

# 959W & NPR959W Series

UHP Single Stage, Tied Diaphragm Regulator  
High Pressure, Welded, Stainless Steel

aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding

## Value Proposition:

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

The 959W 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.

For subatmospheric pressure control, the NPR959W is available.



## Contact Information:

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## Product Features:

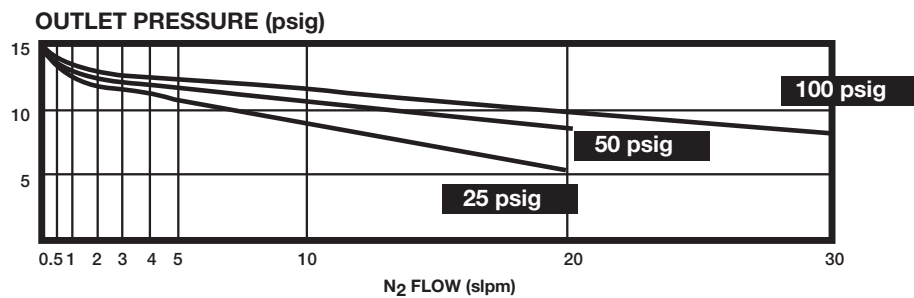
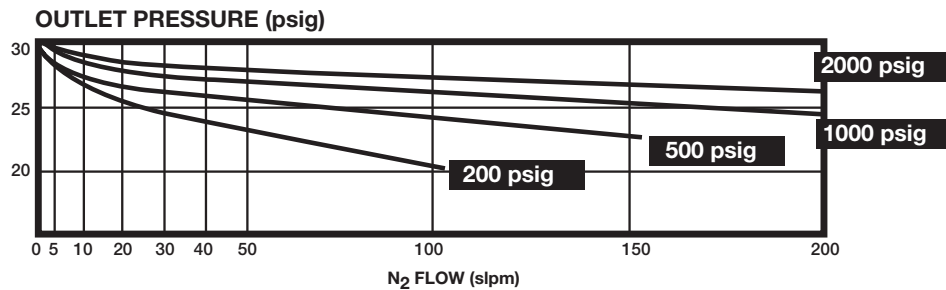
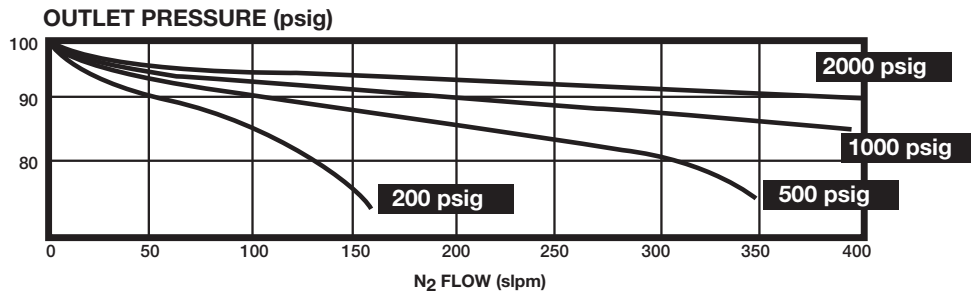
- Tied Diaphragm for added safety
- Unique compression member loads seal to body without requiring a threaded nozzle or additional seals to atmosphere
- Metal-to-metal diaphragm-to-body seal assures high leak integrity
- High cycle life
- Standard full internal electropolish
- Vericlean™, Veriflo's low sulfur high purity 316L Stainless Steel enhances electropolishing, welding, and corrosion resistance



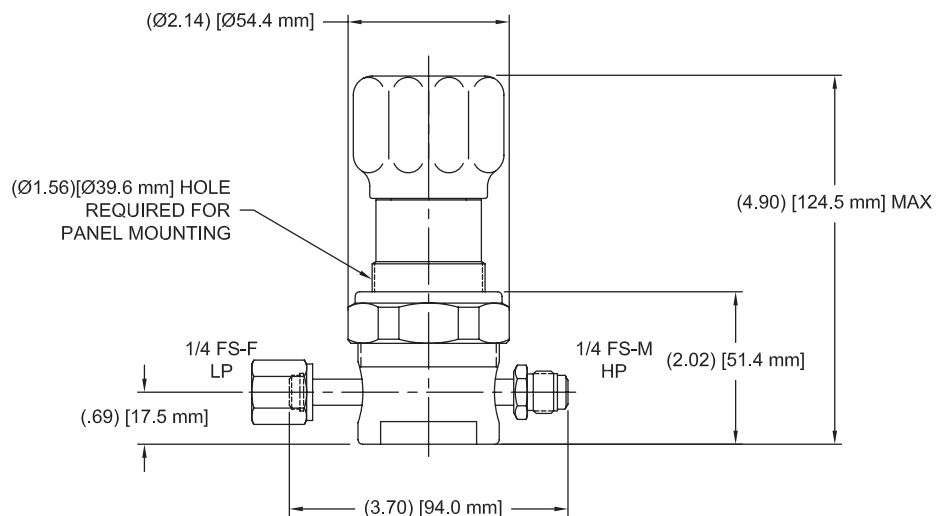
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## Flow Curves



