# Variable Vacuum/Variable Flow, Extremely Dirt Tolerant Venturi Vacuum Pumps

## VDF Series

*VDF-375-ST8B picks and places refrac bricks used to line refractory ovens.*

CONFIGURE AND ORDER ON-LINE
Click Here

*VDF 150-ST4*

## Ideal Applications

**Ideal for dirty, dusty environments; the VDF holds porous materials securely:**

- Pick & place
- Vacuum filling – Liquids and powders
- Vacuum packaging – Coated materials
- Bag/box opening
- Material handling

## Features/Benefits

- **Adjustable vacuum level or flow rate:**
  - ~ Powerful vacuum up to 25"Hg [847mbar]
  - ~ High flow rates up to 120 SCFM [3398 LPM]
- **Energy efficient – customer controlled – high performance to air consumption ratio**
- **Safe Operation:**
  - ~ No electricity needed at the pump
  - ~ No heat generated
- **Reliable, trouble-free operation:**
  - ~ Straight-through design, non-clogging
  - ~ No moving parts to wear
  - ~ No flap valves to stick open
  - ~ No maintenance
  - ~ No downtime
- **Preset & Forget**

## Standard Pump:

The VDF Series is a unique Vaccon innovation that places the vacuum port and exhaust path inline making a straight-through venturi vacuum pump. These compact pumps offer high flow rates up to 120 SCFM [3400 LPM] and high vacuum levels up to 25"Hg [847mbar].

Developed for extremely dirty and dusty environments such as foundries, refractory and bagging operations, VDF pumps don't clog, lose suction or require a vacuum filter.

Standard VDF pumps are field-adjustable allowing you to regulate the vacuum flow and vacuum level to meet your application requirements. This maximizes energy efficiency by consuming only the compressed air necessary to do the job. A pressure regulator is not required as the pump can be tuned to operate at any pressure above 50 PSI [3.5 bar].

For applications requiring a fixed vacuum level, Vaccon offers preset and permanently locked VDF pumps at customer specified vacuum settings (10-25"Hg/339-847mbar). Vaccon's preset VDF pumps are "pinned" at the factory for consistent and tamper-proof operations.*

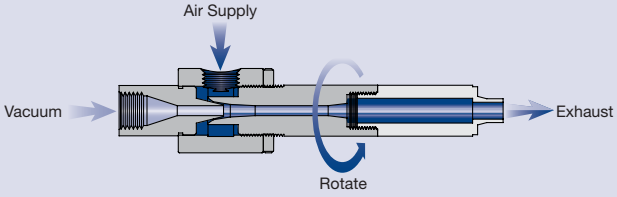
**NOTE: Preset pumps are customer specific and are, therefore, non-returnable.*

## Pump Options:

- ST Silencers – straight through silencers won't clog
- G port threads for metric machines – an "I" prefix designates products with metric threads
- Choice of operating pressures: operates at any pressure above 50 PSI [3.5 bar]
- Preset fixed vacuum levels- 10-25"Hg [339-847mbar]*
- For chemical compatibility requirements, high temperature, food, medical and caustic applications, custom materials are available including stainless steel, PEEK, Delrin,™ Teflon,™ PVC.

## Principles of Operation:

Changing the annular gap between the venturi nozzle and the diffuser varies the performance of the VDF pump. Rotating the diffuser section counter clockwise enlarges the opening, allowing more compressed air to flow through the pump and thereby increasing both the vacuum flow and the vacuum level. Likewise, rotating the diffuser section clockwise reduces the opening, allowing less compressed air to flow through the pump and thereby decreasing both the vacuum flow and the vacuum level. The result is a variable vacuum pump—adjustable to meet your exact application requirements.




