

2200 Series

Bar Stock, Screwed Bonnet Needle Valves

Dyna-Pak® packing below the stem threads, a hardened thread gland and a Hastelloy® C-276 stem tip keep valves leak-tight while providing long cycle life. A choice of two flow capabilities enables use in a variety of severe service applications.



Typical Applications

- Corrosive handling
- Sampling systems
- Metering service

Technical Data

BODY*	316 stainless steel
MAXIMUM OPERATING PRESSURE	5000 psig @ 70° F (345 Bar @ 21° C)
OPERATING TEMPERATURE RANGE	-65° to +450° F (-54° to +232° C)
ORIFICE SIZES	0.086" to 0.313" (2.2 mm to 8.0 mm)
Cv FACTORS	0.12 to 1.40

^{*} Consult factory for other materials

Features & Benefits

Safety

 Lock pin prevents accidental bonnet disengagement

Durability

Hastelloy® C-276 stem tip provides long service life

Extended temperature range

Dyna-Pak® packing

Reliability

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

Extended cycle life

 Dyna-Pak® packing below stem threads prevents washing away of thread lubricant and contamination of process fluid

Installation variety

 Choose from a broad selection of male NPT, female NPT and HOKE Gyrolok® tube fitting connections in globe or angle patterns

Panel mounting

· Panel mounting is standard on all models

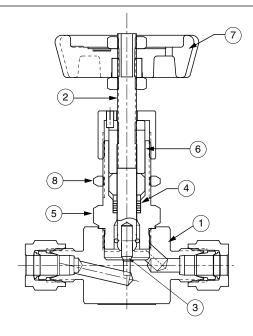
HOKE Incorporated

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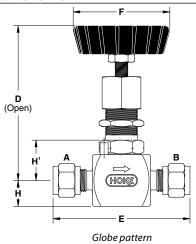
2200 Series

Materials of Construction

	DESCRIPTION	MATERIAL
1	Body	316 stainless steel
2	Stem	316 stainless steel
3	Stem tip	Hastelloy® C-276
4	Stem packing	TFE/316 stainless steel wafers
5	Bonnet	316 stainless steel
6	Thread gland	416 stainless steel
	Handle	
7	2210, 2220 Series	Aluminum cross, red
	2230 Series	ABS
8	Panel mounting nut	Nickel-plated brass



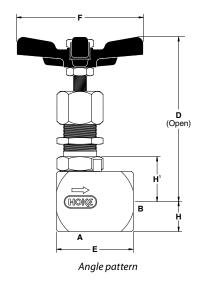
Dimensions



2200 Series: Globe Pattern

INLET A	OUTLET B		D	E	F	Н	H¹
1/4" Gyrolok®	1/4" Gyrolok®	inch	35/16	221/32	23/8	1/2	25/32
74 Gyrolok		mm	84	67	60	13	20
¼" female NPT	¼″ female NPT	inch	35/16	2	23/8	1/2	¹³ /16
74 Terriale NFT		mm	84	51	60	13	21
3/8" Gyrolok®	3/8" Gyrolok®	inch	31⁄4	211/16	23/8	1/2	3/4
78 Gylolok		mm	83	68	60	13	19
3%" female NPT	3/8″ female NPT	inch	35/16	2	23/8	1/2	¹³ / ₁₆
78 Terriale INFT		mm	84	51	60	13	21
½″ Gyrolok®	½″ Gyrolok®	inch	31/4	215/16	23/8	1/2	25/32
		mm	83	75	60	13	20
½″ male NPT	¼″ female NPT	inch	35/16	21/8	23/8	1/2	¹³ /16
		mm	84	54	60	13	21
½″ female NPT	½″ female NPT	inch	311/16	21/2	23/8	5/8	7/8
72 Terriale NPT		mm	94	64	60	16	22
10mm Gyrolok®	10mm Gyrolok®	inch	35/16	211/16	23/8	1/2	25/32
TOTTITI GYTOTOK		mm	84	68	60	13	20
12mm Gyrolok®	12mm Gyrolok®	inch	35/16	215/16	23/8	1/2	3/4
12mm Gyrolok®		mm	84	75	60	13	19

Dimensions for reference only, subject to change.