## Dimensional Drawing



Safety Guide and Installation and Operating Instructions available at  
[www.parker.com/veriflo](http://www.parker.com/veriflo)

# 959W & NPR959W Series

## Ordering Information

Build a 959W or NPR959W 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

For an explanation of Ordering options please reference literature 25000275 at [www.parker.com/veriflo](http://www.parker.com/veriflo)

Sample: **95930 W 4P V1 40 FS FMMF TH**

Finished Order: **95930W4PV140FSFMMFTH**

### 1 Basic Series

#### Range

95930 = 1 - 30 psig  
959100 = 3 - 100 psig  
959150 = 5 - 150 psig  
NPR95930 = -25 in Hg - 0-30 psig V1

### 2 Body Material

W = 316L Stainless Steel

### 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*  
*See Regulator Porting Guide for additional options and port layouts*

### 4 Outlet Gauge

V3 = -30 in Hg 0 - 30 psig  
V1 = -30 in Hg 0 - 100 psig  
V2 = -30 in Hg 0 - 200 psig  
X = No Gauge  
*Additional ranges available upon request*

### 5 Inlet Gauge

V1 = -30 in Hg 0 - 100 psig  
10 = 0 - 1000 psig  
30 = 0 - 3000 psig  
40 = 0 - 4000 psig  
X = No Gauge  
*Additional ranges available upon request*

### 6 Port Style

FS = 1/4" Face Seal  
FS8 = 1/2" Face Seal  
TS = 1/4" Tube Stub *Standard only when configured as TSTS*

### 7 Port Configuration

M = Male  
F = Female  
I = Internal Face Seal  
*1/4" FS-M Gauge Ports are Standard*

### 8 Optional Features

This section can have multiple options

EX = 10 Micro In Surface Finish  
PM = Panel Mount  
TH = Hastelloy Trim *Includes Hastelloy C-22® diaphragm, compression member, poppet and screen with an Inconel® spring*  
VESP = Vespel® Seat *Recommended for N<sub>2</sub>O Service*  
2 = 0.2 C<sub>v</sub>

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## Specifications

Materials of Construction	
<b>Wetted</b>	
Body	316L Stainless Steel
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	316L Stainless Steel (std) or Inconel®
Poppet Screen	Hastelloy C-22®
<b>Non-wetted</b>	
Cap	Nickel Plated Brass
Nut	316L Stainless Steel
Knob	
959W	ABS (Black)
NPR959W	ABS (White)

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

Functional Performance	
<b>Design</b>	
Burst Pressure	10,500 psig (724 barg)
Proof Pressure	5,250 psig (362 barg)
<b>Flow Capacity</b>	
Cv Options	C <sub>v</sub> 0.04 (std) or C <sub>v</sub> 0.2
<b>Leak Rate</b>	
Internal	< 2 x 10 <sup>-9</sup> scc/sec He
External	< 2 x 10 <sup>-10</sup> scc/sec He
<b>Internal Volume</b>	5.41 cc without fittings
<b>Approx. Weight</b>	2 lbs. (0.9 kg)
<b>Surface Finish Options</b>	15-20 micro inch Ra (std) or 10 micro inch Ra
<b>Operating Conditions</b>	
Maximum Inlet	<i>based on C<sub>v</sub> Option</i>
C <sub>v</sub> 0.04	3,500 psig (240 barg)
C <sub>v</sub> 0.2	1,250 psig (86 barg)
Outlet Options	
959W	1 - 30 psig (2 barg) 3 - 100 psig (7 barg) 5 - 150 psig (10.3 barg)
NPR959W	-25 in Hg - 0-30 psig
Temperature	-40°F to 150°F (-40°C to 65°C)

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

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