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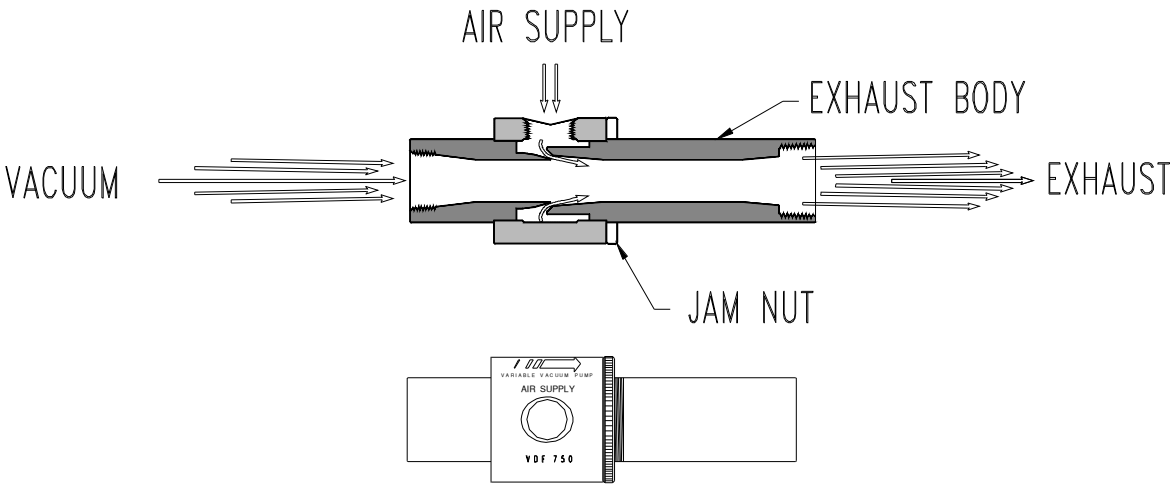
Operating Instructions for VDF Series Variable Flow Vacuum Pumps



How it works:

The variable performance of the VDF pump is achieved by increasing the annular gap between the venturi nozzle and the exhaust body. Rotating the exhaust body section counter-clockwise will increase the gap, allowing more compressed air to flow through the pump and increase 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.

Installation:

Step 1: Loosen jam nut by rotating counter-clockwise. Rotate exhaust body clockwise until closed, jam nut should be loose on exhaust body.

Step 2: Attach air line to air supply port. Vacuum line to vacuum port (when not directly attaching cup to pump). See chart on reverse side for minimum recommended sizes.

Step 3: Rotate exhaust body counter-clockwise to the desired vacuum level using rotation chart on reverse side. Charts are based on 80 and 60 PSI to provide a starting point. Pumps will achieve maximum vacuum levels at any pressure above 50 PSI (pressure regulator is not required).

Step 4: After achieving desired vacuum level, tighten jam nut by rotating clockwise.

Step 5: Turn on compressed air regulated at 80 PSI. VDF will generate vacuum.

Note: VDF 375 and larger, it may be necessary to turn compressed air off while making adjustments to relieve pressure on threads and make rotating easier.

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Model No.	Supply Port Threads	Recommended Air Supply Line	Vacuum Port Thread	Recommended Vacuum Line
VDF 100	1/8"NPT	3/8"	1/4"NPT	3/8"
VDF 150	1/8" NPT	3/8"	1/4"NPT	3/8"
VDF 200	1/8"NPT	3/8"	1/4"NPT	3/8"
VDF 250	1/8"NPT	3/8"	1/4"NPT	3/8"
VDF 375	3/8" NPT	1/2"	1/2"NPT	5/8"
VDF 500	3/8" NPT	1/2"	1/2"NPT	3/4" Hose
VDF 750	1/2"NPT	5/8"	3/4" NPT	1" Hose

Tubing size based on 0.062 wall polyethylene and polyurethane tubing.

Note: Vaccon discourages the use of quick disconnect fittings on all connections.

ROTATION CHARTS

	Degrees of Rotation vs Vacuum Level ("Hg) @ 80 PSI									
Model No.	**0"**	**3"**	**6"**	**9"**	**12"**	**15"**	**18"**	**21"**	**24"**	**25"**
VDF 100	0	30	60	100	115	120	125	130	134	135
VDF 150	0	80	90	105	120	135	145	150	160	165
VDF 200	0	90	105	120	150	160	170	175	185	190
VDF 250	0	100	140	180	195	210	250	275	340	355
VDF 375	0	60	90	100	125	155	180	195	220	230
VDF 500	0	80	130	170	200	260	340	390	460	490
VDF 750	0	95	170	260	350	450	540	630	710	730

Ex: A VDF 200 to be set at 21" Hg operating at 80 PSI would be rotated approximately 175 degrees from the closed position.

	Degrees of Rotation vs Vacuum Level ("Hg) @ 60 PSI									
Model No.	**0"**	**3"**	**6"**	**9"**	**12"**	**15"**	**18"**	**21"**	**24"**	**25"**
VDF 100	0	60	70	80	90	110	120	140	160	170
VDF 150	0	90	100	110	120	130	145	165	190	195
VDF 200	0	100	135	165	175	185	200	215	235	240
VDF 250	0	145	180	205	260	320	370	440	510	530
VDF 375	0	65	90	115	165	190	210	255	290	300
VDF 500	0	100	170	190	260	360	420	480	560	600
VDF 750	0	145	260	350	475	610	730	1080	1370	1440

Ex: A VDF 200 to be set at 21" Hg operating at 60 PSI would be rotated approximately 215 degrees from the closed position.

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