



MXQ PV SERIES

Classic single stage Vacuum Pumps with a large presence in the Pulp, Paper and Thermal power industry.

CAPACITY : 150 to 25500 M³/hr (88 CFM TO 15000 CFM)

MAX VACUUM : 700 mm Hg (27.5" Hg) at sea level

- Wide capacity range
- Variable port design allows efficient power consumption at different vacuum levels
- Due to twin inlets and the inner ring, the pump can be operated as two independent Vacuum Pumps of half the capacity at different vacuum levels.
- Enhanced capacity can be achieved when handling saturated gas by using inlet spray nozzles provided near the suction flanges of the pump.
- All components are 100% interchangeable with *NASH CL series
- Standard material of construction is Cast Iron, also available in SS 304 and SS 316

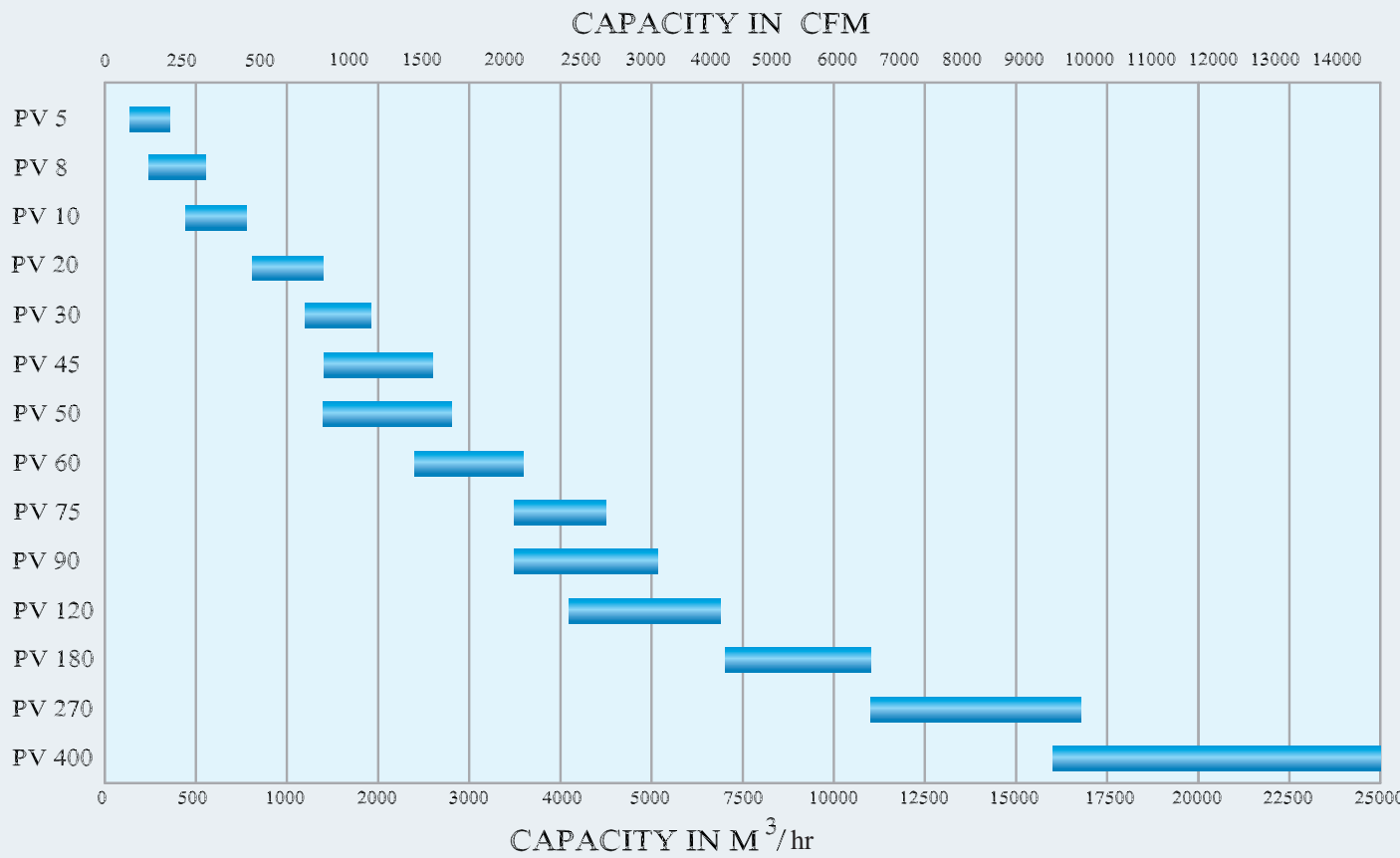
Constructional Features

Body, Heads & Cones are made of close grained heavy duty Cast Iron, Rotor is made of Spheroidal Graphite (SG) Iron free from cavities and blow holes. The Shaft is made of Carbon Steel and carries the one and only moving part, the Rotor which is dynamically balanced for a vibration free running. The Shaft is carried on both the ends by bearings which maintain the close running clearance between working parts throughout the working life of the Pump.

Bearings are grease lubricated before shipment and require no further lubrication for approximately six months.

