

Description

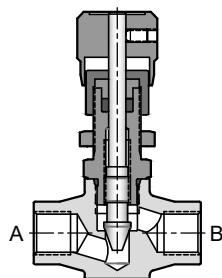
Needle valve model NL, NLW are two way Throttle valves.

The Valve allows accurate adjustment of flow by throttling action. The throttling can be varied by rotation of the Hand knob. These valves offer constant flow rate so long as the pressure drop across the valve and the viscosity of oil remains constant.

The throttle is effective in either direction.



Section

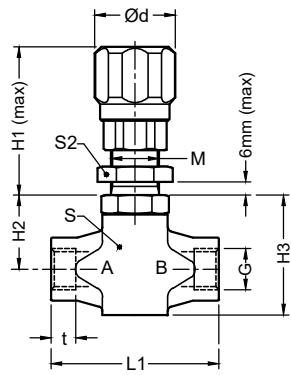


Hydraulic Symbol



Unit Dimensions

In-line threaded ports



Right angle threaded ports

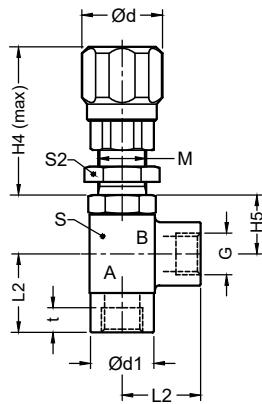
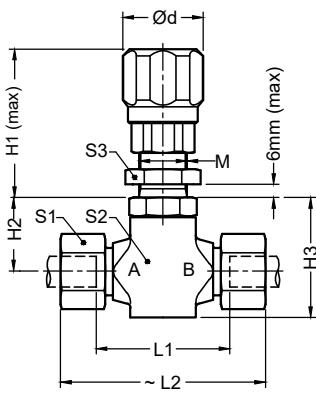


Table-1

G	Ød1	Pr. (bar)	L1	t	L2	H1	H2	H3	H4	H5	Ød	S	S2	M
G 1/4	22	350	70	14	30						30			
G 3/8	25	350	70	14	30	76.5	34.0	55.0	77.0	27.0	40	30	30	M22x1.5
G 1/2	29	350	77	17	36						30			
G 3/4	35	350	93	17	45	78.0	44.0	70.0	78.0	32.0	48	36	36	M26x1.5
G1	44	350	93	18	45						46	36	36	
G1.1/4	58	250	162	22	65	95.5	66.5	117.0	95.0	47.0	68	60	60	M42x2.0
G1.1/2	58	250	162	24	65						60	50	50	

Dimensions in mm.

In-line Tube mounting



Right Angle Tube mounting

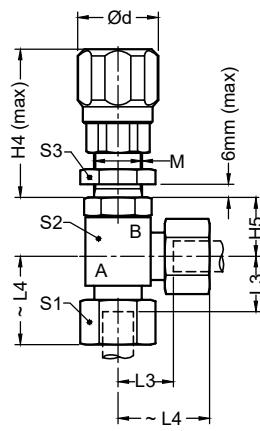


Table-2

Tube OD	Pr. (bar)	L1	L2	L3	L4	H1	H2	H3	H4	H5	Ød	S1	S2	S3	M
10	350	55	88		39.0						22				
12	350	55	88	22	39.0	76.5	34.0	55.0	76.5	27.0	40	24	30	30	M22x1.5
16	350	60	97		41.0						30				
20	350	72	115	28	68.0						36				
25	350	69	117	28	73.5	78.5	43.5	71.5	78.0	32.0	48	41	36		M26x1.5
30	250	135	188	40	63.0	95.5	66.5	118.0	95.0	48.0	68	50	60	50	M42x2.0
38	250	130	192	40	67.0						60				



The right connection
The right environment

Needle Valves - Inline and Right angle NLG / NLWG

Ref. No. H02310

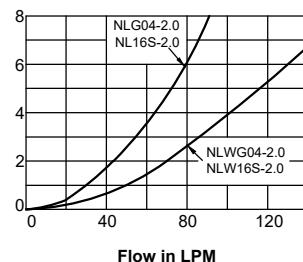
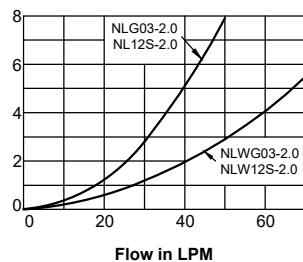
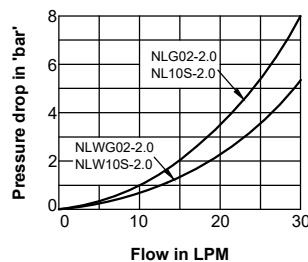
Release: Apr 2025