**Eliminate the Guesswork: Contact Us!**

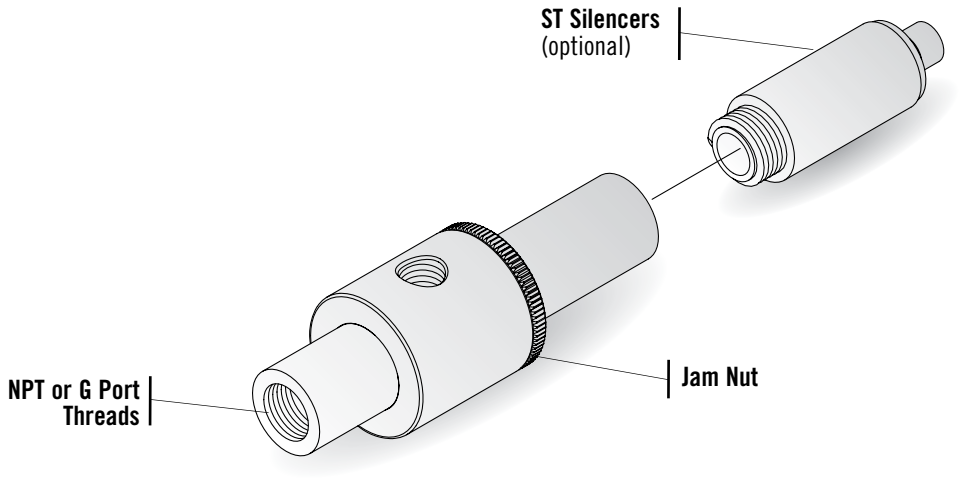
Vacuum technology isn't an exact science. To ensure proper product selection, Vaccon offers free application engineering assistance, a 30 Day Test & Evaluation Program or you can send sample products to our in-house test facility and we will test and size a pump for you.

To download a complete set of drawings in 13 different CAD formats, please visit our website at **www.vaccon.com**

For more information or technical assistance, please call **508-359-7200** or **800-848-8788** or email **engineering@vaccon.com**

## VDF Series Configurations and Options:

All Vaccon pumps offer a variety of options and accessories to meet your specific requirements. Please configure your pump from the options listed below.






## How to Specify:

**VDF 250 - ST4A2 - P20 -** ____

| P/N | Imperial Thread | Silencer* |
|---|---|---|
| VDF 100 | NPT | ST4 |
| VDF 150 | NPT | ST4 |
| VDF 200 | NPT | ST4 |
| VDF 250 | NPT | ST4A2 |
| VDF 375 | NPT | ST8B |
| VDF 500 | NPT | ST12C |
| VDF 750 | NPT | ST16C |

| P/N | Metric Thread | Silencer* |
|---|---|---|
| I-VDF 100 | G Port | ST4 |
| I-VDF 150 | G Port | ST4 |
| I-VDF 200 | G Port | ST4 |
| I-VDF 250 | G Port | ST4A2 |
| I-VDF 375 | G Port | ST8B |
| I-VDF 500 | G Port | ST12C |
| I-VDF 750 | G Port | ST16C |

*Vaccon strongly recommends the use of silencers on all pumps except where the exhaust is plumbed away.

| P/N | Material |
|---|---|
| | Anodized Aluminum (Standard) |
| 303 | 303 Stainless Steel |
| 304 | 304 Stainless Steel |
| 316 | 316 Stainless Steel |
| 316L | 316 Low Carbon Stainless |
| PVC | PVC |
| TEF | PTFE |
| PK | PEEK |
| DEL | Delrin |

**Optional Preset Vacuum Level†**
Indicate 10-25"Hg (339-847 mbar)

†**Note:** Preset pumps are customer specific and are, therefore, non-returnable.

*For complete Performance Data, see page 177.*

## VDF Series Vacuum Pump Standard Specifications:

**Body Material:** Anodized Aluminum Standard (For silencer material - See page 245)
**Medium:** Filtered (50 Micron) un-lubricated, non-corrosive dry gases
**Operating Temperature:** -100° to ~ 400° F [-73° to ~204°C]
**Operating Pressure:** Above 50 PSI [3.4 bar]

## VDF Series Vacuum Pump Installation Requirements:

| Model #: | VDF 100, 150, 200, 250 | VDF 375 | VDF 500 | VDF 750 |
|---|---|---|---|---|
| Air Supply Line - Tubing† | 3/8" [10mm] | 1/2" [12mm] | 1/2" [12mm] | 5/8" [16mm] |
| Vacuum Line - Tubing† | 3/8" [10mm] | 5/8" [16mm] | 3/4" [19mm] ID Hose | 1.0" [5mm] ID Hose |

†Tubing size is based on 0.062 wall – polyethylene & polyurethane.

