SK 2SK Liquid Ring Vacuum Pump

APPLICATIONS

Liquid ring vacuum pumps are the ideal for specific, humid, dirty or high capacity applications in heavy industries, a selection of which can be found below. The 2BV, SK and 2SK series are the workhorses: proven, strong and reliable machines that deliver utility or process vacuum.
2BV SK and 2SK series pumps are therefore suitable for use in the

- General manufacturing
- Food processing
- Paint industry
- Chemical industry
- Paper and allied products
- Brick extrusion
- Automotive industry
- Cement and allied products
- Metalwork industry
- Petroleum industry
- Mining
- Oil and gas
- Plastics
- Textile industry
- Power and utilities

FEATURES

Models 2BV and SK are single stage liquid ring vacuum pumps.
Model 2SK is double stages liquid ring vacuum pump.
The liquid-ring vacuum pump compresses gas by rotating a vaned impeller within a cylindrical casing. Liquid (usually water) is fed into the pump, and by centrifugal acceleration, forms a moving cylindrical ring against the inside of the casing. This liquid ring creates a series of seals in the space between the impeller vanes, which form compression chambers. The eccentricity between the impeller's axis of rotation and the casing geometric axis results in a cyclic variation of the volume enclosed by the vanes and the ring. Gas, often air, is drawn into the pump through an inlet port in the end of the casing. The gas is trapped in the compression chambers formed by the impeller vanes and the liquid ring. The reduction in volume caused by the impeller rotation compresses the gas, which reports to the discharge port in the end of the casing.
Compressed gas on discharge of pump contains certain amount of working liquid which is usually removed in vapor–liquid separator.




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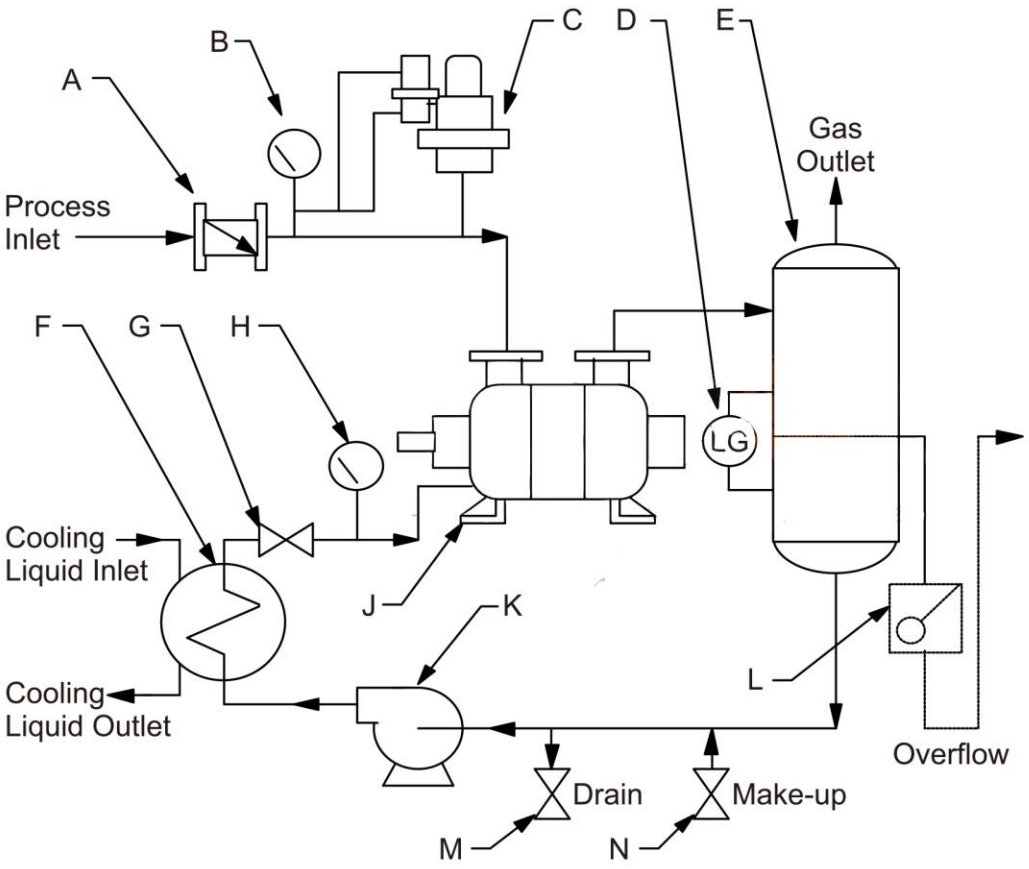
PUMP PERFORMANCE TABLE

Model	Size	Ultimate Vacuum	Maximum Air Flow	Motor	Speed	Water Consumption	Pump Diameter
		kpa	m^3/min	kW	Rpm	L/min	mm
2BV	2060	3.3	0.45	1.1	2880	2	25
	2061		0.87	1.5	2880	2	25
	2070		1.33	3	2880	2.5	40
	2071		1.83	4	2880	4.2	40
	5110		2.75	4	1450	7	50
	5111		3.83	5.5	1450	8.5	50
	5121		4.68	7.5	1450	10	65
	5131		6.68	11	1450	15	65
	5161		8.3	15	970	20	80
SK	1.5	8.3	1.5	4	1440	15	70
	3		3	5.5	1440.	20	70
	6		6	11	1440	30	80
	9		9	15	970	50	80
	12		12	18.5	970	50	80
	15		15	30	730	60	150
	20		20	37	730	60	150
	30		30	55	730	100	150
	42		42	75	730	130	150
2SK	1.5	3.3	1.5	4	1440	15	40
	3		3	7.5	1440	20	40
	6		6	15	1440	30	70
	9		9	18.5	970	50	100
	12		12	22	970	50	100
	15		15	37	730	60	100
	20		20	45	730	60	125
	30		30	55	730	100	125

GENERAL VACUUM SYSTEM WITH CLOSED LOOP-TOTAL RECOVERY ARRANGEMENT



Item	Description
A	Inlet Check Valve
B	Pressure Gauge (vacuum gauge for vacuum service or compound gauge for compressor service)
C	Vacuum Relief Valve (not required for compressor service)
D	Level Gauge
E	Separator
F	Service Liquid Cooler
G	Shut-off or Throttling Valve
H	Compound Gauge
J	Liquid Ring Pump
K	Recirculation Pump (recommended)
L	Trap or Loop Seal (required if discharge pressure is above atmospheric pressure)
M	Drain Valve
N	Make-Up Valve