

# NV55 Series

## High Flow, Compact Valve

Metal Diaphragm Seal • 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.

### Product Features:

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

### Specifications:

Functional Performance	
<b>Design</b>	
Burst Pressure	750 psig (52 barg)
Proof Pressure	375 psig (26 barg)
<b>Flow Capacity</b>	
AOP versions, Indicator Knob and Handwheel	C <sub>v</sub> 0.55
Lever Version	C <sub>v</sub> 0.48
<b>Leak Rate</b>	
Internal	Bubble Tight
External	Bubble Tight
<b>Internal Volume</b>	3.29 cc
<b>Approximate Weight</b>	0.81 lbs. (0.36 kg)

Operating Conditions	
Operating Pressure	
Manual, AOPLPNC	Vacuum to 250 psig (17.2 barg)
AOPLPNO	Vacuum to 125 psig (8.6 barg)
AOP Activation Pressure	70-125 psig (4.8 -8.6 barg)
<b>Temperature</b>	-40°F to 150°F (-40°C to 66°C)
Bake Out	250°F (121°C) in the open position

Material of Construction	
Wetted	
Body Options	316L Stainless Steel
Diaphragm Options	Elgiloy® or equivalent
Seal 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)

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

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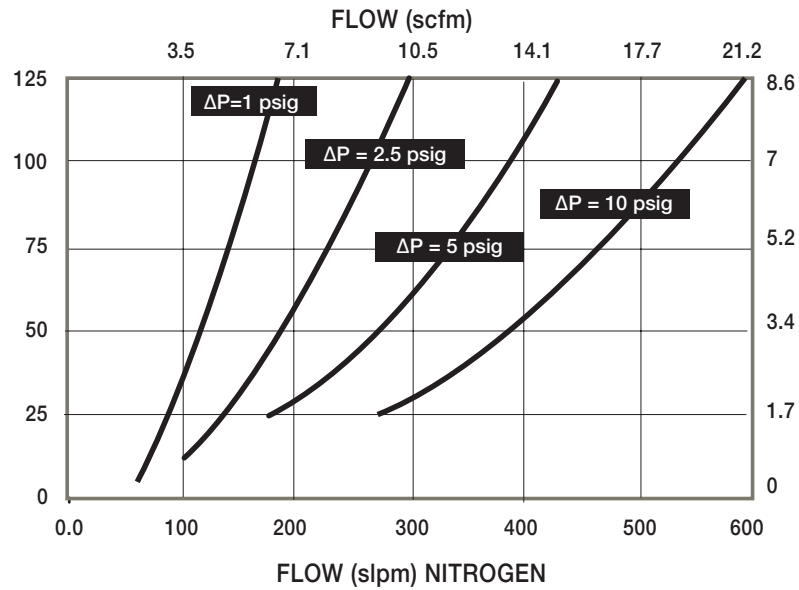


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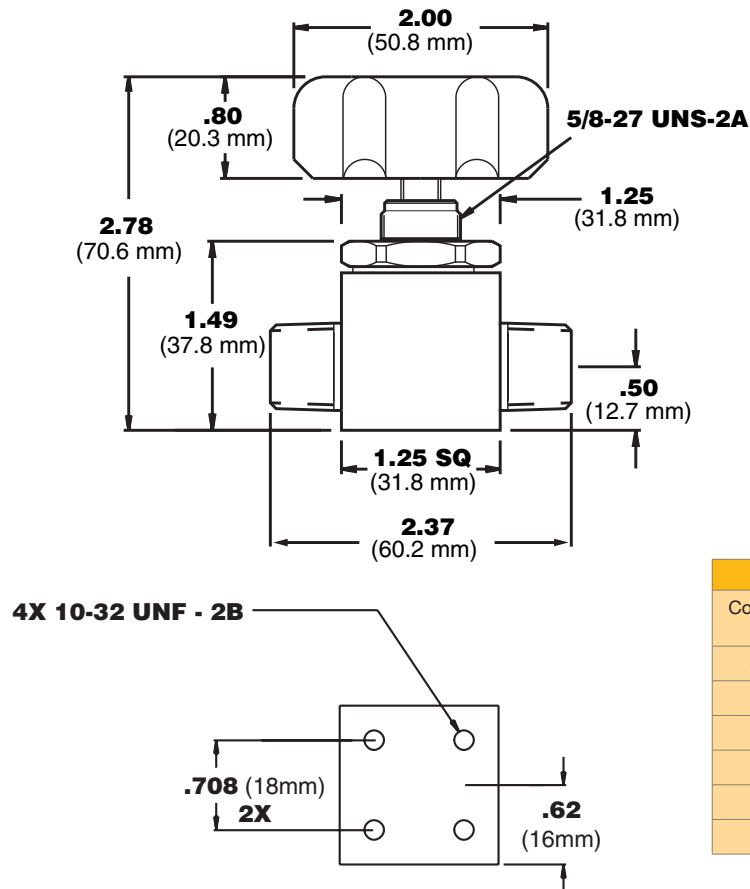
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## Flow Curve:



## Dimensional Drawing:



DIMENSION TABLE	
Connection Type	End to End Dimensions
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)

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## Ordering Information:

Building a Part Number: *Example: NV55LLS44MMVESP*

Example Part Number:	<b>NV55</b>	<b>LL</b>	<b>S</b>	<b>44MM</b>	<b>VESP</b>
Ordering Parameters/Options:	Series	Type	Body Material	Connection	Optional Features
Table Reference: (see below)	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

### A - Series

NV55	NV55 Series Valve
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### B - 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

### C - Body Material

S	316L Stainless Steel
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### D - Connection (Compression ends include nuts and ferrules)

44MM	1/4" Male NPT In and Out
44FF	1/4" Female NPT In and Out
44TT	1/4" Compression In and Out
66MM	3/8" Male NPT In and Out
66FF	3/8" Female NPT In and Out
66TT	3/8" Compression In and Out

### I - 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	Vespe!® Seat (Recommended for N <sub>2</sub> O Service. Not available with PEEK Option)

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**NV55 SERIES: High Flow, Compact Size Valve**



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