



• Innovation • Technology • Excellence

ISO 9001

ISO 14001

OHSAS 18001

Unmatched Performance, Superior Technology, Trouble Free Operation

ROTARY

Sliding Vane Compressors for Process Gas

(Hydrocarbon gas, Bio gas/Landfill gas)



THE COMPANY

Swam, a leading engineering company and global leader specializing in design, engineering, manufacturing, and supply of Rotary Air and Gas Blowers, Truck Blowers, Centrifugal Fans Turbo Blowers Liquid ring Vacuum pumps and Compressors. Dry Screw Vacuum Pumps Vacuum Boosters, Sliding vane Compressors, Acoustic Enclosures, & related equipments

Swam, a group known for its technology, innovation and excellence that has been acquired exceptional through product design & development capabilities to meet stringent quality and performance requirements and to conform to the customers tough and diversified specifications. At Swam emphasis has been on innovative design, precision engineering, advanced technology, excellence in performance and quick responsiveness to customers.

With over three decades of experience the company has adequately matured to execute different project and is today represented in over 15 countries. Our quality system has been accredited with ISO-9001 quality standards and procedures. The company's head office & work are located at Noida near New Delhi, the capital city of India. The company has FOUR manufacturing plants equipped with CNC Machines and in-house testing facility up to 1000kw.

Our highly motivated engineers and work force faces, each contract with commitment to meet the client process specification and quality requirement. The company has executed many prestigious projects under the stringent quality compliance.

The company's quality system is as per ISO 9001:2008 and has very high regard for safety and environment and hence has all plants certified to ISO 14001 and OHSAS 18001.



Unmatched Performance, Superior Technology, Trouble Free Operation 

ROTARY SLIDING VANE COMPRESSORS

SWAM ROTARY SLIDING VANE COMPRESSORS

Swam, Offers most advance and energy efficient sliding vane compressors for bio gas landfill gases with pressure upto 2.8 bar and manufactured on CNC Machine. The Sliding vane compressor have very high accuracies and are manufactured on CNC machines.

The sliding Vane Compressors are available for flows up to 2350 CFM (4000 M3/Hr)



OPERATING PRINCIPAL

A cylindrical Rotor turns eccentrally in cylindrical stator of larger diameter. The free space left between Stator and Rotor is half moon shaped. Some slots are milled in the Rotor and stratified graphite blades slide freely in these slots. As Rotor rotates due to centrifugal force, blades come out and forced against cylindrical casing, hence create individual cells with reducing volumes during rotation from suction to discharge

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SLIDING VANE COMPRESSOR/ BOOSTERS

MAIN ADVANTAGES OF USING, SWAM SLIDING VANE COMPRESSORS

- High operating efficiency the power needed for the compression is well lower than that required for other types of compressor with consequent lower operating costs.

- Simple construction and ease of maintenance.

- Gas flows without pulsation.

- Internal protection during compression of gas. The thin film of lubricating oil in the Vane Compressors used for purely mechanical purposes, plays also two important roles.

- IT protects the compressor internal surfaces from attack of acids contained in the gas. Due to this, the sliding Vane Rotary compressor is the only machine made of common materials such as cast iron and ordinary steel which do not need any protection against such gases.

- Provides lubrication of bearings and blades & also helps in removal of the impurities which are in the gas in the form of solid or liquid particles.

- Suitable for wide range of applications like air & combustible gases etc.

- MOC of Casing, Rotor and Blades is Cast Iron, cast steel and light stratified spark-free material.

- Single or double- acting metallic seals depending on operating pressure.

- Flexible coupling without metal to metal contact between driving and driven parts.

- Small no of part in motion guarantees low maintenance as compared to other technologies available in the same pressure range.

- Easy replacement of blades reduces equipment down-time for maintenance.

- Self compensating blades ensures constant volumetric efficiency over entire equipment life.

- Lubrication oil also protects internal surface from acid attacks in combustible gases application. Small footprint low noise and vibration.

