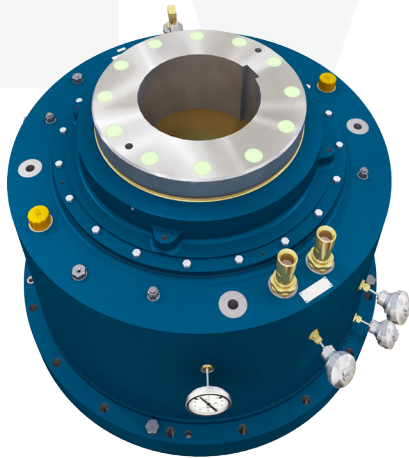


Large Vertical (LV) Series

Modular range of high capacity vertical thrust and guide bearings



- Four frame sizes covering a shaft diameter range of 300-600mm
- Axial load capacity up to 2155kN
- Available with single (downward) thrust pads and upper thrust capability
- Radial loads are supported on line pivoted whitmetal faced tilting pads
- Available with water cooling or circulating oil cooling

LV Series capacity

A	B	C	D	E	F	G	H	I	J	K	L	M
Frame size	Shaft variant	Max shaft diameter (1)	Max collar bore for unstepped shafts (1)	Max thrust load normal duty (2)	Max starting thrust load without high pressure jacking (3)	Max closed valve thrust load (4)	Approximate max radial load (5)	Max starting thrust load D only (6)	Max running thrust load D only (6)	Max running thrust load B only (6)	Transient thrust load B only (duration <10 secs) (6)	Approximate max speed for water cooled option (7)
		mm	mm	kN	kN	kN	kN	kN	kN	kN	kN	rpm
LV1	N	300	299	1020	583	1339	102	250	143	43	75	750
	L	353	346	900	514	1182	102	250	143	43	75	750
	XL	395	388	800	457	1050	102	250	143	43	75	750
LV2	N	353	341	1335	763	1753	133.5	340	194	68	118	700
	L	415	404	1170	669	1536	133.5	340	194	68	118	700
	XL	463	452	1045	597	1372	133.5	340	194	68	118	700
LV3	N	404	396	1730	989	2272	173	410	234	80	140	650
	L	475	467	1519	868	1995	173	410	234	80	140	650
	XL	530	523	1352	773	1775	173	410	234	80	140	650
LV4	N	452	447	2155	1231	2830	215.5	575	329	122	215	550
	L	547	544	1830	1046	2403	215.5	575	329	122	215	550
	XL	600	597	1600	914	2101	215.5	575	329	122	215	550

Notes

- 1 - For straight through unstepped shafts the maximum shaft diameter should be taken from column 'D'.
- 2 - Higher thrust loads can be accommodated. Please consult Michell Bearings for requirements such as API 610.
- 3 - High pressure lift (jacking) for whitmetal pads or PTFE can be provided for applications with starting loads higher than those in column 'F'.
- 4 - Maximum closed valve loads are for guidance only and should be confirmed by Michell Bearings.
- 5 - Maximum radial load will vary, depending upon speed and oil viscosity.
- 6 - Upper thrust load can only be accommodated on bearings with optional surge or upper thrust face.
- 7 - The maximum speed varies with running thrust load, the grade of oil used and the water inlet temperature.
- 8 - All loads are based on whitmetal surfaced pads.