



the pressure equipment safety authority

# STATUTORY DECLARATION Registration of Fittings

I, JOSEPH J. LIS,DIVISION ENGINEERING MANAGER

(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of Parker Hannifin Corporation - Veriflo Division

(name of manufacturer)

located at 250 Canal Blvd, Richmond, CA, 94804, USA

(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

- ☐ comply with the requirements of \_\_\_\_\_ which specifies the dimensions,  
(title of recognized North American Standard)  
materials of construction, pressure/temperature ratings and identification marking of the fittings, or
- ☒ are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with Veriflo Engr Standards as supported by the attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, ISO 9000 - DNV as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category C

In support of this application, the following information, calculations and/or test data are attached:

CRN Renewal for NOVA Valve - Included: Original Report; Catalog Sheets; proof pressure Calcs; Proof pressure test results  
derive from previous approved CRN;

DECLARED before me at RICHMOND in the STATE of CALIFORNIAthis 13 day of DECEMBER, 2010

(Month)

(Year)

(print)

**PLEASE SEE ATTACHED  
CALIFORNIA JURAT**

(sign)

(A Commissioner for Oaths)

(Signature of Applicant)

## For Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category C

Registration Number: 0C07512.52Date Registered: MAR 10 2012

MILAGRYNCHUK

(For the Administrator/Chief Inspector of Alberta)

Expiry Date: 2022-01-23

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Boiler Discipline.

CRN RENEWAL

## CALIFORNIA JURAT WITH AFFIANT STATEMENT

- ☒ See Attached Document (Notary to cross out lines 1-6 below)  
☐ See Statement Below (Lines 1-5 to be completed only by document signer[s], *not* Notary)

1 \_\_\_\_\_  
2 \_\_\_\_\_  
3 \_\_\_\_\_  
4 \_\_\_\_\_  
5 \_\_\_\_\_  
6 [Signature] \_\_\_\_\_  
Signature of Document Signer No. 1 \_\_\_\_\_  
Signature of Document Signer No. 2 (if any) \_\_\_\_\_

State of California

County of Contra Costa

Subscribed and sworn to (or affirmed) before me on this

13 day of December, 2010, by  
Date Month Year

(1) Joseph J. Lis  
Name of Signer

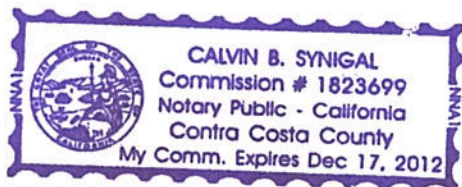
proved to me on the basis of satisfactory evidence  
to be the person who appeared before me (.) ☒

(and

(2) \_\_\_\_\_  
Name of Signer

proved to me on the basis of satisfactory evidence  
to be the person who appeared before me.)

Signature [Signature]  
Signature of Notary Public



Place Notary Seal Above

### OPTIONAL

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

#### Further Description of Any Attached Document

Title or Type of Document: Statutory Declaration Registration of Affidavits

Document Date: \_\_\_\_\_ Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

RIGHT THUMBPRINT  
OF SIGNER #1

Top of thumb here

RIGHT THUMBPRINT  
OF SIGNER #2

Top of thumb here

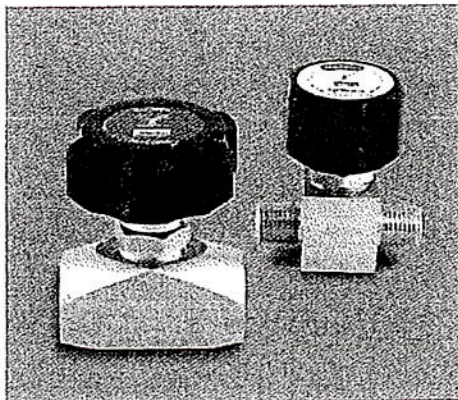
0007512-52



## Diaphragm Valve



Veriflo's NOVA valve is an economical, general purpose diaphragm valve. Available in 316L Stainless Steel or Brass. Standard construction includes an Elgiloy® diaphragm and an outboard metal-to-metal seal.