## Standard Pump: VDF Series (100, 150, 200, 250, 375, 500, 750) with Optional ST Silencers

*VDF 100, 150, 200*

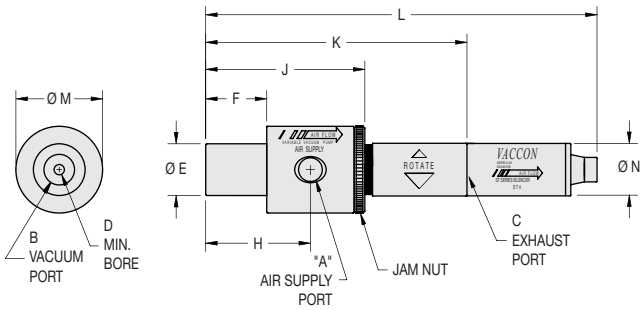
*VDF 250*

*VDF 375*

*VDF 500*

*VDF 750*

*Vaccon strongly recommends the use of silencers on all pumps except where the exhaust is plumbed away.*




| Model # | VDF Series – Imperial Dimensions (in.) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | H | J | K | L | M | N | Weight |
| VDF 100 | 1/8 NPT F | 1/4 NPT F | 1/4 NPT F | 0.13 | 0.74 | 0.87 | 1.50 | 2.27 | 3.73 | | 1.24 | | 3.7 oz |
| VDF 100-ST4 | 1/8 NPT F | 1/4 NPT F | 1/4 NPT F | 0.13 | 0.74 | 0.87 | 1.50 | 2.27 | 3.73 | 5.60 | 1.24 | 0.75 | 4.3 oz |
| VDF 150 | 1/8 NPT F | 1/4 NPT F | 1/4 NPT F | 0.15 | 0.74 | 0.87 | 1.50 | 2.27 | 3.73 | | 1.24 | | 3.7 oz |
| VDF 150-ST4 | 1/8 NPT F | 1/4 NPT F | 1/4 NPT F | 0.15 | 0.74 | 0.87 | 1.50 | 2.27 | 3.73 | 5.60 | 1.24 | 0.75 | 4.3 oz |
| VDF 200 | 1/8 NPT F | 1/4 NPT F | 1/4 NPT F | 0.19 | 0.74 | 0.87 | 1.50 | 2.27 | 3.73 | | 1.24 | | 3.7 oz |
| VDF 200-ST4 | 1/8 NPT F | 1/4 NPT F | 1/4 NPT F | 0.19 | 0.74 | 0.87 | 1.50 | 2.27 | 3.73 | 5.60 | 1.24 | 0.75 | 4.3 oz |
| VDF 250 | 1/8 NPT F | 1/4 NPT F | 1/4 NPT F | 0.27 | 0.74 | 0.87 | 1.50 | 2.27 | 3.73 | | 1.24 | | 3.6 oz |
| VDF 250- ST4A2 | 1/8 NPT F | 1/4 NPT F | 1/4 NPT F | 0.27 | 0.74 | 0.87 | 1.50 | 2.27 | 3.73 | 6.29 | 1.24 | 1.00 | 5.0 oz |
| VDF 375 | 3/8 NPT F | 1/2 NPT F | 1/2 NPT F | 0.38 | 0.99 | 1.50 | 2.37 | 3.45 | 6.04 | | 1.74 | | 9.7 oz |
| VDF 375-ST8B | 3/8 NPT F | 1/2 NPT F | 1/2 NPT F | 0.38 | 0.99 | 1.50 | 2.37 | 3.45 | 6.04 | 10.84 | 1.74 | 1.25 | 12.7 oz |
| VDF 500 | 3/8 NPT F | 1/2 NPT F | 3/4 NPT F | 0.50 | 1.24 | 1.50 | 2.50 | 3.70 | 6.06 | | 1.97 | | 14.3 oz |
| VDF 500-ST12C | 3/8 NPT F | 1/2 NPT F | 3/4 NPT F | 0.50 | 1.24 | 1.50 | 2.50 | 3.70 | 6.06 | 13.00 | 1.97 | 2.00 | 1 lb 6 oz |
| VDF 750 | 1/2 NPT F | 3/4 NPT F | 1 NPT F | 0.75 | 1.49 | 1.50 | 2.50 | 3.70 | 6.95 | | 2.22 | | 1 lb 3 oz |
| VDF 750-ST16C | 1/2 NPT F | 3/4 NPT F | 1 NPT F | 0.75 | 1.49 | 1.50 | 2.50 | 3.70 | 6.95 | 13.88 | 2.22 | 2.00 | 1 lb 11 oz |

