

NV70 Series

High Flow, Compact Size Diaphragm Valve
Stainless Steel



Value Proposition:

The NV70 is an economical, general purpose, high flow diaphragm valve ideally suited 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 NV70 uses a high fatigue strength diaphragm (Elgiloy®) that creates an external metal seal, and provides a reliable seal to atmosphere.



Contact Information:

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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 O₂ service
- Ideal for high flow applications
- Fully functional from vacuum to 150 psig for AOPLPNO / AOPLPNC valves and 250 psig for manual valves

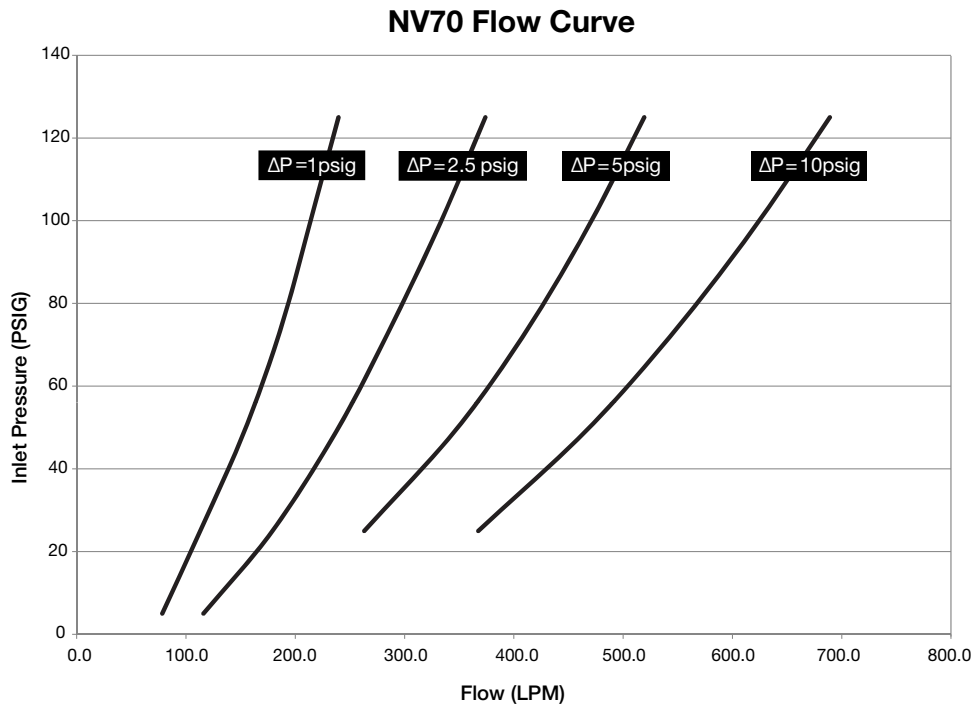


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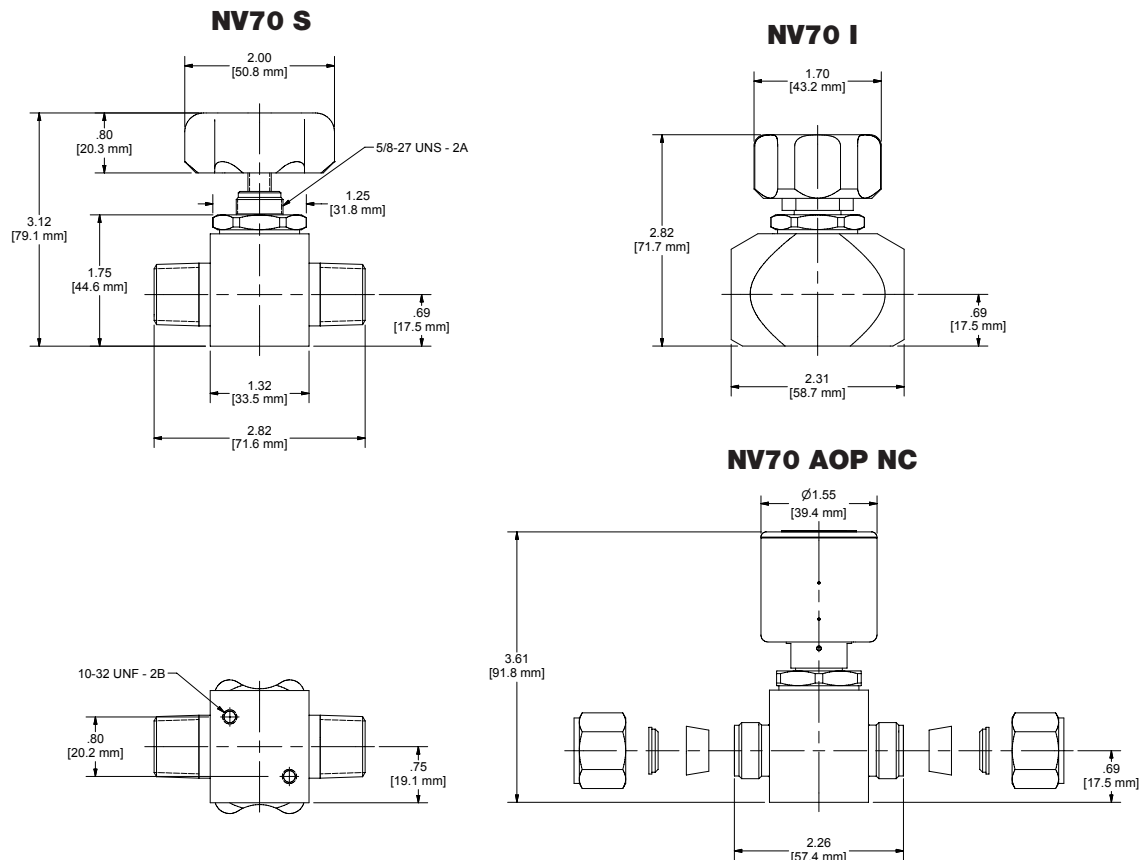
NV70 Series

Flow Curve

Additional flow curves available upon request



Dimensional Drawing



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

NV70 Series

Ordering Information

Build an NV70 Series valve by replacing the numbered symbols with an option from the corresponding tables below.

Color Explanations: Black = Standard Configurations
Blue = Non-Standard Configurations

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

Sample: **NV70** **I** **S** **88TT** **PI**
Finished Order: **NV70IS88TTPI**

1 Type
AOPLPNC = Air Operated, Low Pressure, Normally Closed
I = Indicator Knob
S = Spin Handwheel
AOPLPNO = Air Operated, Low Pressure, Normally Open

2 Material
S = Stainless Steel

3 Connections
