Hanley Controls Clonmel Ltd
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IR6000 Series

Two Stage, General Purpose Pressure Regulator Internally Threadless, Stainless Steel

Value Proposition:

The IR6000 Series regulator offers high pressure capability with an inlet pressure up to 4,000 psig. The large convoluted Hastelloy C-22® diaphragm provides stable pressure control over the operational range of the regulator.

Close tolerances and tight alignment of moving components minimize hysteresis and improve cycle life. Convoluted, Hastelloy C-22® diaphragm provides high corrosion resistance and increases cycle life.

Contact Information:

Parker Hannifin Corporation
Veriflo Division
250 Canal Blvd
Richmond, California 94804

phone 510 235 9590
fax 510 232 7396
veriflo.sales@parker.com

www.parker.com/veriflo
Mobile App: m.parker.com/veriflo

Product Features:

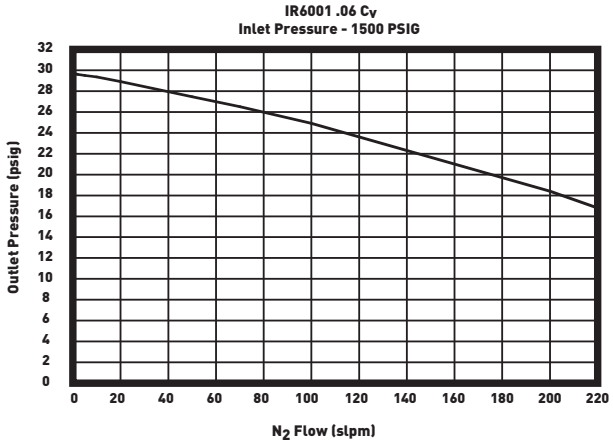
- Unique compression member loads the seal to the body without requiring a threaded nozzle or additional seals
- Internally threadless design reduces particle generation. Low internal volume reduces purge times
- Cleaned for O_2 service is standard
- Positive upward and downward stops increase cycle life by preventing over stroking of the diaphragm
- Selection of seat materials for media compatibility and temperature applications
- Express Service Program available noted in *green italic print*

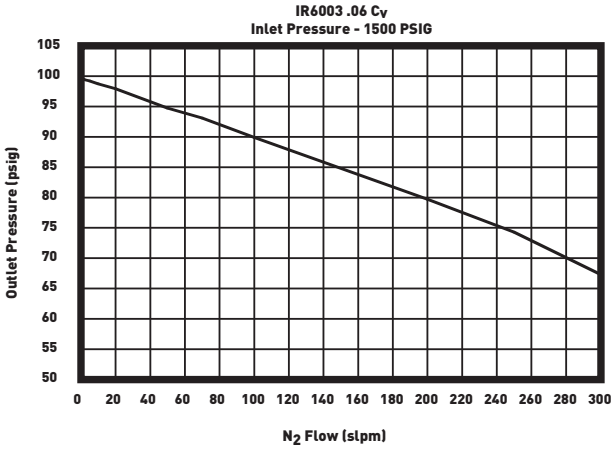
ENGINEERING YOUR SUCCESS.

