NV55 Series

High Flow, Compact Size Valve
Metal Diaphragm Sealed, High Cycle Life
Stainless Steel

Value Proposition:

The NV55 is an economical, general purpose, high flow diaphragm valve ideally suited for use when flowing large volumes of corrosive and non-corrosive fluids.

This compact, 316L stainless steel valve ensures positive and consistent shut off with manual or air actuation. The NV55 offers an Elgiloy® diaphragm and a metal-to-metal seal to atmosphere for leak integrity.

Contact Information:

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www.parker.com/veriflo
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Product Features:

- Internally threadless and springless
- High cycle life
- Compact size
- Positive, consistent shut off
- Metal-to-metal seal to atmosphere
- Cleaned for O_2 service
- Ideal for high flow applications
- Fully functional from vacuum to 125 psig for AOPLPNO valves / 250 psig for manual and AOPLPNC valves

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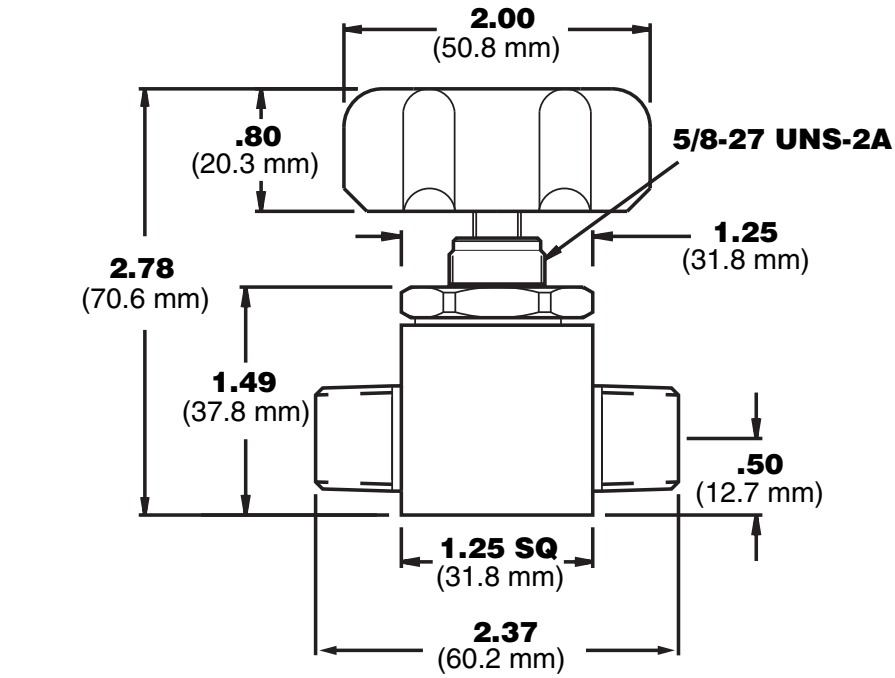
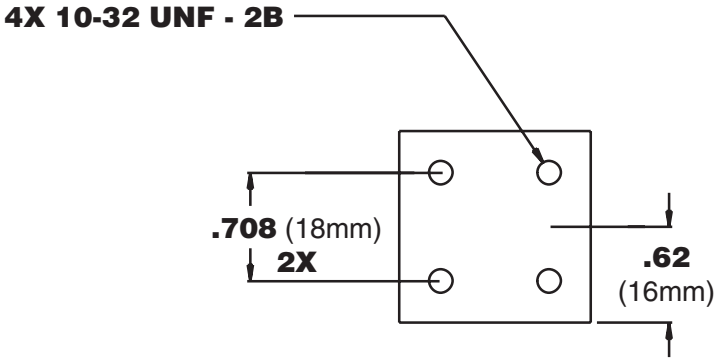
NV55 Series

Dimensional Drawing





DIMENSION TABLE	
Connection Type	**End to End Dimension**
44MM	2.37 (60.198 mm)
44FF	2.37 (60.198 mm)
44TT	2.06 (52.324 mm)
66MM	2.37 (60.198 mm)
66FF	2.37 (60.198 mm)
66TT	2.19 (55.626 mm)
88MM	2.75 (69.850 mm)
88FF	2.59 (65.786 mm)
88TT	2.19 (55.626 mm)

