

ID	Potential Failure Modes	Potential Effects of Failure	Potential Causes of Failure	Severity	Probability	Rank	Recommended Action
1	Valve structural failure due to overpressure	Test and system failure	Inappropriate valve selected	3	1	3	Select an appropriate valve
2	Motor speed too slow for adequate response	In-accurate test	Select fastest Motor available	2	2	4	Select adequate Motor
3	Motor position inaccurate	In-accurate test	Internal position feedback not adequate	2	1	2	Incorporate custom position feedback device
4	Valve torque exceeds motor capability	In-accurate test	Inappropriate motor selected	2	1	2	Select appropriate motor
5	Valve seal failure	Test and system failure	Inappropriate seal material selected for environment	2	1	2	Select appropriate seal material per manufacturer
6	Motor moisture failure	Test and system failure	Motor enclosure not water resistant	2	2	4	Design Enclosure to protect motor
7	Motor impact failure	Test and system failure	Motor enclosure not impact resistant	2	1	2	Protect hardware with shield
8	Couple shaft connection seizes	Test and system failure	Incorrect lineup of valve shaft and motor shaft	2	2	4	Ensure correct setup, use flex couplings