| Model # | VDF Series – Metric Dimensions (mm.) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | H | J | K | L | M | N | Weight |
| I-VDF 100 | G 1/8 | G 1/4 | G 1/4 | 3.2 | 18.8 | 22.1 | 38.1 | 57.7 | 94.7 | | 31.5 | | 105 g |
| I-VDF 100-ST4 | G 1/8 | G 1/4 | G 1/4 | 3.2 | 18.8 | 22.1 | 38.1 | 57.7 | 94.7 | 142.2 | 31.5 | 19.1 | 122 g |
| I-VDF 150 | G 1/8 | G 1/4 | G 1/4 | 3.7 | 18.8 | 22.1 | 38.1 | 57.7 | 94.7 | | 31.5 | | 105 g |
| I-VDF 150-ST4 | G 1/8 | G 1/4 | G 1/4 | 3.7 | 18.8 | 22.1 | 38.1 | 57.7 | 94.7 | 142.2 | 31.5 | 19.1 | 122 g |
| I-VDF 200 | G 1/8 | G 1/4 | G 1/4 | 4.8 | 18.8 | 22.1 | 38.1 | 57.7 | 94.7 | | 31.5 | | 105 g |
| I-VDF 200-ST4 | G 1/8 | G 1/4 | G 1/4 | 4.8 | 18.8 | 22.1 | 38.1 | 57.7 | 94.7 | 142.2 | 31.5 | 19.1 | 122 g |
| I-VDF 250 | G 1/8 | G 1/4 | G 1/4 | 6.7 | 18.8 | 22.1 | 38.1 | 57.7 | 94.7 | | 31.5 | | 102 g |
| I-VDF 250-ST4A2 | G 1/8 | G 1/4 | G 1/4 | 6.7 | 18.8 | 22.1 | 38.1 | 57.7 | 94.7 | 159.8 | 31.5 | 25.4 | 142 g |
| I-VDF 375 | G 3/8 | G 1/2 | G 1/2 | 9.5 | 25.1 | 38.1 | 60.2 | 87.6 | 153.4 | | 44.2 | | 275 g |
| I-VDF 375-ST8B | G 3/8 | G 1/2 | G 1/2 | 9.5 | 25.1 | 38.1 | 60.2 | 87.6 | 153.4 | 275.3 | 44.2 | 31.8 | 360 g |
| I-VDF 500 | G 3/8 | G 1/2 | G 3/4 | 12.7 | 31.5 | 38.1 | 63.5 | 94.0 | 153.9 | | 50.0 | | 405 g |
| I-VDF 500-ST12C | G 3/8 | G 1/2 | G 3/4 | 12.7 | 31.5 | 38.1 | 63.5 | 94.0 | 153.9 | 330.2 | 50.0 | 50.8 | 618 g |
| I-VDF 750 | G 1/2 | G 3/4 | G 1 | 19.1 | 37.8 | 38.1 | 63.5 | 94.0 | 176.5 | | 56.4 | | 544 g |
| I-VDF 750-ST16C | G 1/2 | G 3/4 | G 1 | 19.1 | 37.8 | 38.1 | 63.5 | 94.0 | 176.5 | 352.6 | 56.4 | 50.8 | 763 g |

## VDF Series Performance Chart

| Model # | Imperial - Vacuum Flow (SCFM) vs Vacuum Level ("Hg) with VDF set at 25"Hg | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0"Hg | 3"Hg | 6"Hg | 9"Hg | 12"Hg | 15"Hg | 18"Hg | 21"Hg | 24"Hg | 25"Hg |
| VDF 100 | 2.00 | 1.80 | 1.60 | 1.40 | 1.30 | 1.20 | 1.10 | 0.75 | 0.25 | 0.00 |
| VDF 150 | 3.20 | 2.80 | 2.50 | 2.20 | 1.80 | 1.60 | 1.30 | 0.90 | 0.40 | 0.00 |
| VDF 200 | 6.00 | 5.60 | 5.00 | 4.20 | 3.60 | 3.00 | 2.60 | 1.80 | 0.90 | 0.00 |
| VDF 250 | 10.00 | 9.20 | 8.30 | 7.50 | 6.60 | 5.80 | 5.20 | 3.80 | 1.30 | 0.00 |
| VDF 375 | 30.00 | 27.00 | 25.00 | 23.00 | 21.00 | 18.00 | 16.00 | 11.00 | 3.00 | 0.00 |
| VDF 500 | 60.00 | 52.00 | 45.00 | 41.00 | 38.00 | 35.00 | 28.00 | 19.00 | 5.00 | 0.00 |
| VDF 750 | 120.00 | 99.00 | 83.00 | 74.00 | 62.00 | 51.00 | 46.00 | 34.00 | 9.00 | 0.00 |

