

959 & NPR959Series

Single Stage, Tied Diaphragm Regulator
High Pressure, Stainless Steel



Value Proposition:

The 959 Series Regulator is a high pressure, tied diaphragm regulator.

The 959 Series tied diaphragm regulator provides shut off of corrosive or hazardous gases if a leak across the seat occurs. The added unique compression member loading eliminates threads in the wetted area, thus reducing particle entrapment.

Subatmospheric pressure control is available with the NPR959, a negative pressure 959 regulator.



Contact Information:

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Product Features:

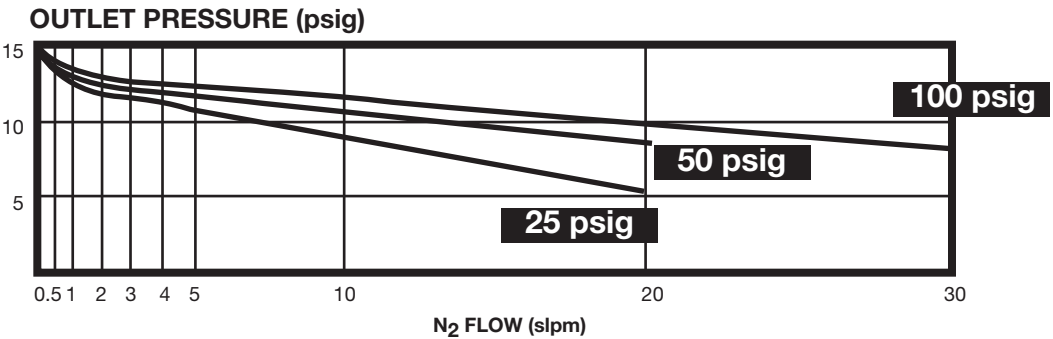
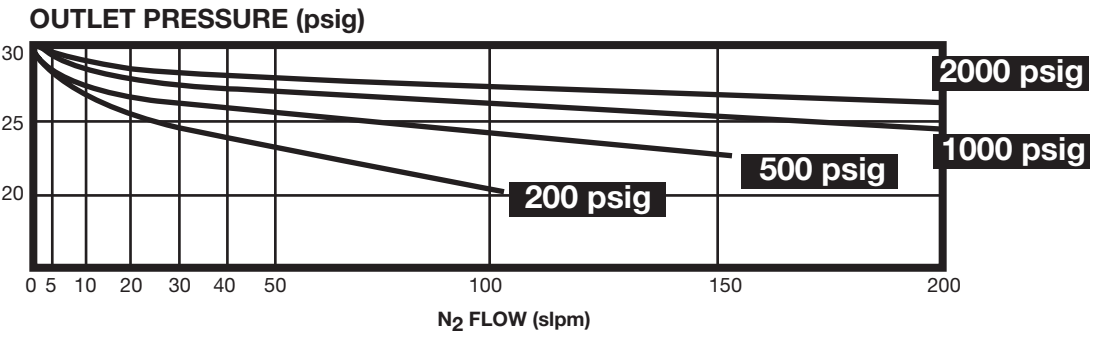
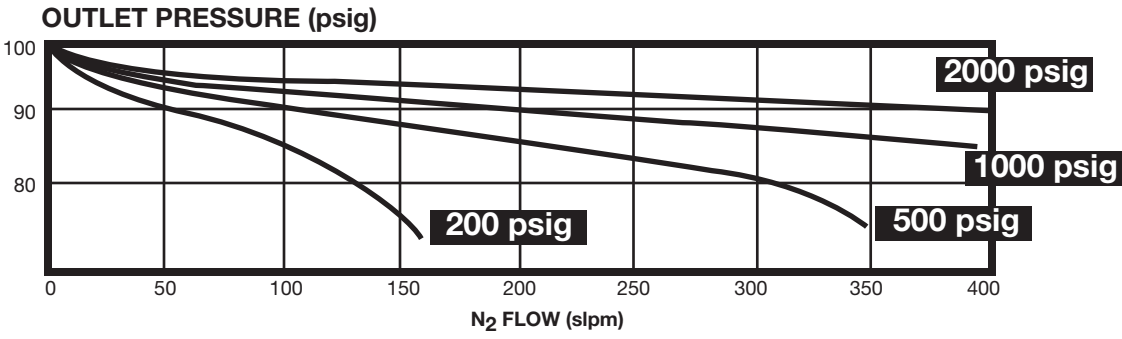
- Tied Diaphragm for added safety
- Unique compression member loads seal to body without requiring a threaded nozzle or additional seals to atmosphere
- Metal-to-metal diaphragm-to-body seal assures high leak integrity
- Adjustment range spring may be replaced without breaking diaphragm seal to body and exposing the wetted area to contamination
- Cleaned for O₂ service is standard