ENGINEERING - 2 of 2

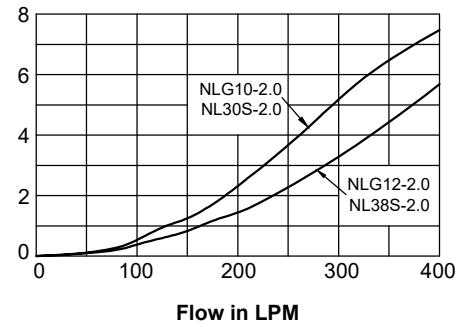
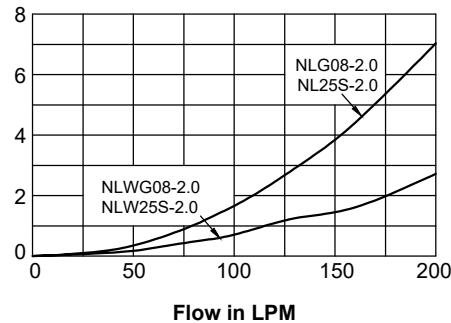
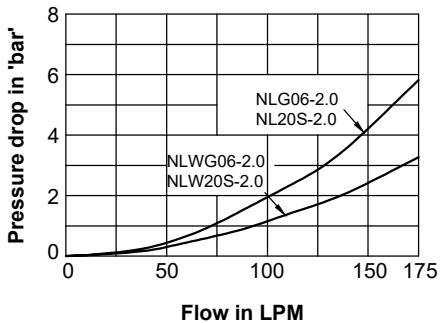
Technical Specifications

Construction	Rising conical spindle.	Hydraulic medium	Mineral oil.
Mounting style	Inline or right angle port or tube mounting.	Viscosity range	10 cSt to 380 cSt.
Mounting position	Optional	Fluid temperature range	-20 °C to +80 °C
Flow direction	Either side.	Fluid cleanliness requirement	As per ISO 4406 20/18/15
Operating pressure	Refer Table -1 and Table-2.	Nom. flow handling capacity	Refer graphs

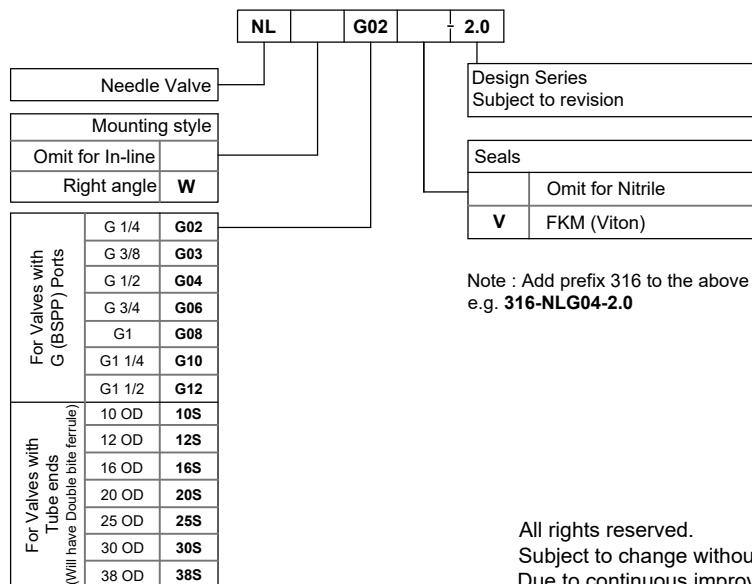
Performance curves



Oil used : ISO VG 68
 Viscosity : 68 cSt @ 40 °C
 Test conducted at : 50 °C
 Condition : Valve fully opened



Ordering Code



Note : Add prefix 316 to the above part code for SS 316 Valves.
e.g. 316-NLG04-2.0

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Subject to change without notice.

Due to continuous improvement in the design of the product,
the actual product supplied may look different than shown above.