

NASH NRV-0400, 0500, 0700, 0900

OIL-LUBRICATED ROTARY VANE VACUUM PUMP

Rotary vane pumps operate by expanding volume at the inlet and compressing that volume at the exhaust. This is accomplished by placing the rotor eccentrically inside of the cylindrical housing, such that it is nearly touching the housing at the top, and is distanced from the bottom, as can be seen in the graphic. This rotor houses the vanes, and when it spins, centrifugal force causes these vanes to be slung out of the grooves they sit in until they contact the cylinder wall.

When the vanes are in this extended position, they create an effective gas barrier that splits the pump cavity into multiple sections. As they rotate, the sections exposed to the inlet port will continually be expanding, and the sections exposed to the exhaust port will continually be contracting. This causes the process gas to be drawn into the inlet, compressed within the pump, and expelled out the exhaust port.

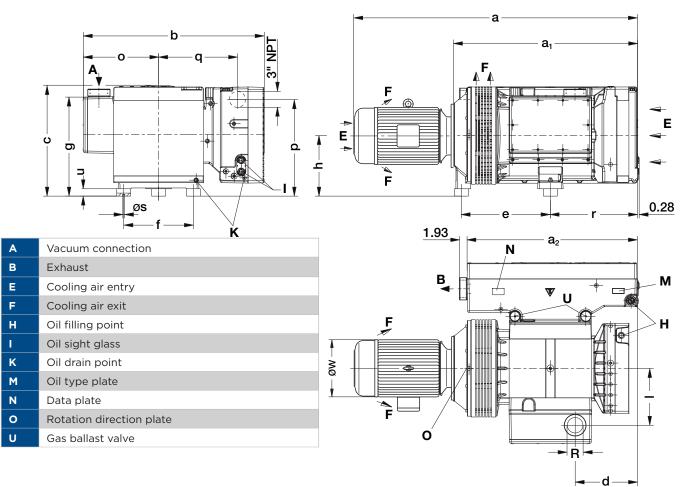
NRV		0400	0500	0700	0900
Nominal Capacity	acfm	283	388	494	586
Ultimate Vacuum	Torr	0.375			
Nominal Motor Power	hp	15	20	25	30
Speed	rpm	1140			
Average Noise Level	dB(A)	75	77	80	81
Weight	lbs	1283	1487	1580	1814
Oil Capacity	qt	12.0	17.5	17.5	20.0

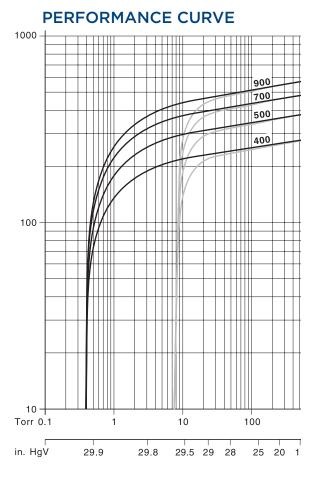
acfm* Relates to pump inlet conditions.

Curves, table contents (tolerance ±10%) refer to vacuum pump at normal operating temperature. The motor dimensions as well as the full load amperage may vary because of different motor manufacturers. Technical information is subject to change without notice.



DIMENSIONS





NRV	0400	0500	0700	0900
а	57.44	62.79	65.40	64.52
a,	34.06	39.41	40.12	39.29
a ₂	30.98	36.46	36.46	36.06
b	36.65	38.82	38.82	42.64
с	23.86	23.86	30.12	31.69
d	13.27	13.27	13.27	18.03
е	16.34	19.09	19.92	16.73
f	14.96	14.96	19.68	19.68
g	23.15	23.19	26.93	29.02
h	12.99	12.99	16.73	16.73
1	12.20	12.20	12.20	14.76
0	16.14	16.14	16.14	18.90
р	20.24	20.24	23.98	27.52
q	14.65	16.42	16.42	16.54
r	15.94	18.58	18.58	20.59
s	M 12	M 12	M 16	M 16
u	1.57	1.57	2.16	2.16
øw	15.29	15.29	17.35	17.35
R	3" NPT	3" NPT	3" NPT	4" NPT



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