



Valve Capacity Guide



VALVE LUBE SEALANT CAPACITY IN OUNCES

These minimum capacities are provided by the manufacturer. Twice the minimum capacity may be required to achieve the desired result.

SIZE	CAMERON BALL VALVE	GROVE-PBV BALL VALVE	PLUG VALVE
1/2	—	—	1/2 oz.
3/4	—	—	1/2 oz.
1	—	—	1 oz.
1 1/2	—	—	1 oz.
2	2 oz.	—	3 oz.
3	2 oz.	—	4 oz.
4	3 oz.	—	5 oz.
6	4 oz.	3 oz.	9 oz.
8	6 oz.	3 oz.	11 oz.
10	6 oz.	4 oz.	14 oz.
12	10 oz.	4 oz.	17 oz.
14	10 oz.	4 oz.	32 oz.
16	12 oz.	5 oz.	40 oz.
18	18 oz.	5 oz.	56 oz.
20	20 oz.	8 oz.	72 oz.
22	22 oz.	10 oz.	80 oz.
24	24 oz.	10 oz.	88 oz.
26	26 oz.	12 oz.	96 oz.
28	26 oz.	13 oz.	—
30	30 oz.	14 oz.	112 oz.
32	—	14 oz.	—
34	34 oz.	15 oz.	—
36	42 oz.	16 oz.	—
38	—	16 oz.	—
40	64 oz.	18 oz.	—
42	68 oz.	18 oz.	—
48	102 oz.	22 oz.	—

When using **Valve Flush** it may be necessary to perform the **flushing procedure twice. See instructions on reverse side.**

LUBRICATION PROCEDURE FOR PLUG VALVES

1. Make sure the valve is in the full open position.
2. Load the gun with the proper amount of lube sealant called for on the capacity chart. Return the piston in the hydraulic gun to the desired depth using the markings on the gun handle. Do not force the stick into the barrel. If the stick is out of round, before unwrapping, roll it in your hands and reduce the diameter. Rewrap any unused portion.
3. Pump the lube sealant into the valve.

CAUTION: Do not exceed 4000 PSI on valves 4" or smaller and 6000 PSI on valves 6" and larger. Consult your manufacturer's catalog and assess the general condition of your valve to determine a safe injection pressure.

NOTE: It takes approximately 350 strokes of a hydraulic gun to pump 8 ounces of material.

REMEMBER THESE TWO POINTS

ROUTINE MAINTENANCE WITH THE PROPER LUBE SEALANT IS YOUR BEST ASSURANCE OF TROUBLE FREE VALVES.

SOLID FILLERS IN YOUR LUBRICANTS OR SEALANTS ARE A MAJOR CAUSE OF VALVE MALFUNCTIONS.

3/06



THE PROPER USE OF "VALVE FLUSH" ON PLUG VALVES

1. Before using "VALVE FLUSH" try to turn the valve. This could loosen some of the particles that are binding the plug.
2. Make sure that the valve is in the full open position.
3. Tighten the bonnet bolts snugly with a box or open end wrench. Use a crisscross method to insure even tightening.
4. Add "VALVE FLUSH" equal to the sealant capacity listed for the valve.
5. Load the required amount of "VALVE FLUSH" into the gun and pump it into the valve. We recommend that you do not exceed an injection pressure of 4000 PSI for valves 4" and smaller and 6000 PSI on valves 6" or larger. Please consult your manufacturer's catalog or assess the general condition of your valve to determine a safe injection pressure.

NOTE: Remember to use the markings on the gun handle to determine how far to push the piston down. It will be your measuring stick. Each mark is 1 1/8 inch and is equal to approximately one ounce.

6. If the gun will not build pressure, check the following:
 - a. Seepage around the fitting: Inspect the coupler washer and the fitting for defects or trash.
 - b. Leakage around the bonnet: Tighten the bonnet bolts again.
7. Try to keep the pressure above 1000 PSI. If the pressure drops rapidly or never builds (after following procedures in number 6) you are probably relieving in one or two veins only.

NOTE: You can try to build a false blockage by injecting a small amount of lube sealant (approx. 10 to 20% of its capacity) to temporarily plug the open veins and allow the "VALVE FLUSH" to build pressure against the veins that are still clogged.

8. After injecting "VALVE FLUSH" let it soak for 30 minutes or as long as possible to allow it time to soften the hardened deposits.

CAUTION: Never remove the coupler before opening the bleeder valve on the gun. Keep your hand away from the coupler and wiggle the hose to release trapped pressure.

9. Flex the valve approximately 10 times by turning it from an open to a closed position. Any valve that cannot be closed completely should be closed as much as possible.

10. Tighten the bonnet bolts again.

11. If required repeat the procedure from step 2.

Riser Pipe/Extension Calculation	
Inside Diameter	Ounces Per Foot
1/4"	.5
3/8"	1.3
1/2"	2.0
3/4"	4.0

