

# TSFA & TSFB

Process Pump



### About.

TSFA is have an extensive range of applications and rugged design that is particularly suited to tough duties, such as paper stock with a consistency of 6-8 %.

TSFB are available with closed or semi open impellers.

They are therefore suitable for clean and solids-bearing liquids, except where risk of clogging exists due to large solids or high concentrations of fibrous material.





**Pump casing**

Sturdy construction with generous wall thickness combined with a smooth contour design gives good protection against erosion and corrosion.

The larger pumps have a double volute casing reducing radial forces and shaft deflection.

**Wear disc.**

TSFA: The pump inlet is protected by a re-placeable wear disc. All wear discs are sealed by O-rings.

TSFB: With closed impeller the wear disc is re-placed with wear ring.

**Impeller.**

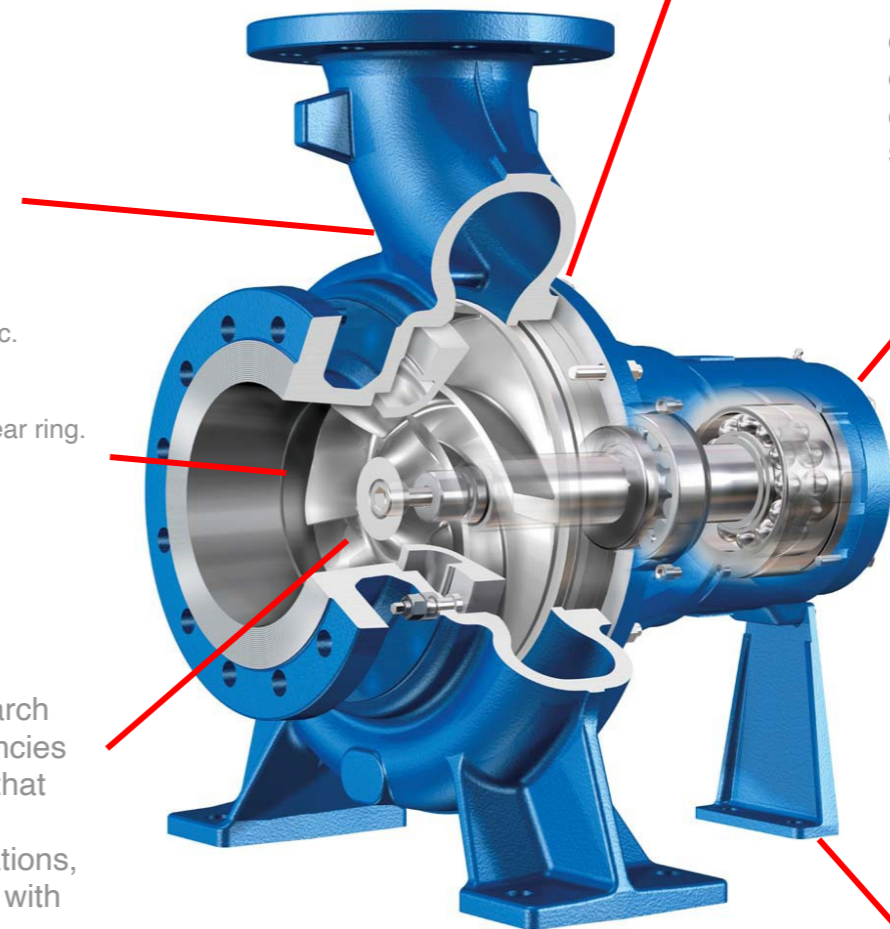
Through continuous research all TSFA have high efficiencies with semi open impellers that have large free passages. For low pulsations applications, we recommend the TSFE with fan pump impeller.

**Lantern**

The heavy duty lantern with easy maintenance access connects the pump casing to the bearing assembly.

**Rigid bearing assembly design.**

Rigid shaft with minimized deflection creating excellent working conditions for the mechanical seal.



