

General Description

DSP is the single stage axially split case pumps, between bearing pump, with double suction in the impeller, that is designed fully in compliance with API610/ISO13709 while shaft sealing structure in compliance with API682. DSP type pump are designed and manufactured according to API610 BB1 construction type. They are our new generation have duty service single stage split case pump with optimized hydraulic performance, high efficiency, nice reliability and reasonable construction, that is widely used for petroleum chemical liquid, crude oil, diesel and gasoline, sea water transportation, loading, on land or offshore sites.

Performance Range

- Capacity: up to 23000m³/h or tailor made
- Head: up to 260m or tailor made
- Speed: 490r/min~3600r/min
- DN Size: up to Dn1400mm
- Medium temperature: <210°C
- Frequency: 50~60Hz
- Driver: electric motor or diesel engine
- Standard: API610, ISO13709
- Flange standard: DIN, ANSI, ISO, BS, JIS, GB, JB, etc.

Application

- Crude oil, diesel, gasoline transportation, loading on land or offshore sites
- Petroleum chemical liquid transportation
- Power Station and nuclear power station
- Offshore Projects and sea water
- Fire Fighting
- Water Circulation
- Petrochemical Industry
- Oil lands

Material Available (or refer to API610, Annex H)

Casing

Cast steel
Ductile cast iron
Ni-resistant cast Iron
Cast steel
AISI304
AISI316
AISI316L
Duplex stainless steel

Impeller

Cast steel
Ductile cast iron
Ni-resistant cast Iron
Cast steel
Bronze
AISI304
AISI316
AISI316L
Duplex stainless steel

Shaft

Carbon steel ASTM1045
AISI304
AISI316
AISI316L
Duplex stainless steel

■ Design features

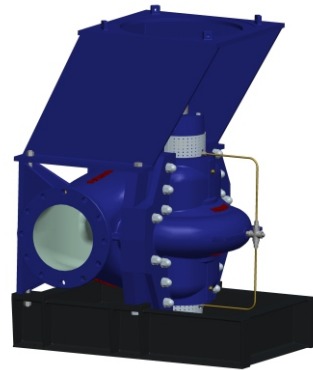
- Axially split case allow to maintenance the parts inside easily.
- Heavy duty service designed casing for high pressure and high working temperature.
- Double volute casing reduce the radial thrust to the rotor and ensure the stable working and long life time.
- Foot support and centerline support is flexible.
- 3D design help the engineer to optimize the hydraulic performance and ensure the best pump.
- Double suction impeller completely balance the axial hydraulic thrust to the pump.
- Optimized performance and CFD analysis ensure high efficiency, low NPSH, low noise, stability.
- Precision metal molds used in casting to get smooth fluid channel and excellent performance.
- The rotor is both statically and dynamically balanced.
- Both casing and impeller wear rings protect the expensive casing and impeller, prolong pump service time.
- Wear rings made of 12CHR heat treated or other material.
- Bearing assembly design is fully in compliance with API610/ISO13709 requirements.
- Rolling element bearings or sleeve bearings are ring oiled, grease lubricated, or forced splashed oil.
- Finned shape bearing bracket allow the bearing and oil cooled naturally. Optional forced fan cooling, cooling jacket, or cooling strobes inside the bearing house ensure the bearings are excellent cooled or warmed up to keep nice working and long life time.
- Heavy duty designed made from forged metal, qualified for high torque driving while pump the high viscosity liquid.
- The rotor is between bearing supported, it is not necessary to take off the upper casing to replace the bearing, mechanical seal
- Stuffing box is designed according to API682, suitable for various flushing plans.
- Multi-options for mechanical seals, such as single mechanical seal, double mechanical seal, and cartridge mechanical seal.
- The shaft sealing is absolutely reliable for the corrosive, flammable or other dangerous liquid.

■ Correction factor for viscous liquid



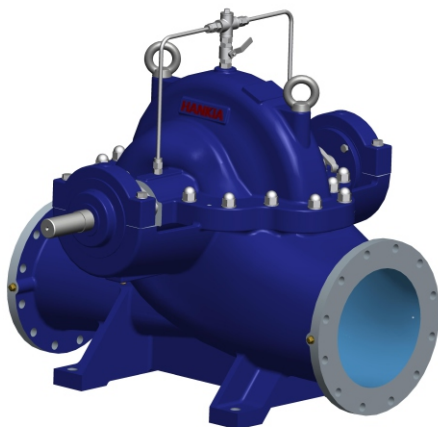
DS Type horizontal axially split case double suction pump

- Capacity: up to 25200m³/h
- Head: up to 280m



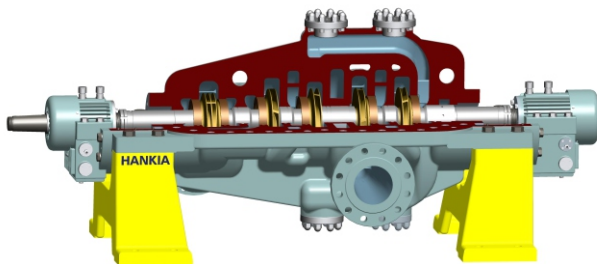
DSV Type vertical axially split case double suction pump

- Capacity: up to 25200m³/h
- Head: up to 280m



DSR Type horizontal axially split case double suction pump

- Capacity: up to 12600m³/h
- Head: up to 140m

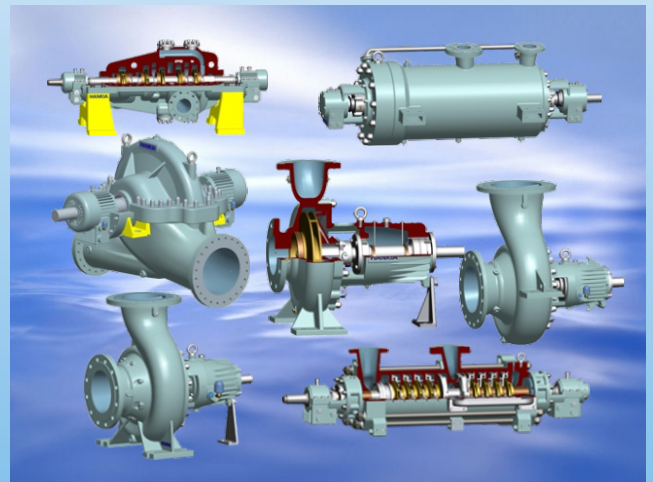


MDS Type multistage axially split case pump (API610 / ISO13709, BB3)

- Capacity: up to 3000m³/h
- Head: up to 1500m

HANKIA®

PUMP EXPERT



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