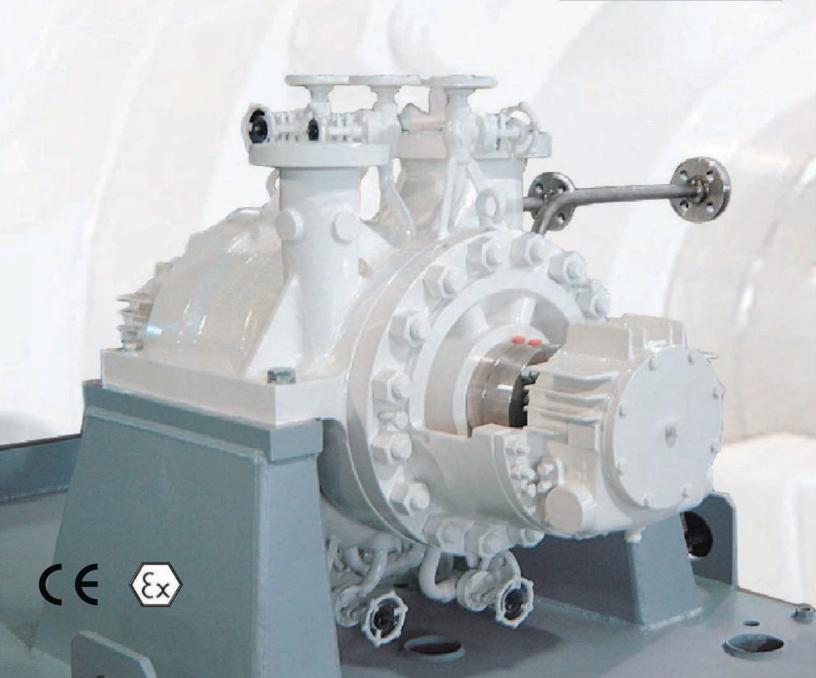


KSMK
Between-Bearings,
Multistage, Radially Split
Double Volute Pump

BB2 Type

API-610,10th edition ISO 13709

MARELLI

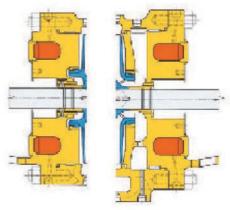


Optional Features

Sundyne Marelli provides the KSMK pump series with a range of customized features, to meet specific application requirements.

For High Temperature

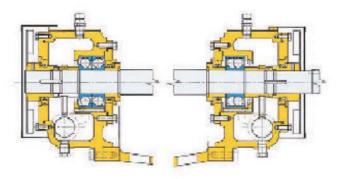
· Cooled mechanical seal chamber.



 External cooling for bearing housing with finned heat exchanger fed with inert fluid and/or water.



 Convection venting for bearing housing with a low noise fan placed at rear in coupling side.

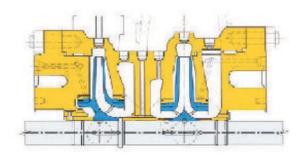


For Lubrication System

- Purge ports with drain valve. Test gauges for condition analysis.
- Oil mist lubrication system, with purge ports, is outboard for assuring mist flow through each bearing.

For High Suction Pressure

- Heavy duty bearing housings designed for high suction pressure applications.
- Mechanical seals to meet safety and environmental requirements.
- Pump casing and seal chamber dimensioned for high suction pressure.
- Engineered bearing solutions are available.



For Coking Services

- Backwash system for wear rings and neck bushing.
- Specific coke crusher available upon request.

Baseplate Designs

- Pre-grouted and non-grouted for all types of drivers.
- Special larger bases designed to match oversize drivers, pumps and turbines.
 Special designs are also available for extra mechanical stress situations.
- Tailor made baseplates for off-shore applications.
- Skid mounting and oil field designs are also available.

Other Available Solutions

 Lateral right/left side pump discharges for matching existing pipe work at plant.

Sundyne Marelli KSMK Series

Precision engineered pumps meeting rigorous customer requirements in a multitude of applications, while reducing the total life cycle cost (LCC) and improving MTBM.

Sundyne Marelli

More than 40 years of experience in centrifugal pump design, development, manufacturing and service, to fulfill the latest standards for petroleum, petrochemical process and heavy duty processing industries, as full compliance machinery.