**Support foot**

A strong foot supports the bearing assembly

**Construction: TSFA**



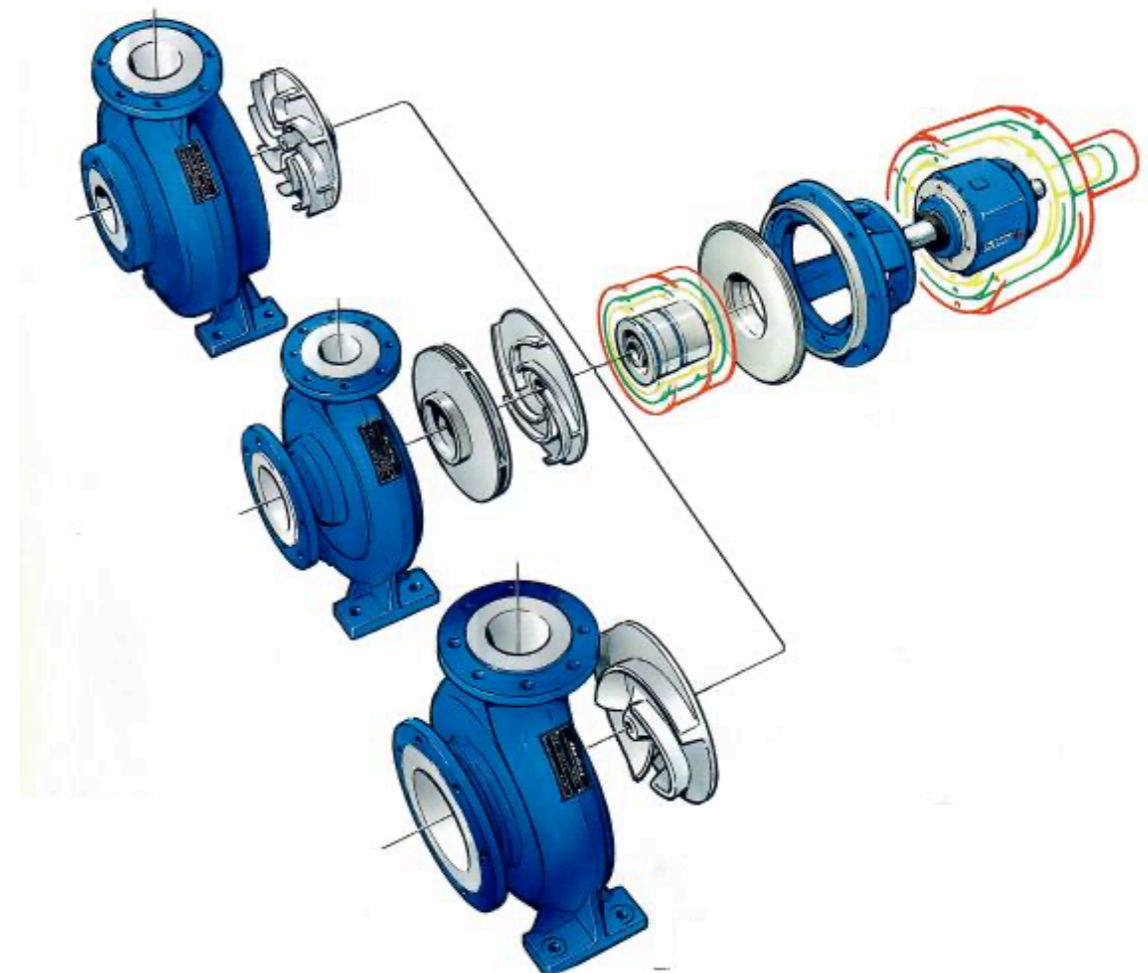
### Modular system.

TSFA & TSFB are in the same modular system family as the TSFE.

The bearing assembly is the same in all size for TSFA, TSFB & TSFE.

Shaft for TSFA TSFB is the same for each size while the TSFE shaft is designed with a hexagon instead of a key shaft.

Casing covers for the three pump types is replaceable with each other as the lanterns and seals.



### Seal arrangement.

- Gland picking seal.
- Mechanical seal DIN PSI cartridge.
- Internal mounted cartridge seals TSF SE1 & SE2.
- External mounted cartridge seals.



