

VSMK, VSMKD, VND Vertical Sump Pumps



Sundyne Marelli

More than 45 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 medimum-pressure movement of water, hydrocarbon, CO2 and other process liquids. Our solutions meet the most stringent customer specifications for the following heavy industries:

- Refineries
- Desalination plants
- Process charge
- API basins
- Condensate extraction
- Tank Farms
- > Tanks fluid transfer
- Petrochemical plants
- Fertilizers
- > Oil fields and terminals
- Off-shore and on-shore installations for petroleum and gas
- > Reverse osmosis
- > Synfuels
- > Paper mills
- Pharmaceutical industry
- Other intensive high-pressure services and systems, that demand high reliability and efficient equipment

Design

Sundyne Marelli VS4 type sump pump series are vertical process pumps, single volute, radial split, self-venting, vertical split casing and single stage. End sucction, top discharge. Hydraulically balanced impeller, easy to remove without disconnecting the piping. Shaft completely covered with shaft-sleeve. Oil lubricated bearing support. Semi-open impeller construction is also available.

Operating Data

- > Capacities: to 3180 usgpm (800m³/hr)
- > Heads: to 656 feet (200 m)
- > Temperature Range: to 450 °F (232 °C)
- > Pit Depths: to 30 feet (10 m)

Materials

PART	According to Table H1 - API-610 10th Edition						
	S1	S5	S6	S8	C6	A8	D1
Pressure Casing	Carbon Steel (A216 WCB)				12% CHR	316 AUS	Duplex
Impeller	Cast Iron	Carbon Steel	12% CHR	316 AUS	12% CHR	316 AUS	Duplex
Wear Rings	Cast Iron	12% CHR Hardened		Hard-faced 316 AUS	12% CHR Hardened	Hard-faced 316 AUS	Hard-faced Duplex
Shaft	Carbon Steel	AISI 4140		316 AUS	12% CHR	316 AUS	Duplex
Bearing Housing	Carbon Steel (A216 WCB)						
Case Gasket	AUS, Spiral Wound			316 AUS Spiral Wound	AUS, Spiral Wound	316 AUS Spiral Wound	Duplex SS Spiral Wound
Column Discharge Pipe	Carbon Steel					316 AUS	Duplex

Optional Features

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

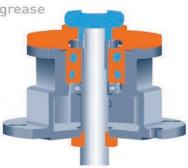
Lubrication with constant level oiler.

Optional lubrication with pure or purge oil mist - Optional lubrication with grease



Labyrinth seal to avoid external contamination.

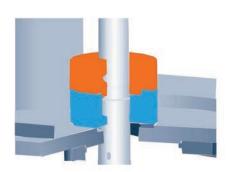
Optional Inpro/Seal labyrinth seals



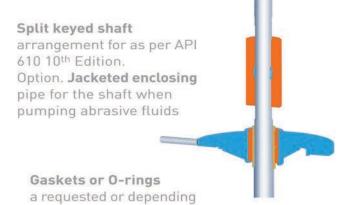
Bearing housing with double row bearings with machined brass or iron cages.



Transverse alignment positioning **jackscrews** for electric motor



Seal chamber. Designed to API-610 / ISO 13709. Ready to fit cartridge seals under API-682 3rd Ed / ISO 21049
Optional sealing with soft packing and retainer



on the service conditions

Wearing rings. Field replaceable, easy installation for better life cycle cost (LCC)