## applications

- ▶ Pressure regulator outlet valve
- ▶ Laboratory shut-off valve
- ▶ Gas control panels
- ▶ Sampling systems and gas analyzers
- ▶ Research facilities
- ▶ Sample container shut-off valve

## features

- ▶ High cycle life.
- ▶ Positive, consistent shutoff.
- ▶ The closed position does not vary with the life of the product.
- ▶ Low internal volume.
- ▶ Metal-to-metal seal to atmosphere.
- ▶ Available in a variety of connection options.



## materials of construction

**Wetted**

Body .....	316L Stainless Steel or Brass
Seat .....	PCTFE (formerly Kel-F 81®) optional Vespel®
Diaphragm .....	Elgiloy® or equivalent
Seal .....	Metal-to-metal

### Non-Wetted

Cap Nut .....	316L Stainless Steel
Handwheel (black) .....	ABS Plastic
Indicator Knob (black) .....	Aluminum
	Powder Coated

## operating conditions

Operating Pressure	Vacuum to 3500 psig (241 barg)
Proof Pressure	5250 psig (362 barg)
Burst Pressure	10,500 psig (724 barg)
Temperature	-40°F to 150°F (-40°C to 66°C)

## functional performance

Flow capacity.....  $C_v = 0.17$   
(ANSI/ISA S 75.02 1988 using water)

Design Leak Rate:

Outboard.....	$1 \times 10^{-6}$ scc/sec He
Inboard.....	$1 \times 10^{-8}$ scc/sec He
Inline.....	$1 \times 10^{-8}$ scc/sec He

**internal volume**

Less than 1.0 cc

## ~~standard configurations~~

1/4 inch NPT male and female, compression

fitting

**approximate weight**

9 Oz. (.26 kg)

10

REGISTRATION NO.

0C07512.52

DWG. NO. OF CAT. NO.

