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Title: **Seismic qualification of directional valve**

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Abstract:

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Seismic qualification tests on pneumatically operated directional valve were carried out in the shake table facility in Structural Integrity Division. Determination of the fundamental frequency for directional valve was carried out through exploratory vibration test as per ANSI B 16.41 Annexure E (Para E-3) to ascertain extent of flexibility as defined in the standard. Seismic (static) load test on same directional valve was also carried out to ascertain its capabilities to withstand the expected dynamic, seismic stresses and to ensure that the valves will not be subjected to performance degradation or malfunction under seismic conditions.

This report describes the final seismic qualification documentation for directional valve manufactured by M/s Vijay Fire Protection Systems Ltd, Mumbai.