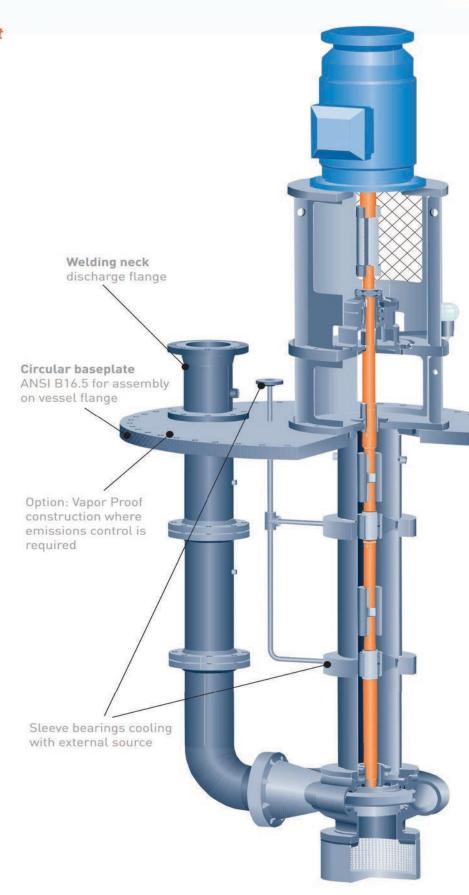
Sundyne Marelli V54 Series

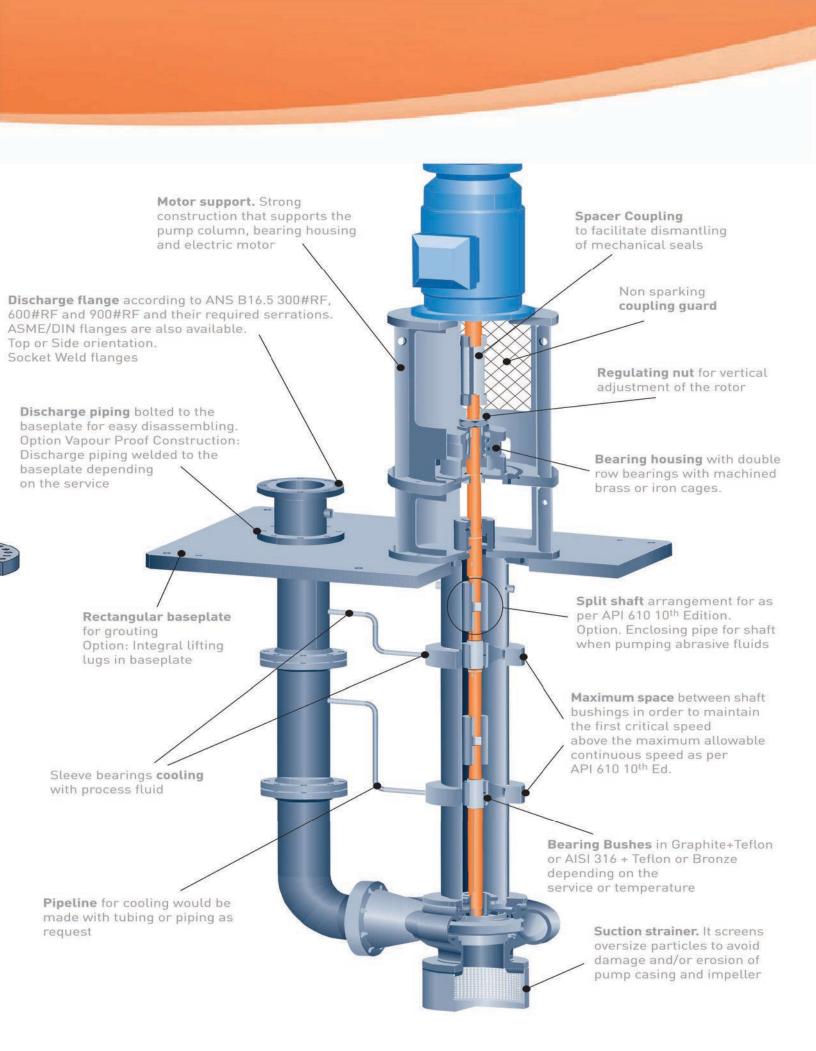
Precision engineered pumps meeting rigorous customer requirements wide range of applications, while reducing the total life cycle cost (LCC) and improving reliability (MTBF & MTBR).

API-610, 10th edition full compliant ISO 13709 VS4 Type

Standard Features and Benefits

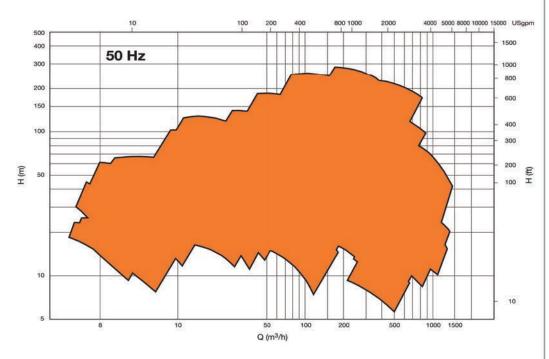
- API-610 10th Edition / ISO 13709
 Full Compliance for reliability and accountability.
- All pumps within VS4 series are suitable for operation at 50 Hz and 60 Hz.
- Higher efficiencies. Due to a design with tangential discharge and wide variety of hydraulics to match all types of duty points.
- Labyrinth 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 API-682
 3rd Edition. Also complies to API-610 standards.
- Choice of multiple impellers in each hydraulic pump casing for optimum efficiency over a wide operating range.
- A variety of instrumentation options are available for monitoring all key operating parameters (temperature, pressure, vibrations, etc.).

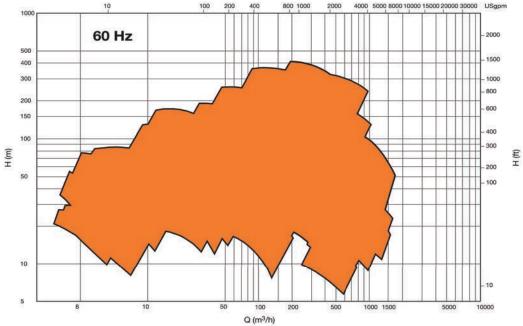




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To locate the global representative, distributor or authorized service center nearest you, or for additional information please visit www.sundyne.com

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