

Authorised Dealer



**VEMC**

VIJAY ENGINEERING AND MACHINERY CO.

**100**  
1920  
2020

KIRLOSKAR BROTHERS LTD.



Enriching Lives



**KV/DV**  
VACUUM  
PUMPS



**KV**



**DV**

**KIRLOSKAR BROTHERS LIMITED**

A Kirloskar Group Company

Established 1888

## KV/DV VACUUM PUMPS

### TECHNICAL SPECIFICATION

	KV	DV
Vacuum	: Upto 600 mm of mercury	: Upto 640 mm of mercury
Air Flow Rate	: Upto 55 m <sup>3</sup> /hr (at mean sea level)	: Upto 162 m <sup>3</sup> /hr (at mean sea level)
Power Ratings	: 0.75 to 2.2 kW (1 to 3 HP)	: 3.7 to 7.5 kW (5 to 10 HP)
Voltage Range	: 180 to 240 Volts (Single Phase) 300 to 440 Volts (Three Phase)	: 375 to 455 Volts (Three Phase)
Insulation	: B Class	: F Class
Protection	: IP 44	: IP 55

### MATERIAL OF CONSTRUCTION

Rotor (Impeller)	: Stainless Steel
Delivery Casing	: Cast Iron
Motor Body	: Cast Iron
Pump Shaft	: Carbon Steel

### APPLICATIONS

- Priming of large pumps
- Evacuation of air from suction pipes and chambers
- Twist drilling machine, removing water from pulp layer, labelling, bottle filling, de-odorising
- Drying, evaporation, distillation, filtration, sterilisation, condensation, degasification, sucking gases
- Extrusion machines

### FEATURES

#### Wide Voltage Design

The motor is designed to withstand wide voltage fluctuations from 350 to 440 volts and reduces motor burning in case of low voltage.

#### Designed to Prevent Overloading

Lesser chances of motor burning as the motor does not get overloaded even if the pump is operated at a head lower than recommended, thus ensuring substantial cost savings due to low maintenance and breakdown.

#### Replaceable Wearing Parts

All wearing parts within the pumps are easily accessible and replaceable which facilitates ease of maintenance thereby extending the life of the pump.

#### Dynamically Balanced Rotating Parts

Minimum vibrations protect components from damages during the operations, thus ensuring consistent performance as concentricity is maintained.

PERFORMANCE CHART FOR 'KV/DV' SERIES, VACUUM PUMPS, AT RATED SPEED, 50 Hz FREQUENCY, THREE PHASE A.C. POWER SUPPLY

S. No.	Pump Model	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	Rated Speed (RPM)	VACUUM IN MM OF MERCURY							
		kW	HP	SUC.	DEL.			0	100	200	300	400	500	600	640
								AIR FLOW RATE IN CUBIC METERS PER HOUR							
1	KV 20 Monobloc	0.75	1.0	20	20	210/415	2700	20.5	18.0	14.5	11.5	8.0	5.0	1.8	-
2	KV 30 Monobloc	2.2	3.0	32	32	415	2840	55.0	46.3	38.0	30.0	21.3	13.0	5.0	-
3	DV 40 Coupled Set / Bare Pump*	3.7	5.0	40	40	415	1450	73.0	65.0	57.0	46.0	34.0	22.0	8.0	5.0
4	DV 50 Coupled Set / Bare Pump*	7.5	10.0	50	50	415	1450	162.0	138.0	115.0	88.0	68.0	44.0	14.0	8.0

**Note:** KV 20 is also available in single phase. Performance applicable for air at NTP based on employment of clear water at 30°C as working fluid.

\*Coupled sets with Energy Efficient IE2 motor.

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