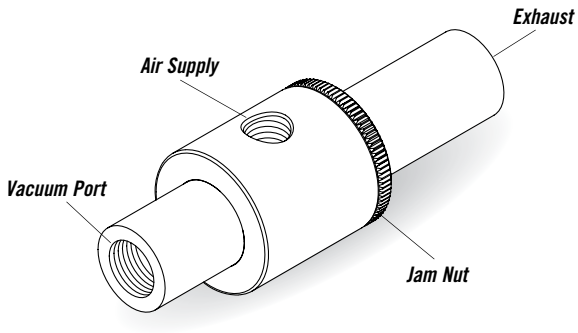
| Model # | Imperial - Evacuation Time (seconds) based on 1 cu. ft. volume with VDF set at 25"Hg | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0"Hg | 3"Hg | 6"Hg | 9"Hg | 12"Hg | 15"Hg | 18"Hg | 21"Hg | 24"Hg | 25"Hg |
| VDF 100 | 0.00 | 3.34 | 7.95 | 13.60 | 20.53 | 28.48 | 38.74 | 53.88 | 84.15 | 104.94 |
| VDF 150 | 0.00 | 2.57 | 5.90 | 10.00 | 15.39 | 22.06 | 31.05 | 46.18 | 75.69 | 97.50 |
| VDF 200 | 0.00 | 1.03 | 2.57 | 4.11 | 6.41 | 9.49 | 13.34 | 19.50 | 31.05 | 38.23 |
| VDF 250 | 0.00 | 0.51 | 1.03 | 1.80 | 2.82 | 4.11 | 5.90 | 9.75 | 17.19 | 21.55 |
| VDF 375 | 0.00 | 0.00 | 0.51 | 1.03 | 1.28 | 2.05 | 3.08 | 4.87 | 8.47 | 12.83 |
| VDF 500 | 0.00 | 0.00 | 0.21 | 0.48 | 0.73 | 1.08 | 1.54 | 2.73 | 4.45 | 6.92 |
| VDF 750 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.38 | 0.70 | 1.09 | 3.07 | 5.38 |

| Model # | Metric - Vacuum Flow (LPM) vs Vacuum Level (mbar) with VDF set at 846 mbar | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0 mbar | 102 mbar | 203 mbar | 305 mbar | 406 mbar | 508 mbar | 609 mbar | 711 mbar | 813 mbar | 846 mbar |
| I-VDF 100 | 56.6 | 51.0 | 45.3 | 39.6 | 36.8 | 34.0 | 31.2 | 21.2 | 7.1 | 0.00 |
| I-VDF 150 | 90.6 | 79.3 | 70.8 | 62.3 | 51.0 | 45.3 | 36.8 | 25.5 | 11.3 | 0.00 |
| I-VDF 200 | 169.9 | 158.6 | 141.6 | 118.9 | 102.0 | 85.0 | 73.6 | 51.0 | 25.5 | 0.00 |
| I-VDF 250 | 283.2 | 260.5 | 235.1 | 212.4 | 186.9 | 164.3 | 147.3 | 107.6 | 36.8 | 0.00 |
| I-VDF 375 | 849.6 | 764.6 | 708.0 | 651.4 | 594.7 | 509.8 | 453.1 | 311.5 | 85.0 | 0.00 |
| I-VDF 500 | 1699.2 | 1472.6 | 1274.4 | 1161.1 | 1076.2 | 991.2 | 793.0 | 538.1 | 141.6 | 0.00 |
| I-VDF 750 | 3398.4 | 2803.7 | 2350.6 | 2095.7 | 1755.8 | 1444.3 | 1302.7 | 962.9 | 254.9 | 0.00 |

| Model # | Metric - Evacuation Time (seconds) based on 1 liter volume with VDF set at 846 mbar | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0 mbar | 102 mbar | 203 mbar | 305 mbar | 406 mbar | 508 mbar | 609 mbar | 711 mbar | 813 mbar | 846 mbar |
| I-VDF 100 | 0.00 | 0.1 | 0.3 | 0.5 | 0.7 | 1.0 | 1.4 | 1.9 | 3.0 | 3.7 |
| I-VDF 150 | 0.00 | 0.1 | 0.2 | 0.4 | 0.5 | 0.8 | 1.1 | 1.6 | 2.7 | 3.4 |
| I-VDF 200 | 0.00 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 1.1 | 1.3 |
| I-VDF 250 | 0.00 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.6 | 0.8 |
| I-VDF 375 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 |
| I-VDF 500 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 |
| I-VDF 750 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 |

**Note:** Evacuation speed is linear with volume i.e. a two cu. ft. volume will take twice as long as a one cu ft volume to evacuate.

