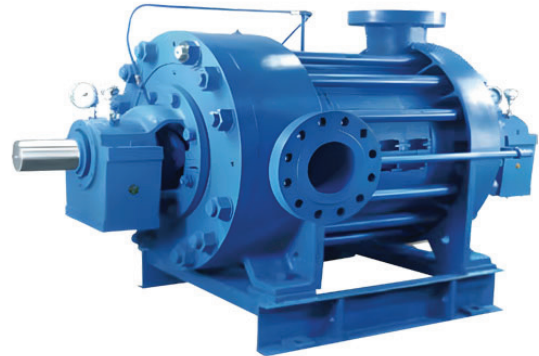


MS SERIES ELECTRICAL HIGH PRESSURE MULTISTAGE CENTRIFUGAL CLEAR WATER PUMP

MS Series merupakan pompa sentrifugal multistage bertekanan tinggi yang dirancang khusus untuk memindahkan air bersih secara efisien dengan tekanan stabil. Dengan desain bertingkat (multistage), pompa ini mampu menghasilkan head tinggi dengan performa optimal dan konsumsi energi yang relatif efisien.

Pompa air tipe MS digunakan untuk mengangkut air jernih dan cairan netral dari air tambang dengan butiran padat $\leq 1,5\%$. Granularitas $<0,5$ mm. Suhu cairan tidak lebih dari 80°C . Pompa ini cocok untuk suplai air dan drainase di tambang, pabrik, dan perkotaan.

Catatan: Bila aplikasinya di tambang batu bara, harus digunakan motor tipe antiledakan.



Technical Specifications

General Specifications

Pump Type : Horizontal Multistage Centrifugal
Fluida : Clear water/liquid netral (without abrasive particles)
Weight Range : 40 ~ 1.200 Kg
Flow Rate (Q) : 25 ~ 500 m³/h
Head (H) : 60 ~ 1798 m
Diameter : DN 80 ~ 250 mm
Fluid Temperature : $\leq 80^{\circ}\text{C}$ (clean water standards)

Note: In certain variants, the head can reach >600 m and pressure up to ± 63 bar depending on the stage design.

Mechanical Design Parameters

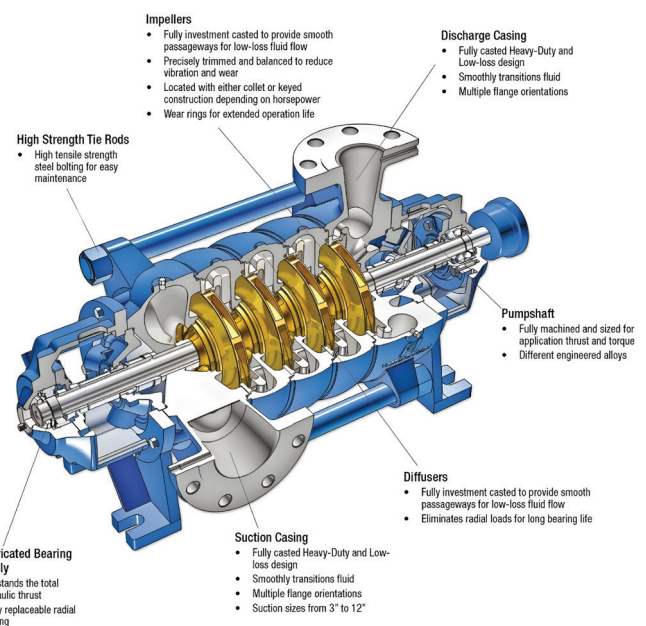
Impeller Configuration: Multistage
Impeller Type: Closed impeller
Suction Direction: Single suction
Shaft Position: Horizontal
Casing Type:
• Multi-section (segmented casing)
• Tie-bolt assembly (locked with long bolts)
Outlet: Vertical upward discharge
Inlet: Horizontal suction

Material of Construction

Casing : Cast Iron (HT250) / Stainless Steel
Impeller : Cast Iron / SS304
Shaft : SS420 / Alloy Steel
Shaft Sleeve : Stainless Steel
Wear Ring : Cast Iron / Stainless Steel

Motor & Drive System

Motor Type: Electric motor (AC)
Power Range: $\pm 0.75 - 200$ kW+ (depending on capacity)
Protection: IP44 / IP55
Cooling System: Air-cooled / forced ventilation
Mounting: Direct coupling / flexible coupling



Applications

- Pasokan air & drainase untuk tambang.
- Pasokan air untuk hotel, restoran, hiburan, pendingin ruangan, dan pendingin udara.
- Sistem penguat tekanan.
- Air umpan boiler dan kondensat.
- Pemanasan dan pendingin udara.
- Irigasi.
- Sirkulasi.
- Industri.
- Sistem pemadam kebakaran.
- Pembangkit listrik.

Recommended material Configuration (For reference only)					
Item	Clean water	Drink water	Sewage water	Hot water	Sea water
Case & Cover	Cast iron HT250	SS304	Ductile iron QT500	Carbon steel	Duplex SS 2205/Bronze/SS316L
Impeller	Cast iron HT250	SS304	Ductile iron QT500	2Cr13	Duplex SS 2205/Bronze/SS316L
Wearing ring	Cast iron HT250	SS304	Ductile iron QT500	2Cr13	Duplex SS 2205/Bronze/SS316L
Shaft	SS420	SS420	40Cr	40Cr	Duplex SS 2205
Shaft sleeve	Carbon steel/SS	SS304	SS304	SS304	Duplex SS 2205/Bronze/SS316L
Remarks: Detailed material list will according to liquid and site conditions					