



Test method T918

Lateral overload testing on guide restraints on pot type bearings

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Revision Summary

Ed/Rev Number	Clause Number	Description of Revision	Authorisation	Date
		Reformatted and Revision Summary Added	D. Dash	Jun 2001
Ed 2/ Rev 0	All	Reformatted RMS template	J Friedrich	November 2012

Note that Roads and Maritime Services is hereafter referred to as 'RMS'.

The most recent revision to Test method T918 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

Test method T918

Lateral overload testing on guide restraints on pot type bearings

1. Scope

This method sets out the procedures for the lateral load testing of guided pot type bearings.

2. Apparatus

- (a) A compression testing machine with upper and lower platens whose dimensions are greater than the bearings to be tested.
- (b) The force ranges of the machine i.e. both vertical and horizontal calibrated to AS2193 - Grade A.
- (c) Chart recorder.

3. Procedure

- (a) Place the bearing in the centre of the loading table with the guide restraints (if guided bearing) at 90 to the side ram axis.
- (b) Place the shear plate, centrally, on the top of the bearing.
- (c) On top of this plate and in the centre, is placed either;
 - (i) a free floating bearing, or,
 - (ii) a guided bearing with guides parallel to side ram axis or;
 - (iii) a calibrated sliding surface.

Note: If bearings are used they must be back to back with the lower bearing.

- (d) The facility is now switched on and the test assembly is pulled back into the test frame (if this is an option in the design of the machine). Apply a side load whose value is indicated on the drawings to the shear plate. Hold for 3 minutes.
- (e) Insert the shear bar if applicable through the shear plate and the side ram, adjust the side ram to take up any free movement and then tighten the nuts on the bar.
- (f) Reduce side load to zero.
- (g) Apply a vertical load equal to the minimum design load V_{min} as indicated on the bearing drawings or specification.
- (h) Release the vertical load and lower to zero position.
- (i) Fit spacers between the bearing guides and the fixed retaining bars on the shear plate and the bottom platen.
- (j) Value is indicated on the drawings or specification, to the shear plate. Hold for 3 minutes
- (k) Reduce side load to zero
- (l) Release the vertical load and lower to zero position.

4. Reporting

Report if the bearing conforms to the lateral overload test requirements of the relevant specification.