

VL Air Bearing Module Technical Specifications



With air flow control valve

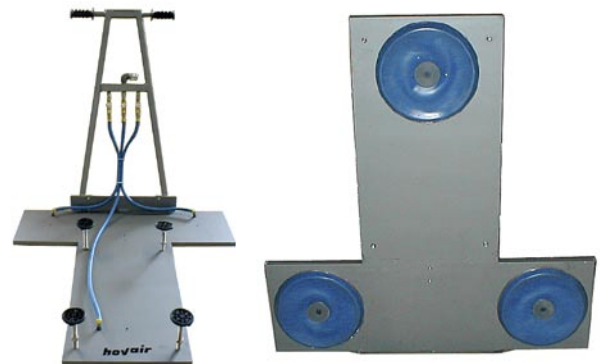
MODULE	PART NUMBER	CAPACITY	DIMENSIONS MILLIMETERS			FLOW - SCFM		LOAD PAD	APPROX WEIGHT IN POUNDS
			Diameter	Height Air Off	Height Air On	Half Load	Full Load		
		Pounds						Square Inches	Module
VL-200	26712	385	200mm	20	27	1	2	7	2.0
VL-250	26713	550	250mm	20	28	2	3	7	2.5
VL-300	26756	880	300mm	20	30	2	3	7	3.0
VL-350	26757	1,320	350mm	20	32	2	4	7	3.5

Note: VL air bearing modules have their air flow control valves fitted to the top of the module. This prohibits the load from completely covering the load module. The load must not cover, or intrude upon, the immediate area around the air flow control valve. When using VL air bearings as a load module system, the load must cover 80% of each module's surface to ensure satisfactory load balance and smooth running of the application.

However, VL air bearings do not have to be used as stand alone modules, they can be incorporated into many of our other products including air pallets, aluminum transporters and air beams.

The pictures to the right show a customized steel air pallet that is powered by three VL air bearings and designed to transport an instrument assembly with a weight of 1,400 pounds.

Hovair VL air bearings are now available as a complete load moving system kit. The kit comprises of 4 or 6 air bearings and modules - determined at time of order, all hoses, valves and other fittings necessary to be up and running quickly. Bolt fittings are available to allow the modules to be fixed permanently to machinery or other such loads that may require repetitive movements.



VL air bearings are environmentally friendly and use only compressed air for their operation. They do not exhaust any fumes or other gases - only fresh air. They are the ideal solution for clean room applications.