



**LESLIE
CONTROLS, INC.**

A subsidiary of **CIRCOR** International, Inc.

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Installation, Operating and
Maintenance Instructions
Supplement

10/2.5.1.G
Rev. A

AEROFLOW SUPPLEMENT

Setting/Maintenance of Chesterton Live Loaded Packing

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INSTALLATION

CAUTION!

All warnings from valve IOM must be followed.

NOTE: Refer to Fig. 1 for installation.

1. Install Packing Box Ring (9).
2. Install bushing (8).
3. Install Packing Rings (7) as shown. Install rings by twisting slightly, never open rings with a hinge like action. Stagger the ring joints 90°. Use outer most or next ring to push previously installed rings into stuffing box until all rings are in place. **DO NOT USE A TAMPING TOOL**, you may damage the sealing surface on the wedge shaped rings.
4. Gently seat the packing set with a tamping tool.
5. Install Packing follower (6), Packing studs (2), Packing Flange (5) as shown. Lubricate the studs with an Anti-Seize Compound.
6. Install the spring washers (4) in an alternating fashion as shown. Lubricate the washers with Anti-Seize Compound.
7. Install the Packing nut (3) and torque to the required value alternating between nuts (Verify that the packing gland is square and perpendicular to the valve stem.). **Keep in mind that a different spring washer kit is needed for each of the pressure service ranges.**

Standard Trim Valves

VALVE SIZE	TORQUE (Ft-lbs)
<i>Up to 800 Psi service</i>	
1" through 4" valves	5
6" valves	6
8" through 12" valves	9
<i>800 Psi to 1500 Psi service</i>	
1" Through 4" valves	9
6" valves	11
8" through 12" valves	16
<i>1500 Psi to 2600 Psi</i>	
1" Through 4" valves	15
6" valves	19
8" through 12" valves	28
<i>2600 Psi to 4800 Psi</i>	
1" Through 4" valves	27
6" valves	N/A
8" through 12" valves	N/A

8. To properly consolidate the packing: Actuate the valve 10 times; retighten the packing nuts at the end of the last down stroke. Actuate the valve 10 more times; retighten the packing nuts at the end of the last down stroke.

MAINTENANCE

1. Check the condition of the following components prior to assembly:
 - A 10 to 32 RMS (7.5 to 24 Ra) stem finish is required.
 - The stuffing box bore should be 125 RMS (94 Ra) or better finish.
 - The stem run out should not exceed +/- .010 TIR/Ft.
 - The stuffing box (packing bore) must be clean, i.e. completely free of any previous packing or foreign material.

 - The valve stem must be clean, free of nicks, scratches and burrs.

Check gland adjustment after a few hours of service. Retighten to the values given above as necessary.

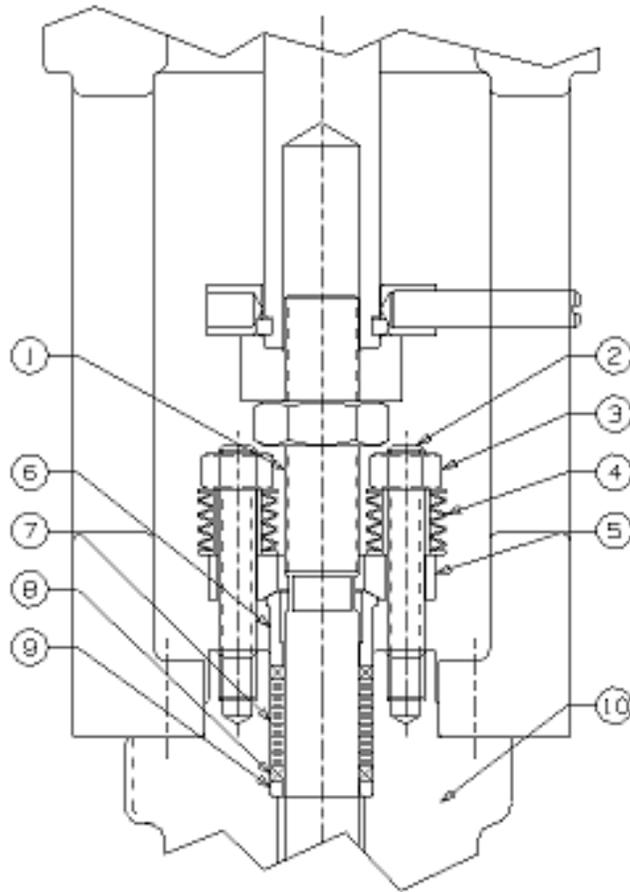


Figure 1 - Live Loaded Packing Arrangement

Item	Description
1	Valve Stem
2	Packing Studs
3	Packing Nut
4	Spring Washers
5	Packing Flange
6	Packing Follower
7	Packing Set
8	End Rings
9	Packing Box Ring
10	Valve Bonnet