

# FD Series Rotary Pumps

MODELS: FD-60



The HINDHIVAC "FD" Series Rotary Pumps Vane Pumps are designed to address the needs of all the major requirements like research as well as industrial applications.

Raw Materials are chosen keeping in view of continuous pumping requirements. Pressure tight, special grade, fine grain castings & high carbon steel for internal parts are hardened and ground to close tolerances. These ensure noise and vibration at negligible minimum levels. Compactness and minimum oil charge are the highlights of the design feature.

These pumps have a gas ballast facility to pump most condensable vapours without any notable oil contamination. An anti-suck-back facility prevents oil entering the system in the event of pump being switched off due to power failure. An integral Oil pump ensures lubrication and sealing to build high vacuum. These pumps find application in the area like Impregnation, Nuclear particle study, Electronic Tube evacuation, Lamp manufacturing Industries, Air conditioning and Refrigeration, Freeze Drying, Gas circulation, vacuum forming, Filtration, Metalising, Distillation, Vacuum Metallurgy, etc.

## SALIENT FEATURES:

- Positive Anti-suck-back.
- Built in facility to prevent back streaming of oil.
- Effective gas ballast.
- Low oil charge
- Air cooled
- Rated for continuous running.
- Compact and light weight.
- High water vapour handling capacity.
- Quiet and vibration free.
- Rugged construction for reliable performance.

## TECHNICAL SPECIFICATIONS - FD 60

Nominal pumping speed	
M <sup>3</sup> /Hr	60
Lit/Min	1000
Ultimate partial pressure	
(on Mcleod Gauge)	
Gas Ballast closed (m.bar)	5x10 <sup>-4</sup>
Gas Ballast open (m.bar)	1x10 <sup>-2</sup>
Weight (kgs)	115
Max. nominal power	
rating(K.W.)	2.2
Pump rotational speed	
(at no load r.p.m)	1340-1440
Oil capacity (Lits)	6
Inlet flange (ISO-KF)	KF-40
Recommended oil	HINDHIVAC Molecular Distilled Oil: Grade MD-504

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