

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 R9 and B9 valves:

MAST (Maximum Allowable Stem Torque) Results				
SIZE	R9		B9	
	IN-LB	N-M	IN-LB	N-M
	MATERIAL: 316 STAINLESS STEEL			
1/4"	119	13.4	119	13.4
3/8"	119	13.4	119	13.4
1/2"	119	13.4	119	13.4
3/4"	119	13.4	216	24.4
1"	216	24.4	216	24.4
1-1/4"	216	24.4	216	24.4
1-1/2"	216	24.4	445	50.3
2"	445	50.3	445	50.3
2-1/2"	445	50.3	796	90
3"	796	90	796	90
4"	796	90	1726	195



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