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

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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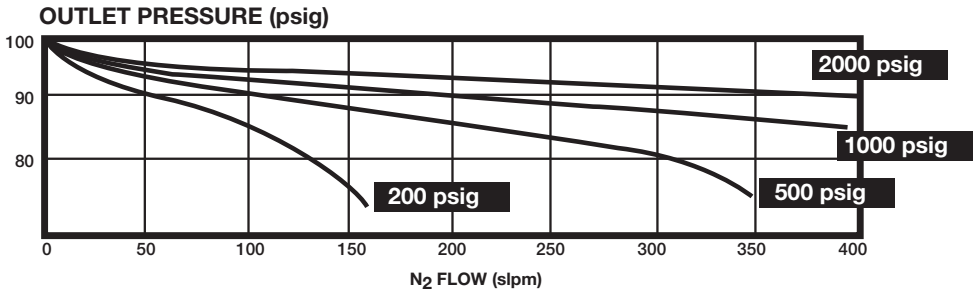
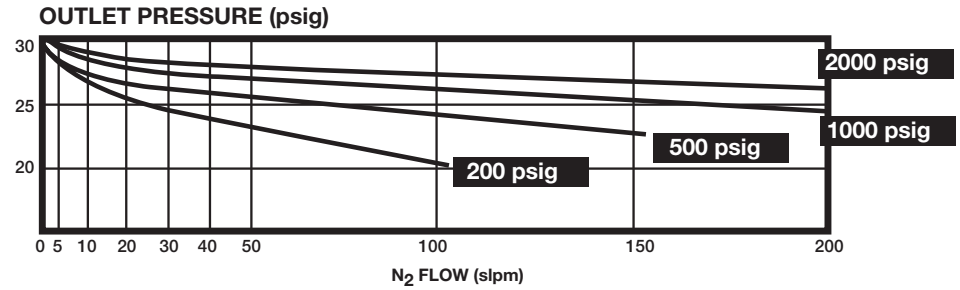
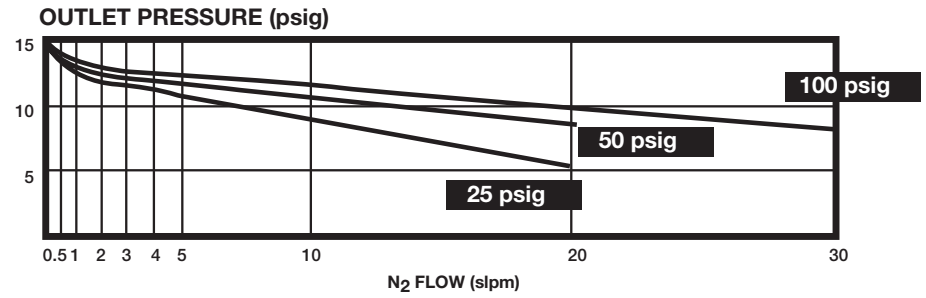
959W & NPR959W Series

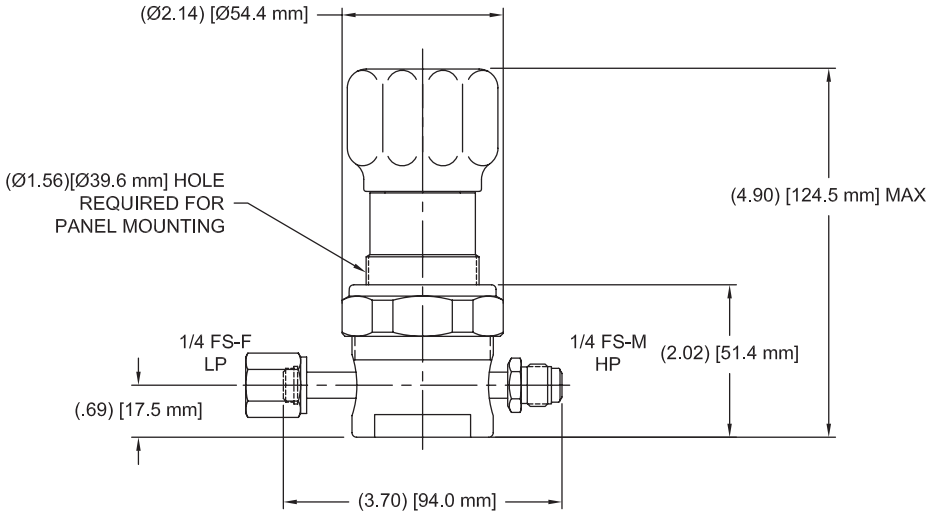
Flow Curves







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

	1	2	3	4	5	6	7	8
Sample:	95930	W	4P	V1	40	FS	FMMF	TH

Finished Order: **95930W4PV140FSFMMFTH**

1 Basic Series

Range		3P Outlet Gauge
95930	= 1 - 30 psig	V1
959100	= 3 - 100 psig	V1
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, compresson member, poppet and screen with an Inconel® spring*
VESP = Vespel® Seat *Recommended for N_2O Service*
2 = 0.2 C_V

959W & NPR959W Series

Specifications

Materials of Construction	
Wetted	
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®
Non-wetted	
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	
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	Inboard Test Method
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 C_V Option*
C_V 0.04	3,500 psig (240 barg)
C_V 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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