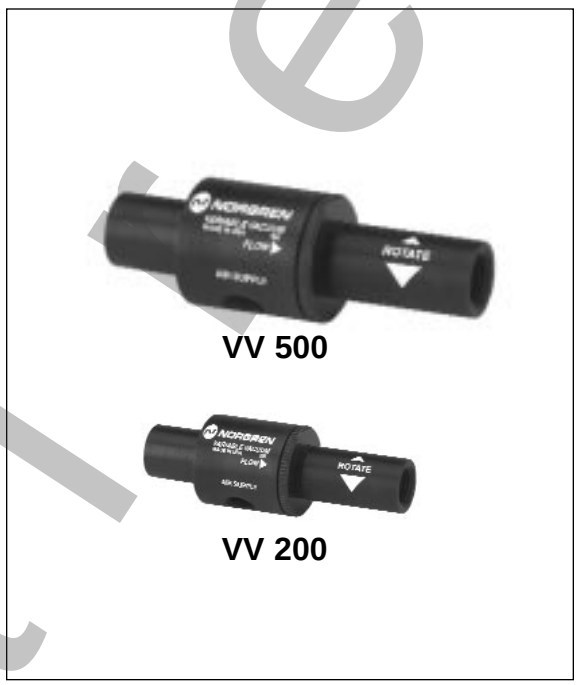
NORGREN

VV Series

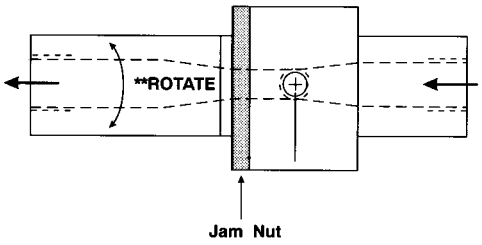
Variable Flow Vacuum Pumps

- **Vacuum flow rates of up to 120 SCFM, and vacuum levels of up to 25" Hg.**
- **Non-clogging, straight-through design.**
- **High performance to air consumption ratio.**
- **Field adjustable for your specific application.**
- **Can be used to pick and place concrete block, or packaging materials that are coated with fine powder.**
- **Commonly used in industrial air driven vacuum cleaners to remove liquid/solid mixtures from sump areas.**



Principles of Operation

The variable performance of the VV pump is achieved by increasing the annular gap between the venturi nozzle and the diffuser. Rotating the diffuser section counter-clockwise will increase the opening, allowing more compressed air to flow through the unit and increasing both the vacuum flow and the vacuum level. The result is a variable vacuum pump that can be adjusted to meet an application's exact requirements.



Performance Data

Model Number	Air Consumption vs. Vacuum Level ("Hg) @ 80 PSI					
	0"	5"	10"	15"	20"	25"
VV 100	0	.70	1.20	1.30	2.10	2.60
VV 150	0	1.30	1.70	2.40	3.20	4.50
VV 200	0	2.40	3.70	4.70	6.00	6.80
VV 250	0	4.00	6.00	8.30	9.70	12.00
VV 375	0	6.20	11.50	17.00	21.00	29.00
VV 500	0	12.00	22.00	28.00	33.00	45.00
VV 750	0	23.00	30.80	44.00	63.00	90.00

Recommended Silencer
ST4
ST4
ST4
ST4A
ST8B
ST12C
ST16C

Max Vacuum Flow SCFM*	Air Consumption SCFM*
2.60	1.30
3.20	1.50
6.00	3.00
10.00	6.00
30.00	13.00
60.00	25.00
120.00	40.00

* These values can be achieved at 15"Hg.

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All Dimensions in Inches (mm)

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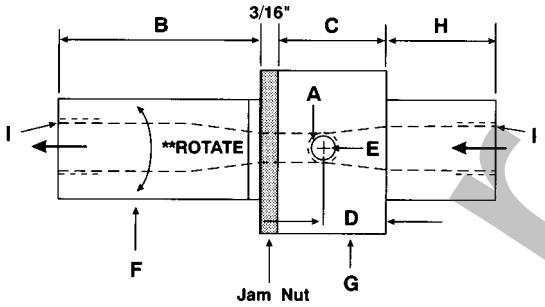

Specifications

Model	Dimensions										
	A Barrel ID	B	C Collar Length	D	E Input (NPTF)	F Barrel OD	G Collar OD	H	I Thread ID NPTF	Silencer	Silencer Length
VV 100	0.10 (25)	1.50 (38)	1.50 (38)	0.75 (19)	1/8	.75 (19)	1.25 (32)	0.88 (22)	1/4	NST4	2.50
VV 150	0.15 (4)	1.50 (38)	1.50 (38)	0.75 (19)	1/8	.75 (19)	1.25 (32)	0.88 (22)	1/4	NST4	2.50
VV 200	0.20 (5)	1.50 (38)	1.50 (38)	0.75 (19)	1/8	.75 (19)	1.25 (32)	0.88 (22)	1/4	NST4	2.50
VV 250	0.25 (6)	1.50 (38)	1.50 (38)	0.75 (19)	1/8	.75 (19)	1.25 (32)	0.88 (22)	1/4	NST4A	4.00
VV 375	0.38 (10)	2.75 (70)	1.75 (44)	0.88 (22)	3/8	1.0 (25)	1.50 (38)	1.50 (38)	1/2	NST8B	5.20
VV 500	0.50 (13)	2.50 (64)	2.0 (51)	1.0 (25)	3/8	1.25 (32)	2.0 (51)	1.50 (38)	3/4	NST12C	7.50
VV 750	0.75 (19)	3.38 (86)	2.0 (51)	1.0 (25)	1/2	1.50 (38)	2.25 (57)	1.50 (38)	1	NST16C	7.50