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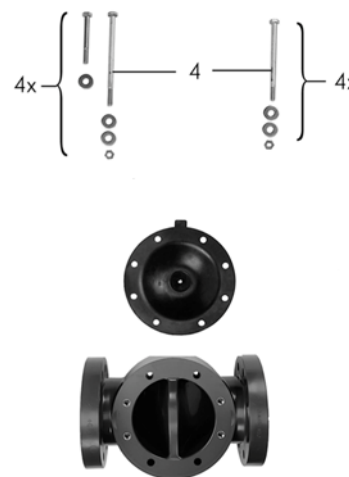
Tustin, CA February 10, 2009

### Subject Torque Values for GF 4" (d110) PTFE/PVDF diaphragm Valve

The following list contains the standard bolt torque values for the Georg Fischer diaphragm valves. These values are the required torque to ensure there is a sufficient pressure on the diaphragm to create a seal.

#### Tightening torques for diaphragms

DN	d	Tightening torque for elastomer dia- phragm		Tightening torque for PTFE dia- phragm	
		In Nm	in lbf	in Nm	in lbf
15	20	2.5	22.1	3.8	33.6
20	25	3	26.6	4.5	39.9
25	32	4	35.4	6.0	53.1
32	40	6	53.1	9.0	79.7
40	50	10	88.5	15.0	132.7
50	63	15	132.8	23.0	203.6
65	75	25	221.3	25.0	221.3
80	90	28	247.8	28.0	247.8
100	110	30	265.5	30.0	265.5
150	160	40	354.0	40.0	354.0



If 60PSI or more pressure is used with the 4" (d110) PTFE valve additional torque should be applied to all 8 bolts. The appropriate value is 33% greater or 354 inch lbs (40 Nm). No more than 354 inch lbs should be applied to the bolts. Please contact us with any further questions or comments.

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