

KINNEY® SDV™

Variable Pitch, Screw-Type Dry Vacuum Pump



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)

Materials of Construction:

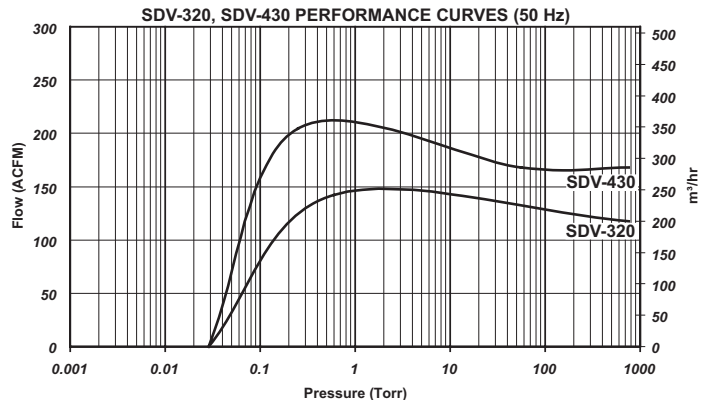
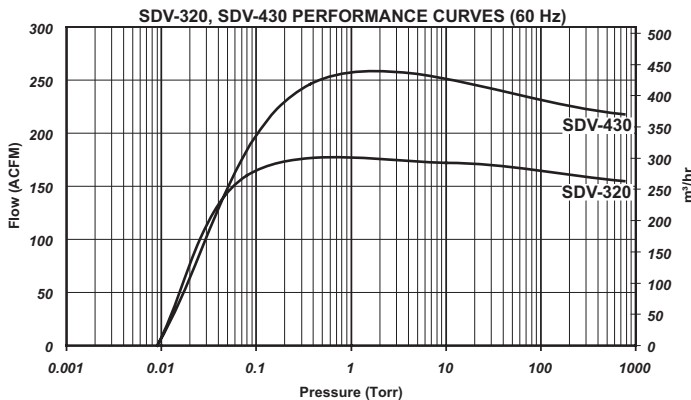
CASING,	Ductile iron, uncoated
END PLATES,	
COVERS:	Cast iron, uncoated
ROTORs:	NIFA or NiFlon Coatings (<i>optional</i>)
TIMING GEARS:	Alloy steel, precision ground, helical type
SHAFT SEALS:	
Drive End:	Mechanical seal & lip seal
Non-Drive End:	Triple lip seals
Drive Shaft:	Mechanical seal
O-RINGS:	Kalrez® compound 4079
	Hastelloy® or Ni-Resist Seals (<i>optional</i>)
	Viton® A-1009 O-rings (<i>optional</i>)

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Hastelloy® is a registered trademark of Haynes International, Inc.

Specifications

MODEL	Capacity (60 Hz) (50 Hz)	Ultimate Pressure (60 Hz) (50 Hz)	Rotation Speed	Motor	Power Consumption 60 Hz / 50 Hz	Suction Flange (ANSI, 150# FF)	Discharge Flange (ANSI, 150# FF)	Cooling Water	Noise Level
	CFM / m ³ /h	Torr / mbar	60 Hz / 50 Hz	HP	kW	in. / mm	in. / mm	GPM / L/min	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



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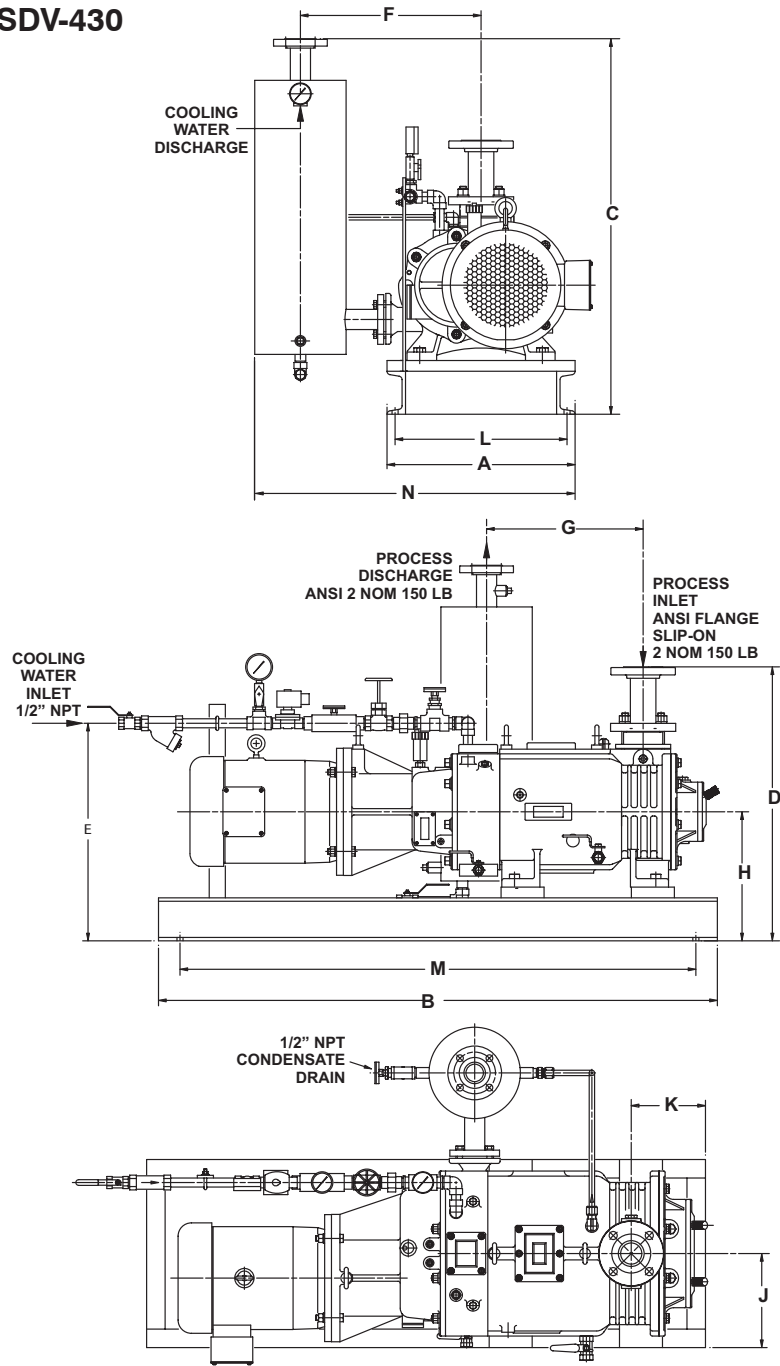
4840 West Kearney Street, P. O. Box 2877
Springfield, Missouri USA 65801-2877
Tel 417 865-8715 800 825-6937 Fax 417 865-2950
<http://vacuum.tuthill.com>



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

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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 1219	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	9.1 427	5.43 138	16.81 427	53 1346	31 788	771 350	1450 658

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