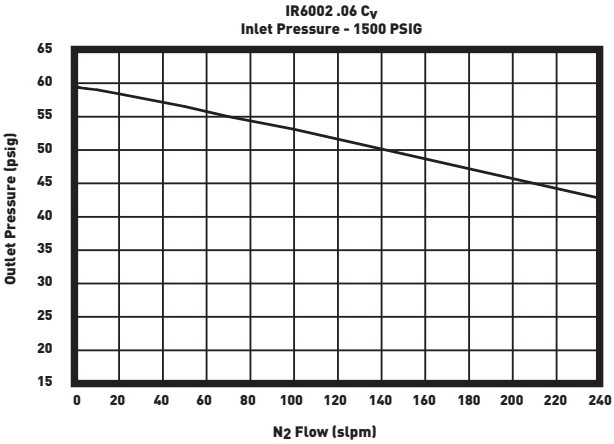
IR6000 SERIES

Flow Curves

Additional flow curves available upon request

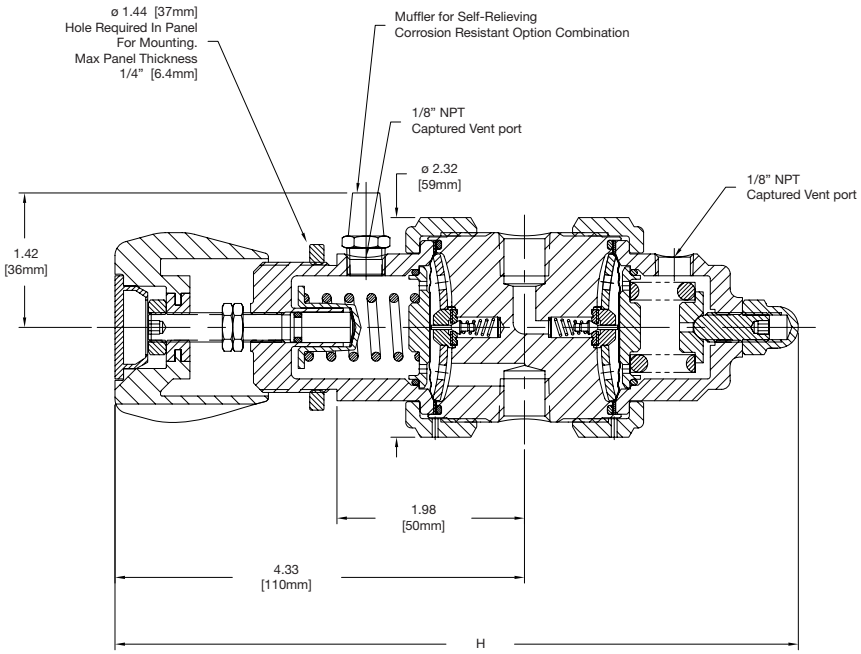






RANGE TABLE			
Basic Model	Max Inlet PSIG		
	0.06 C_V	0.02 C_V	0.15 C_V
IR6000	4000	4000	1250
IR6001	4000	4000	1250
IR6002	4000	4000	1250
IR6003	4000	4000	1250
IR6004	4000	4000	1250
IR6015	4000	4000	1250

Dimensional Drawing



OVERALL HEIGHT TABLE	
Basic Model	H
IR6000	7.22 [183.4MM]
IR6001	7.22 [183.4MM]
IR6002	7.22 [183.4MM]
IR6003	7.22 [183.4MM]
IR6004	7.81 [198.4MM]
IR6015	7.22 [183.4MM]

Safety Guide and Installation and Operating Instructions available at
www.parker.com/veriflo

IR6000 SERIES

Ordering Information

Build an IR6000 Series regulator by replacing the numbered symbols with an option from the corresponding tables below.

Color Explanations: Black = Standard Lead Time Configurations
Blue = Extended Lead Time Configurations
Green Italic = Express Service Program (ESP)

For an explanation of Ordering options please reference literature 25000275 at www.parker.com/veriflo

	1	2	3	4	5	6	7	8	9	10	11
Sample:	IR60	02	S		K	4P	01	30	4	B	S	580

Finished Order: **IR6002SK4P01304BS580**

1 Basic Series

Range	Outlet Gauge
00 = 0 - 10 psig	*0 - 30 psig*
01 = 1 - 30 psig	*0 - 60 psig*
02 = 2 - 60 psig	*0 - 100 psig*
03 = 3 - 100 psig	*0 - 200 psig*
15 = 5 - 150 psig	*0 - 200 psig*
04 = 10 - 250 psig	*0 - 400 psig*

2 Body Material

S = 316L Stainless Steel
H = Hastelloy C-22® *SST gauges*
M = Monel® *SST gauges*

3 Flow Capacity

= 0.06 C_V Standard
1 = 0.02 C_V
2 = 0.15 C_V

4 Seat Material

K = PCTFE
P = PEEK™
V = Vespel®

5 Porting

2P = 2 Ports *No X required for gauges, inlet & outlet ports only*
3P = 3 Ports *One X for gauge port*
4P = 4 Ports Two X's for gauge ports
4PB = 4 Ports *One X for gauge port*
5P = 5 Ports Two X's for gauge ports
6P = 6 Ports Two X's for gauge ports

See Regulator Porting Guide for additional options and port layouts

Note: Ports may be plugged for NPT threaded product.