88TT = 1/2" Compression In & Out
88FF = 1/2" Female NPT In & Out
88MM = 1/2" Male NPT In & Out
Compression ends include nuts and ferrules

4 Optional Features
PI = Polyimide Seat

Note: Panel Mount Option:
Order Panel Nut Ring p/n: 42400401 as a separate line item.

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Specifications

Materials of Construction	
Wetted	
Body Options	316L Stainless Steel
Diaphragm	Elgiloy® or equivalent
Seat Options	PCTFE (std) or Polyimide
Non-wetted	
Cap	17-4 PH Stainless Steel
Nut	17-4 PH Stainless Steel
Actuator Housing	Anodized Aluminum
Operating Conditions	
Maximum Pressure	
AOP	150 psig (10.3 barg)
Manual	250 psig (17.2 barg)
Minimum Pressure	Vacuum
AOP Actuation Pressure	70-125 psig
AOP Air Inlet	1/8" NPT - <i>AOPLP Only</i>
Temperature	-40°F to 150°F (-40°C to 66°C)

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 .7
Leak Rate	
Internal	Bubble Tight
External	Bubble Tight
Internal Volume	4.90 cc
Approx. Weight	1.20 lbs. (0.55 kg)

Elgiloy® is a registered trademark of Elgiloy Company

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

OFFER OF SALE:

The items described in this document are hereby offered for sale by Parker-Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the detailed "Offer of Sale" elsewhere in this document or available at www.parker.com/veriflo



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Proposition 65 Warning: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

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