

# 2800 Series

# Forged Body, Union Bonnet Needle Valves

For the most severe service applications, these valves feature a stem backseat for safety, a long cycle life with high temperature capability to 700° F (370° C), and a union bonnet for safe, convenient maintenance.



# **Typical Applications**

- High temperature service to 700° F (370° C)
- Corrosive handling
- Reactive and hot condensates

# **Technical Data**

BODY	316 stainless steel	
MAXIMUM	Grafoil® packing:	
OPERATING PRESSURE	• 4000 psig @ 70° F (276 Bar @ 21° C)	
	• 2500 psig @ 700° F (172 Bar @ 370° C)	
	Dyna-Pak® packing:	
	• 5000 psig @ 70° F (345 Bar @ 21° C)	
OPERATING	Grafoil® packing	
TEMPERATURE RANGE	-100° to +700° F (-75° to +370° C)	
	Dyna-Pak® packing	
	-40° to +450° F (-40° to +232° C)	
ORIFICE	0.312" (7.9 mm)	
Cv FACTOR	1 10	

# **Features & Benefits**

## Safety

- Integral stem backseat
- Union bonnet design

# High temperature service

 Grafoil® packing ring located below stem threads extends service to 700° F (370° C)

### Extended cycle life

- 17-4PH stainless steel hardened stem with dry film lubricant on threads and hardened thread gland for increased thread life
- Nonrotating hardened stem tip prevents galling

# Reliability

 All valves are tested for bubble-tight leakage at both seat and packing

# **Installation variety**

 Choice of HOKE Gyrolok® tube fittings, female NPT, or tube socket weld connections

### Panel mountina

· Panel mounting is standard on all models

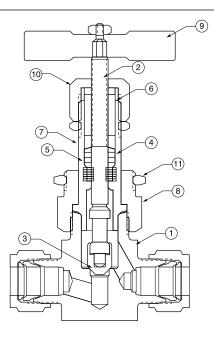
# needle valves

# **HOKE Incorporated**

# 2800 Series

# **Materials of Construction**

	DESCRIPTION	MATERIAL
1	Body	316 stainless steel
2	Stem	17-4PH stainless steel
3	Stem tip	17-4PH stainless steel
4	Stem packing Grafoil® packing Dyna-Pak® packing	Grafoil® TFE/316 stainless steel wafer
5	Ring gland	316 stainless steel
6	Thread gland	416 stainless steel
7	Housing	XM-19 stainless steel
8	Adapter nut	316 stainless steel
9	Handle	316 stainless steel
10	Packing nut	316 stainless steel
11	Panel mounting nut	316 stainless steel



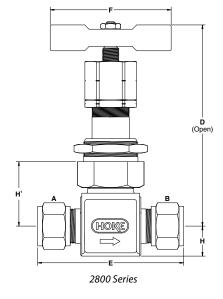
# **Dimensions**

INLET A AND OUTLET B		D	E	F	Н	H¹
1⁄4" Gyrolok®	inch	4¾	215/16	25/8	5/8	113/32
	mm	121	75	67	16	36
³⁄8″ Gyrolok®	inch	4¾	215/16	25/8	5/8	113/32
	mm	121	75	67	16	36
3/8″ socket weld	inch	4¾	27/16	25/8	5/8	113/32
	mm	121	62	67	16	36
½″ Gyrolok®	inch	4¾	35/16	25/8	5/8	113/32
	mm	121	84	67	16	36
½″ female NPT	inch	4¾	27/16	25/8	5/8	113/32
	mm	121	62	67	16	36
½″ socket weld	inch	4¾	27/16	25/8	5/8	113/32
	mm	121	62	67	16	36

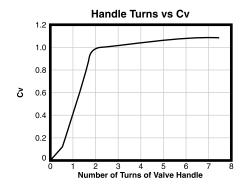
Dimensions for reference only, subject to change.

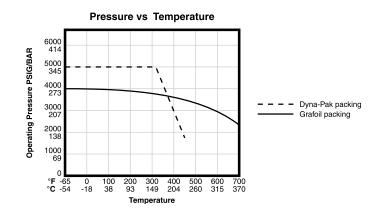
# **Panel mounting**

Panel hole = 13/16" (30.2 mm) diameter Panel thickness =  $\frac{3}{16}$ " (4.7 mm) maximum



# **Curves**





# How to Order: Standard Valves



2813F8Y: Globe pattern

# 2800 Series Globe Pattern

Metal stem tip; Dyna-Pak® packing for service to +450° F (232° C) at 1800 psi 0.312" orifice/1.10 Cv

END CONNECTIONS	ORDER BY PART NUMBER
INLET AND OUTLET	316 STAINLESS STEEL
1/2" female NPT	2813F8Y
1/2" Gyrolok®	2813G8Y



2811G8Y: Globe pattern

### 2800 Series Globe Pattern

Metal stem tip; Grafoil® packing for service to +700° F (371° C) at 2500 psi 0.312" orifice/1.10 Cv

END CONNECTIONS	ORDER BY PART NUMBER
INLET AND OUTLET	316 STAINLESS STEEL
1⁄4" Gyrolok®	2811G4Y
3/8" Gyrolok®	2811G6Y
3/8" socket weld	2811N6Y
½″ Gyrolok®	2811G8Y
½" female NPT	2811F8Y
½" socket weld	2811N8Y

# **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.