

Maintenance Instructions


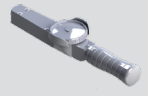

LN Series Needle Valve



WARNING

Before disassembly be sure to provide a clean area to keep components for reuse.

Tools Required

Tool	Description
 Vise	For holding body/bonnet during assembly
 Torque wrench	Size depends on necessary torque requirement for assembly
 Christo-Lube MCG 130 lube	Unless special lube is designated

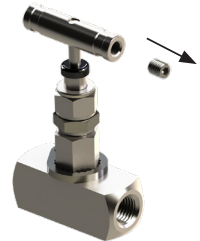
Size	LNG/LNBP		LN8	HLN4	HLN6	Part
	LNBB					
	LN4	LN6				
Wrench	5/8 in.	3/4 in.	1 1/8 in.	3/4 in.	1-1/8 in.	Bonnet
	5/16 in.	3/8 in.	5/8 in.	5/16 in.	3/8 in.	Packing Nut
Hex	7/64 in.	5/32 in.	3/16 in.	5/32 in.	3/16 in.	Panel Nut
	3/32 in.	1/8 in.	5/32 in.	3/32 in.	1/8 in.	Packing Bolt
						Socket Screw
						Set Screw

Disassembly

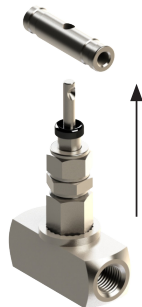
1. Rotate the handle so that the valve is in the fully open position.



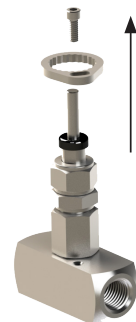
2. Use an Allen wrench to loosen the set screw in the handle.



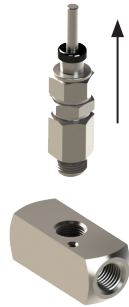
3. Lift the handle over the upper stem.



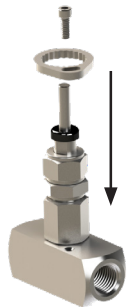
4. Loosen the socket set screw with an Allen wrench and remove from the bonnet lock. The bonnet lock will now be free to lift up over the bonnet.



5. Use a wrench to remove the bonnet assembly from the body. Discard the bonnet assembly. Disassembly is now complete.



7. Place the bonnet lock back over the body and align slot with the threaded socket screw hole.

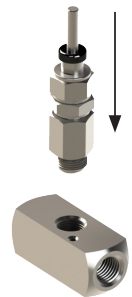


9. Test the opening and closing of the valve. The assembly is now complete.



Assembly

6. Lubricate the bonnet threads and sealing surface with the provided Christo-Lube MCG 130. Use a torque wrench to tighten the bonnet into the body using the torque chart below. (Make sure that the stem is in the open position before tightening into the body.)



8. Slide the handle over the upper stem so that the threaded hole in the handle aligns with the set screw point on the upper stem. Insert the set screw into the handles threaded hole and tighten with an Allen wrench until "snug".



Torque

LN Valve		Torque Required		
		in - lb	ft - lb	
LNG/LNBP	LNBB	LN4	150	13
		LN6	400	34
		LN8	475	40
		HLN4	375	32
		HLN6	500	42