

Hy-Lok SVH Series

High Pressure Bar Stock Needle Valves



Catalog No. H - 103NV
Jan. 2005

Handle

- robust stainless steel bar handle.

Packing Bolt

- allows easy packing adjustment for leak tight seal.

Stem Threads

- rolled and hard chrome-plated for maximum service life.

Stop Pin

- prevents accidental removal in service.

Rugged Body

- available in straight and angle pattern.

Variety of End Connections

- Hy-Lok Tube Fittings,
Male & Female ISO threads,
Male & Female NPT.

Orifice Size
• 5.0mm

Locking Nut

- prevents packing bolt from loosening.

Packing

- below stem threads
- isolates stem thread from process
- prevents stem lubricant washout
- is PTFE standard with reinforced packing washer and grafoil available upon request.

Metal Seal

- construction ensure safety

Back Seating

- provides anti-blow out of stem and secondary stem seal

Variety Stem Tips

- includes non-rotating vee(standard) and ball tip(optional)

Features

- **Pressure rating** up to 10,000psig(689 bar) @100°F(38°C)
- **Temperature range** from -65°F to 450°F(-23°C to 232°C) with standard PTFE packing and up to 1200°F (649°C) with optional grafoil packing.
- **Body materials** available in 316 stainless steel, carbon steel and alloy 400
- 100% factory tested



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SVH1 for 10,000psig

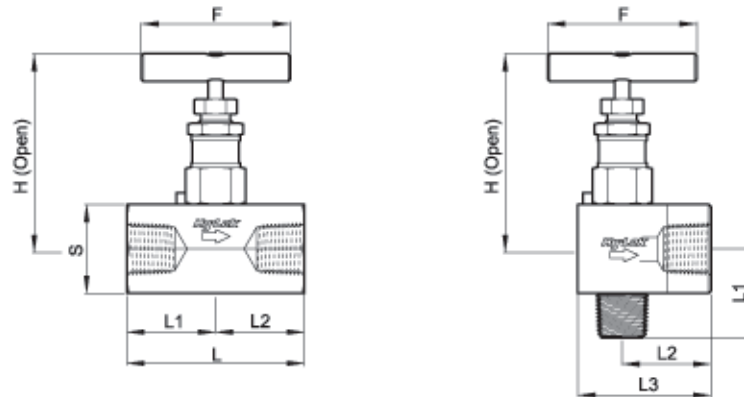


Table of Dimensions

Basic Part NO.			Orifice Hole	Cv Factor	End Connection		Dimensions							
					Inlet	Outlet	L	L1	L2	L3	S	F	H	
SVH1	F	-4N-	0.197 (5.0)	0.52	1/4 Female NPT	1/4 Female NPT	3.00 (76.2)	1.50 (38.1)	1.50 (38.1)	2.25 (57.2)	1.50 (38.1)	2.52 (64.0)	3.54 (90.0)	
	MF	-4N-			1/4 Male NPT	1/4 Female NPT								
	F	-8N-			1/2 Female NPT	1/2 Female NPT	3.31 (84.0)	1.65 (42.0)	1.65 (42.0)	2.46 (62.5)	1.61 (41.0)			
	F	-12N-			3/4 Female NPT	3/4 Female NPT								
	MF	-6N-			3/8 Male NPT	3/8 Female NPT	3.24 (82.2)	1.74 (44.1)	1.50 (38.1)	2.25 (57.2)	1.50 (38.1)			3.60 (91.5)
	MF	-8N-			1/2 Male NPT	1/2 Female NPT	3.43 (87.1)	1.93 (49.0)	1.50 (38.1)	2.25 (57.2)	1.50 (38.1)			3.54 (90.0)

Dimensions in inches and (millimeters) are for reference only, subject to change.

