

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 OPERATING PRESSURE	Grafoil® packing: • 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 TEMPERATURE RANGE	Grafoil® packing -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
- · Special High Tolerance NPT Thread

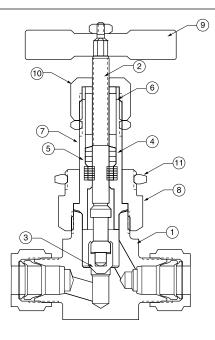
needle valves

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		



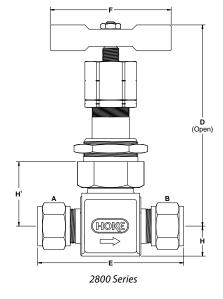
Dimensions

INLET A AND OUTLET B		D	E	F	Н	H¹
¼″ Gyrolok®	inch	4¾	215/16	2%	%	113/32
	mm	121	75	67	16	36
¾″ Gyrolok®	inch	4¾	215/16	2%	%	113/32
	mm	121	75	67	16	36
%" socket weld	inch	4¾	2%6	2%	%	113/32
	mm	121	62	67	16	36
1/" C	inch	4¾	35/16	2%	%	113/32
½″ Gyrolok®	mm	121	84	67	16	36
½″ female NPT	inch	4¾	21/16	2%	%	113/32
	mm	121	62	67	16	36
½″ socket weld	inch	4¾	2%6	2%	%	113/32
	mm	121	62	67	16	36

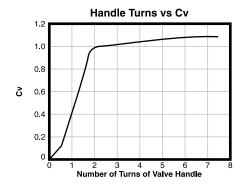
Dimensions for reference only, subject to change.

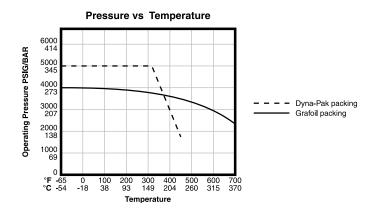
Panel mounting

Panel hole = 1% (30.2 mm) diameter Panel thickness = 36" (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
½" 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 INLET AND OUTLET	ORDER BY PART NUMBER 316 STAINLESS STEEL
1/4" Gyrolok®	2811G4Y
¾″ Gyrolok®	2811G6Y
¾″ socket weld	2811N6Y
1/2" Gyrolok®	2811G8Y
½" female NPT	2811F8Y
½" socket weld	2811N8Y

FOR YOUR SAFETY

IT IS SOLELY THE RESPONSIBILITY OF THE SYSTEM DESIGNER AND USER TO SELECT PRODUCTS SUITABLE FOR THEIR SPECIFIC APPLICATION REQUIREMENTS AND TO ENSURE PROPER INSTALLATION, OPERATION AND MAINTENANCE OF THESE PRODUCTS. MATERIAL COMPATIBILITY, PRODUCT RATINGS AND APPLICATION DETAILS SHOULD BE CONSIDERED IN THE SELECTION. IMPROPER SELECTION OR USE OF PRODUCTS DESCRIBED HEREIN CAN CAUSE PERSONAL INJURY OR PROPERTY DAMAGE.

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.