

NV17 Series

High Pressure, Compact Size Valve
Metal Diaphragm Sealed, High Cycle Life
Stainless Steel and Brass



Value Proposition:

The NV17 is an economical, high performance and high cycle life diaphragm valve. Typical uses include shut-off valve, isolation valve, in gas control panels, ChangeOver Systems and analyzer sampling systems.

This compact, 316L stainless steel valve ensures positive and consistent shut off with manual or air actuation. The NV17 offers an Elgiloy® diaphragm and a metal-to-metal seal to atmosphere for leak integrity.



Contact Information:

Parker Hannifin Corporation
Veriflo Division
250 Canal Blvd
Richmond, California 94804

phone 510 235 9590
fax 510 232 7396
veriflo.sales@parker.com

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

Product Features:

- Internally threadless and springless
- High cycle life
- Compact size
- Positive, consistent shut off
- Metal-to-metal seal to atmosphere
- Cleaned for oxygen service
- Low internal volume
- Low actuation pressure for AOP configuration
- Tamper resistant bonnet design

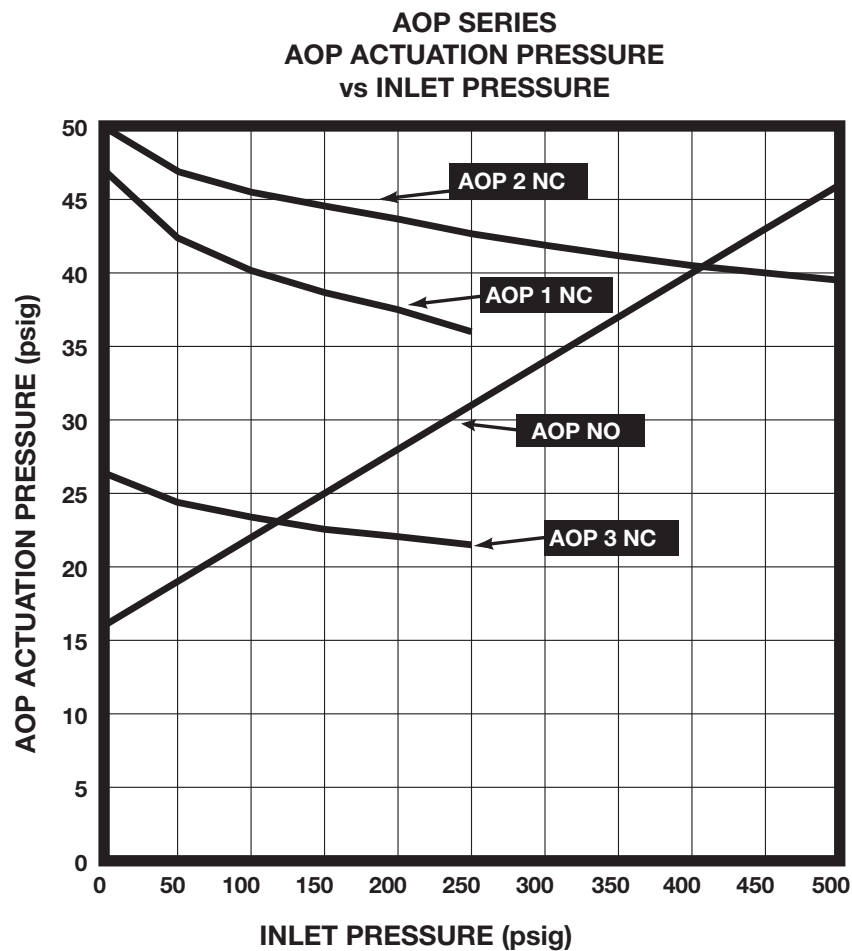
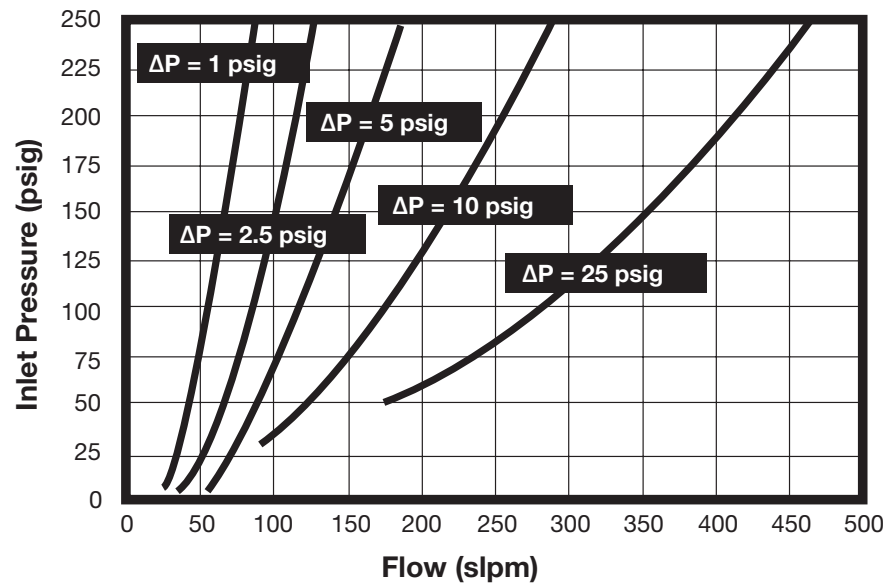