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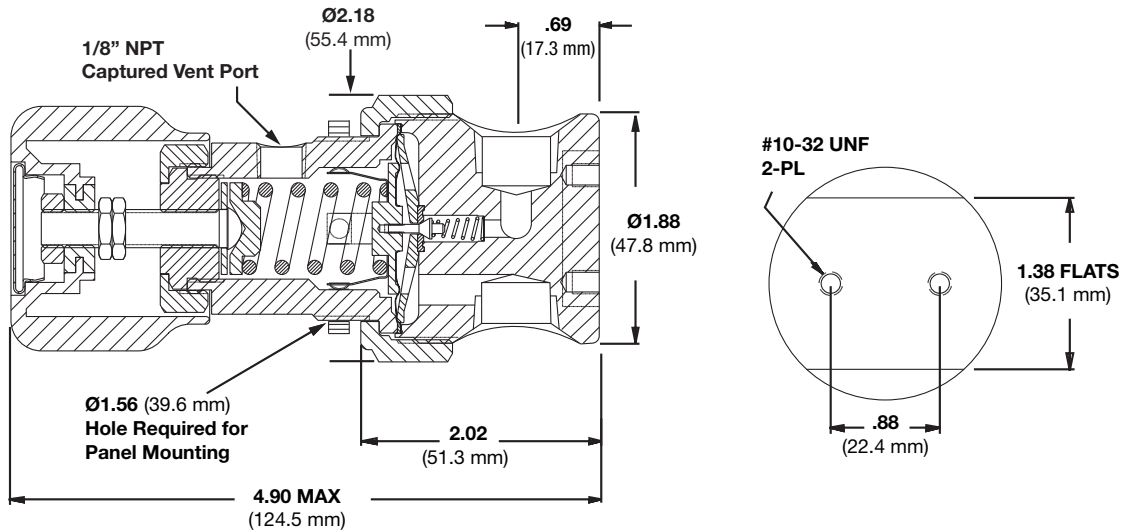
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Flow Curves



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Dimensional Drawing



Ordering Information

Build a 959 Series regulator by replacing the numbered symbols with an option from the corresponding tables below.

Contact factory for most up to date lead time information.

Blue = Configurations that have selections in blue will require a quote from the factory.

Sample: **95930 S 4P OL 30 4 TH**

Finished Order: **95930S4POL304TH**

1 Basic Series
 95930 = 1 - 30 psig
 959100 = 3 - 100 psig
 959150 = 5 - 150 psig
 NPR95930 = -25 in Hg 0 - 30 psig

2 Body Material
 S = 316L Stainless Steel
 H = **Hastelloy C-22®** Includes Hastelloy C-22® body, diaphragm, compression member, poppet and Inconel® spring

3 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

4 Outlet Gauge
 03 = 0 - 30 psig
 OL = 0 - 60 psig
 01 = 0 - 100 psig
 2 = 0 - 200 psig
 X = No Gauge
Additional ranges available upon request

5 Inlet Gauge
10 = 0 - 1000 psig
 20 = 0 - 2000 psig
 30 = 0 - 3000 psig
 40 = 0 - 4000 psig
 X = No Gauge
Additional ranges available upon request

6 Port Style
 4 = 1/4" NPT Female
 All Gauge Ports are 1/4" NPT Female

7 Optional Features
 This section can have multiple options
2 = 0.2 C_v
PM = Panel Mount
R = Relief Valve 4PB, 5P and 6P Only
TH = **Hastelloy Trim** Available on Stainless Steel body, only. Includes Hastelloy C-22® diaphragm, compression member, poppet and screen with an Inconel® spring
VESP = **VespeI® Seat** Recommended for N₂O Service

Note: Veriflo reserves the right to plug NPT ports. If a true ported body is required, please contact Customer Service.

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Specifications

Materials of Construction	
Wetted	
Body Options	316L Stainless Steel (std) or Hastelloy C-22®
Compression Member Options	316L Stainless Steel (std) or Hastelloy C-22®
Diaphragm Options	316L Stainless Steel (std) or Hastelloy C-22®
Seat Options	PCTFE (std) or Vespel®
Poppet Options	316L Stainless Steel (std) or Hastelloy C-22®
Poppet Spring Options	316 Stainless Steel (std) or Inconel® X750
Poppet Screen	Hastelloy C-22®
Inlet Screen	316L Stainless Steel (std) or Hastelloy C-22®
Non-wetted	
Cap	Nickel Plated Brass
Nut	316L Stainless Steel
Knob	
959	ABS (Black)
NPR959	ABS (White)

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

Vespel® is a registered trademark of DuPont Performance Elastomers L.L.C.
Hastelloy C-22® is a registered trademark of Haynes International, Inc.
Inconel® is a registered trademark of Special Metals Corporation

Functional Performance	
Design	
Burst Pressure	10,500 psig (724 barg)
Proof Pressure	5,250 psig (362 barg)
Flow Capacity	
Cv Options	C _v 0.04 (std) or C _v 0.2
Leak Rate	
Internal	Bubble Tight
External	Bubble Tight
Supply Pressure Effect	
C _v 0.04	0.6 psig/100 psig
C _v 0.2	1.5 psig/100 psig
Internal Volume	5.41 cc without fittings
Approx. Weight	2 lbs. (0.9 kg)
Operating Conditions	
Maximum Inlet	<i>based on C_v Option</i>
C _v 0.04	3,500 psig (240 barg)
C _v 0.2	1,250 psig (86 barg)
Outlet Options	
959	1 - 30 psig (2 barg) 3 - 100 psig (7 barg) 5 - 150 psig (10.3 barg)
NPR959	-25 in Hg 0-30 psig
Temperature	-40°F to 150°F (-40°C to 65°C)

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