959W & NPR959W Series
UHP Single Stage, Tied Diaphragm Regulator
High Pressure, Welded, Stainless Steel

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.

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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
959W & NPR959W Series

Flow Curves

OUTLET PRESSURE (psig)

OUTLET PRESSURE (psig)

OUTLET PRESSURE (psig)

Dimensional Drawing

Safety Guide and Installation and Operating Instructions available at 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)

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### Sample: 
**Finished Order:** 95930W4PV140FSFMMFTH

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## Basic Series

<table>
<thead>
<tr>
<th>Range</th>
<th>3P Outlet Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>95930</td>
<td>1 - 30 psig</td>
</tr>
<tr>
<td>959100</td>
<td>3 - 100 psig</td>
</tr>
<tr>
<td>959150</td>
<td>5 - 150 psig</td>
</tr>
<tr>
<td>NPR95930</td>
<td>-25 in Hg - 0-30 psig</td>
</tr>
</tbody>
</table>

## Body Material

- **W** = 316L Stainless Steel

## 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

## 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

## 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

## Port Style

- **FS** = 1/4” Face Seal
- **FS8** = 1/2” Face Seal
- **TS** = 1/4” Tube Stub

Standard only when configured as TSTS

## Port Configuration

- **M** = Male
- **F** = Female
- **I** = Internal Face Seal

1/4” FS-M Gauge Ports are Standard

## Optional Features

- **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 N2O Service

2 = 0.2 C<sub>v</sub>

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[Finished Orders and Ordering Information]
959W & NPR959W Series
Specifications

Materials of Construction

<table>
<thead>
<tr>
<th>Wetted</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>316L Stainless Steel</td>
</tr>
<tr>
<td>Compression Member Options</td>
<td>316L Stainless Steel (std) or Hastelloy C-22®</td>
</tr>
<tr>
<td>Diaphragm Options</td>
<td>316L Stainless Steel (std) or Hastelloy C-22®</td>
</tr>
<tr>
<td>Seat Options</td>
<td>PCTFE (std) or Vespel®</td>
</tr>
<tr>
<td>Poppet Options</td>
<td>316L Stainless Steel (std) or Hastelloy C-22®</td>
</tr>
<tr>
<td>Poppet Spring Options</td>
<td>316L Stainless Steel (std) or Inconel®</td>
</tr>
<tr>
<td>Poppet Screen</td>
<td>Hastelloy C-22®</td>
</tr>
<tr>
<td>Non-wetted</td>
<td></td>
</tr>
<tr>
<td>Cap</td>
<td>Nickel Plated Brass</td>
</tr>
<tr>
<td>Nut</td>
<td>316L Stainless Steel</td>
</tr>
<tr>
<td>Knob</td>
<td></td>
</tr>
<tr>
<td>959W</td>
<td>ABS (Black)</td>
</tr>
<tr>
<td>NPR959W</td>
<td>ABS (White)</td>
</tr>
</tbody>
</table>

**Functional Performance**

**Design**
- Burst Pressure: 10,500 psig (724 barg)
- Proof Pressure: 5,250 psig (362 barg)

**Flow Capacity**
- Cv Options: Cv 0.04 (std) or Cv 0.2

**Leak Rate**
- Internal: \(< 2 \times 10^{-9}\) scc/sec He
- External: \(< 2 \times 10^{-10}\) scc/sec He

**Internal Volume**
- 5.41 cc without fittings

**Approx. Weight**
- 2 lbs. (0.9 kg)

**Surface Finish Options**
- 15-20 micro inch Ra (std) or 10 micro inch Ra

**Operating Conditions**
- Maximum Inlet: based on Cv Option
  - Cv 0.04: 3,500 psig (240 barg)
  - Cv 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)

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

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