ENGINEERING YOUR SUCCESS.

NV17 Series

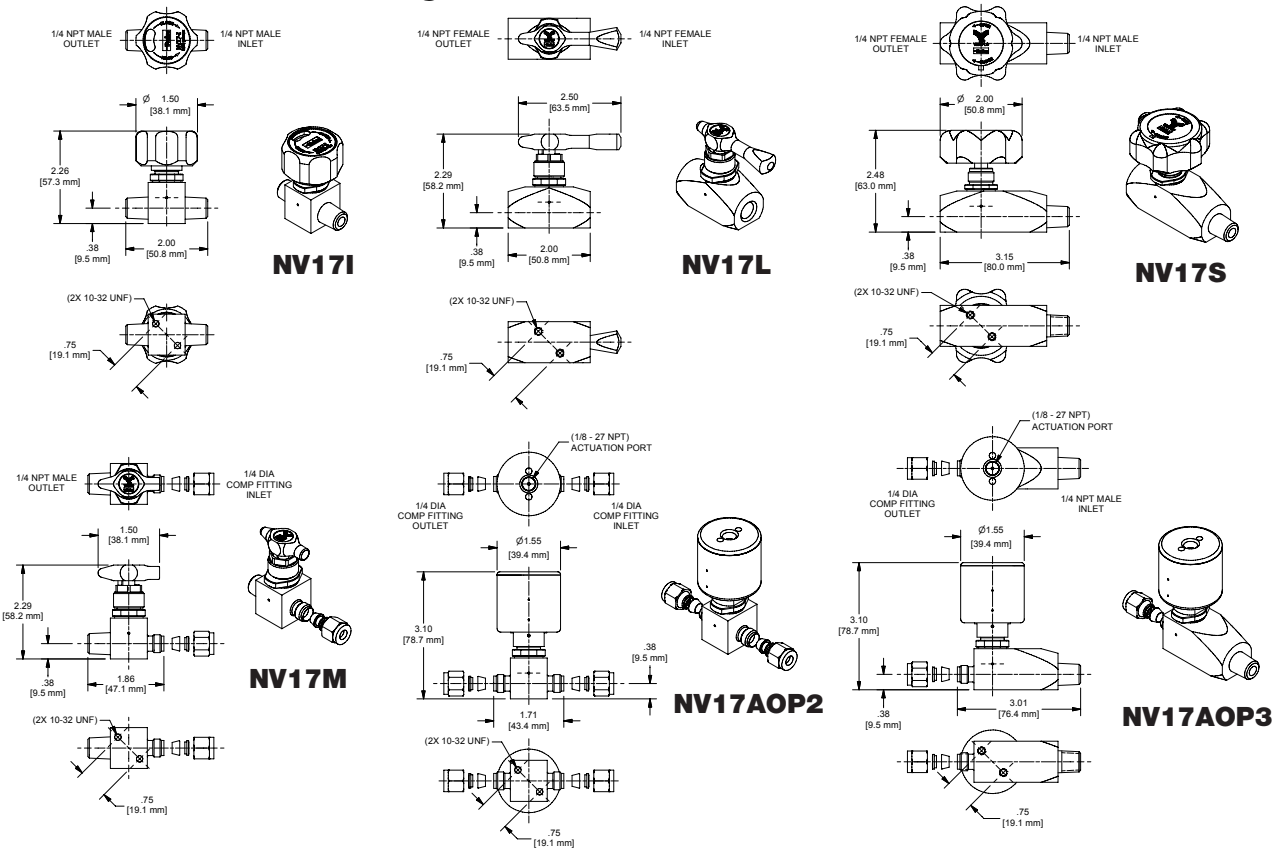
Flow Curves

Additional flow curves available upon request



NV17 Series

Dimensional Drawings



Ordering Information

Build a NV17 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

Sample: **NV17 AOP2 S 44MF VESP**
 Finished Order: **NV17AOP2S44MFVESP**

- 1 Type**
- AOPNO = Air Operated, Normally Open
 - AOP1 = Air Operated, Normally Closed
 - AOP2 = Air Operated, Normally Closed
 - AOP3 = Air Operated, Normally Closed
 - I = Indicating Handwheel
 - L = Lever
 - S = Spin handwheel
 - M = Mini Lever

- 2 Material**
- S = Stainless Steel
 - B = Brass
- 3 Connections**
- 44TM = 1/4" Compression in and 1/4" NPT male out
 - 44MT = 1/4" NPT in and 1/4" Compression out
 - 44TT = 1/4" Compression in and out
 - 44FF = 1/4" Female NPT in and out
 - 44MM = 1/4" Male NPT in and out
 - 44MF = 1/4" Male NPT in and Female NPT out

- 4 Optional Features**
- PEEK = PEEK™ Seat *Not available with VESP option*
 - VESP = Vespe!® Seat *Recommended for N₂O Service. Not available with PEEK option.*
 - NP = Nickel Plate *Brass Body Only*

Compression ends include nuts and ferrules.

NV17 Series

Specifications

Materials of Construction	
Wetted	
Body Options	316L Stainless Steel, Brass or Nickel Plated brass
Diaphragm	Elgiloy® or equivalent
Seat Options	PCTFE (std), PEEK™ or Vespel®
Non-wetted	
Stem	416 Stainless Steel
Button	Brass