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ROTARY SLIDING VANE COMPRESSORS

Outlet Pressure		14.2 (psig)		17.1 (psig)		21.3 (psig)		25.6 (psig)		28.4 (psig)		32.7 (psig)		35.6 (psig)		39.8 (psig)	
		1.0(kg/cm ²)		1.2(kg/cm ²)		1.5(kg/cm ²)		1.8(kg/cm ²)		2.0(kg/cm ²)		2.3(kg/cm ²)		2.5(kg/cm ²)		2.8(kg/cm ²)	
Flow rate	M ³ /hr	M ³ /hr		M ³ /hr		M ³ /hr		M ³ /hr		M ³ /hr		M ³ /hr		M ³ /hr		M ³ /hr	
		KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	
Model	RPM																
SVC 80	135	5.7	130	6.2	129.4	6.8	125.4	7.5	122.5	7.9	119.6	8.6	116.6	9	112.7	9.7	
SVC 100	171	6.8	168	7.4	162.7	8.3	154.8	9.3	151.9	9.8	148	10.6	145	11.1	140.1	11.9	
SVC 120	227	8.7	223	9.4	217.6	10.7	211.7	11.8	207.8	12.6	201.9	13.7	198	14.5	192.1	15.5	
SVC 140	1450	284	10.6	279	11.6	272.4	13.2	260.7	14.9	255.8	15.6	248.9	17	244	17.8	237.2	19.1
SVC 160	363	14.1	357	15.1	347.9	17	339.1	18.7	333.2	19.8	324.4	21.3	318.5	22.3	309.7	23.8	
SVC 170	423	15.9	417	17.2	407.7	19.5	397.9	21.4	392	22.7	374.4	25.5	367.5	26.7	356.7	28.5	
SVC 180A	478	17.5	470	19.3	459.6	22.1	488.8	24.1	441	25.3	430.2	27.6	422.4	28.9	411.6	31	
SVC 200A	548	20.2	539	21.8	526.3	24.7	513.5	27.1	505.7	28.9	484.1	32.4	475.3	33.9	463.5	36.1	
SVC 200	554	21.6	545	23.3	532.1	26.2	519.4	28.6	510.6	30.2	497.8	32.7	489	34.4	476.3	36.6	
SVC 220	975	639	24.3	629	26.3	614.5	29.4	599.8	32.3	576.2	35.2	561.5	38.6	525.3	40.6	537	43.4
SVC 240	786	29.2	774	31.8	756.6	35.6	738.9	39.1	727.2	41.5	709.5	44.9	697.8	47.3	680.1	50.8	
SVC 260	907	33.2	894	36	874.2	40.5	854.6	44.6	822.2	48.5	802.6	53.5	788.9	56.1	769.3	60.1	
SVC 300	1083	38.6	1067	42.1	1043	47.8	1019	52.5	982	57.4	958.4	63.1	943.7	66.3	920.2	71.1	
SVC 320	1223	44.6	1205	48.5	1179	55.4	1152	60.9	1135	64.4	1108.4	69.8	1091	73.3	1064	78.7	
SVC 340	735	1352	48.5	1333	52.9	1303	60.4	1274	66.3	1254	70.3	1225	76.2	1205	80.2	1176	86.1
SVC 360	1597	57.4	1574	62.7	1539	71.3	1503	78.7	1480	83.2	1444.5	90.1	1421	94.1	1386	101	
SVC 380	1815	64.4	1788	70.6	1746	80.2	1705	89.1	1656	96	1618	104	1593	109.9	1554	117.8	
SVC 400	2205	78.2	2175	84.3	2097	99	2053	108.9	2024	114.8	1979.6	123.8	1950	129.7	1906	139.6	
SVC 450	585	2793	97	2734	104.9	2695	124.7	2636	136.6	2597	144.5	2538.2	156.4	2499	164.3	2440	176.2
SVC 500	3255	112	3196	123.2	3140	148.2	3062	159.5	2990	167.4	2946	181.6	2898	191.5	2842	206.8	
SVC 600	3792	130	3723	144	3658	173	3567	186	3483	195	3432	212	3376	223	3311	241	
SVC 700	4418	152	4338	167	4262	201	4146	216	4058	227	3998	246	3933	260	3857	281	

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AIR COOLED MACHINE PERFORMANCE CHART

Outlet Pressure		7.1 (psig)		14.2 (psig)		17.1 (psig)		21.3 (psig)	
		0.5(kg/cm ²)		1.0(kg/cm ²)		1.2(kg/cm ²)		1.5(kg/cm ²)	
Flow rate		M ³ /hr		M ³ /hr		M ³ /hr		M ³ /hr	
BKW			KW		KW		KW		KW
Model	RPM								
SVC 10		32.3	1.2	29.7	1.5	28.7	1.6	27	1.8
SVC 30		51.9	1.8	48	2.4	46.5	2.6	44.1	2.9
SVC 40		81.3	2.3	76.4	3.2	74.5	3.5	71.5	3.9
SVC 60		101.9	3	97	4.1	95.1	4.5	92.1	5
SVC 80		121.5	3.9	115.6	5.1	112.7	5.5	109.8	6.1
SVC 100	1450	170.5	4.8	162.7	6.6	158.8	7.2	154.8	8.1
SVC 120		213.6	5.6	203.7	8.1	199.9	8.9	194	10
SVC 140		267.5	7.1	256.8	9.9	251.9	10.9	245	12.3
SVC 160		377.3	10.2	357.7	14.2	349.9	15.4	338.1	17.2
SVC 180		455.7	12	431.2	16.8	421.4	18.2	406.7	20.2
SVC 200		539	13.8	513.5	19.2	501.8	21.1	484.1	23.8
SVC 210		578.2	14.7	548.8	20.5	537	22.4	519.4	25.4

