15,000 psi) | Max Outlet: 1,034 bar (15,000 psi) | Cv 1.5 (primary) | Cv 0.06 (secondary)



## INTRODUCING THE DF1034...

The DF1034 is a piston-sensed pressure regulator with an incorporated cascaded main valve feature for quick fill of umbilical lines and high pressure water glycol applications up to 1,034 bar (15,000 psi).

Its dual-flow main valve offers a high flow via its primary main valve with a high Cv of 1.5, and the ability to fine tune the control pressure via its secondary main valve with a lower Cv of 0.06.

The DF1034's design has been considered to decrease pressurisation time and, to ultimately, extend the life cycle of the regulator.

## SPECIFICATION

|                           |                                  |
|---------------------------|----------------------------------|
| Max. Rated Inlet Pressure | 1,034 bar (15,000 psi)           |
| Outlet Ranges             | Up to 1,034 bar (15,000 psi)     |
| Design Proof Pressure     | 150% max. working pressure       |
| Seat Leakage              | In accordance with ANSI/FCI 70-3 |
| Weight                    | 8.7kg (19.2lbs)                  |

## STANDARD MATERIALS OF CONSTRUCTION

| PART            | MATERIALS                                              |
|-----------------|--------------------------------------------------------|
| Body and Bonnet | ASTM A564 17-4 PH Stainless Steel (UNS S17400)         |
| Main Valve      | Duplex (UNS S31803)                                    |
| Seat            | Tecasint® 2011 / Ceramic (Zirconia)                    |
| Valve Spring    | Inconel® X750 (UNS N07750) / Elgiloy® (UNS R30003)     |
| Sensor          | ASTM A479 316/316L Stainless Steel (UNS S31600/S31603) |
| O-Rings         | NBR                                                    |
| Loading Spring  | Elgiloy® (UNS R30003)                                  |

*Note:* Pressure regulator rating may be limited by connection type, Cv and/or seat material. Contact the office for specific pressure or temperature requirements.

## FEATURES AND BENEFITS

### 1 DUAL-FLOW DESIGN

Cascaded dual-flow main valve for high flow via primary main valve. Fine tune control pressure via secondary main valve.

### 2 BALANCED MAIN VALVE

Primary main valve with Cv of 1.5 for rapid fill rates.

### 3 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

### 4 EASY ACCESS TO SEAT CARTRIDGE

Simplified servicing through the base of the regulator.

Product availability and specifications contained herein are subject to change without notice. Consult local distributor or factory for potential revisions and/or service related issues. Pressure Tech Ltd support with product selection recommendations only - it is the users responsibility to ensure the product is suitable for their specific application requirements.



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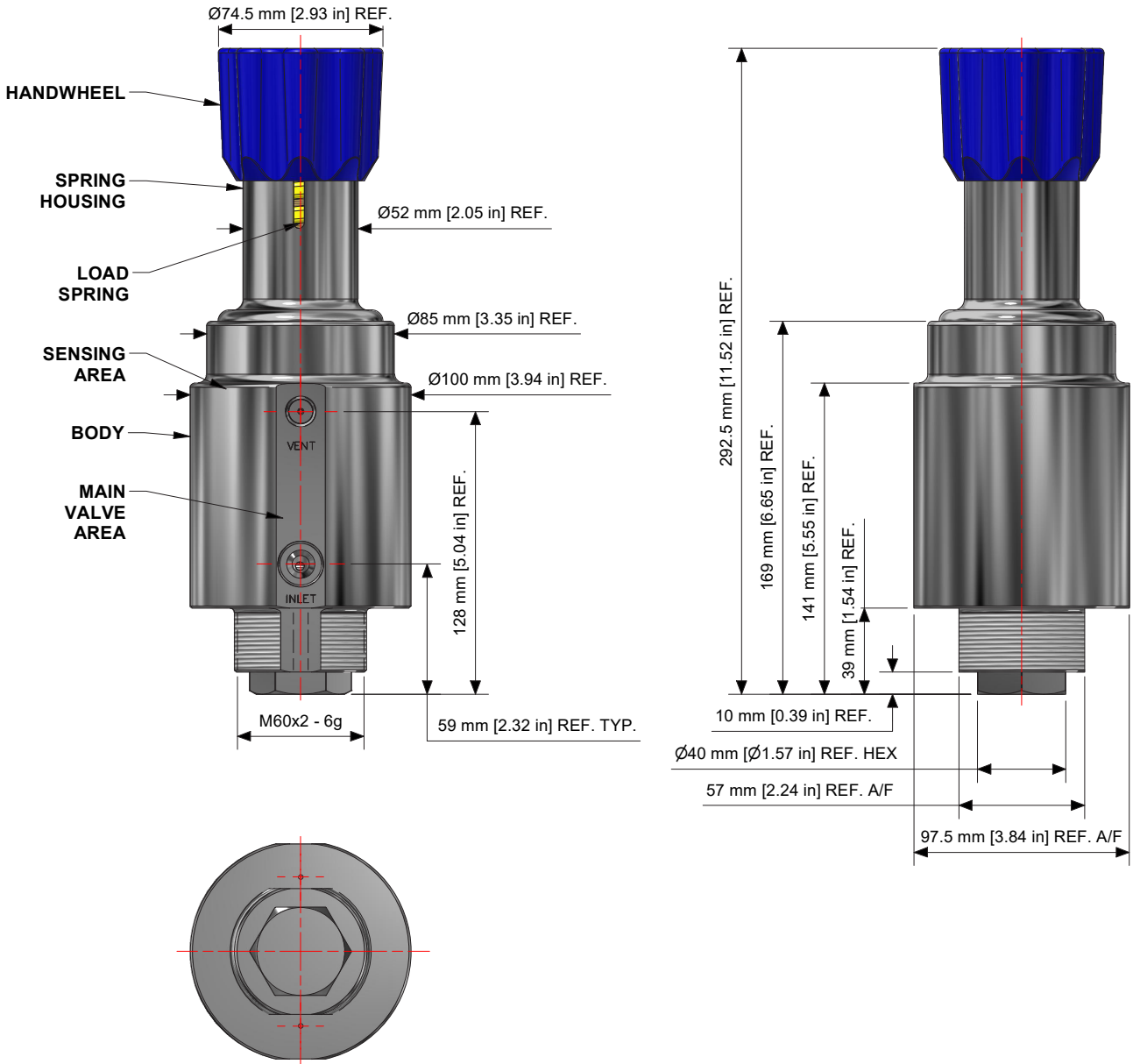
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## DRAWING AND INSTALLATION DIMENSIONS

