

OPERATING PROCEDURES FOR VIBRA-PROOF CONDENSER PLUGS

WARNINGS!

- **ALL WARNING STATEMENTS MUST BE CAREFULLY OBSERVED TO HELP PROTECT AGAINST INJURY AND DAMAGE TO PERSONS AND PROPERTY.**
- **WHEN SYSTEM IS UNDER PRESSURE DO NOT, UNDER ANY CIRCUMSTANCES ATTEMPT TO ADJUST, MOVE, OR CHANGE THE TEST PLUG IN ANY WAY, SHAPE, OR FORM.**
- **DO NOT EXCEED THE MAXIMUM OPERATING PRESSURES LISTED IN TABLE 1.**

INSTALLATION PROCEDURE:

1. Prepare the tube end. Vibra Proof Condenser plugs are to be installed in a clean, dry tube end. Any scale or moisture present may interfere with the sealing of the plug and may reduce the pressure that the plug will be capable of holding.
2. Install the correct size Vibra Proof Condenser plug into the end of tube being sealed.
3. Insert plug into tube end and tighten compression hex nut until plug is finger-tight. Then using a calibrated torque wrench, continue tightening the compression nut to prescribed installation torque as indicated in Table 1.
4. Tighten lock nut to the back of hex nut making sure not to turn hex nut, doing so may over-torque hex nut.
5. Begin testing or in-service operation.

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6. To remove loosen both nuts and withdraw from tube.
7. Inspect the plug for wear and replace any worn components. Any component, which is worn or damaged, must be replaced before attempting to use the plug. Contact the factory for information on replacement of worn or damaged parts.

TABLE 1:

Table 1. Vibra-Proof Condenser Plug Installation Torques And Operating Pressures					
TUBE ID		INSTALLATION		MAXIMUM OPERATING	
SIZE RANGE		TORQUE*		PRESSURE	
(in)	(mm)	(Ft-Lbs)	(kg-m)	(psig)	(Bar)
0.280 – 0.499	7.11 – 12.68	FINGER TIGHT + (2) TURNS		150	10
0.500 - 0.869	12.69 – 22.08	2.5	.35	150	10
0.870 – 1.309	22.09 – 33.25	9	1.26	150	10

Specifications subject to change without notice.

NOTE: TO AVOID DAMAGE TO PLUG DO NOT EXCEED INSTALLATION TORQUE VALUES BY MORE THAN 5%



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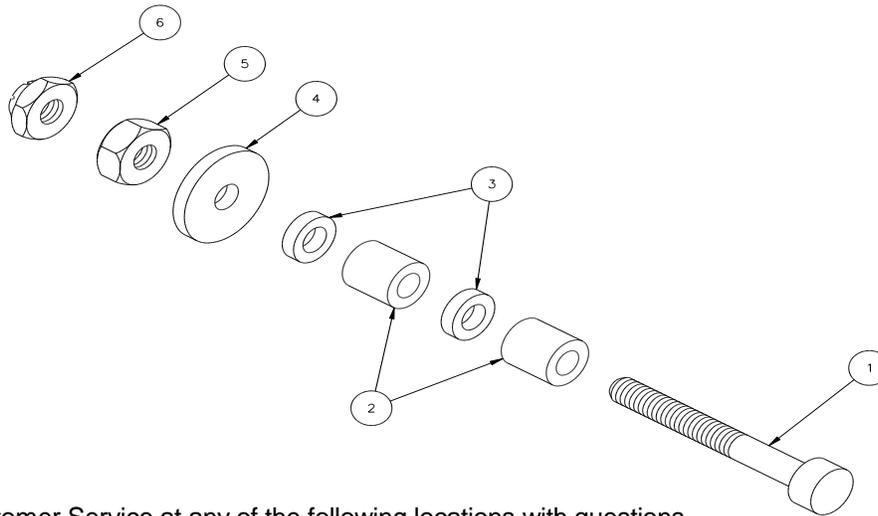
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Table 2. Vibra-Proof Condenser Plug Parts List, P/N: VPC-XXXX-M (1)				
Item	Quan	Description	Tube ID Size Range	Part Number (1)
1	1	Shaft Assembly, 1/8" dia	0.280" to 0.499"	
		Shaft Assembly, 1/4" dia.	0.500" to 0.869"	
		Shaft Assembly, 3/8" dia.	0.870" to 1.309"	
2	2	Seal, Neoprene	0.280" to 0.869"	VPC-XXXX-NRS
	1	Seal, Neoprene	0.870" to 1.309"	
3	2	Compression Washer	0.280" to 0.869"	
	1	Compression Washer	0.870" to 1.309"	
4	1	Positioning Washer	0.280" to 1.309"	
5	1	Hexnut	0.280" to 1.309"	
6	1	Locknut	0.280" to 1.309"	

NOTE: 1. The Part Number **VPC-XXXX-M** is defined as follows, where:
"XXXX" = TUBE I.D. SPECIFIED IN (2) DECIMAL PLACES (XX.XX)
"M" = SEAL MATERIAL DESIGNATION
 B - BUNA-N
 N - NEOPRENE
 S - SILICONE
 V - FLUROELASTOMER (VITON OR EQUIVALENT)

Figure 1. Vibra-Proof Condenser Plug Exploded View



QUESTIONS?

Contact EST Group Customer Service at any of the following locations with questions.

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