

# 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	Vespel®
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.



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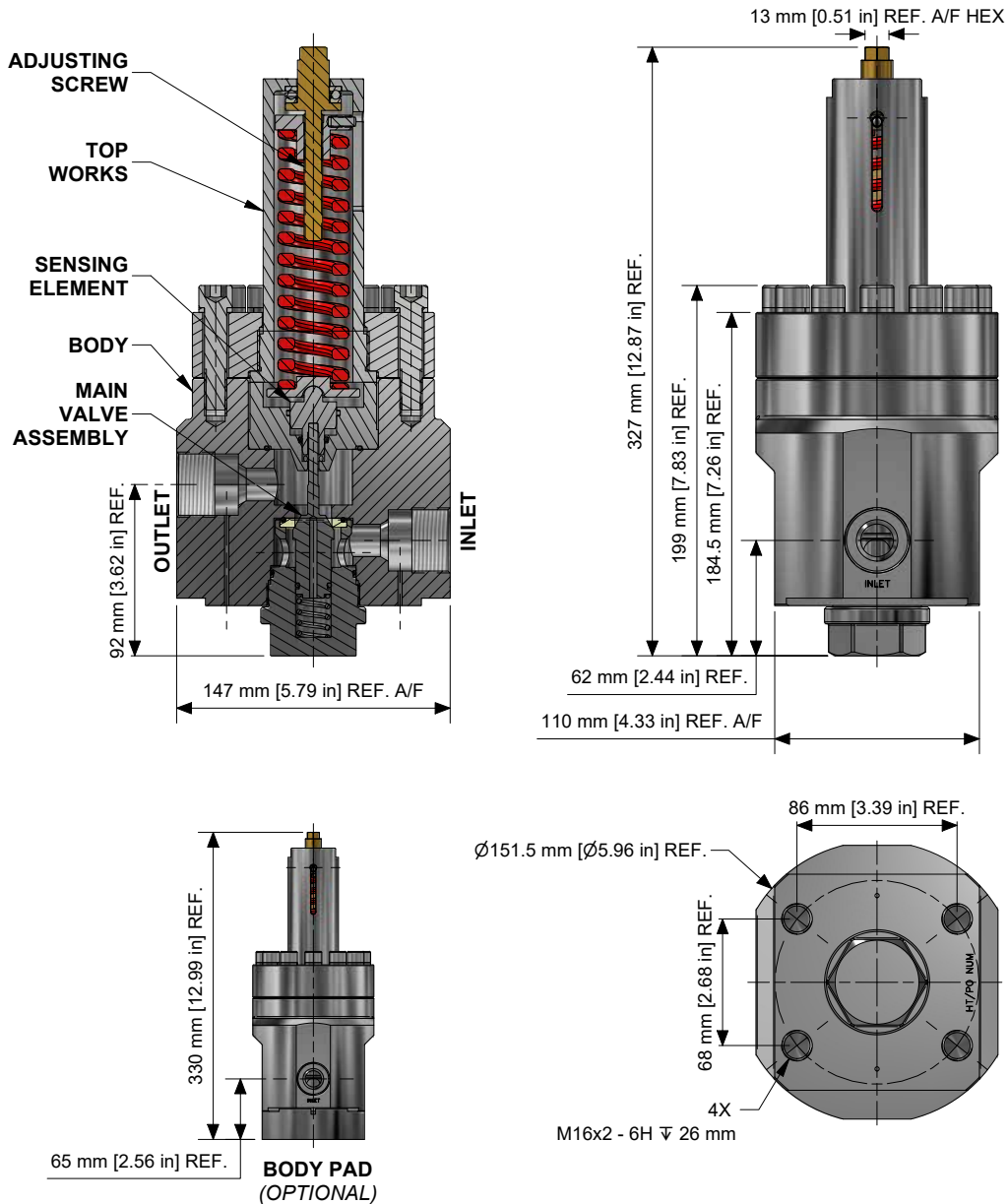
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### DRAWINGS AND INSTALLATION DIMENSIONS

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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HIGH-FLOW PRESSURE REGULATOR

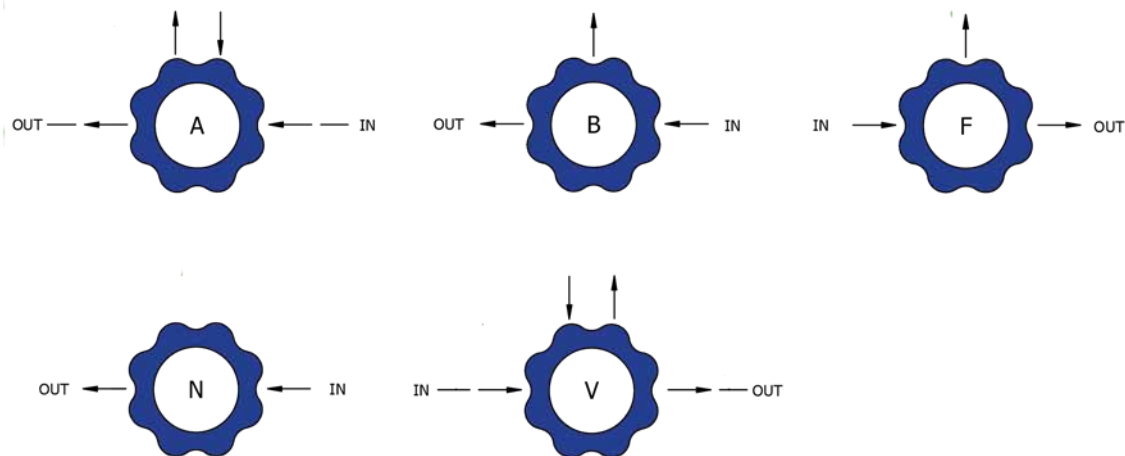


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## FLOW CURVE

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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# 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

## 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

CV

7 – 7.0

BODY MATERIAL

S – ASTM A479 316/316L Stainless Steel

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)

LOADING MECHANISM

S – Spring-Loaded

MODIFICATIONS\*

Contact the office for information.

VENTING

NV – Non-Venting

PORTING CONFIGURATION

N - No gauge ports  
Refer to page 3 for porting options.

IN/OUT CONNECTION SIZE\*\*

08 – 1”  
12 – 1½”

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.