## VDF Series Operating Instructions




### Standard VDF Operating Instructions: Adjustable

1. Loosen jam nut by rotating counter-clockwise.
2. Rotate exhaust body clockwise until closed, jam nut should be loose on exhaust body.
3. Attach air line to air supply port and vacuum line to vacuum port or connect cup to port. See chart on page 173 for minimum recommended line sizes.
4. Turn on compressed air.
5. Rotate exhaust body counter-clockwise to the desired vacuum level using rotation chart on page 177. Charts are based on 80 PSI [5.5 bar] and 60 PSI [4.1 bar] to provide a starting point. Pumps will achieve maximum vacuum levels at any pressure above 50 PSI [3.4 bar] (pressure regulator is not required).
6. After achieving desired vacuum level, tighten jam nut by rotating clockwise.

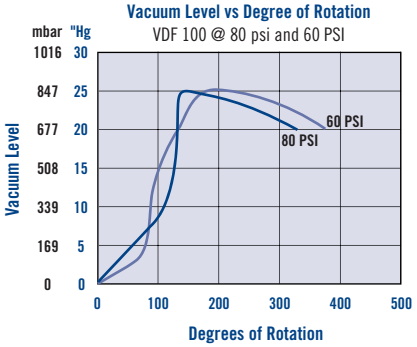
* **Note 1:** Maximum vacuum flow is achieved at 15"Hg.
**Note 2:** Further rotation will increase the vacuum level, while the flow remains constant.
**Note 3:** VDF 375 and larger, it may be necessary to turn compressed air off while making adjustments to relieve pressure on threads and make rotating easier.
**Note 4:** **"**Preset" VDF's are permanently locked at the factory at a customer specified vacuum level and are not adjustable.

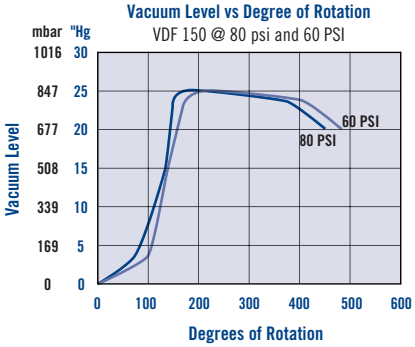
| Model # | Max Vacuum Flow SCFM* | Air Consumption SCFM** |
|---|---|---|
| VDF 100 | 2.00 | 1.30 |
| VDF 150 | 3.20 | 2.40 |
| VDF 200 | 6.00 | 4.70 |
| VDF 250 | 10.00 | 8.30 |
| VDF 375 | 30.00 | 17.00 |
| VDF 500 | 60.00 | 28.00 |
| VDF 750 | 120.00 | 44.00 |

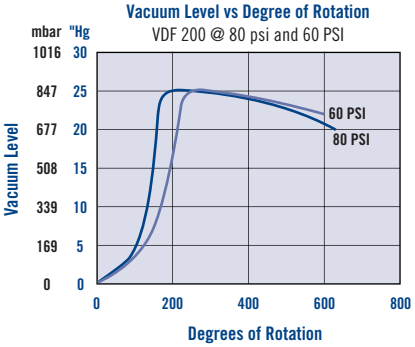
| Model # | Max Vacuum Flow LPM* | Air Consumption LPM** |
|---|---|---|
| I-VDF 100 | 56.6 | 36.8 |
| I-VDF 150 | 90.6 | 68.0 |
| I-VDF 200 | 169.9 | 133.1 |
| I-VDF 250 | 283.2 | 235.1 |
| I-VDF 375 | 849.6 | 481.4 |
| I-VDF 500 | 1699.2 | 793.0 |
| I-VDF 750 | 3398.4 | 1246.1 |

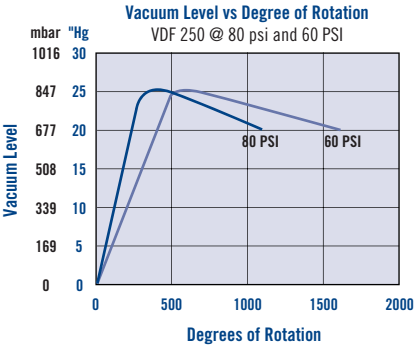
** These values are achieved when pumps are set to 15"Hg [

