



Enriching Lives



KV/DV
VACUUM
PUMPS



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KIRLOSKAR BROTHERS LIMITED

A Kirloskar Group Company
Established 1888

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OUR COMPANIES



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KV/DV VACUUM PUMPS

MATERIAL OF CONSTRUCTION

	Standard Supply	Optional Supply
Rotor (Impeller)	: Stainless Steel	
Motor Body	: Cast Iron	
Delivery Casing	: Cast Iron	
Shaft	: Carbon Steel	Stainless Steel
Protection	: "IP 44" (KV Monobloc) / "IP 55" (DV Couple Set)	
Sealing	: Gland Packed (DV Bare / Couple set) / Mech. Seal (KV Monobloc)	
Class of Insulation	: "B" (KV/ Monobloc) / "F" (DV Couple set)	

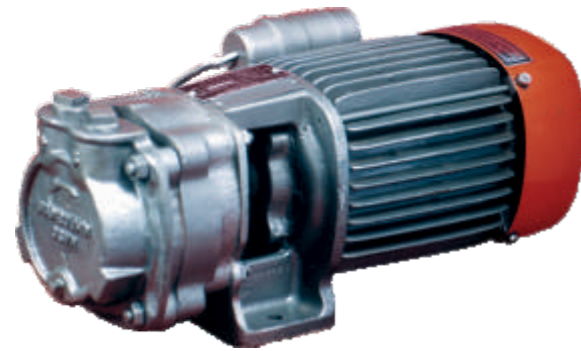
FEATURES

- Motor withstand wide voltage fluctuations
- Impeller of high quality stainless steel material
- Designed to prevent overloading and motor burning
- Sturdy casing, provided with foot, suction and delivery nozzles
- Rotor having outwardly bent multi-blade design held on shaft by shaft sleeve nuts
- Replaceable wearing parts
- Models with 'B' class insulation and IP - 44 protection. In case DV couple set with 'F' class insulation & IP 55
- Deep stuffing box for better sealing
- Dynamically balanced rotating parts ensure minimum vibrations

APPLICATIONS

- Priming of large pumps
- Evacuation of air from suction pipes and chambers
- Specific Applications: Twist drilling machine, removing water from pulp layer, labeling, bottle filling de-odorising
- General Applications: Drying, evaporation, Distillation, filtration, sterilisation, condensation, degasification, sucking gases
- Extrusion machines
- Printing machines
- Confectionery machines

KV



PRODUCT SNAPSHOT

Range and Technical Specification

Vacuum	: Up to 650 mm of Hg
Air flow rate	: Up to 50 m ³ /hr (at mean sea level)
Power rating	: 0.75 - 2.2 kW (1-3 HP)
Voltage range	: 180 - 240 V (1Ph) 300 - 400 V (3Ph)

DV



PRODUCT SNAPSHOT

Range and Technical Specification

Vacuum	: Up to 660 mm of Hg
Air flow rate	: Up to 162 m ³ /hr (at mean sea level)
Power rating	: 3.7 - 7.5 kW (5 - 10 HP)
Voltage range	: 415 +/-10V (3Ph)



Approximate performance of 'KV and DV' Series, Monobloc/Coupled Set Vacuum Pumps, at rated speed, 50 Hz, A.C. power Supply:

KV MONOBLOC AND DV BARE SHAFT / COUPLED SET VACUUM PUMPS													
Pump Model	Power Rating		Pipe Size (mm)		VACUUM IN MMOF MERCURY								Rated Speed (rpm)
	kW	HP	Suc.	Del.	0	100	200	300	400	500	600	640	
					AIR FLOW RATE IN CUBIC METRES PER HOUR								
KV 20 Monobloc	0.75	1	20	20	20.5	18	14.5	11.5	8	5	1.8	-	2700
KV 30 Monobloc	2.2	3	32	32	55	46.3	38	30	21.3	13	6	-	2840
DV 40 Coupled set/ Bare Pump	3.7	5	40	40	73	65	57	46	34	20	8	-	1450
DV 50 Coupled set/ Bare Pump	7.5	10	50	50	162	138	110	88	68	44	14	-	1450

Standard supply of KV 20 pumpset is in single phase and KV 30 in three phase A.C. power supply. However, KV 20 three phase A.C. power is supplied against requirement.

Note: Performance applicable for air at NTP based on employment of clear water at 30°C as working fluid.