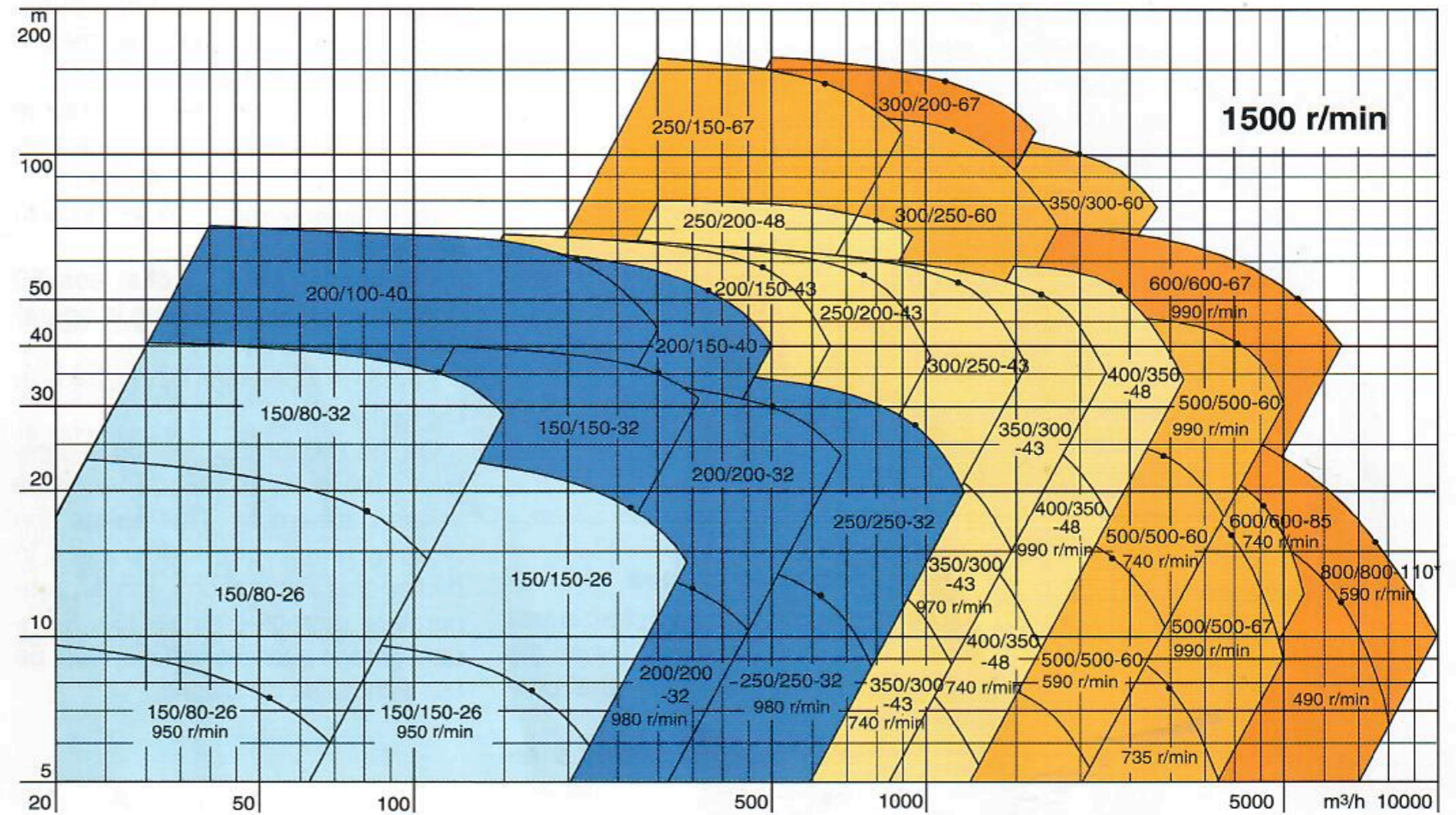


Material:

	Cast Iron SIS0120	Duplex SIS2324	Super Duplex	KTNR-E
Pump casing	✓	✓	✓	✓
Wear disc	✓	✓	✓	✓
Casing cover	✓	✓	✓	✓
Impeller		✓	✓	✓
Shaft		✓		
Shaft sleeve		✓		
Lantern	✓	✓		
Bearing Assembly	✓			



