

CE

ISO
9001 : 2015



VACUUM SYSTEM SOLUTION

Helium

Sf₆

Cl

r134a

Nitrogen

NXTEK

SOLUTIONS WITH THE POWER OF QUALITY

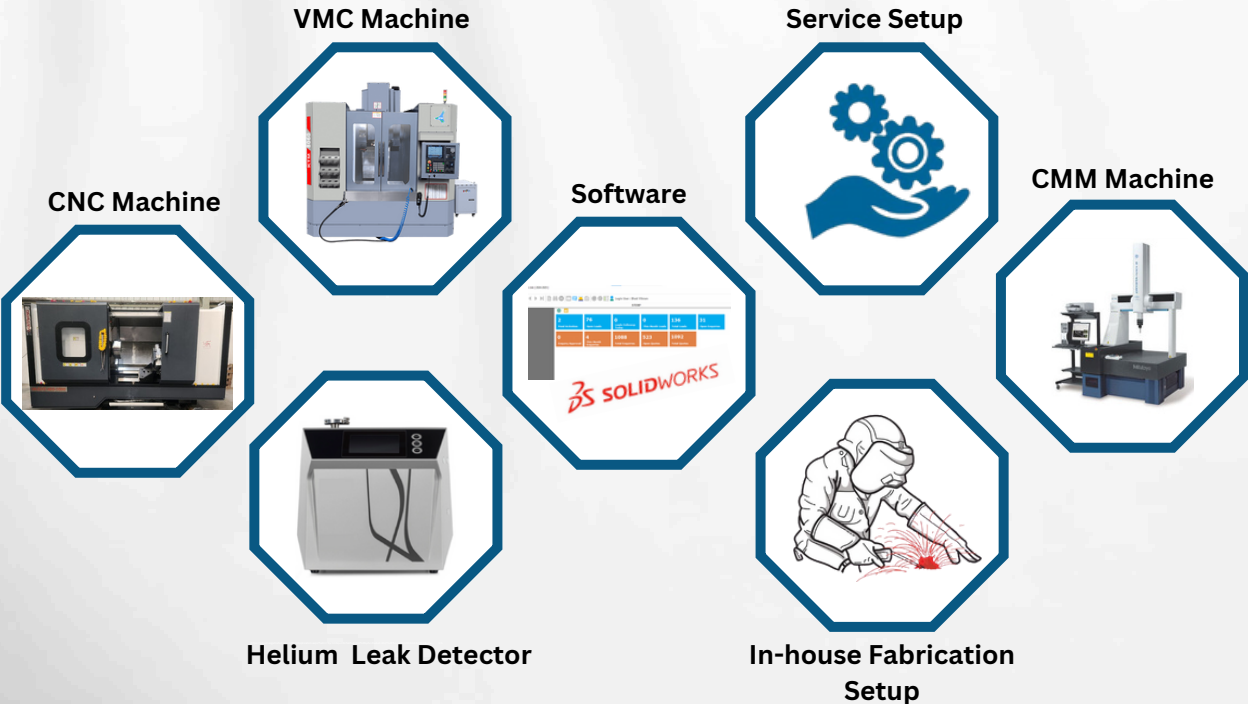


NxTek Yantra Pvt Ltd know for quality vacuum system solution and leak detection services provider. We cater to various industries and segments.

We are proud to inform our newly manufacturing, assembly and service facility comprising total Sq feet area of 15000 at centrally located industrial area at Por, Vadodara.

Since its inception Nxttek Yantra Pvt Ltd has accumulated unmatched experience with over 25+ years with end number of satisfied customers. Here at NxTek our core motto is “solutions with the power of quality” which basically means we provide solutions to our customer with the power of quality we have in our products being offered, for us our customers matters the most so we always try to get into depth of the problems our customers are facing and after a thorough analysis we try to deliver a solution which best suits the needs of the customer.

INFRASTRUCTURE



Vacuum Solutions For Process Industry



- Drying**
- Distillation**
- Freeze Drying**
- Evaporation**
- Vapors Recovery**
- Filtration**
- Customized Solution**
- Retrofit / Servicing**



