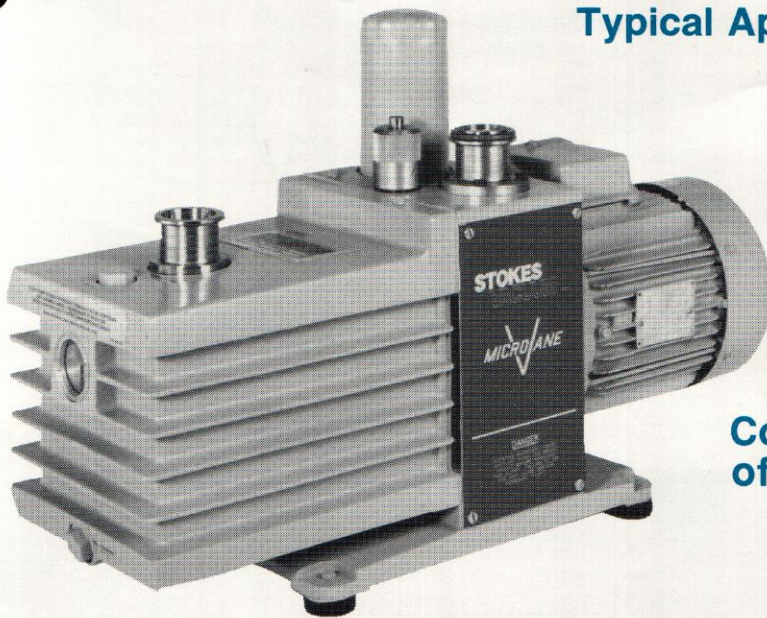


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MICROVANE Rotary Vane Pumps



Typical Applications

- **Semiconductor processing** — chemical vapor deposition, plasma etching and deposition, reactive ion etching, and ion implant.
- **Industrial manufacturing** — optical coating systems, metallurgical processes, freeze drying.
- **Positive internal oil circulating system** for positive lubrication.
- **Viton* shaft seals** provide a high degree of leak-resistance and long service life.
- **All cast metal construction** provides resistance to chemical attack.
- **Built-in oil relief valve** for pump protection.
- **Automatic anti-suckback valve** prevents oil from being sucked back into the system.
- **Large, air-cooled oil reservoir** provides efficient cooling of oil.
- **Self supporting system.**

A Valuable Combination of Important Features

* Viton is a registered trademark of DuPont

Microvane Rotary Vane Pump Specifications

	Model V-005-2	Model V-009-2	Model V-013-2	Model V-017-2	Model V-023-2
No. Stages	2 stage	2 stage	2 stage	2 stage	2 stage
Nominal Pump Displacement CFM (Liters/Min.)—60HZ CFM (Liters/Min.)—50HZ	7 (198) 5.8 (165)	11 (311) 9 (260)	20 (566) 16.7 (473)	36.7 (1038) 30.6 (866)	55 (1558) 46 (1303)
Ultimate Vacuum Level* TORR MBAR	5 x 10 ⁻⁴ 6.6 x 10 ⁻⁴	5 x 10 ⁻⁴ 6.6 x 10 ⁻⁴	5 x 10 ⁻⁴ 6.6 x 10 ⁻⁴	5 x 10 ⁻⁴ 6.6 x 10 ⁻⁴	5 x 10 ⁻⁴ 6.6 x 10 ⁻⁴
Max. Water Vapor Pumping Rate LB/HR.	0.3	0.4	0.5	0.7	0.9
Oil Capacity	0.53 gal. 1.9 liters	0.5 gal. 1.8 liters	0.7 gal. 2.6 liters	1.1 gal. 4.16 liters	1.1 gal. 4.16 liters
Motor HP, TEFC Motor 60 HZ, rpm 50 HZ, rpm	0.50 1800 1500	0.75 1800 1500	1.5 1800 1500	2.0 1200 1000	3.0 1800 1500
Sound Pressure/Blank Off @ 3 feet—dB (A) Weighted	65 (max.)	65 (max.)	65 (max.)	65 (max.)	65 (max.)
Oil Filter Rating	—	—	15 microns	15 microns	15 microns
Pump Connections ISO NW STD. Inlet Discharge	ISO NW 25 ISO NW 25	ISO NW 25 ISO NW 25	ISO NW 40 ISO NW 40	ISO NW 40 ISO NW 40	ISO NW 40 ISO NW 40
Pump Weight (lbs.) (kgs.)	65 29.5	80 36.4	135 62	234 106	226 103

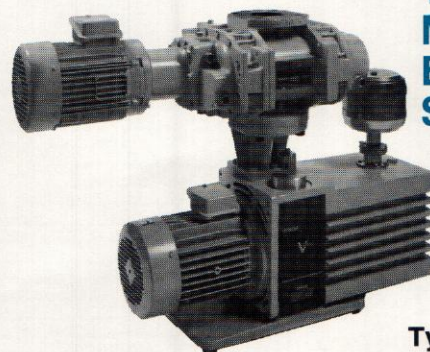
*As measured with an un-trapped McLeod gage.

Specifications for Stokes Mechanical Booster Systems

Model No.	070-12	070-13	070-22	070-23	070-25	070-43	070-45
First Stage Displacement	CFM	125	125	245	245	245	400
	M ³ /HR	212	212	416	416	416	680
Second Stage Displacement	CFM	20	37	20	37	55	37
	M ³ /HR	34	62	34	62	94	62
First Stage Drive	HP	1.5	1.5	2.0	2.0	2.0	2.0
	KW	1.3	1.3	1.8	1.8	1.8	1.8
Second Stage Drive	HP	1.5	2.0	1.5	2.0	3.0	2.0
	KW	1.3	1.8	1.3	1.8	2.2	1.8
Inlet Connection	IN.	3	3	3	3	3	4
	MM.	76	76	76	76	76	102
Exhaust Connection	KF	40	40	40	40	40	40
	PT	1.75	1.75	1.75	1.75	1.75	1.75
First Stage Oil Requirements	L.	.8	.8	.8	.8	.8	.8
	GAL.	.7	1.1	.7	1.1	1.1	1.1
Second Stage Oil Requirements	L.	2.6	4.16	2.6	4.16	4.16	4.16
	GAL.	2.6	4.16	2.6	4.16	4.16	4.16
Height	IN.	26	27	26	27	27	27
	MM.	660	689	660	689	689	689
Width	IN.	11	11	11	11	11	11
	MM.	286	286	286	286	286	286
Length	IN.	38	39	38	39	39	41
	MM.	968	1006	968	1006	1006	1057
Weight	LBS.	360	460	360	460	460	500
	KG.	164	209	164	209	209	227

See Bulletin 536 for specifications on Rotary Piston Mechanical Boosters.

Request BULLETIN 700



TWO-STAGE MECHANICAL BOOSTER SYSTEM

Typical Options

- **Electrical controls**
- **Nitrogen purge control systems**
- **Operating sensors**
- **Gages and alarms of critical conditions**
- **Internal and external filtration packages**
- **Blower D.C. drive motors for pumping speed control**