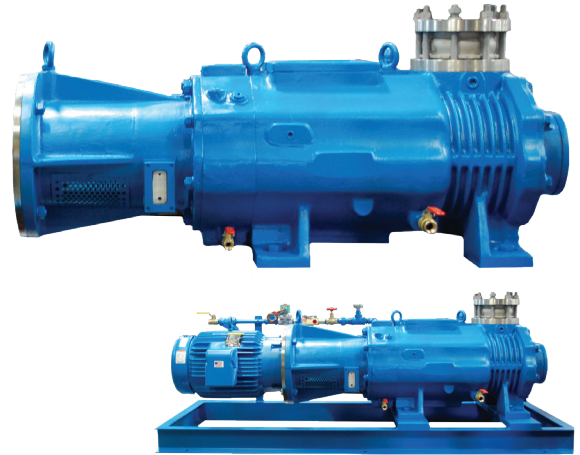


## Models

SDV-320    SDV-430

## Features

- Patented variable pitch rotor design
- Lower gas discharge temperatures – no cooling purges needed
- No oil or water in contact with process gases
- No metal-to-metal contact between operating parts
- Space saving C-face motor design eliminates need for motor coupling and guard
- Short gas path through the pump for quick discharge
- Quiet operation ≤ 80 dB(A)
- Niflon coated internals reduce damage from corrosive or condensable gases



## Materials of Construction

**CASING,  
END PLATES,**

**COVERS:** Ductile iron, uncoated

**ROTORS:** Ductile iron, Niflon coating

**TIMING GEARS:** Alloy steel, precision ground, helical type

**SHAFT SEALS:**

**Drive End:** Mechanical seal & lip seal

**Non-Drive End:** Triple lip seals

**Drive Shaft:** Mechanical seal

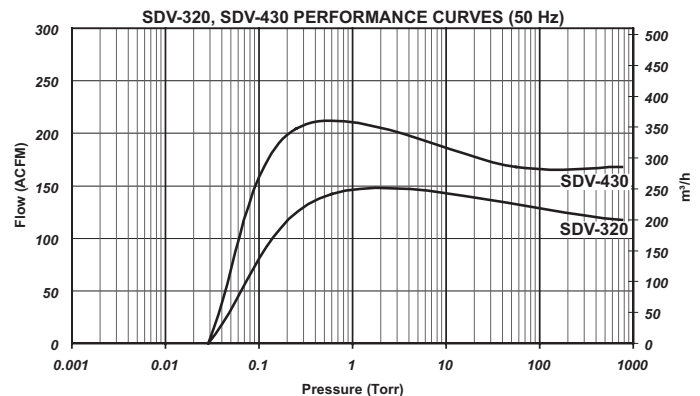
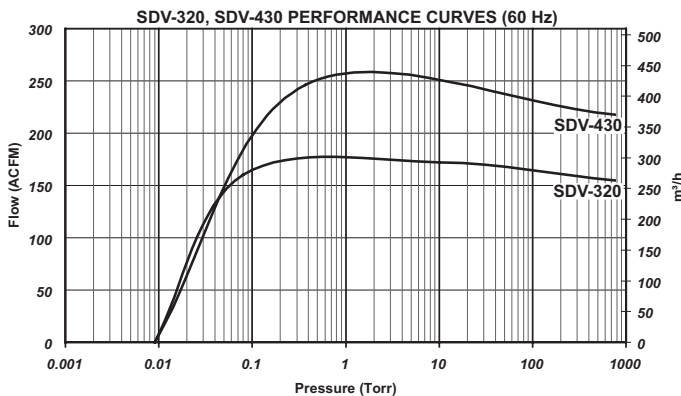
**O-RINGS:** Kalrez® compound 6375

Kalrez® is a registered trademarks of E.I. duPont de Nemours and Company.