SVH2 for 6,000psig

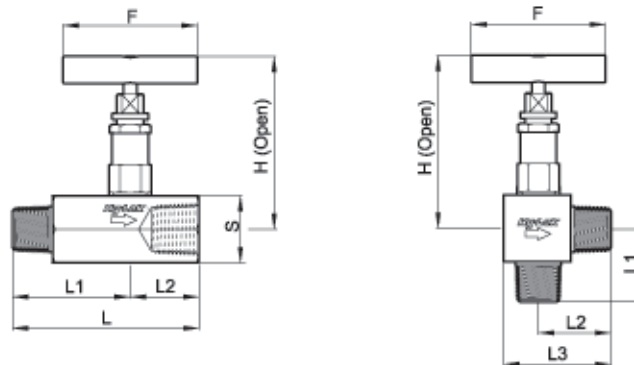


Table of Dimensions

Basic Part NO.			Orifice Hole	Cv Factor	End Connection		Dimensions						
					Inlet	Outlet	L	L1	L2	L3	S	F	H
SVH2	F	-4N-	0.197 (5.0)	0.52	1/4 Female NPT	1/4 Female NPT	3.00 (76.2)	1.50 (38.1)	1.50 (38.1)	2.13 (54.1)	1.26 (32.0)	2.52 (64.0)	3.48 (88.5)
	F	-6N-			3/8 Female NPT	3/8 Female NPT				2.25 (57.2)	1.50 (38.1)		
	F	-8N-			1/2 Female NPT	1/2 Female NPT							
	F	-12N-			3/4 Female NPT	3/4 Female NPT	3.50 (88.9)	2.21 (56.1)	1.29 (32.8)	1.92 (48.8)	1.26 (32.0)	3.60 (91.5)	
	MF	-8N-			1/2 Male NPT	1/2 Female NPT							
	MF	-12N-			3/4 Male NPT	3/4 Female NPT	4.50 (114.3)	3.00 (76.2)	1.50 (38.1)	2.25 (57.2)	1.50 (38.1)		3.48 (88.5)
	H	-6T-			3/8 Hy-Lok	3/8 Hy-Lok	3.59 (91.2)	1.80 (45.6)	1.80 (45.6)	2.43 (61.6)	1.26 (32.0)	3.60 (91.5)	
	H	-8T-			1/2 Hy-Lok	1/2 Hy-Lok	3.79 (96.2)	1.89 (48.1)	1.89 (48.1)	2.52 (64.1)			
	SW	-4P-			1/4 Pipe Weld	1/4 Pipe Weld	2.56 (65.0)	1.28 (32.5)	1.28 (32.5)	1.91 (48.5)	1.26 (32.0)		3.48 (88.5)
	SW	-8P-			1/2 Pipe Weld	1/2 Pipe Weld							
	SWF	-4P4N-			1/4 Pipe Weld	1/4 Female NPT							
	SWF	-8P8N-			1/2 Pipe Weld	1/2 Female NPT	3.00 (76.2)	1.50 (38.1)	1.50 (38.1)	2.13 (54.1)			

Dimensions in inches and (millimeters) are for reference only, subject to change.

Maintenance Kits (See page 3)

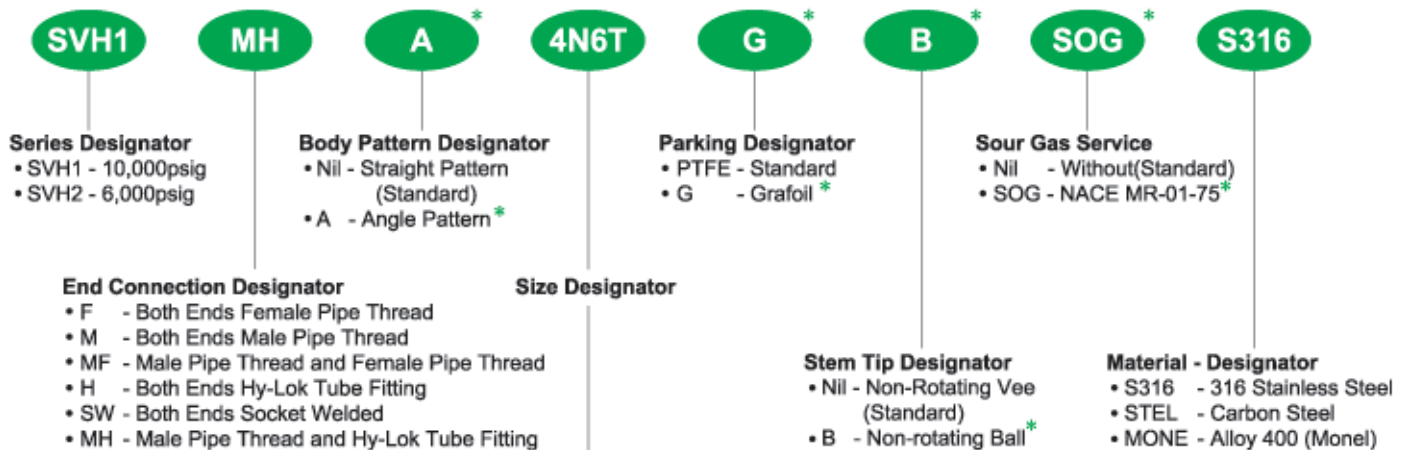
Basic Ordering No.	Valve Type	Component
KIT-SVH1-SET-**	SVH1	Bonnet, Stem tip, Stem, Packing, Packing Washer, Packing bolt, Handle, Lock nut, Set screw, Locking pin
KIT-SVH2-SET-**	SVH2	Bonnet, Stem tip, Stem, Packing, Packing Washer, Packing Gland, Packing bolt, Handle, Lock nut, Set screw, Locking pin

Stem Tip Shape	Designator
Vee	V
Ball	B

Packing Mat'l	Designator
PTFE	T
Grafoil®	G

* For a complete ordering number, add the desired stem tip shape & packing material designator as a suffix to the maintenance kit basic ordering number
 e.g : KIT-SVH1-SET-VT (Vee tip, PTFE stem packing)

Ordering Information



Pipe Thread Designation NPT (ISO / BSP)

Nom. Size	1 / 8	1 / 4	3 / 8	1 / 2	3 / 4	1
Designator	2N(R)	4N(R)	6N(R)	8N(R)	12N(R)	16N(R)

Tube O.D. Designation

Inch Tube	Tube O.D.	1 / 8	1 / 4	3 / 8	1 / 2	3 / 4	1
Designation		2T	4T	6T	8T	12T	16T
Metric Tube	Tube O.D.	3mm	6mm	10mm	12mm	20mm	25mm
Designation		3M	6M	10M	12M	20M	25M

Note * : No designator is required for standard
 e.g. SVH1F - 8N - S316

QUALITY SYSTEM CERTIFICATES



ISO 9001
 CERTIFICATE NO.GQC 212

ASME SECT II (MO)
 CERTIFICATE NO. QSC 584

TYPE APPROVALS (for Hy-Lok Tube Fittings)



American Bureau of Shipping
 CERTIFICATE NO.00-BK50288-X



Lloyd's Register
 CERTIFICATE NO.01/10075



GERMANISCHER LLOYD
 CERTIFICATE NO.57798-91 HH



DET NORSKE VERITAS
 CERTIFICATE NO.P-9100

SAFETY in VALVE SELECTION

Proper installation, material compatibility, operation and maintenance of the valves is the responsibility of the user. The total system design must be taken into consideration to ensure optimal performance and safety.



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