### TYPE OF FITTINGS

MAR 10 2012

Date \_\_\_\_\_

MILLA GRYNCHUK, P.Eng.  
DESIGN SURVEY ENGINEER

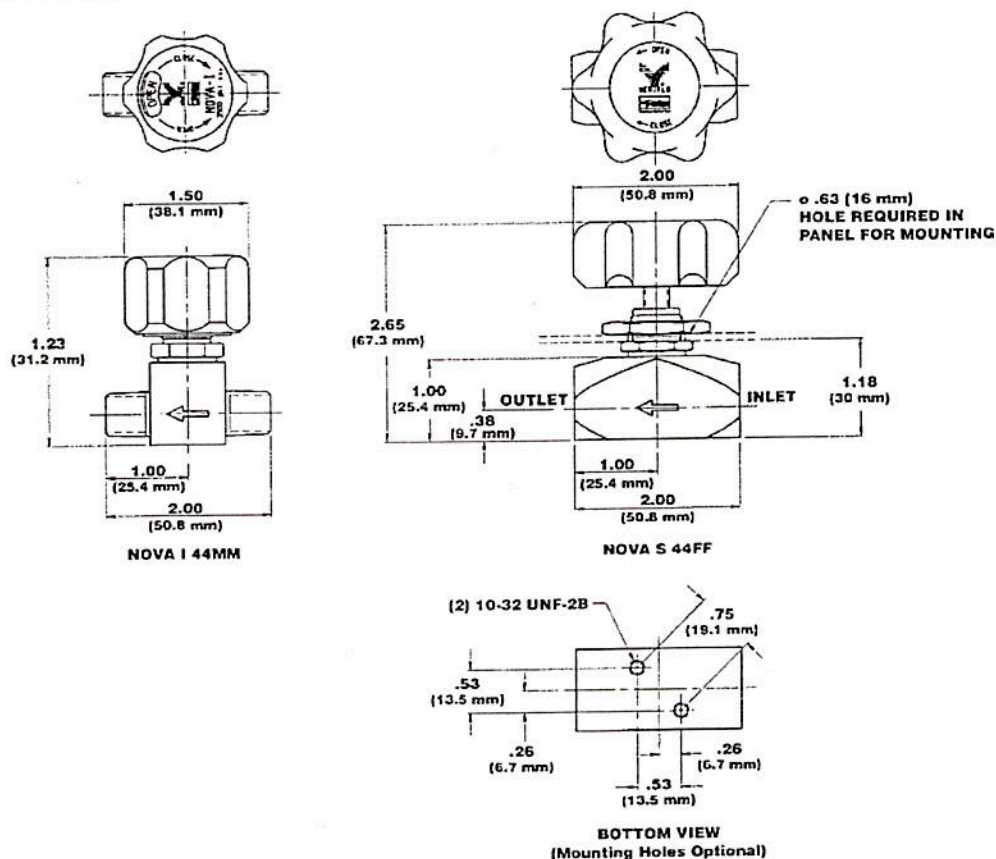
LITPAN 25000047

Revision 4 • 10/99

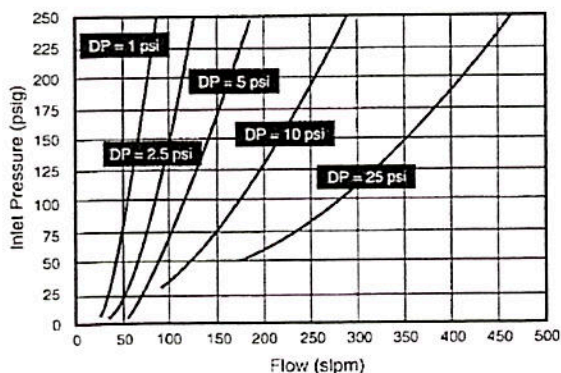
Срп Релиџ

# Nova

## Dimensional Drawings



## Flow Curve



## Ordering Information

**BASIC SERIES**

- NOVA = Multi-turn Handwheel
- NOVAI = Indicating Knob

**MATERIALS**

- S = 316L Stainless Steel
- G = Brass

\*Contact factory for location of gauge port(s).  
 \*\*Not Available on Nova I Units.  
 Kel-F 815 is a registered trademark of 3M Company.  
 Vespel is a registered trademark of DuPont Company.  
 Elgoy is a registered trademark of Elgoy Company.

**OPTIONAL FEATURES**

- G = Gauge Port(s)
- PM = Panel Mount\*\*
- NP = Nickel Plating
- VESP = Vespel® Seat
- MH = Mounting Holes

### CONNECTIONS

44TM = 1/4" Compression In and 1/4" NPT Male Out  
 44TT = 1/4" Compression In and Out  
 44FF = 1/4" Female NPT In and Female NPT Out  
 44MM = 1/4" Male NPT In and Male NPT Out  
 44MF = 1/4" Male NPT In and Female NPT Out

## Parker Hannifin Corporation

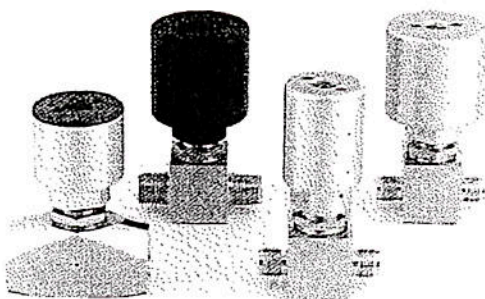
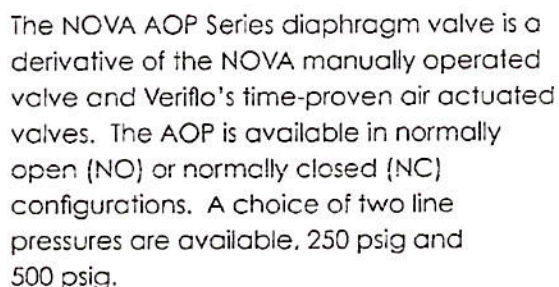
Veriflo Division  
 250 Canal Boulevard, P.O. Box 4034  
 Richmond, CA 94804-0034  
 Phone (510) 235-9590 • Fax (510) 232-7396

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 Powerful Solutions.

