



### A) Valve Lubrication

The Valve is grease packed i.e the plug rests on a lubricating film in valve body. The grease has three functions: to protect the internal closing surfaces of the valve from corrosion, to seal the valve, and to contribute to easy handling/lower torque. With an eye to achieving the best possible operation, it is therefore important to relubricate the valve. Lubrication is carried out with a BC-Lubricant Gun (Manually with type BC-1 or pneumatically with type BC-2). The tube of the lubricant gun has a “push-on-head” for direct connection to the valve lubricating nipple. This nipple is the giant Buttonhead Design found on most other valve designs in the industry. The valve should be in fully open position when relubricating. Where the media is compressible (e.g. air or gas) relubrication can also take place in fully closed position. Do not lubricate too fast – the lubricating pressure must distribute itself. If possible make a few minor turns of the plug to distribution of the grease on the sealing surfaces. The interval and quantity of lubricant for relubrication depends on the working condition, for instance the temperature, the operating frequency and the need for tightness. (A high working temperature dries up the lubricant). In case however, where the medium is non-aggressive and the temperature is low, the need for relubrication will be small. It is a matter of experience, but as a guideline and starting point, the values in the table below can be used. The lubrication of the gear is either grease filled gearbox or “principle of dry lubrication”, meaning that a layer of antiseizing paste with a content of molybdenum disulphide is applied to bearings, teeth and worms.

Valve size	Interval for relubrication in working temp.			Quantity of lubricant of each plug Number of strokes by using			
	Up to 60°C	60° to 120°C	120° to 200°C	In cm <sup>3</sup>	Gun type BC-1	Gun type BC-2	Numbers of units on the Gun type BC-2
1"	12 months	6 months	3 months	1,3	1	1	
1 ½"	-	-	-	1,5	1	2	
2"	-	-	-	1,8	1	2	
2 ½"	-	-	-	2,0	1	2	
3"	-	-	-	2,4	2	3	
4"	-	-	-	4	3	4	
6"	-	-	-	10	6	10	0,1
8"	-	-	-	30	17	30	0,3
10"	-	-	-	45	25	45	0,45
12"	-	-	-	65	36	65	0,65
14"	-	-	-	95	52	95	0,95
16"	-	-	-	135	75	135	1,35
18"	-	-	-	180	100	180	1,8
20"	-	-	-	235	130	235	2,35
24"	-	-	-	325	180	325	3,25