6 Outlet Gauge

Outlet Gauge	Basic Series
03 = 0 - 30 psig	*IR6000*
OL = 0 - 60 psig	*IR6001*
01 = 0 - 100 psig	*IR6002*
2 = 0 - 200 psig	*IR6003*
4 = 0 - 400 psig	*IR6004*
X = No Gauge	

Additional ranges available upon request

7 Inlet Gauge

X = No Gauge
30 = 3000 psig Standard
20 = 2000 psig with the 0.15 Cv option
40 = 4000 psig

Additional ranges available upon request

8 Port Style

2 = 1/8" NPT Female
4 = 1/4" NPT Female
6 = 3/8" NPT Female
4T = 1/4" A-LOK®
6T = 3/8" A-LOK®

All Gauge ports are 1/4" NPT Female

9 Port Mounting

B = Standard - No other options

10 Optional Features

This section can have multiple options

B = True Ported Body *No plugs*
C = Corrosion Resistant External *Stainless Steel Cap*
G = Tamper Proof *Not available with M option*
M = Metal Knob *(Black) Not available with G option. Required for temperatures above 150° F*
L = PTFE Backup O-Ring *PCTFE and PEEK™ Seats Only*
R2 = Relief Valve, 2nd Stage (LP) 4PB, 5P and 6P Only
S = Self Relieving *Temperature rating -40°F to 150°F (-40°C to 66°C)*
V = Outlet Valve NV17SS44MF
T = Hastelloy Trim *Includes carrier and back-up washer. Option is for Stainless Steel body - Hastelloy® trim is std with Hastelloy® and Monel® bodies*

Note: Panel Mount Option:
Order Panel Nut Ring p/n: 41900363 as a separate line item.
Vent Muffler Option:
Order Vent Muffler p/n: 46600581 as a separate line item.

Vent Muffler is standard for the Self-Relieving(S), Corrosion Resistant(C) option combination.

11 CGA#

320, 330, 350, 510, 580, 590 or 660

Do not exceed the rated pressure of the CGA connection.

IR6000 Series

Specifications

Materials of Construction	
Wetted	
Body Options	316L Stainless Steel (std) or Hastelloy C-22® or Monel® (*Hastelloy® Trim is std with Hastelloy® and Monel® bodies)*
Compression Member	Inconel 625®
Diaphragm	Hastelloy C-22®
Poppet	Hastelloy C-276®
Poppet Spring	Inconel X750®
Seat Options	PCTFE (std), Vespel® or PEEK™
Carrier Options	316L Stainless Steel (std) or Hastelloy C-22®
Washer Back-up Options	316 Stainless Steel (std) or Hastelloy C-276®
O-ring Back-up Options	FKM (std) or PTFE
Inlet Screen / Filter	316 Stainless Steel (std) (60µm mesh screen, 10µm Filter) Hastelloy® (on Hastelloy®, Monel® bodies)
Self Relieving Seat	PEEK™
Non-wetted	
Cap Options	Nickel Plated Brass (std) or Stainless Steel
Nut	Stainless Steel
Knob Options	ABS (std) (ambient temp) or Aluminum

Functional Performance	
Design	
Burst Pressure	12,000 psig (828 barg)
Proof Pressure	6,000 psig (414 barg)
Flow Capacity	
C_V Options	C_V 0.06 (std), C_V 0.02, C_V 0.15
Leak Rate	
Internal	Bubble Tight
External	Bubble Tight
Supply Pressure Effect	*Based upon C_V Option*
0.02 C_V	0.01 psig/100 psig (0.0007 barg/7 barg)
0.06 C_V	0.01 psig/100 psig (0.0007 barg/7 barg)
0.15 C_V	0.02 psig/100 psig (0.001 barg/7 barg)
Internal Volume	8.1 cc without fittings
Approx. Weight	3.5 lbs. (1.6 kg)
Operating Conditions	
Maximum Inlet	Refer to Range Table for specific information
Outlet Options	0-10 psig (0.7 barg), 1-30 psig (2 barg), 2-60 psig (4 barg), 3-100 psig (7 barg), 5-150 psig (10 barg), 10-250 psig (17 barg)
Temperature	Metal Knob required for temperatures above 150°F
PCTFE	-40°F to 150°F (-40°C to 66°C)
PEEK™	-40°F to 275°F (-40°C to 135°C)
Vespel®	-40°F to 500°F (-40°C to 260°C)
Self Relieving Option	-40°F to 150°F (-40°C to 66°C)

For additional information on materials of construction, functional performance and operating conditions, see Regulator Technical Bulletin.

Use mobile device to scan this QR Code.

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