

# NV70 Series

## High Pressure, 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.

### Product Features:

- Internally threadless and springless
- High Life Cycle
- Compact Size
- Positive, Consistent Shutoff
- Metal-to-Metal Seal to atmosphere
- Ideal for High Flow Applications
- Fully functional from vacuum to 150 psig for AOPLPNO / AOPLPNC valves and 250 psig for manual 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> 0.7
<b>Leak Rate</b>	
Internal	Bubble Tight
External	Bubble Tight
<b>Internal Volume</b>	4.90 cc
<b>Approximate Weight</b>	1.20 lbs. (0.55 kg)

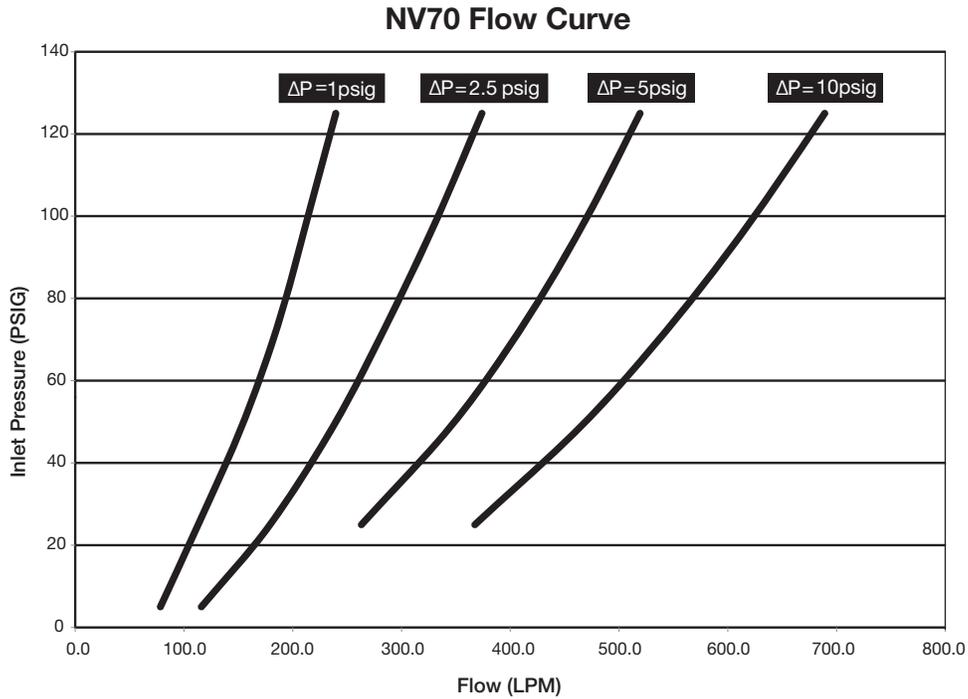
For additional information on materials of construction, functional performance and operating conditions, please contact factory.

Material of Construction	
Wetted	
Body	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	
<b>Maximum Pressure</b>	
AOP	150 psig (10.3 barg)
Manual	250 psig (17.2 barg)
<b>Minimum Pressure</b>	Vacuum
AOP Actuation Pressure	70-125 psig
AOP Air inlet	1/8" NPT (AOPLP Only)
<b>Temperature</b>	-40°F to 150°F (-40°C to 66°C)



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## Flow Curve:



## Ordering Information:

Building a Part Number: *Example: NV70IS88TTPI*

Example Part Number:	NV70	I	S	88TT	PI
Ordering Parameters/Options:	Series	Type	Material	Connections	Optional Features
Table Reference: (see below)	A	B	C	D	E

A - Series	
NV70	NV70 Series Valve

B - Type	
AOPLPNC	Air Operated, Lower Pressure, Normally Closed
I	Indicating Handwheel
S	Spin Handwheel
AOPLPNO	Air Operated, Lower Pressure, Normally Open

C - Material	
S	Stainless Steel

D - Connections	
88TT	1/2" Compression in and Out
88FF	1/2" Female NPT In and Out
88MM	1/2" Male NPT In and Out
Compression ends include nuts and ferrules	

E - Optional Features	
PI	Polyimide Seat
<b>Note:</b> Panel Mount Option: Order Panel Nut Ring (PN: 6-PANEL-NUT-SS) as separate line item.	

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## Dimensional Drawing:

