B 9004 E E

DET NORSKE VERITAS MANAGEMENT SYSTEM CERTIFICATE DNV ISO 9001 | DET NORSKE VERITAS MANAGEMENT SYSTEM CERTIFICATE DNV ISO14001 | DNV·GL OHSAS 18001 | CE

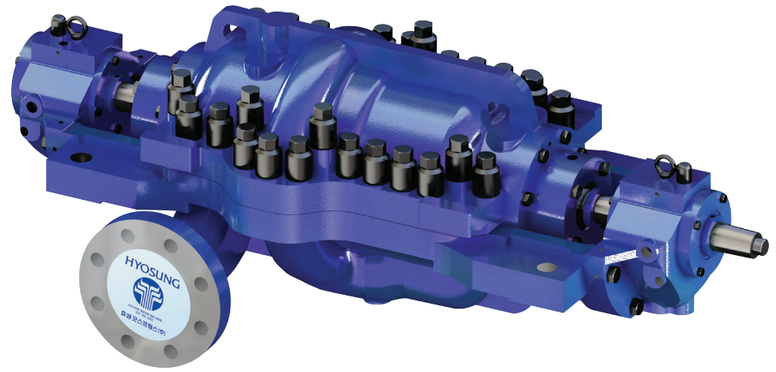
HYOSUNG GOODSPRINGS INC.

SAD/SADB

SA-series axial split diffuser type, multi-stage pump/back to back

API610 ISO13709

HYOSUNG GOODSPRINGS PUMPS & WATER



www.hsgoodsprings.com

Springs of Living Water

HYOSUNG GOODSPRINGS INC.

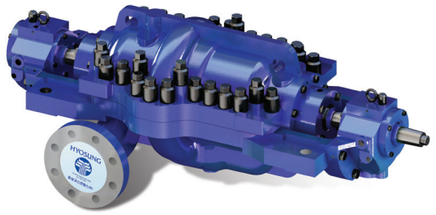
HEAD OFFICE (04144) 6F, HYOSUNG Bldg., 119 Mapo-daero, Mapo-gu, Seoul, Korea TEL : 82-2-707-7000
CHANGWON PLANT / R&D CENTER (51559) 303 Gongdan-ro, Seongsan-gu, Changwon-si, Gyeongnam, Korea TEL : 82-55-279-7861

DIRECT CONTACT

Pumps for Petrochemical, Refinery Plant	TEL : +82-2-3279-8283	E-mail : mg1776@hyosung.com
Pumps for Power Generation, Desalination Plant	TEL : +82-2-3279-8280	E-mail : vincent@hyosung.com

This brochure does not contain all informations and any warranty or guarantee of any kind.
Also, all informations herein is subject to change without notice.

SAD/SADB



HYOSUNG GOODSPRINGS MODEL SAD and SADB
API610 BB3 Type Pump
Axial split diffuser type, multi-stage pump/back to back
Model SAD denotes single suction impeller type.
Model SADB denotes double suction impeller type.

Designation

SAD	50	⁄	3
Model	Norminal Discharge Dia(mm)		Number of Stages

Applications

- Power Generation Boiler Feed
- Oil and Gas Refinery
- Petrochemical Industries
- Other Chemical
- General Industries

Rating

Capacity	To 3.4 m^3/min {900 US GPM}*
Heads	To 1500 m {4920 ft}*
Discharge Pressure	To 14.7 MPaG {2140 PSI}*
Hydrostatic Test Pressures	To 22.0 MPaG {3200 PSI}*
Speeds	50 Hz 2950 min^{-1}
	60 Hz 3550 min^{-1}
Max. Allowable Revolutions	7000 min^{-1}
Rotation	Clockwise viewed from inboard side
Temperatures	~230 °C {~445°F}*
Impeller Type	Closed
Nozzles	Side-Side
Flanges	ANSI 2500 lb, other standards also available
Shaft Sealing	Mechanical seal, conventional packing, floating seal & throttle bushing

* These values in paranthesis{} are reference only

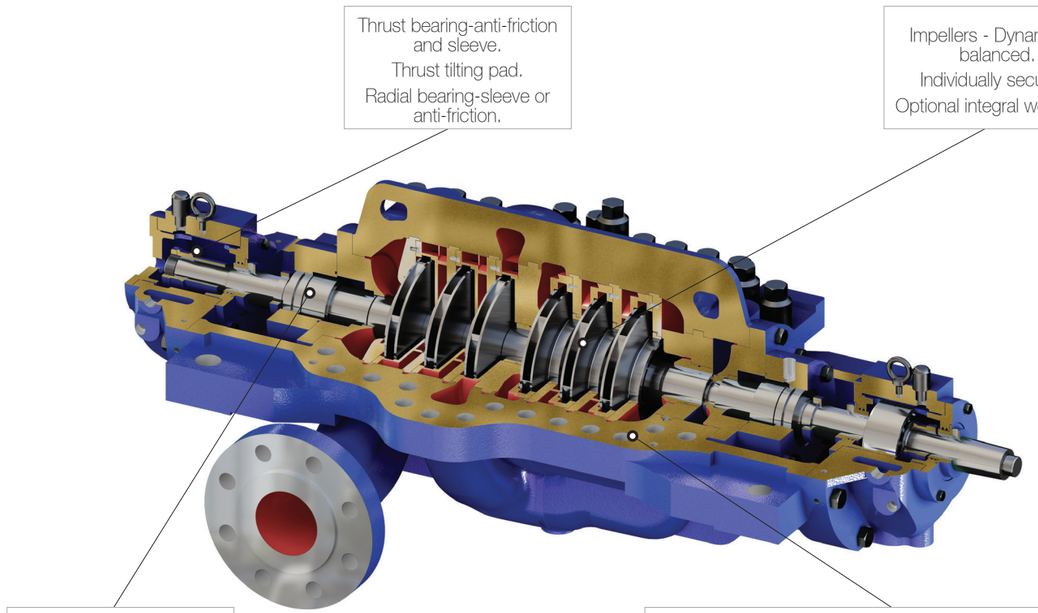
Materials

Part Name	Materials JIS/ASTM-AISI		
	C.Steel	12%Cr.Steel	316 S.Steel
Casing	SCPH2 / A216WCB	A487 CA6NM	SCS14A / A296CF8M
Impeller	FCD400	A743 CA6NM	SUS14A / A296CF8M
Shaft	SCM440 / AISI4140	SUS420J1 / AISI420	SUS316 / AISI316
Balance Sleeve	SUS420J2 / AISI420	SUS420J2 / AISI420	SUS316 / AISI316
Case Wear Ring	SUS420J2 / AISI420	A296 CA40	SUS316 / AISI316
Stuffing Box	SCPH2 / A216WCB	SCS1 / A296CA15	SCS14A / A296CF8M
Sleeve for M/Seal	SUS420J2 / AISI420	SUS420J2 / AISI420	SUS316 / AISI316
Sleeve for Packing	SUS420J2 / AISI420	SUS420J2 / AISI420	SUS316 / AISI316

Features

- Heavy duty design with centerline support
- Pump is axially and radially balanced due to diffuser and balance piston
- Interchangibility is maintained for all components of the pump
- Easy maintenance due to axial split
- Compact design applicable for wide range of liquids
- Designed in accordance with API 610/API682(ISO 13709 / ISO 21049) specifications
- Reduced installation area

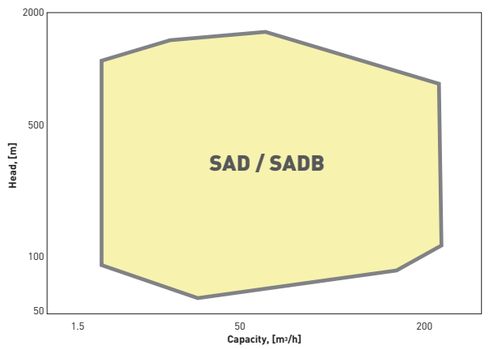
Construction



Selection Chart

50Hz

60Hz



Performance ranges shown on these charts are for preliminary selection only.