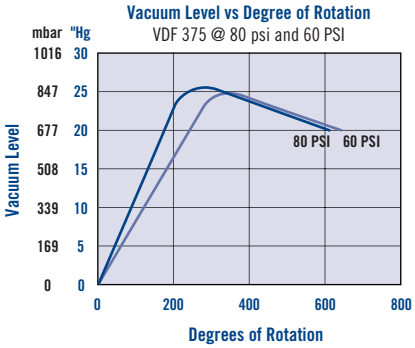
## Vacuum Level vs. Degree of Rotation

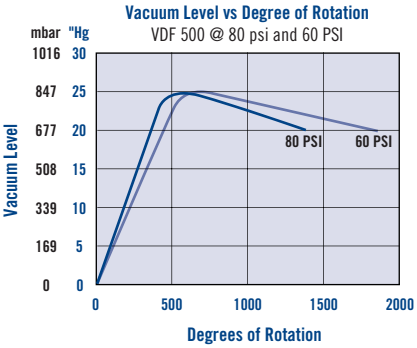


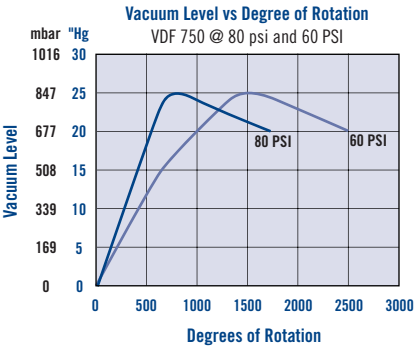



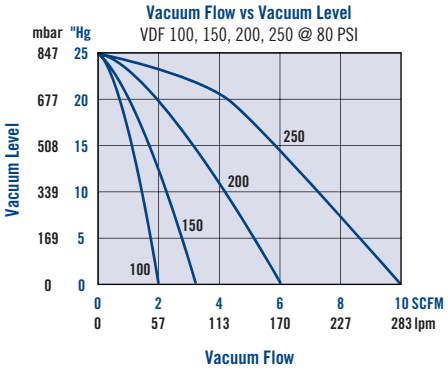

## Rotational Chart

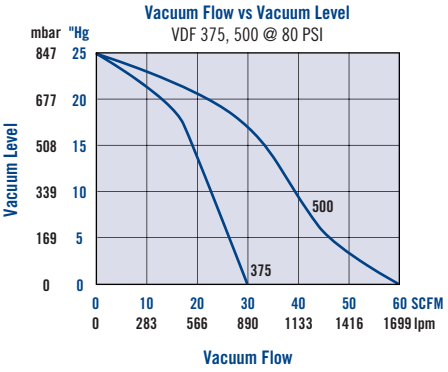
| Degrees of Rotation vs. Vacuum Level "Hg @ 80 PSI | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Model #** | 0" | 3" | 6" | 9" | 12" | 15" | 18" | 21" | 24" | 25" |
| **VDF 100** | 0 | 30 | 60 | 100 | 115 | 120 | 125 | 130 | 134 | 135 |
| **VDF 150** | 0 | 80 | 90 | 105 | 120 | 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 |

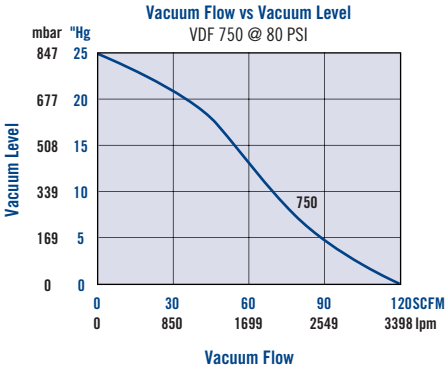
| Degrees of Rotation vs. Vacuum Level "Hg @ 60 PSI | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0" | 3" | 6" | 9" | 12" | 15" | 18" | 21" | 24" | 25" |
| 0 | 60 | 70 | 80 | 90 | 110 | 120 | 140 | 160 | 170 |
| 0 | 90 | 100 | 110 | 120 | 130 | 145 | 165 | 19-0 | 195 |
| 0 | 100 | 135 | 165 | 175 | 185 | 200 | 215 | 235 | 240 |
| 0 | 145 | 180 | 205 | 260 | 320 | 370 | 440 | 510 | 530 |
| 0 | 65 | 90 | 115 | 165 | 190 | 210 | 255 | 290 | 300 |
| 0 | 100 | 170 | 190 | 260 | 360 | 420 | 480 | 560 | 600 |
| 0 | 145 | 260 | 350 | 475 | 610 | 730 | 1080 | 1370 | 1440 |

**Note:** All degrees of rotation are approximate. For example: At 80 PSI, a VDF 200 to be set at 21"Hg would be rotated approximately 175° from the closed position.