Applications

Sundyne Marelli, develops tailor made solutions for the high-pressure movement of water, hydrocarbon, CO2 and other process liquids. Our solutions meet the most stringent customer specifications for the following heavy industries:

- Refineries
- Petrochemical plants
- Crude oil and gas pipelines
- Off-shore and on-shore installations for petroleum and gas
- Reverse osmosis
- Water injection
- Synfuels
- High pressure heavy-duty industry applications
- Other intensive high-pressure services and systems, that demand high reliability and efficient equipment

Design

Sundyne Marelli KSMK pump series are horizontal radially split one and two stage, between bearings, centerline mounted, double volute centrifugal pumps. KSMK BB2 type pumps fully complies to API-610 10th edition / ISO 13709 standards.

Materials

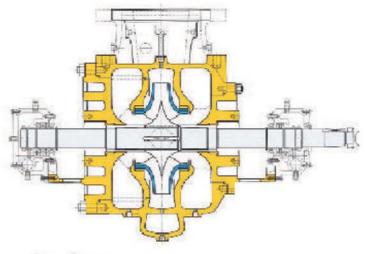
According to Table H1 – API-610 10th Edition.
OTHER MATERIALS AND METALURGIES
AVAILABLE UPON REQUEST

Operating Data

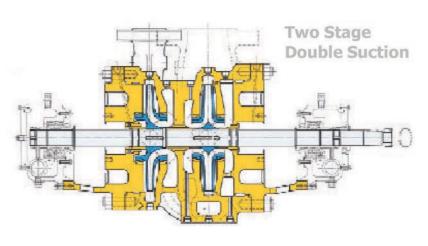
- ► Capacities: to 3600m³/hr (16000 usgpm)
- ▶ Heads: up to 720 meters (2400 feet)
- Max Working Pressure: up to 60 bar (870 psi)
- ▶ Temperature Range: -150° C (-238° F) to 450° C (842° F)
- ▶ Rotational Speed: up to 4000 rpm

Materials

According to Table H1 – API-610 10th Edition.
OTHER MATERIALS AND METALURGIES
AVAILABLE UPON REQUEST