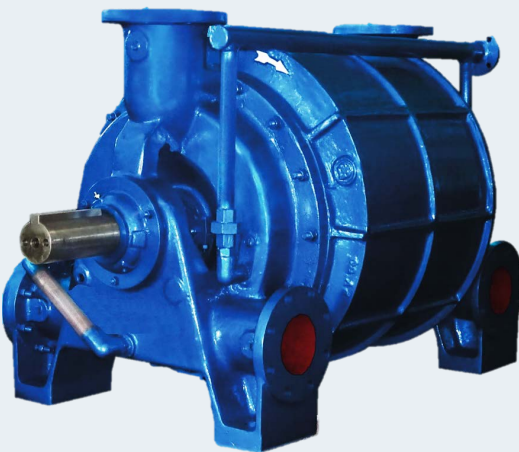
The pumps can also be supplied with contact parts in solid or clad SS 304 and SS 316.

Performance Data



The above graph is only indicative, refer to the individual performance curve for Pump selection

Equivalent Chart



MXQ	*NASH	MXQ	*NASH
PV 5	CL 200	PV 60	CL 2000
PV 8	CL 300	PV 75	-
PV 10	CL 400	PV 90	CL 3000
PV 20	CL 700	PV 120	CL 4000
PV 30	CL 1000	PV 180	CL 6000
PV 45	-	PV 270	CL 9000
PV 50	CL 1500	PV 400	CL 14000

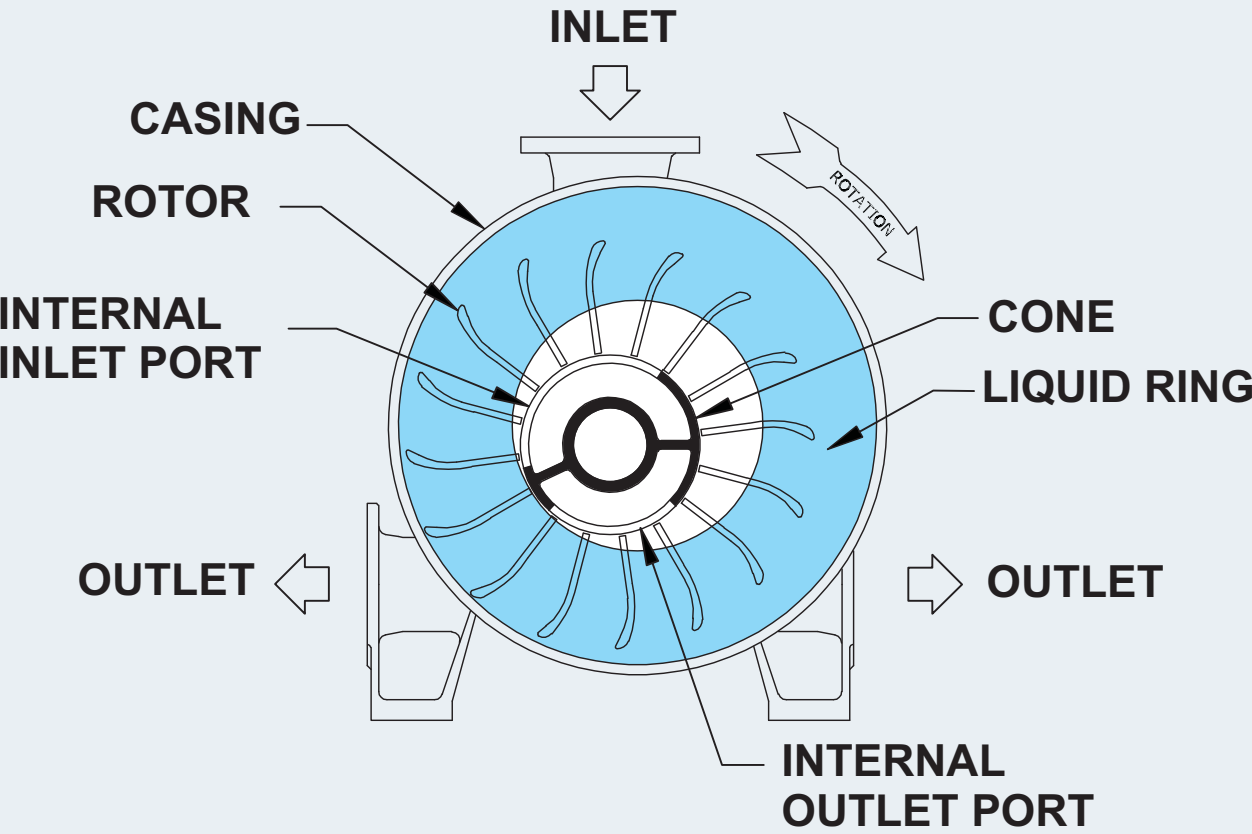
APPLICATIONS

- ❖ Pulp & Paper Industry
- ❖ Power Plants
- ❖ Chemical & Pharmaceutical Industry
- ❖ Textile Industry
- ❖ Food and Beverages
- ❖ Sugar Industry
- ❖ Fertilizer Plants
- ❖ Other Process Industries

* Gardner Denver Nash® is a registered trademark of their respective original manufacturing pump company, none of which have any affiliation with MXQ LLC

Principle Of Operation

The Liquid Ring Vacuum Pump is a specific form of rotary positive displacement pump utilizing liquid as the principal element in air compression. The compression is performed by a ring of liquid formed as a result of the relative eccentricity between the pump's casing and a rotating multi vane rotor. The eccentricity results in a near complete filling, and then partial emptying, of each rotor chamber during every revolution. The filling and emptying actions create a piston action within each set of rotor vanes.



The pump's components are positioned in such a manner as to admit air when the rotor chamber is emptying the liquid, and then allowing the air to discharge once compression is completed. Sealing areas between the suction and discharge ports are provided, to close the rotor areas, and to separate the inlet and outlet flows.