SVF MAST – 316SS Stems on SVF Flanged Valves

№. 1087

Definition:

MAST is defined as the Maximum Allowable Stem Torque that a valve stem can undergo without mechanical failure occurring. Plastic deformation, unlike elastic deformation, is a permanent distortion that occurs when a material is subjected to tensile, compressive, bending, or torsional stress that exceed its yield strength. If plastic deformation is prolonged, it will lead to mechanical failure. Once the valve torque was exceeded, deformation was observed along the thread of the stem.

The MAST values below indicate the maximum allowable stem torque for SVF flanged valves:

MAST (Maximum Allowable Stem Torque) Results										
SIZE	41C		B41C		B42C		B43C		B43T	
	IN-LB	N-M	IN-LB	N-M	IN-LB	N-M	IN-LB	N-M	IN-LB	N-M
	MATERIAL: 316 STAINLESS STEEL									
½"	-	-	283	32	283	32	283	32	-	-
¾"	-	-	283	32	283	32	283	32	-	-
1"	-	-	575	65	575	65	575	65	-	-
1-¼"	-	-	575	65	575	65	575	65	-	-
1-½"	1,151	130	1,151	130	1,151	130	1,151	130	-	-
2"	1,151	130	1,151	130	1,151	130	1,151	130	-	-
2-½"	-	-	2,301	260	2,301	260	2,301	260	-	-
3"	2,301	260	2,301	260	2,301	260	2,301	260	-	-
4"	5,133	580	5,133	580	5,133	580	5,133	580	-	-
6"	10,886	1,230	10,886	1,230	10,886	1,230	-	-	10,886	1,230
8"	-	-	13,275	1,500	13,275	1,500	-	-	13,275	1,500

SVF Flow Controls | 5595 Fresca Drive, La Palma, CA 90623 | Tel: 1.800.783.7836 | Fax: 562.802.3114
www.SVF.net