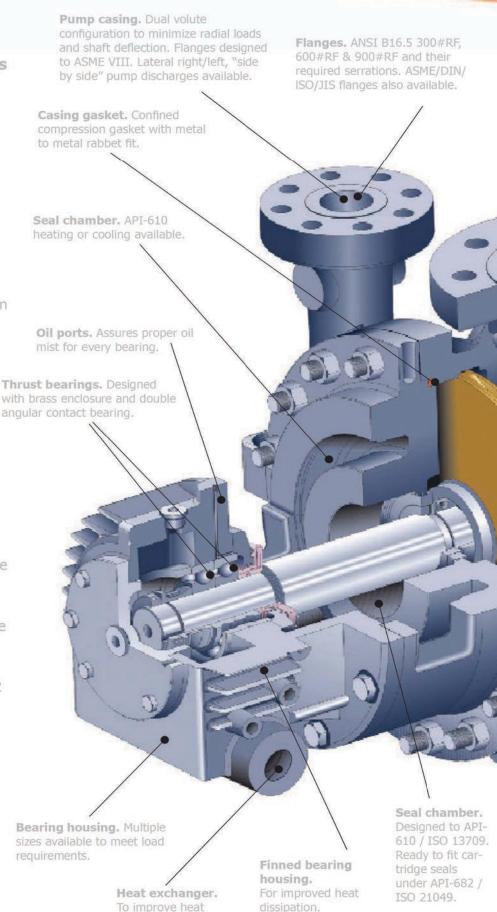
One Stage
Double Suction

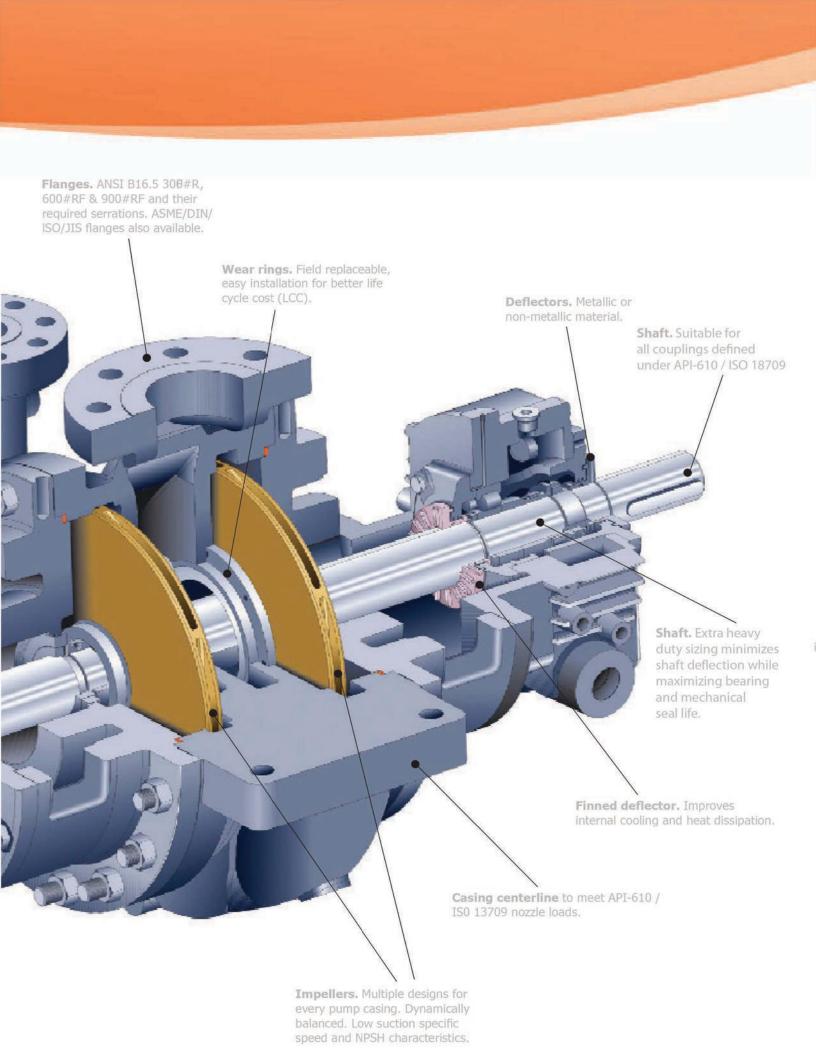


API-610,10th Edition ISO 13709 BB2 Type

Standard Features and Benefits

- API-610 10th Edition / ISO 13709
 Full Compliance for reliability and accountability.
- All pumps within KSMK series are suitable for operation at 50 Hz and 60 Hz.
- Choice of multiple impellers in each hydraulic pump casing for maximum efficiency over a wide operating range.
- Centerline mounted pump casing maintains alignment during operation at elevated temperatures.
- Low suction specific speed and low NPSH characteristics, with a wide choice of impellers for optimum efficiency over a large operating range.
- Finned bearing housing to provide maximum heat dissipation under API-610 compliance.
- Deflection system with fins to improve cooling.
- Labyrinth bearing seals to avoid external contamination and maximize seal and lubrication life.
- Highly maintainable and replaceable wear rings to reduce overall life cycle costs (LCC)
- Mechanical seal chamber suitable for cartridges defined under API-682
 3rd Edition. Also complies to API-610 standards.
- Socket welded flanged drains and vents as standard. Gussets and bracing also available.
- A variety of instrumentation options are available for monitoring all key operating parameters (temperature, pressure, vibrations, etc.)

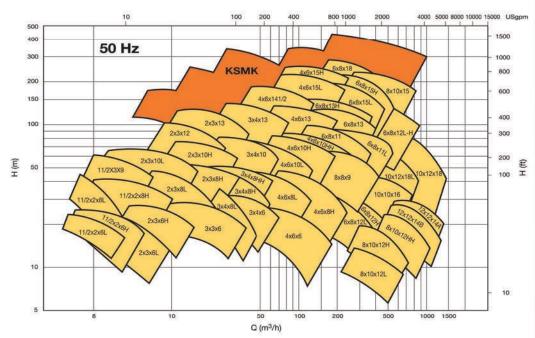


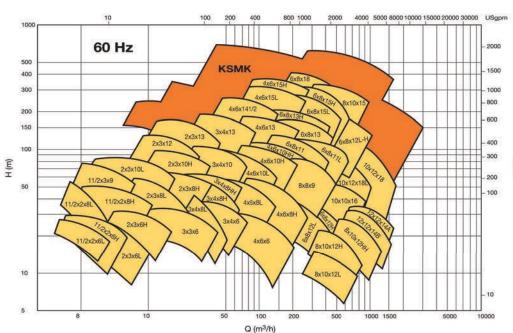




NOTES:

Performance Curves





To locate the global representative, distributor or authorized service center nearest you, or for additional information please visit www.sundyne.com

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