



Neon
Controls

“Go Brighter. Go Neon.”

Series 30

High Outlet
Pressure regulator

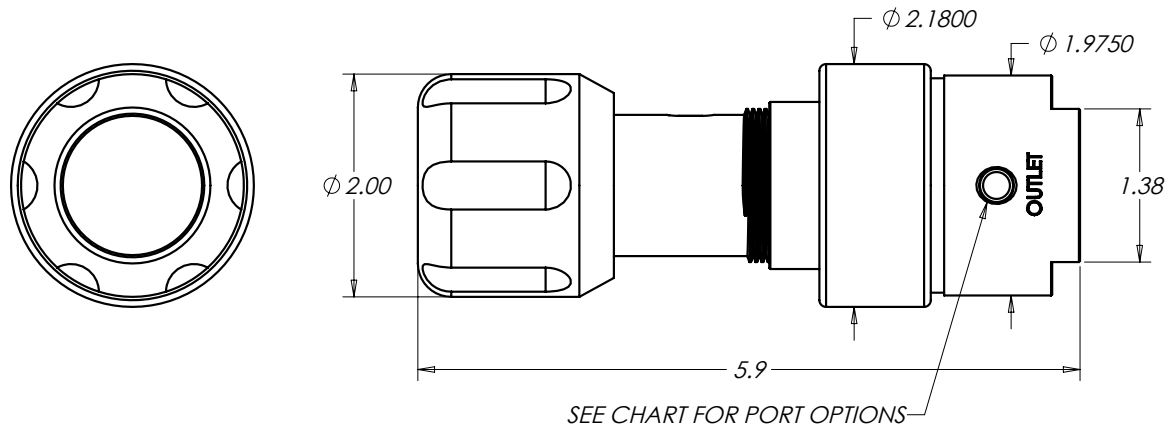


Features and Benefits

- Simple poppet and seat design for easy maintenance
- 10 micron filter element to protect the regulator seat
- 3 point sub-seat seal protects against leakage
- 2 year factory warranty

The Series 30 regulator offers control ranges from 1,000 to 2,500 psig with inlet pressures up to 6000 psig. Based on our Series 10 regulator, but with a piston sensor instead of a diaphragm, we are able to offer all of the same porting configurations, seat materials, and Cv values as that series, but with a much higher delivery pressure. The Series 30 can be configured as either a cylinder-type or a line regulator. It can be supplied with gauges, outlet valve, or CGA fittings. It has a 10 micron filter as standard and has bubble-tight shutoff.

SERIES 30



Specifications

For questions about this product, please contact Neon Controls.