Dimensions shown for standard configurations only – please contact the office for other options.



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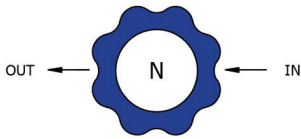
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## FLOW CURVE

Please contact the office for further information.

## PORTING CONFIGURATIONS



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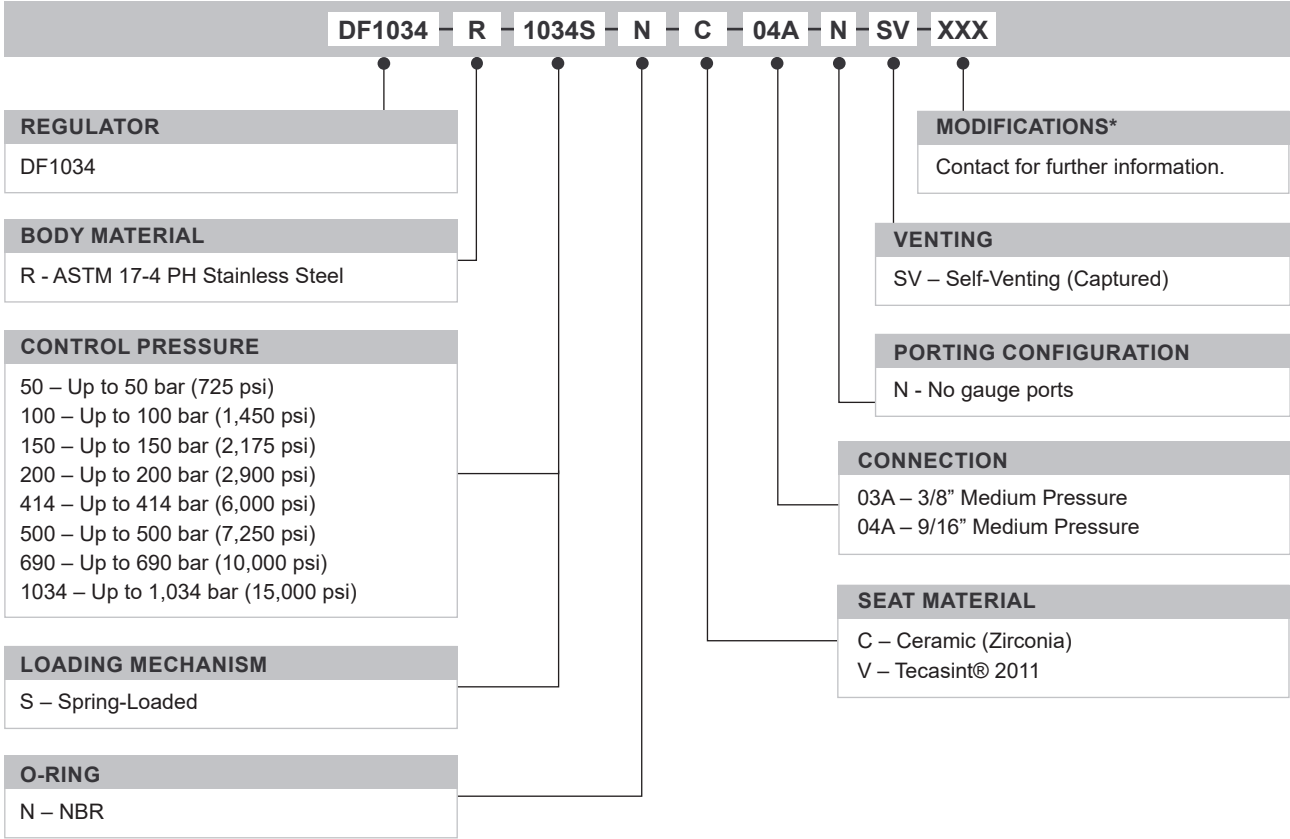
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## ORDERING INFORMATION

To build a Pressure Tech part number, simply combine the characters identified below in sequence:



| OPTIONAL EXTRAS |                         |             |
|-----------------|-------------------------|-------------|
|                 | PART NUMBER             | DESCRIPTION |
| Service Kit     | SRK-DF1034-R-1034S-N... | NBR o-ring. |

*Note:* Ancillary equipment also available

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\* Where applicable

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