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 Instrumentation



## Air Actuated Diaphragm Valve

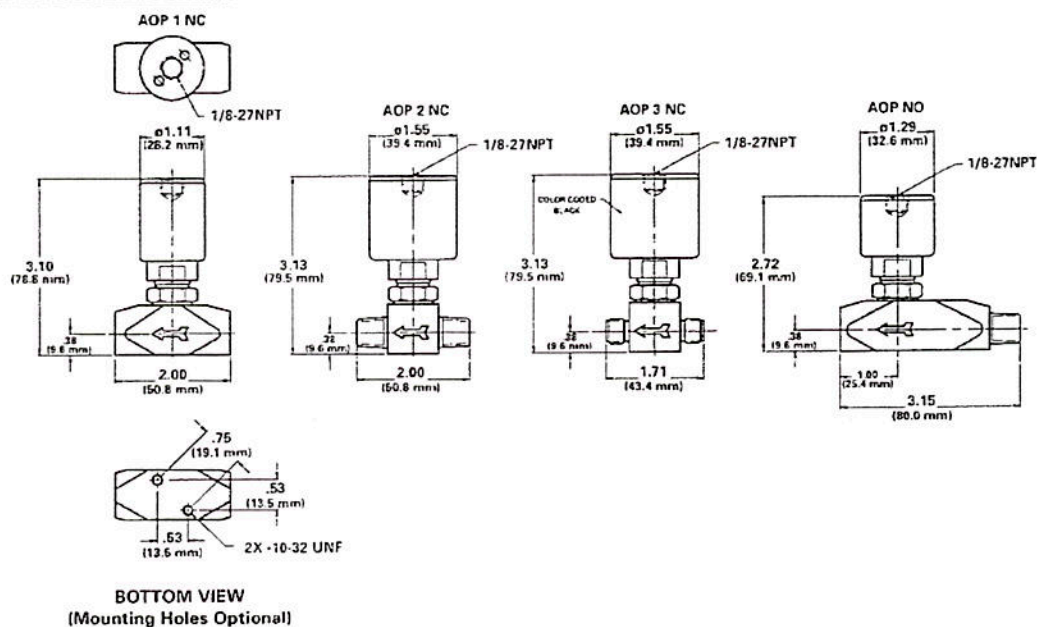


- ▶ Compact Size.
- ▶ High Cycle Life.
- ▶ Cleaned for O<sub>2</sub> Service.
- ▶ No Packing, Lubricant or O-Rings in wetted area.
- ▶ Choice of Normally Closed (NC) or Normally Opened (NO) Actuator for Design Flexibility.
- ▶ Low Actuation Pressure.
- ▶ Diaphragm is the only moving part in wetted area.

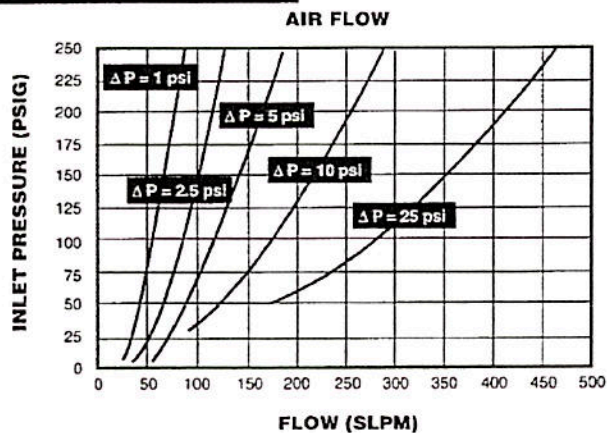
1/4 " NPT male or female, compression fittings