Cap Nut	316L Stainless Steel
Knob	ABS
Actuator Housing	Aluminum
Operating Conditions	
Maximum Pressure	
Manual	vacuum to 3,500 psig (241 barg)
AOPNO, AOP2	vacuum to 500 psig (34.47 barg)
AOP1, AOP3	vacuum to 250 psig (17.24 barg)
Actuation Pressure	
AOPNO	50 psig min. (3.45 barg) at 500 psig inlet
AOP1	65 psig min. (4.48 barg)
AOP2	75 psig min. (5.17 barg)
AOP3	40 psig min. (2.75 barg)
Temperature	-40°F to 150°F (-40°C to 66°C)

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

Functional Performance	
Design	
Burst Pressure	14,000 psig (965.5 barg)
Proof Pressure	5,250 psig (362 barg)
Flow Capacity	
Standard	C _v 0.17
Lever	C _v 0.15
Leak Rate	
Internal	Bubble Tight
External	Bubble Tight
Internal Volume	
	1.0 cc
Approx. Weight	
	0.56 lbs. (0.26 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.

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



WARNING USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. THIS DOCUMENT IS FOR REFERENCE ONLY. PLEASE CONSULT FACTORY FOR LATEST PRODUCT DRAWINGS AND SPECIFICATIONS

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing are subject to change by Parker Hannifin Corp and its subsidiaries at any time without notice.

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

© 2007 Parker Hannifin Corporation



Use mobile device to scan this QR Code.

LitPN: 25000222

Rev: H

Date of Issue 08/2013



ENGINEERING YOUR SUCCESS.