2200 Series: Angle Pattern

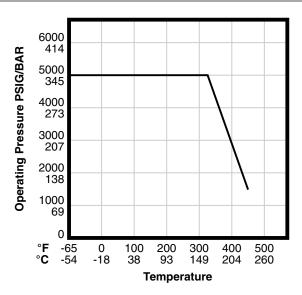
INLET A	OUTLET B		D	E	F	Н	H¹
¼″ female NPT	1/4" female NPT	inch	3%16	17/16	23/8	9/16	7/8
	74 Terriale NPT	mm	90	37	60	14	22

Dimensions for reference only, subject to change.

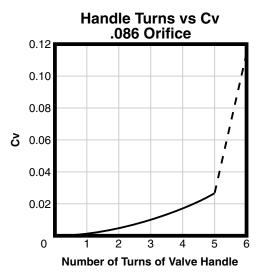
Panel mounting dimensions

Panel hole: for $\frac{1}{2}$ models = $\frac{4}{4}$ (19.4 mm) diameter for all other models = $\frac{4}{64}$ " (16.2 mm) diameter Panel thickness = $\frac{3}{16}$ " (4.7 mm) maximum

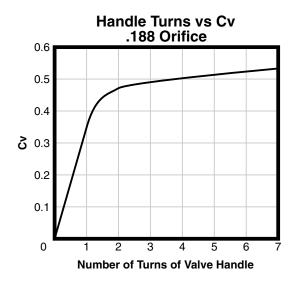
Pressure vs. Temperature Curve



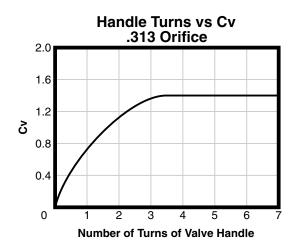
Flow Curves



Note: Metering range of valve is within the first 5 handle turns.



Handle Turns vs Cv .250 Orifice 1.0 8.0 0.6 5 0.4 0.2 0 5 6 **Number of Turns of Valve Handle**



How to Order: Standard Valves



2215G6Y: Globe pattern



Regulating stem tip (for greater control of flow)



2225F4Y: Angle pattern



Blunt vee-point tip (full flow with only a few handle turns)

2200 Series: Globe Pattern

Blunt vee-point stem tip

END CON	END CONNECTIONS		ORIFICE	
INLET	OUTLET	316 STAINLESS STEEL	(INCHES)	Cv
1/4" Gyrolok®	¼" Gyrolok®	2215G4Y	0.188	0.40
1/4" female NPT	¼" female NPT	2215F4Y	0.188	0.50
3/8" Gyrolok®	3%" Gyrolok®	2215G6Y	0.250	0.76
¾″ female NPT	3/8" female NPT	2215F6Y	0.250	0.90
½″ Gyrolok®	1/2" Gyrolok®	2215G8Y	0.250	0.90
½″ male NPT	¼" female NPT	2215L84Y	0.188	0.50
½" female NPT	1/2" female NPT	2215F8Y	0.313	1.40
10mm Gyrolok®	10mm Gyrolok®	2215G10YMM	0.250	0.90
12mm Gyrolok®	12mm Gyrolok®	2215G12YMM	0.250	0.90

2200 Series: Globe Pattern

Regulating stem tip

END CONNECTIONS		ORDER BY PART NUMBER	ORIFICE		
INLET	OUTLET	316 STAINLESS STEEL	(INCHES)	Cv	
¼″ female NPT	1/4" female NPT	2232F4Y	0.086	0.12	

2200 Series: Angle Pattern

Blunt vee-point stem tip

END CON	NECTIONS	ORDER BY PART NUMBER	ORIFICE	
INLET	OUTLET	316 STAINLESS STEEL	(INCHES)	Cv
1/4" female NPT	¼" female NPT	2225F4Y	0.188	0.55

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.