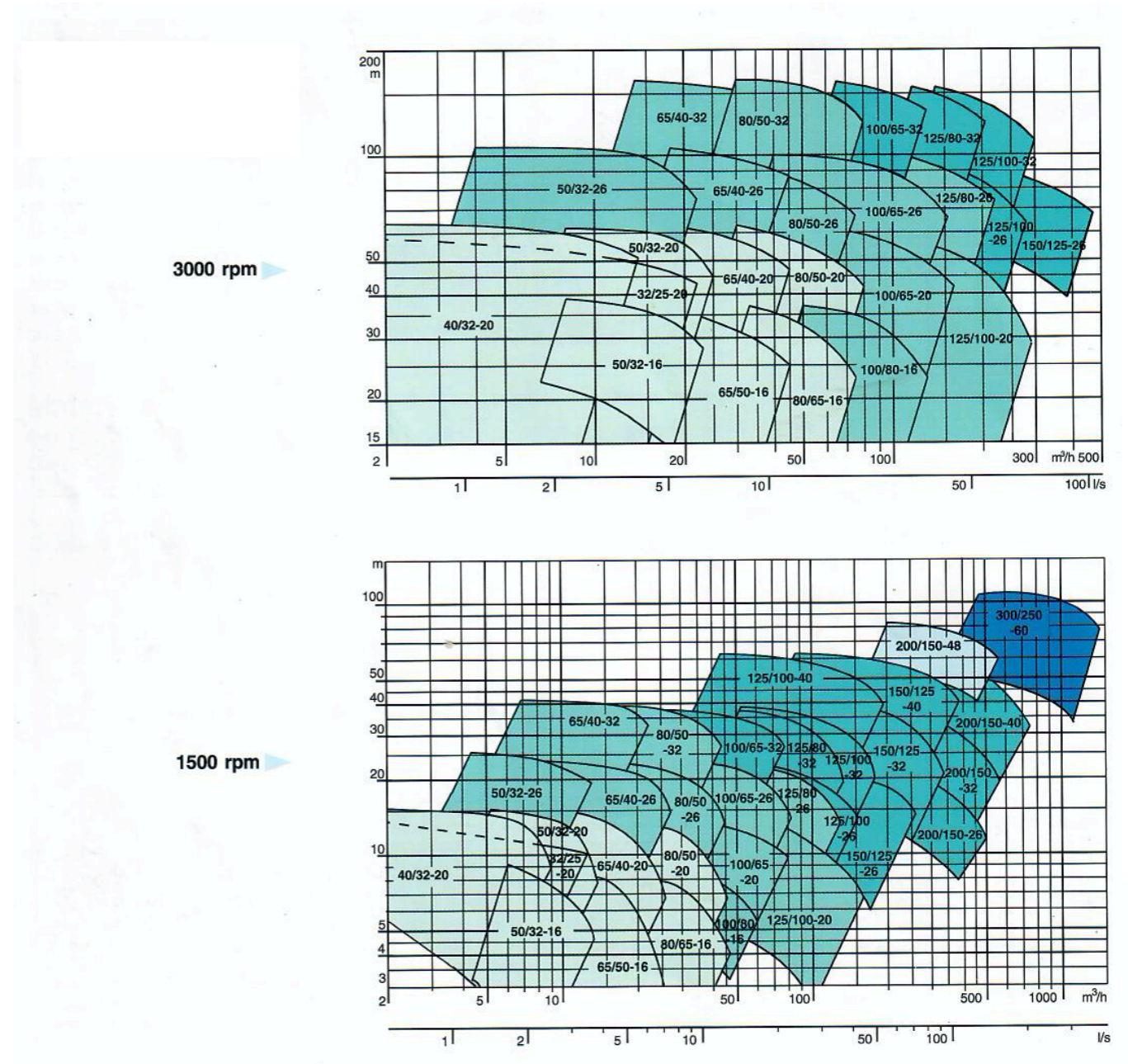
Performance TSFA:







Performance TSFB:







**Total reliability is ensured by**

- Robust design
- Secure impeller fastening
- Sturdy bearing assembly
- Optimum sealing of shaft/wear disc
- Dense QH-coverage
- Various impeller types
- System PSI - Pump Seal Integration
- System PMI - Pump Mill Integration
- Technical standards