System Solution For All Major Chemical

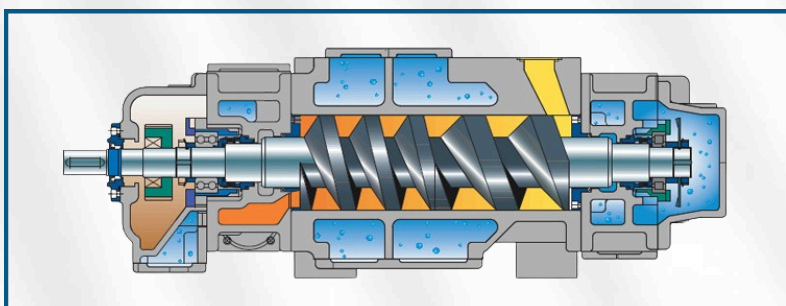
Acetaldehyde
Acetic acid
Ammonia
Acetone
Alcohols
Acrylic
Benzene
Butyl chloride
Butadiene
Butyl chloride
Carbon dioxide
Carbon tetrachloride
Carbon benzene
Chloro benzene amine
Chloroform
Dichloro-ethane,
Dimethyl isopropyl amine

Fatty acid
Formic acid
Glycerides
Heptane
Hydrogen
Hydrogen chloride
Hydrogen bromide
Hydrocarbons
Isopropanol
Isopropyl ether
Methanol
Methyl ethyl ketone MEK
Methyl isobutyl ketone
Methylene chloride
Monochlorobenzen
Monomethyl amine
Octanol

Phenol
Phosgene
Styrene Sulphur dioxide
Sulphuric acid
Tetrafluoro benzene
Tetrahydrofuran
Thionyl chloride
Trichloro ethylene
Triethyl amine
Dimethyl formamide (DMF)
Dimethyl sulphoxide (DMSO)
Fluorinated hydrocarbons
Ethyl chloride
Ethyl acetate
Ethylene Oxide
Ethylehexanol
Formaldehyde

Dry Screw Vacuum Pump

DBVP 150 DBVP 300 DBVP 450 DBVP 800 DBVP 1200 DBVP 1200 DBVP 1500 DBVP 2700



Feature

1 NEW DESIGN

- The compact design that emphasized curved line of casting and plate (REP2) was removed
- Improving the part connected with motor by IEC flange type

2 REMOVED AIR FILTER

- The strong anti corrosion by blocking the inflow of air into pump/ it is safe even explosive circumstance
- Minimized contamination in application circumstance due to no process material back-flowed

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4 SIMPLE INTERNAL STRUCTURE

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- Minimized contamination in application circumstance due to no process material back-flowed

5 LINE-UP

- Consisted of various line from low to high capacity

6 DRY VARIABLE PITCH SCREW

- Eco-friendly pump which is no need oil or water that is to form oil film inside pump also additional cost come from wastewater.
- Keeping constant vacuum degree even for long time operation without influence of internal/external circumstance
- Reducing utility cost as applying variable pitch screw that helps reduce power consumption and discharge temperature

7 COATING

- Applying Special TEFLON Coating which is the most superior for the corrosion
- Easy to treat toxic, corrosive gas and condensable gases

8 THE RANGE OF USING PRESSURE OF PUMP

- It is possible of continuous operation in the all pressure range by forming vacuum with mechanical rotation of screw
- No change of using power in accordance with vacuum degree (low to high)

9 IEC FLANGE

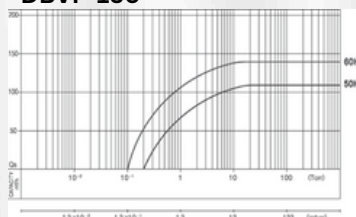
- Increasing customer convenience by applying IEC Flange
- Simple installation due to no need to adjust shaft alignment when pump is to moved

Specification

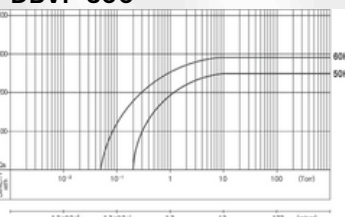
SPECIFICATION/MODEL		DBVP 150		DBVP 300		DBVP 450		DBVP 800	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity (m³/hr)		135	165	260	320	390	480	700	840
Ultimate Pressure(Torr,abs)		0.1	0.05	0.05	0.03	0.03	0.01	0.03	0.01
Motor Size (KW)		3.7	5.5	7.5	7.5	11	11	15	18.5
Motor Speed (RPM)		2900	3550	2900	3550	2900	3550	2900	3550
Port Size	Suction	40A		50A		65A		100A	
	Discharge	40A		40A		50A		65A	
Cooling water (l/min) @ 20 C		12		14		16		20	
Gear oil	Front	1.1(oil)		1.3(oil)		1.4(Oil)		2.8(oil)	
	Rear	0.6(oil)		0.6(oil)		0.8(oil)		1.4(oil)	
Weight(pump Only) (KG)		245		315		380		600	

Performance Curves:

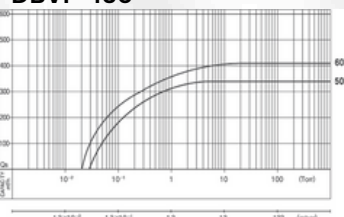
DBVP-150



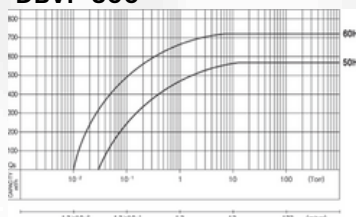
DBVP-300



DBVP-450



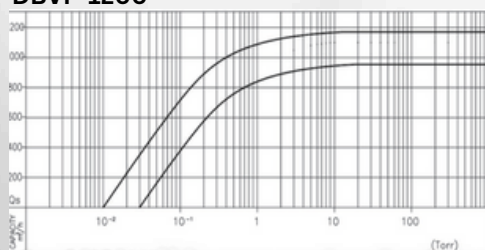
DBVP-800



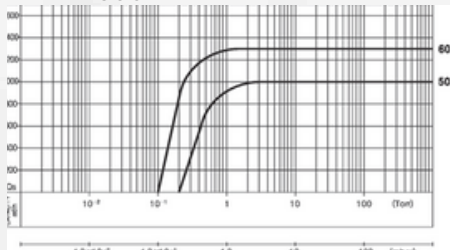
SPECIFICATION/MODEL		DBVP 1200		DBVP 1500		DBVP2700	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Capacity (m³/hr)		950	1150	1250	1500	2400	2700
Ultimate Pressure (Torr,abs)		0.03	0.01	0.1	0.05	0.1	0.05
Motor Size (KW)		30	30	30	37	45	55
Motor Speed (RPM)		2900	3550	1500	1800	1500	1800
Port Size	Suction	100 A		125A		150A	
	Discharge	65 A		100A		125A	
Cooling water (l/min) @ 20 C		30		40		55	
Gear oil/Grease	Front (oil/l)	3.2L(Oil)		3.5(Oil)		4(Oil)	
	Rear (grease/g)	150g(Grease)		450g(Grease)		450g(Grease)	
Weight(pump Only) (KG)		800		2100		2100	

Performance Curves:

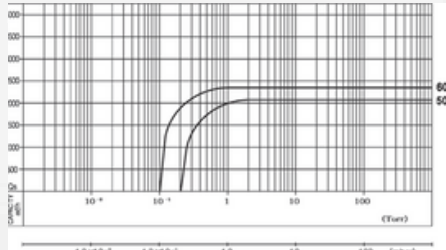
DBVP-1200



DBVP-1500



DBVP-2700





OIL VANE PUMP SYSTEM WITH OFM

Key Features

- Vacuum - upto 0.07 torr
- High Efficiency
- Air Cooled, Utility Free
- Low Noise Level & Vibration
- Low Maintenance

System Specs

- Vacuum Pump, Motor with FLP Control Panel

Default Facility

- Inlet Filter - 0.1 Micron
- Automatic Gas Ballast
- Isolation Valve
- Control Panel

Optional Accessories

- Oil Filtration Machine With Water Solvent Separation Unit
- Condenser with Auto Drain Facility
- Intermediate Flushing

Customized Solution With Booster

Key Features

- Customised MOC as per process
- Vacuum upto 0.05 torr
- Low Noise Level & Vibration
- Variable Pitch Screw with Mechanical Seal Design
- High Efficiency
- Oil Free Gas path
- Long Service Intervals

System Specs

- Inter Cooler between vacuum pump & roots pump

Default Facility

- Control Panel
- Actuated Solation Valve
- Solvent Flushing
- Temperature and Pressure Sensor
- N2 flusing and Purging