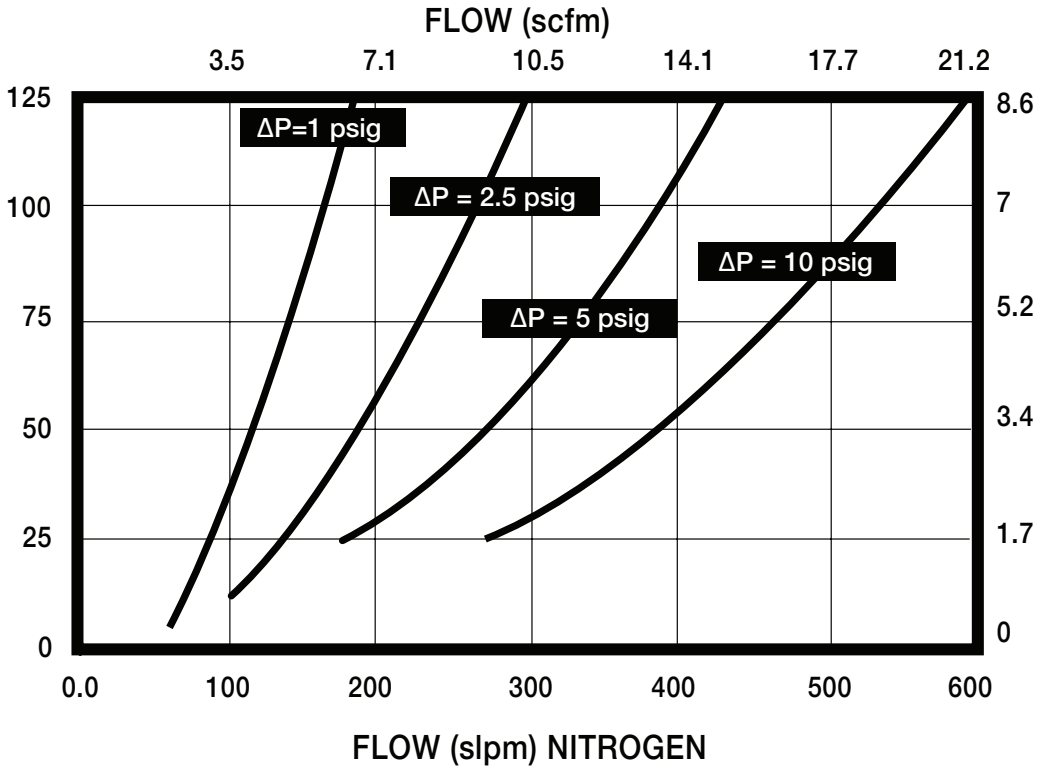
Note: Dimensions for the Compression Fitting Connections (__TT) do not include nuts and ferrules.

Safety Guide and Installation and Operating Instructions available at
www.parker.com/veriflo

NV55 Series

Flow Curve

Additional flow curves available upon request



Ordering Information

Build a NV55 Series valve 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
Green Italic = Express Service Program (ESP)

For an explanation of Ordering options please reference literature 25000275 at www.parker.com/veriflo

	1	2	3	4
Sample:	**NV55**	**LL**	**S**	**44MM**	**VESP**

Finished Order: **NV55LLS44MMVESP**

1 Type

AOPLPNC	= Air Operated, Low Pressure, Normally Closed
AOPLPNO	= Air Operated, Low Pressure, Normally Open
I	= Indicator Knob
L	= Lever
LL	= Locking Lever
M	= Mini Lever
S	= Spin Handwheel

2 Material

S = Stainless Steel

3 Connections

44MM	= 1/4" Male NPT In & Out
44FF	= 1/4" Female NPT In & Out
44TT	= 1/4" Compression In & Out
66MM	= 3/8" Male NPT In & Out
66FF	= 3/8" Female NPT In & Out
66TT	= 3/8" Compression In & Out
88MM	= 1/2" Male NPT In & Out
88FF	= 1/2" Female NPT In & Out
88TT	= 1/2" Compression In & Out

Compression ends include nuts and ferrules

4 Optional Features

This section can have multiple options

PM	= Panel Mount *Not available with Indicator Knob (I) or AOP units (AOPLPNC or AOPLPNO)*
PEEK	= PEEK™ Seat *Not available with VESP option*
VESP	= Vespel® Seat *Recommended for N_2O Service. Not available with PEEK option.*

NV55 Series

Specifications

Materials of Construction	
Wetted	
Body	316L Stainless Steel
Diaphragm	Elgiloy® or equivalent
Seat Options	PCTFE (std), PEEK™ or Vespel®
Non-wetted	
Nut	17-4 PH
Cap	17-4 PH
Actuation Devices	
AOP	Aluminum
Indicator Knob	Aluminum (Black)
Levers	Zinc Alloy, Powder Coated (Blue)
Handwheel	ABS (Black)
Operating Conditions	
Operating Pressure	
Manual, AOPLPNC	vacuum to 250 psig (17.2 barg)
AOPLPNO	vacuum to 125 psig (8.6 barg)
AOP Actuation Pressure	70 - 125 psig (4.8 - 8.6 barg)
Temperature	-15°F to 150°F (-26°C to 66°C)
Bake out	250°F (121°C) in the open position

For additional information on materials of construction, functional performance and operating conditions, please contact factory.

Functional Performance	
Design	
Burst Pressure	750 psig (52 barg)
Proof Pressure	375 psig (26 barg)
Flow Capacity	
AOP versions, Indicator Knob and Handwheel	C_V 0.55
Lever versions	C_V 0.48
Leak Rate	
Internal	Bubble Tight
External	Bubble Tight
Internal Volume	3.29 cc
Approx. Weight	0.81 lbs. (0.36 kg)

Vespel® is a registered trademark of DuPont Performance Elastomers L.L.C.
Elgiloy® is a registered trademark of Elgiloy Company
PEEK™ is a trademark of Victrex plc.

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LitPN: 25000053 Rev: F Date of Issue 04/2013

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