



Fields of Applications

Movitec VCF pumps are employed for general water supply, sprinkling, irrigation and pressure boosting duties for warm, hot and cooling water re-circulation and condensate transport. They are installed in boiler feed circuits, domestic water supply systems, washing plants and filter systems. They are used for fire fighting.

Design

Multi-stage, vertical high-pressure centrifugal pumps, with suction and discharge of identical nominal diameters arranged opposite to each other (in-line design).

Bearings

All VCF pumps are supplied with tungsten carbide plain bearing at the hydraulic rotor.

Shaft Seal

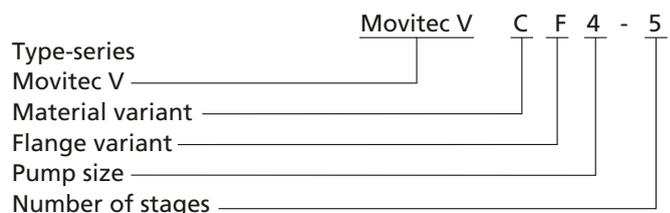
Single-acting, uncooled mechanical seal in accordance with EN 12756.

Drive

Electric motor, 50 Hz, air-cooled, 2 pole, standard KSB motor with main dimensions to IEC. Other motor makes subject to prior consultation with KSB.

Variants : Single-phase A.C. motor, frequency-controlled drives (on request).

Designation



Flange variants/connections : F = round flange

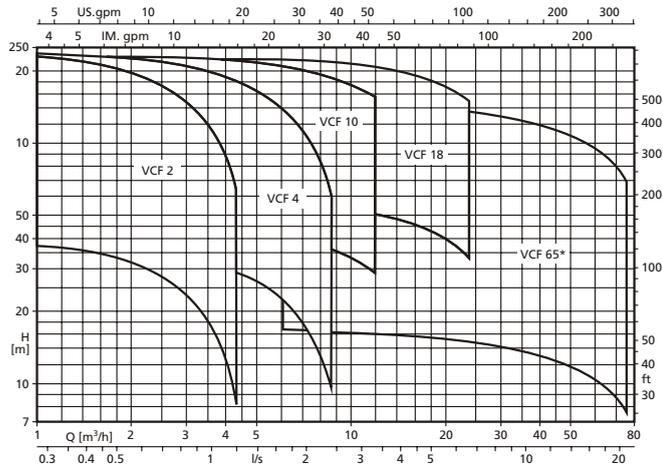
Material variants : C

Part No.	Description	Material
101	Pump casing	JL 1040
108	Stage casing	1.4301
160	Cover	1.4301
10-6	Pump shroud	1.4301
210	Shaft	1.4005
230	Impeller	1.4301
341	Motor stool	JL 1040
412	O-ring	EPDM E425
525	Spacer sleeve	1.4301
529	Bearing sleeve	Tungsten-carbide
1)	Bearing	Ceramic
890	Baseplate	JL 1040
905	Tie bolt	1.4057
920	Nut	1.4301
932	Circlip	1.4571

1) Rigidly connected to stage casing 108

Selection Charts

n = 2900 1/min



* on request

Operating Data

Capacities	Q	23.5 m ³ /hr.
Total heads	h	228 m
Pressure	p	25 bar
Temperature	t	-15 to +120°C

Design Features Movitec VCF

Universal high-pressure pump

- up to 25 bar
- -15°C to 120°C

Spacer-saving vertical design

Reliable, easy-to-service shaft seal

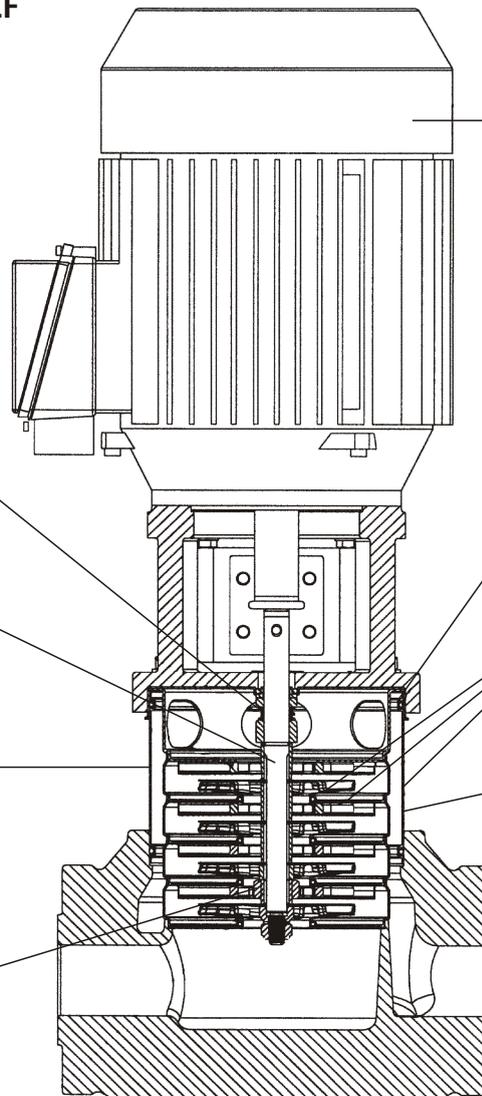
- standardized mechanical seal to EN 12756

Easy-to-fit shaft of high-alloy steel with two flat faces for strong shaft/impeller construction

Low noise, since the flow noise is dampened by water-filled shroud

Highly wear-resistant and maintenance-free plain bearing of tungsten carbide / ceramic lubricated by the medium

- self-cleaning by forced flushing



Easy-to service, robust three-phase motor

- type of enclosure IP 55
- insulation class F

Leak-free and resistant to thermal shocks

- thanks to pump shroud
- due to confined O-rings

Corrosion-resistant :

- hydraulic parts and pump shroud of high-alloy stainless steel

High operating reliability ensured by torsion-proof pump shroud

- only 2 seal elements

Simple installation and piping layout thanks to in-line design

- unsusceptible to outside nozzle forces and moments



KSB PUMPS LTD.

Water Pumps Division, Plot No. E3 & E4, MIDC Sinnar, Nashik 422 103.
Tel.: 02551 - 230252 / 53 / 55 / 56 Fax : 02551 - 230254