Operating Parameters

Pressure rating per criteria of CGA E-4; ASME B31; ASME BPVC

Maximum Inlet Pressure

6000 psig / 415 Bar

Maximum Outlet Pressure

1000, 2000, 2500 PSI

7000, 14000, 17,500 kPa

70, 140, 175 Bar

Design Proof Pressure

150% of rated pressure

Leakage

Internal: Bubble tight

External: Designed to meet $< 2 \times 10^{-8}$ atm/cc He

Operating Temperature

-40°F to 185°F / -40°C to 85°C

Flow Capacity

0.03, 0.07, 0.24, 0.3, 0.35, 0.58

Wetted Materials

Body

Brass, 316L Stainless Steel

Seat

Peek, PCTFE [standard], Vespel

Filter

10 micron 316L Stainless Steel

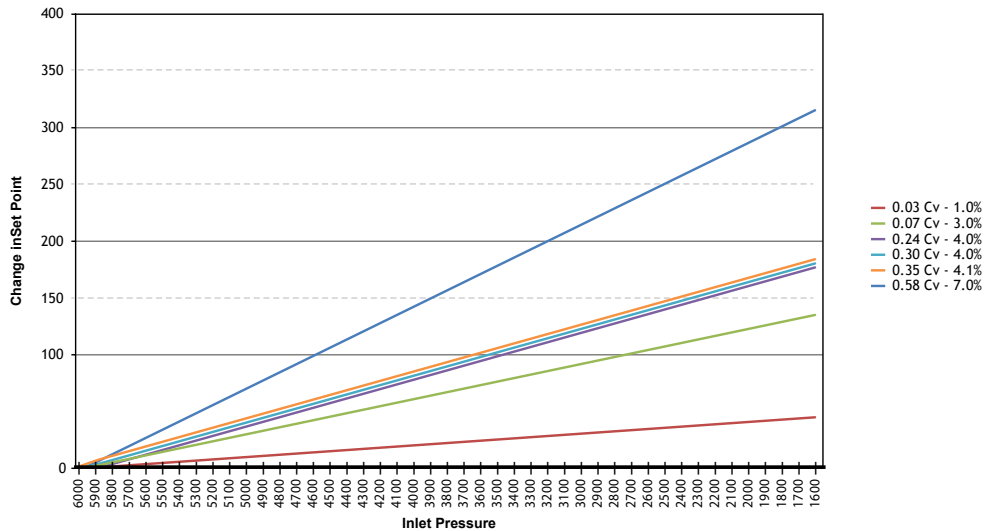
Spring Housing

316L Stainless Steel

Remaining Parts

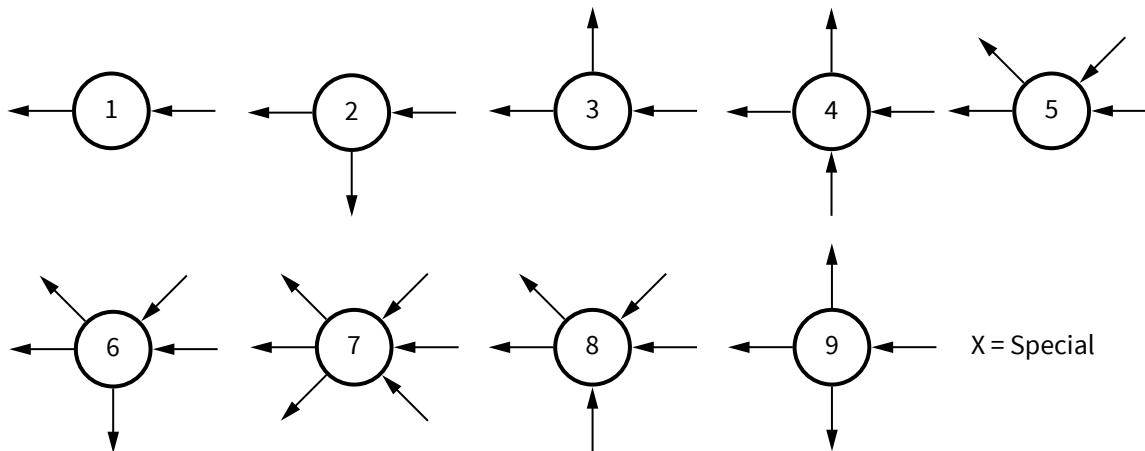
Inconel

Supply Pressure Effect



Standard Porting Configuration

(Chart A)



30	-	2	8	1	B	1
Series	-	Body Mtl	Outlet Range	Porting	Connection	Gauges
30		1 - Brass 2 - 316L Stainless	8 - 1000 PSI A - 2000 PSI B - 2500 PSI	See Chart A	A - 1/8" B - 1/4" [standard] C - 3/8"	1 - with gauges 2 - no gauges 3 - customer supplied

-	2	A	F	1	580
-	Cv	Piston	Seat	Cap	CGA
1 - 0.03 2 - 0.07 [standard] 3 - 0.24 4 - 0.30 6 - 0.35 7 - 0.58		B - Buna-N O-ring [standard] V - Viton O-ring	F - PCTFE [standard] K - Peek P - Vespel	2 - 316L SS [standard] 5 - 316L SS PM B - 316L SS TP E - 316L SS TP PM	Insert 3 digit portion of CGA number [optional]

Special Options	
15	Outlet valve - packed
16	Outlet valve - packless
73	Helium Leak Test

For other options contact factory

Pressure and Temperature Rating for Seats				
Code	Material	Pressure in PSI Minimum	Pressure in PSI Maximum	Temperature Maximum
F	PCTFE	10	3600	150°F
K	PEEK	50	6000	150°F
K	PEEK	50	3600	500°F
P	VESPEL	25	6000	150°F
P	VESPEL	25	3600	500°F



Shipping Weight: 1.9 pounds

NeonControls.com

How To Videos

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<http://youtube.com/neoncontrols>



Warranty

Precision Instrumentation warrants each Neon regulator to be free from defects in materials and workmanship for two years after manufacture date.

In the unlikely event that a Neon regulator is defective in workmanship or materials, Precision Instrumentation will, at its discretion, repair or replace the regulator free of charge.

The selling distributor must process all warranty claims. If the original purchaser suspects a defect in a Neon regulator, the regulator, together with proof of purchase, must be returned to the selling distributor for evaluation and disposition.

This warranty applies only under conditions of use for which each regulator is designed and does not cover cosmetic damage or damage due to misuse, abuse, neglect, accident, improper installation, or acts of God. This warranty does not extend to or apply to any regulator that has been repaired or altered by any party other than Precision Instrumentation or its authorized distributors.

This warranty is in lieu of and excludes all other warranties, expressed or implied, including the warranties of merchantability and fitness for a particular purpose. Precision Instrumentation will not be liable for any special or consequential damages, or for any loss, damage or expense directly or indirectly arising from use of or inability to use any regulator, either separately or in combination with any other equipment or material, or from any other case.

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