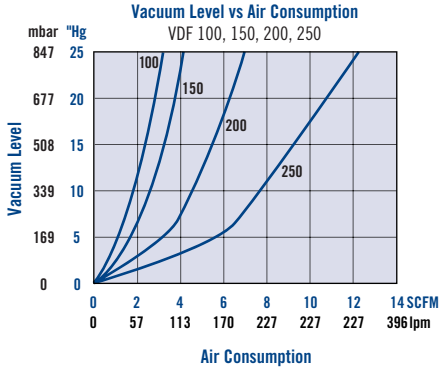
## VDF Series – Vacuum Flow vs. Vacuum Level

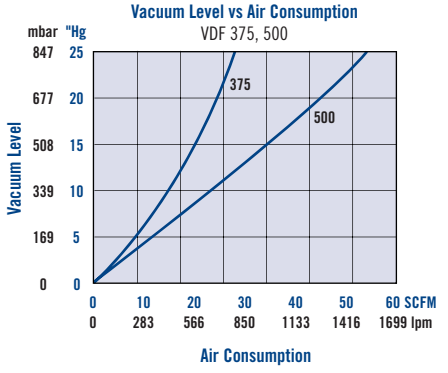


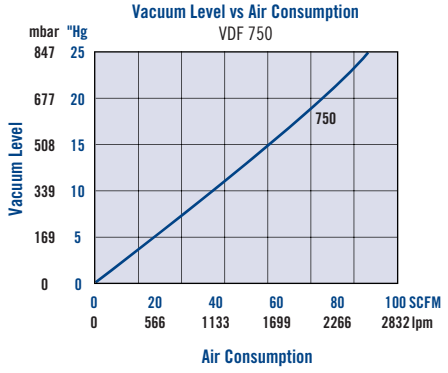




## VDF Series – Vacuum Level vs. Air Consumption




**Note:** The graphs were generated by presetting the pumps to their maximum vacuum level.

| VDF Series – Noise Levels at 80 PSI | | | | | |
|---|---|---|---|---|---|
| Model # | Silencer Options | | | | |
| | | With Silencer | | Without Silencer | |
| | Silencer # | Open Flow | Sealed Vacuum | Open Flow | Sealed Vacuum |
| VDF 100 | ST4 | 70db | 68db | 88db | 76db |
| VDF 150 | ST4 | 74db | 68db | 88db | 90db |
| VDF 200 | ST4 | 78db | 80db | 86db | 100db |
| VDF 200 | ST4A | 76db | 80db | 86db | 100db |
| VDF 250 | ST4A | 82db | 80db | 90db | 100db |
| VDF 250 | ST4A2 | 84db | 82db | 90db | 100db |
| VDF 375 | ST8B | 88db | 82db | 102db | 104db |
| VDF 500 | ST12C | 82db | 78db | 96db | 100db |
| VDF 750 | ST16C | 98db | 88db | 112db | 108db |

# Custom VDF Series

*Ideal for OEM engineers and designers*

***Creative Engineering • Precision Manufacturing • Extensive Application Experience***

**When off the shelf doesn't work, Vaccon's engineering expertise and manufacturing capabilities can provide custom solutions to your specifications.**

**Whether it's as simple as modifying a standard product, or more complex, requiring new products with precise tolerences, or special materials, Vaccon has the solution.**

## Specialty Materials:

For chemical compatibility requirements, high temperature, food, medical and caustic applications, custom materials are available including stainless steel, PEEK, Delrin,™ Teflon,™ PVC.

## VDF 500-61:

Used as a hand held vacuum pump to allow an operator to wind continuous flowing filament onto drive pulleys and the shipping spool. The high flow and high vacuum creates the necessary tension on the filament strand to maintain filament production line speed. The added length on the vacuum side makes it easier for the operator to wind the filament through the drive pulley system.


## VDF 750P:

A standard pump that was made without inlet or exhaust threads and comes complete with a bolt circle for easy installation into the head of industrial vacuum cleaners or other enclosures.

The adjustable feature allows each manufacturer to determine the maximum vacuum level for their equipment to ensure that the container does not implode.

***When size, shape, material and performance matter, it's Vaccon Vacuum Pumps.***