Optional Accessories

- VFD/PID based Vacuum Control



SELECT DRY SCREW VACUUM SYSTEM TO SUIT YOUR NEED

	Vacuum System Model	Basic	Basic +	Basic ++	Super	Super +	Make to Oder
	Pumping Capacity	100 to 800 m3/Hr			250 m3/Hr to 12000 m3/hr		
	Ultimate Vacuum - Torr Abs	0.07	0.07	0.07	0.007	0.007	
PRIMARY	Dry Screw Pump	✓	✓	✓	✓	✓	
	Variable Pitch Screw	✓	✓	✓	✓	✓	
	Coated Wetted Pump Parts	✓	✓	✓	✓	✓	
	Mechanical Seal DE + NDE Side	✓	✓	✓	✓	✓	
	Booster pump	—	—	—	✓	✓	
	Skid Mounted	✓	✓	✓	✓	✓	
SUCTION SIDE	Suction Filter 2 Micron *	✓	✓	✓	✓	✓	
	Inter Cooler with Catch Pot	—	—	—	✓	✓	
	Pnematic Acutated Isolation Vavle	✓	✓	✓	✓	✓	
	Solvent Flush Tank with Level Switch	✓	✓	✓	✓	✓	
	Inlet Condensor with Catch Pot	—	✓	✓	—	✓	
	Nitrogen Fluhing & Barrier with Controls	✓	✓	✓	✓	✓	
	Inlet Vacuum Transmitter	✓	✓	✓	✓	✓	
DISCHARGE SIDE	SS Silencer , Water Cooled	✓**	✓	—	✓	—	
	Outlet Condensor with Catch Pot	—	—	✓	—	✓	
	Pnematic Acutated Valve at Exhaust	—	✓	✓	✓	✓	
	Pressure Switch for Pump Exhaust	✓	✓	✓	✓	✓	
ELECTRONICS & CONTROL	PRESSURE CONTROL	✓	✓	✓	✓	✓	
	PID CONTROL	✓	✓	✓	✓	✓	
	Pump Body Temp Indicator	✓	✓	✓	✓	✓	
	Cooling water Temp indicator Out Let	✓	✓	✓	✓	✓	
	FLP Panel Skid Mounted FLP - ON/OFF type	✓	✓	✓	✓	✓	

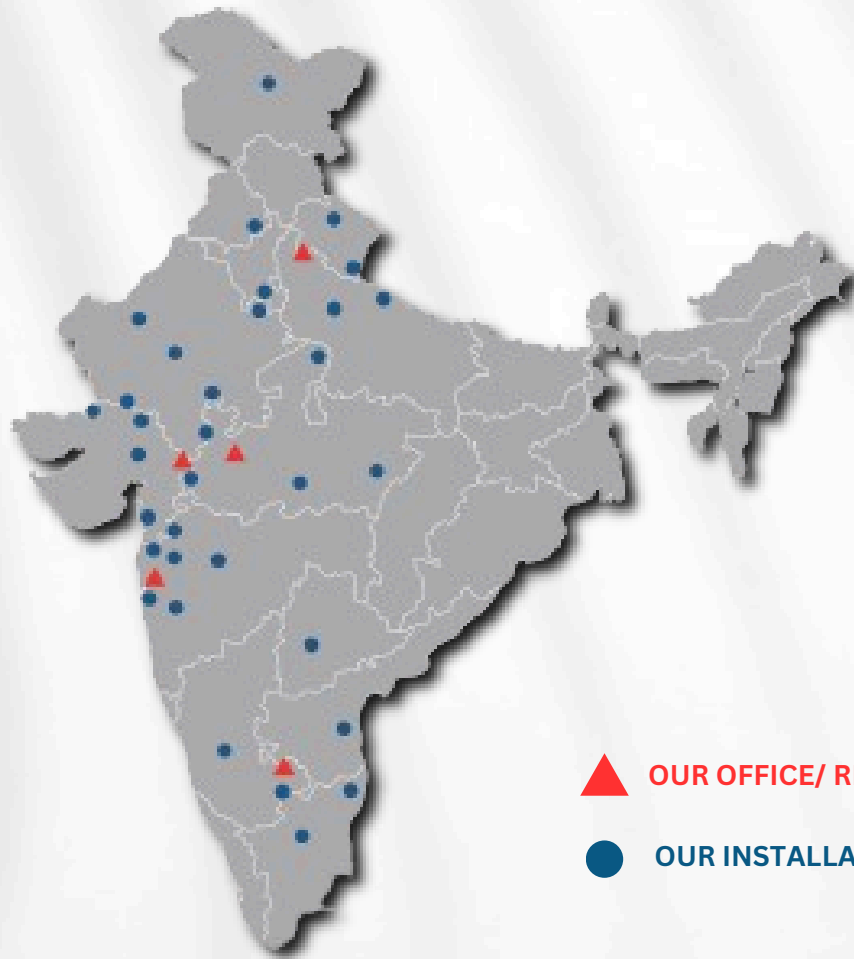
* 0.5 Micron Filter Available on Request

** Air Cooled Silencer

SPECIAL REQUIREMENT ON REQUEST	
Item Description	Comments
FLP VFD Vacuum Pressure Controls	
Remote NON FLP Control Panel With VFD	
Water Chillar Plant	
Any Other Customer Requirement	

STANDARD MOC	
Item Description	MOC
Pump & Booster	CL
Pipes, Fitting & Hardware	SS 304/316
Skid	MS
Valves - body / element	SS 304/316

Our Valuable Client's



- ▲ OUR OFFICE/ REPRESENTATIVES
- OUR INSTALLATIONS

🏠 Plot-9, block-338, old survey no-400/1 kashipura behind por GIDC Vadodara 391243 Gujrat

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Authorized Dealer

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