# Nova-AOP Series

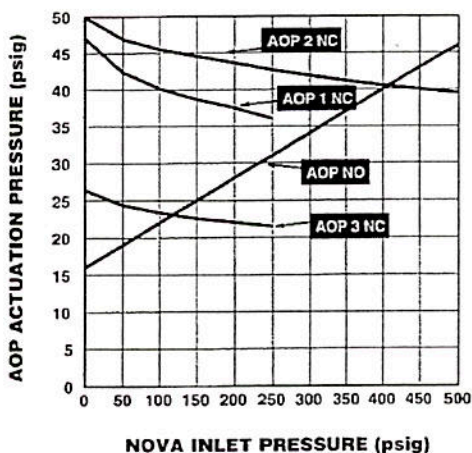
## Cross Sectional Drawing



## Flow Curve



## NOVA AOP SERIES AOP ACTUATION PRESSURE vs NOVA INLET PRESSURE



## Ordering Information

<b>NOVA AOP 1 S 44TT VESP</b>	
<b>BASIC SERIES</b>	<b>OPTIONS</b>
NOVA AOP = Air Operated	VESP = Vespel®
<b>STYLE</b>	NP = Nickel Plating
1 = Normally Closed - 250 psig*	MH = Mounting Holes
2 = Normally Closed - 500 psig**	G = Gauge Port
3 = Normally Closed - 250 psig***	
NO = Normally Open - 500 psig****	
<b>MATERIAL</b>	<b>CONNECTION (Inlet &amp; Outlet)</b>
B = Brass	44FF = 1/4" NPT Female In x 1/4" NPT Female Out
S = Stainless Steel	44MM = 1/4" NPT Male In x 1/4" NPT Male Out
M = Monel	44MF = 1/4" NPT Male In x 1/4" NPT Female Out
	44TT = 1/4" Compression In x 1/4" Compression Out

- \* Minimum Actuation Pressure 65psig
- \*\* Minimum Actuation Pressure 75 psig
- \*\*\* Minimum Actuation Pressure 40 psig
- \*\*\*\* Minimum Actuation Pressure 50 psig at 500 psig inlet

Kel-F 81® is a registered trademark of 3M Company.  
Engly® is a registered trademark of Engly Company.  
Vespel® is a registered trademark of DuPont Company.

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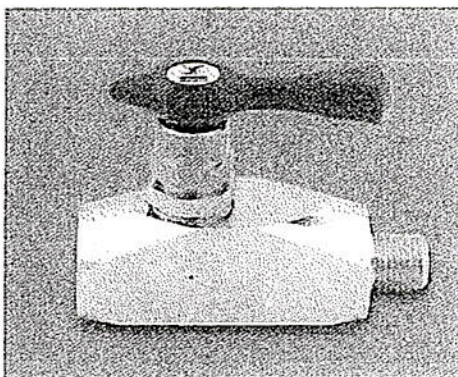
**Parker**  
Instrumentation



## Diaphragm Valve



Veriflo's NOVAL valve is an economical, general purpose diaphragm valve. Available in 316L Stainless Steel or Brass. Standard construction includes an Elgiloy® diaphragm and an outboard metal-to-metal seal. Actuation is by a 1/4 turn lever.



## applications

- ▶ Outlet valve for a pressure regulator
- ▶ Laboratory shut-off valve
- ▶ Gas control panels
- ▶ Sampling systems and gas analyzers
- ▶ Research facilities
- ▶ Sample container shut-off valve

## features

- ▶ High cycle life.
- ▶ Positive, constant shutoff.
- ▶ The closed position does not vary with the life of the product.
- ▶ Low internal volume.
- ▶ Metal-to-metal seal to atmosphere.
- ▶ Available in a variety of connection options.



## materials of construction

## Wetted

Body .....	316L Stainless Steel or Brass
Seal .....	PCTFE (formerly Kel-F 81®) optional Vespel®
Diaphragm .....	Elgiloy® or equivalent
Seal .....	Metal-to-metal

### Non-Wetted

Cap Nut ..... 316L Stainless Steel  
Lever (blue) ..... Aluminum  
Powder Coated

### operating conditions

Operating Pressure	Vacuum to 3500 psig (241 barg)
Proof Pressure	5250 psig (362 barg)
Burst Pressure	10,500 psig (724 barg)
Temperature	-40°F to 150°F (-40°C to 66°C)

## functional performance

Flow capacity.....  $C_v = 0.17$   
(ANSI/ISA S 75.02 1988 using water)

Design Leak Rate:

Outboard .....	$1 \times 10^{-8}$ scc/sec He
Inboard .....	$1 \times 10^{-8}$ scc/sec He
Inline .....	$1 \times 10^{-6}$ scc/sec He