## Specifications

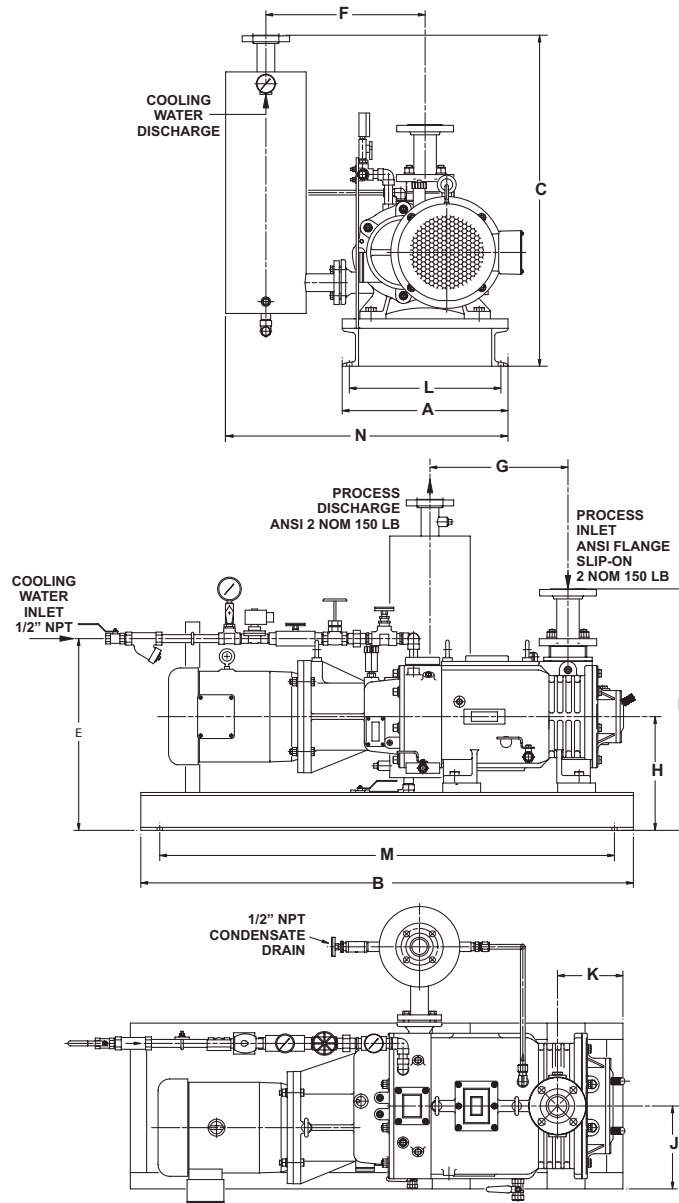
MODEL	CAPACITY (60 HZ) (50 HZ) CFM / m <sup>3</sup> /h	ULTIMATE PRESSURE (60 Hz) (50 Hz) Torr / mbar	ROTATION SPEED 60 Hz / 50 Hz	MOTOR HP	POWER CONSUMPTION 60 Hz / 50 Hz kW	SUCTION FLANGE (ANSI, 150# RF) in. / mm	DISCHARGE FLANGE (ANSI, 150# RF) in. / mm	COOLING WATER GPM / L/min	NOISE LEVEL dB(A)
SDV-320	188 / 320 157 / 267	0.01 / 0.013 0.03 / 0.04	3500 / 2900	10	6.4 / 5.4	2 / 50	1.5 / 40	2.1 / 8	80
SDV-430	253 / 430 211 / 358	0.01 / 0.013 0.03 / 0.04	3500 / 2900	15	9.4 / 7.9	2.5 / 65	2 / 50	2.9 / 11	80

## Typical Pumping Speed Curves



## Dimensions

Values shown are approximate and should not be used for construction. Certified drawings are available through your local Tuthill Vacuum & Blower Systems Sales Professional.



in. mm.	A	B	C	D	E	F	G	H	J	K	L	M	N	BARE SHAFT LBS. kg	COMPLETE UNIT LBS kg
SDV-320	17.50 445	52 1321	34.94 887	25.49 647	20.24 514	16.81 427	14.57 370	12.01 305	8.75 222	4.96 126	16 406	48 1219	30 762	617 280	1130 513
SDV-430	18.19 462	57 1448	38.9 988	26.81 681	21.31 541	17.99 457	17.32 440	12.56 319	9.1 231	5.43 138	16.81 427	53 1346	31.5 806	771 350	1450 658

Your Local Tuthill Vacuum Blower Systems Sales Professional:



Western Washington: 253-740-0530  
 Eastern Washington: 509-949-3368  
 Idaho & Montana: 208-360-3833  
 Oregon: 503-708-9609  
[info@nwflowtech.com](mailto:info@nwflowtech.com)



Tuthill Vacuum & Blower Systems  
 4840 West Kearney Street  
 Springfield, Missouri USA 65803-8702  
 o 417.865.8715 800.825.6937 f 417.865.2950  
[tuthillvacuumblower.com](http://tuthillvacuumblower.com)