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WHY SWAM IS BEST CHOICE

- ISO-9001:2008, ISO 14001, OHSAS 18001 Quality certified
- Experience of over Three decades
- An installation of over 50,000 products world wide
- Presence in more than 15 countries
- Quality Focus Management
- Strong Project Management team
- Innovation in Design & Development
- Team of highly qualified professionals Competent team for Customer support, Operational & Maintenance

FOCUS ON QUALITY & RELIABILITY

Emphasis on quality and performance is a commitment of every individual at Swam beginning at grass root level at all levels of the organization and all its aspect are thoroughly complied The quality control is practiced with the specified standard and specification, till the product gets delivered The quality assurance system encompasses self quality control by each worker & supervised by quality control engineers. Each blowers and pump undergoes through and stringent tests at different stages of manufacturing and are test run for several hours prior to despatch as per the relevant code, customers's specification and approved quality plan.



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STEEL & GAS PLANT-MIX & NATURAL GAS BOOSTERS

SLIDING VANE COMPRESSORS

- Used for Boosting Mix Gas of BF & CO in Lime Plant and Pallet Plant
- Used for conveying & boosting of Coke Oven Gas in Coke Oven Plan



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CEMENT PLANT

SLIDING VANE COMPRESSORS

- Conveying of Cement, Fly ash etc.
- Unloading /Loading of Fly ash Bulker
- Cleaning of Cement/Fly ash in ted on pipeline through Sliding Vane Compressors mounted on Mobile Vehicles. This application compressor is driven by vehicle's engine



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WASTE WATER TREATMENT PLANT-BIO GAS



SLIDING VANE COMPRESSORS

- Mixing of Anaerobic Digester by recirculation of bio gas in the digester
- Digester mixing is done through Lancers & Rotary Valves
- Bio Gas generation increases by more than 25% as compared to conventional Agitation
- Conveying of Bio Gas
- Feeding to High Pressure Burner or Bio Gas Engine
- Photo of Digestor

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ADVANCE MANUFACTURING SYSTEM

SWAM has the most advance manufacturing system with a large number of CNC machines installed in our four plants. The blowers and other products are manufactured with most optimum profile resulting higher efficiencies, high displacement, lower slippage.



OUR PRODUCT AT A GLANCE



TRI-LOBE BLOWER



BIO-GAS BLOWER/
COMPRESSOR



GAS BOOSTERS/
PROCESS GAS BLOWERS



TRUCK BLOWERS
SHV SERIES



MECH. VACUUM
BOOSTERS



ROTARY SLIDING
VANE COMPRESSORS



SCREW BLOWERS



DRY SCREW
VACUUM PUMPS



TURBO BLOWER



LIQUID RING
VACUUM PUMPS

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CUSTOMER SUPPORT SERVICES

A team of experienced and qualified engineers are deployed to provide technical after-sales services to our customers, such as Pre and post commissioning services, operator training, trouble shooting etc, to ensure that the equipment is performing to the user's satisfaction.

For details contact HO or the nearest service network

DIVERSIFIED PRODUCTS RANGE:

Swam Offers a comprehensive and diversified products range of products for the Process Chemical Oil & Gas, Steel, Aluminium, Cement, Water and Power Industries.

BLOWERS & FANS

- Rotary Blowers (Tri Lobe & Twin Lobe)
- Process Air Blowers
- Gas Blowers & Boosters
- Truck Blowers
- Centrifugal Fans
- Process Air Fans
- Rotary Screw Blowers
- Turbo Centrifugal Blowers
- Sliding Vane Compressors

Vacuum Pumps & System

- Dry Screw Pumps
- Mechanical Vacuum Boosters
- Packaged Vacuum Systems
- Rotary Vane Pumps
- Liquid Ring Compressor & Pumps

Heat Transfer Equipments

- Shell & Tube Type Heat Exchangers
- Finned Tube Heat Exchangers

Noise Reductions Equipments

- Industrial Silencers
- Acoustic Enclosures



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(ISO-9001:2000 Quality Certified)

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