

HF600 Datasheet

HIGH-FLOW PRESSURE REGULATOR



● Gas ● Liquid | ● Diaphragm ● Piston | ● Self-Venting ● Non-Venting | Max Inlet: 600 bar (8,700 psi) | Max Outlet: 600 bar (8,700 psi) | Cv 7.0



INTRODUCING THE HF600...

The HF600 is a piston-sensed high-flow pressure regulator for gas applications.

It features a **balanced main valve** as standard for up to 600 bar (8,700 psi) inlet pressure.

With a Cv of 7.0, the HF600 is perfect for applications where both high-flow and high pressure are required.

SPECIFICATION

Max. Rated Inlet Pressure	600 bar (8,700 psi)
Outlet Ranges	Up to 600 bar (8,700 psi)
Design Proof Pressure	150% max. working pressure
Seat Leakage	In accordance with ANSI/FCI 70-3
Weight	18kg (39.7lbs)

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

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Main Valve Pin	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Soft Seat	PEEK™ (450G)
Valve Spring	ASTM A479 S42 Stainless Steel (UNS S43100)
Piston	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
O-Rings	NBR N70 (Nitrile Buna N) FKM/FPM (Viton)
Loading Spring	Alloy Spring Steel

FEATURES AND BENEFITS

1 BALANCED MAIN VALVE DESIGN

Improved control across the pressure range.

2 PISTON SENSING ELEMENT

Perfect for use in challenging conditions.

3 HIGH FLOW COEFFICIENT

CV 7.0 for high-flow capabilities.

NOTE: 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.



PRESSURE TECH LTD

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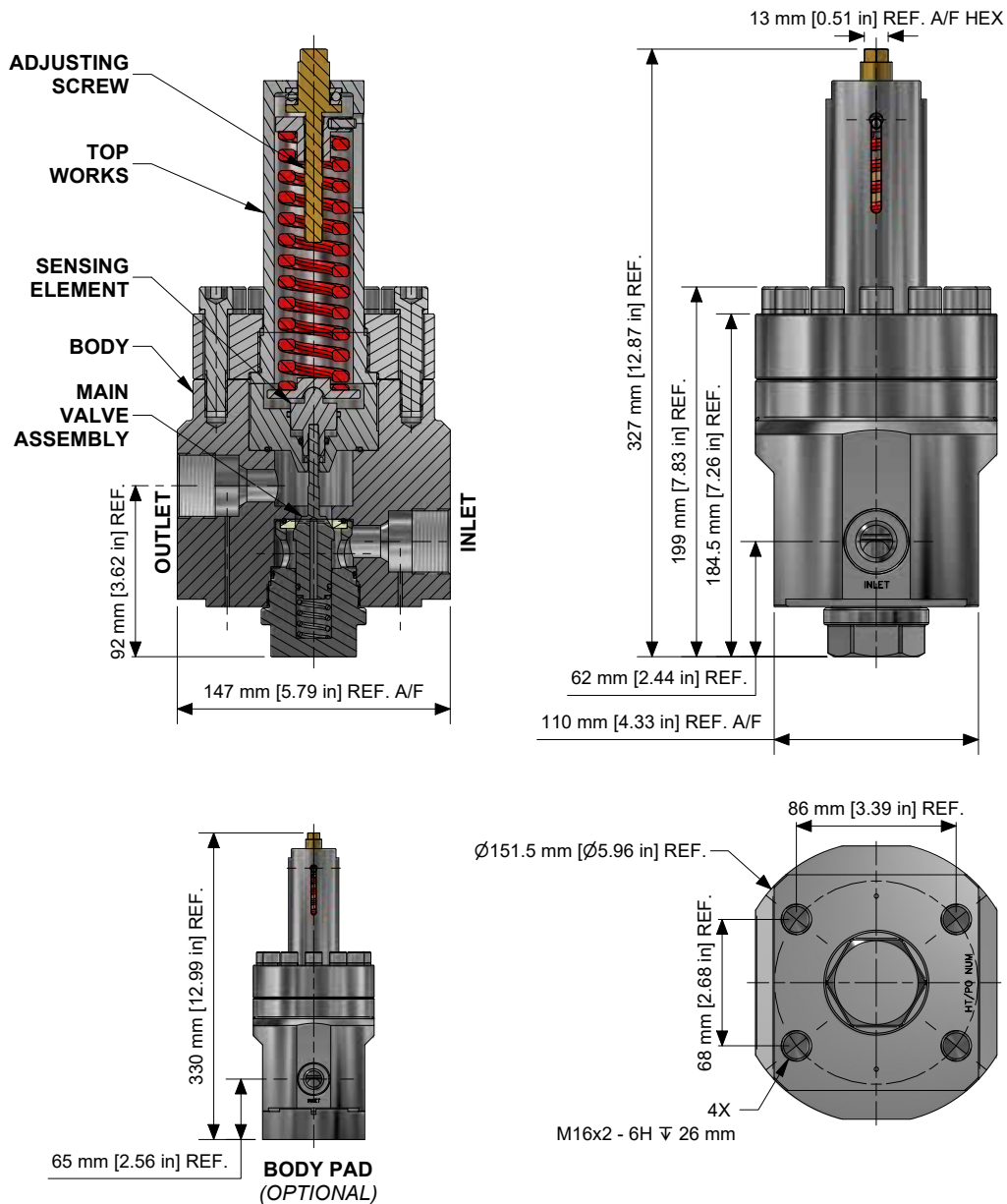
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DRAWINGS AND INSTALLATION DIMENSIONS

