

Application Lubrication oil and fuel oil for M/E, A/E and G/E

Specification				
Capacity	4~35m ³ /h (below 4m ³ /h by 1800min ⁻¹)			
Fluid	1.5~600 mm²/s			
	Lubrication oil	Turbine oil, Engine oil, Hydraulic oil, etc.		
	Fuel oil	Kerosene, Diesel oil, Heavy oil Marine fuel • MFO (Marine Fuel Oil) : CFO, MFO380 (ISO 8217) • MGO (Marine Gas Oil) : DO, DMA & DMX (ISO 8217) • MDO (Marine Diesel Oil) : AFO, DMB (ISO 8217)		
Working Pressure	Max. total press. 1.0MPa (suc. press0.05 \sim +0.5MPa / dis. Press. \sim 1.5MPa)			
Standard Rotating Speed	3600min ⁻¹ (60Hz×2P)			
Temperature	Max. 150°C (Oil temperature)			
Flange	Both suction and discharge are JIS 10K FF (JIS B 2239) Discharge flange can be JIS 16K FF			

Magnetic Coupling

Structure

Main Parts Material

Casing : FC200 Power rotor : S45C

Idler rotor : FCD500

*Surface treatment is standardized due to expected severe operating conditions.

Non-Seal Structure by Magnetic Coupling

- Power Transmission:Contact-free torque transmission from the motor to the pump rotors.
- Hermetic sealing : Static sealing between the shround and the pump casing.

Bearing

Self-lubrication : The rotors run in handling oil lubricated bearings.

Simple Structure

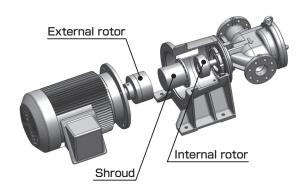
- Easy assembling and elimination of shaft seal related parts.
- Easy overhauling and simple alignment procedure from spigot joint.

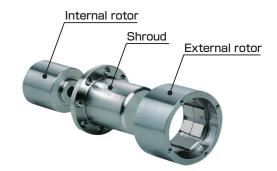
Comparison with The Conventional

- Fewer parts and simpler structure.
- Non-leak structure by hermetic sealing: no shaft penetration.
- Simple alignment by the spigot jointed motor frame and the direct rigid coupling.

Warning And Caution

- Strong magnetic force.
- · Don't come close to the coupling who wearing healthcare products or instruments.
- *Especially the person wearing heart pacemaker.
- · Don't locate equipment close to the coupling which are easily influenced.
- · Always use maker supply overhauling jig. Without them, working on the coupling is dangerous.
- · Avoid any substance stuck on the magnet. (Remove foreign substances such as iron particles and sludge in the oil and/or the pump surrounding as much as possible.)
- *Periodical overhauling and cleaning is recommended.
- Larger coupling loss (Eddy current & Hydraulic loss) * Compare with conventional seal pumps, the motor power requirement is higher even if the same specification. Please contact us.





Component & Standard Material			
External rotor	Steel / permanent magnet		
Internal rotor	Steel / permanent magnet		
Shroud	Stainless		

Max.Shroud Pressure 1.6MPa

Max. Magnet Temperature 150℃

Max. Rotation Speed 3600min-1

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• The sizes and specifications of the products in this catalog are subject to improvement.