**internal volume**

Less than 1.0 cc

## standard configurations

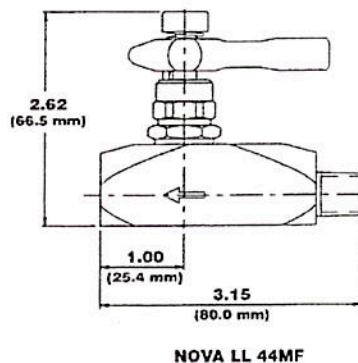
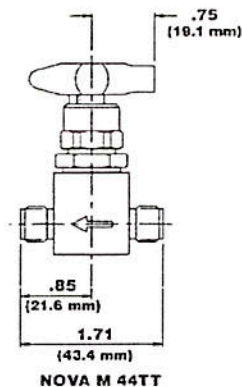
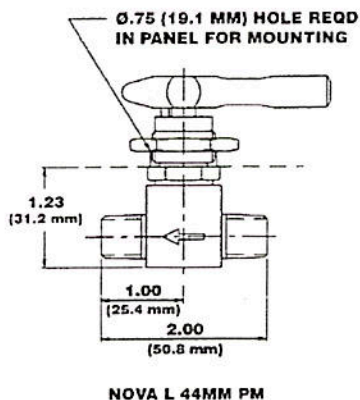
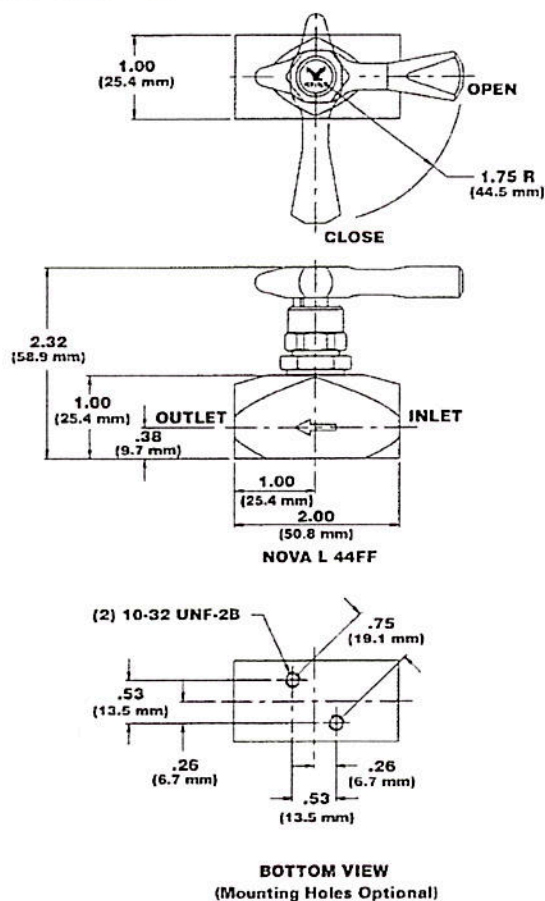
1/4 inch NPT male and female, compression fitting

**approximate weight**

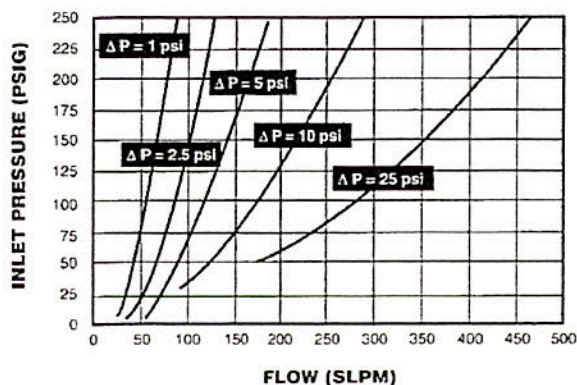
9 Oz. (.26 kg)

# Noval

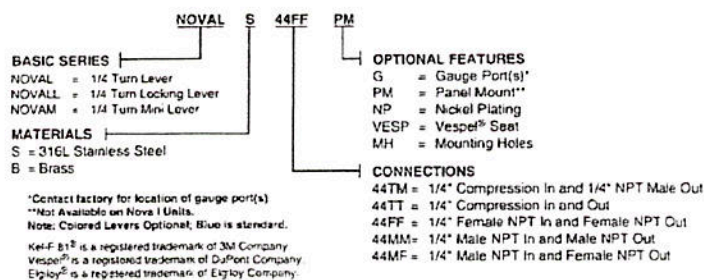
## Dimensional Drawings



## Flow Curve



## Ordering Information



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