# 2700 Series

Bar Stock, Screwed Bonnet Needle Valves for Sour Gas Service

Featuring packing below the stem threads, nonrotating metal stem tip, hardened thread gland and a 316 stainless steel body, these valves are well suited for sour gas applications as well as other severe service applications.



## Typical Applications

- Refineries
- Chemical processing
- Oil and gas exploration

## Technical Data

| | |
|---|---|
| **BODY** | 316 stainless steel |
| **MAXIMUM OPERATING PRESSURE** | 6000 psig @ 70° F (414 Bar @ 21° C) |
| **OPERATING TEMPERATURE RANGE** | -65° to +450° F (-54° to +232° C) |
| **ORIFICE** | 0.187″ (4.8 mm) |
| **Cv FACTOR** | 0.60 |
| **END CONNECTIONS** | ½″ female x ½″ female NPT |

## Features & Benefits

***Safety***

- Lock pin secures packing nut against accidental removal

***Sour gas service***

- Materials offer corrosion-resistant properties where hydrogen sulfide is present.

***Corrosion resistance***

- All wetted parts constructed of high chrome, high nickel austenitic stainless steel provide uniform chemical corrosion properties

***Helps eliminate fugitive emissions***

- Dyna-Pak® packing below the stem threads prevents fluid from contacting stem threads

***Extended cycle life***

- Nonrotating 17-4PH stainless steel stem tip and XM-19 stainless steel stem prevent galling

***Reliability***

- All valves are tested for bubble-tight leakage at both seat and packing
- Special High Tolerance NPT Thread

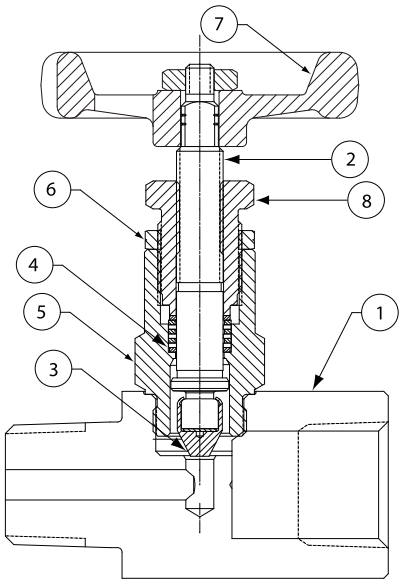
needle valves

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# 2700 Series

## Materials of Construction

| | DESCRIPTION | MATERIALS |
|---|---|---|
| 1 | Body | 316 stainless steel |
| 2 | Stem | XM-19 stainless steel |
| 3 | Stem tip | 17-4PH stainless steel |
| 4 | Stem packing | TFE/316 stainless steel wafers |
| 5 | Bonnet | XM-19 stainless steel |
| 6 | Lock nut | 316 stainless steel |
| 7 | Handle | Aluminum |
| 8 | Packing nut | XM-28 stainless steel |

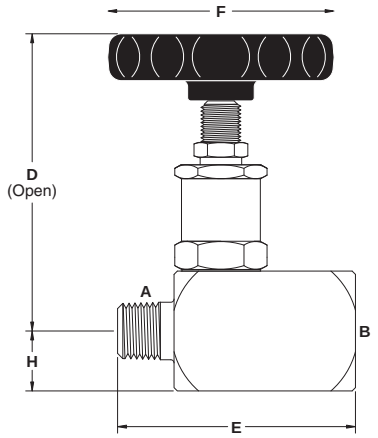



## Dimensions

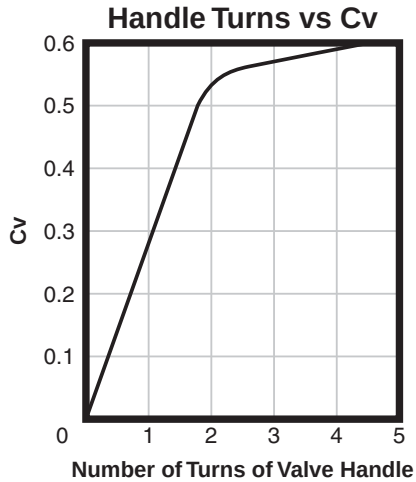
### 2700 Series: Globe Pattern

| INLET A | OUTLET B | | D | E | F | H |
|---|---|---|---|---|---|---|
| ½″ male NPT | ½″ female NPT | inch | 3 1/16 | 2 9/16 | 2 1/8 | 5/8 |
| | | mm | 78 | 65 | 54 | 16 |
| ½″ female NPT | ½″ female NPT | inch | 3 1/16 | 2 1/2 | 2 1/8 | 5/8 |
| | | mm | 78 | 64 | 54 | 16 |

*Dimensions for reference only, subject to change.*

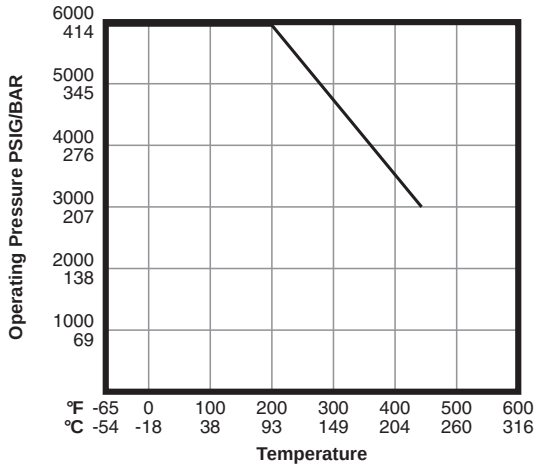



## Flow Curve



# 2700 Series

## Pressure vs. Temperature Curve




## How to Order: Standard Valves

**2700 Series: Globe Pattern**
17-4PH stainless steel stem tip
0.187″ (4.7mm) orifice/0.60 Cv

| END CONNECTIONS | | ORDER BY PART NUMBER* |
|---|---|---|
| INLET | OUTLET | 316 STAINLESS STEEL |
| ½″ male NPT | ½″ female NPT | 2732L8YX |
| ½″ female NPT | ½″ female NPT | 2732F8YX |

** It is the end-user's responsibility to determine if this product is compatible with their sour gas application. Contact HOKE for information concerning properties.*



*2732L8Y: Globe pattern*

## Ordering Options

**Spare Parts**
Spare parts and repair kits are available for all needle valves. Please contact your distributor for specific information.

**Cleaning and Testing**
When ordering, please specify if oxygen cleaning or helium leak testing is required.

**Additional Sizes**
Additional sizes and options are available on special request. Please consult your local HOKE distributor.