Dimensions shown for 1" MP option and standard configurations only - please contact the office for other options.



Note:
All gauge ports are 1/4" NPT as standard.

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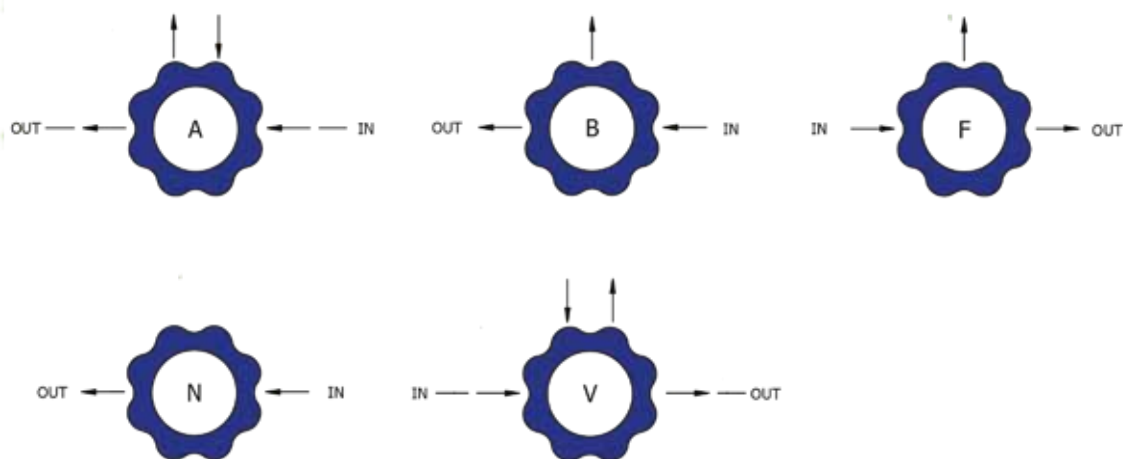


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FLOW CURVE

Please contact the office for further information.

PORTING CONFIGURATIONS



Notes:

Additional porting configurations are available - please contact the office for further information.
One gauge to be used with extension bar if mounted directly.

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ORDERING INFORMATION

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

HF600G - 7 - S - 600S - V - 08A - N - NV - XXX									
REGULATOR HF600G – Gas			MODIFICATIONS* Contact the office for information.						
CV 7 – 7.0			VENTING NV – Non-Venting						
BODY MATERIAL S – ASTM A479 316/316L Stainless Steel			PORTING CONFIGURATION N - No gauge ports Refer to page 3 for porting options.						
CONTROL PRESSURE 50 – Up to 50 bar (725 psi) 100 – Up to 100 bar (1,450 psi) 140 – Up to 140 bar (2,030 psi) 200 – Up to 200 bar (2,900 psi) 414 – Up to 414 bar (6,000 psi) 600 – Up to 600 bar (8,700 psi)			IN/OUT CONNECTION SIZE** 08 – 1" 12 – 1½"						
LOADING MECHANISM S – Spring-Loaded			IN/OUT CONNECTION TYPE** A – Medium Pressure						
			O-RING MATERIAL N – NBR V – FKM/FPM W – FKM/FPM (Low Temp & AED)						

OPTIONAL EXTRAS

	PART NUMBER	DESCRIPTION
Service Kit	SRK-HF600...	Various options available

Note: Ancillary Equipment and additional Service Kit options also available.

TRADEMARKS: Vespel® is a registered trademark of DuPont Polymers, Inc.

* Where applicable

** Other options may be available

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