KSB HDA



High Pressure Centrifugal Pump

SERIES: Multistage

Application

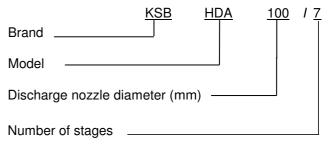
The KSB HDA series is recommended for boiler feedwater and power plants, production under pressure at pressure and descaling.

General Description

Horizontal, multistage, with radially split suction, discharge and stage casings. The sealing between the stage casings is metallic and the union of the components with rods keeps the junction of metallic surfaces under pressure. The stage casings and rods are covered with a jacket.

The pump is supported at the shaft centerline.

Designation



Operation Data

Sizes - DN 40 up to 150

Flow - up to 580 m³/h

Head - up to 1,400 m

Temperature - up to 230°C

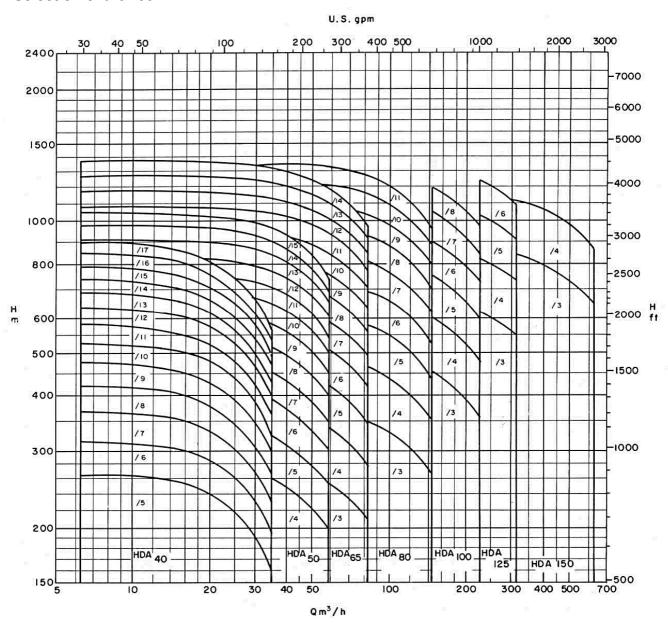
Speed - up to 5500 rpm

Final pressure - up to 116 bar





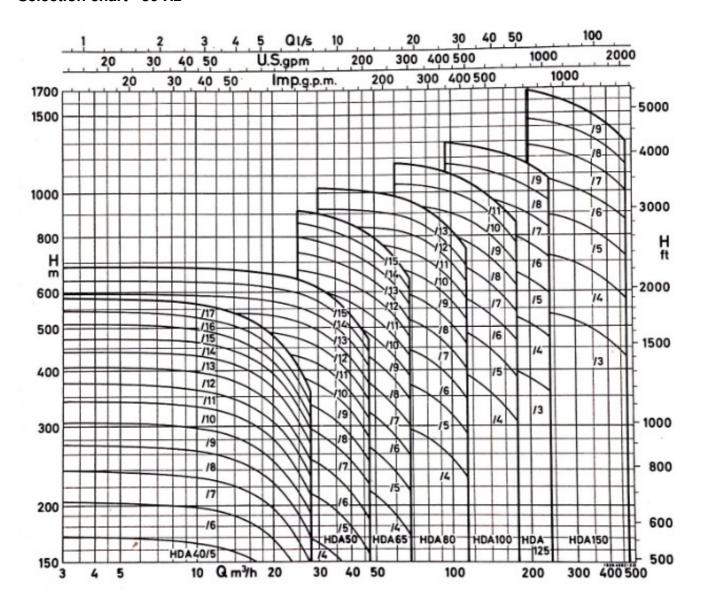
Selection chart - 60 Hz



Speed: 3550 rpm



Selection chart - 50 Hz



Speed: 2900 rpm



Technical Description

Casing

Top suction and discharge flanges. Flanges on the stage casing for extraction of one or more partial flows of feed water for use elsewhere.

Impeller

Radial, closed, single suction impeller.

Shaft

Pump shaft is provided with shaft protection sleeve and spacer sleeve.

Shaft sealing

The shaft is sealed by packing. Cooling chamber is necessary for temperatures above 105°C. Option for shaft sealing by mechanical seal is available.

Axial thrust balance

Axial thrust balance by balance disc, with balance line piping towards the suction casing or suction tank.

Bearings

The bearings are installed in two flanged bearing brackets on both ends of the pump. Bearings can be rolling bearings, or plain bearings with lubrication by oil rings or forced feed lubrication.

Accessories (Optional):

- Drive

Direct drive by flexible coupling or indirect drive by means of gearbox, electric motor, turbine, diesel motor, etc.

- Coupling

Flexible coupling sleeve to allow shaft axial displacement.

- Coupling protection

KSB standard.

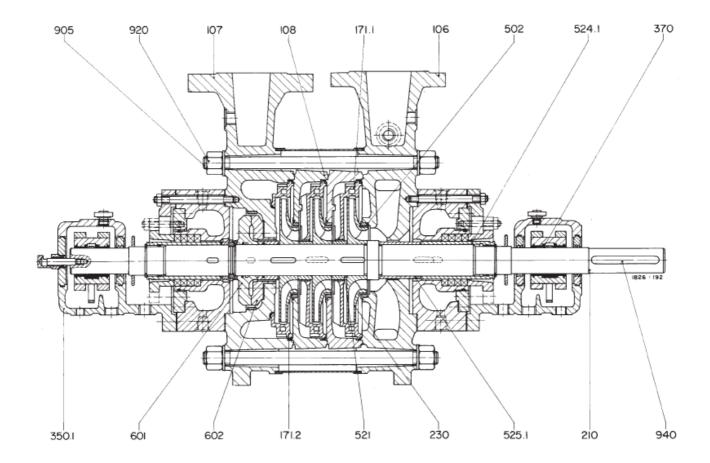
- Baseplate

KSB standard, made of steel.

- Suction strainer

Suction strainer must always be installed on the suction piping in order to protect the pump.





Parts List	
Designation	Part Number
Suction casing	106
Pressure casing	107
Stage casing	108
Diffuser	171.1
Diffuser last stage	171.2
Shaft	210
Impeller	230
Bearing casing	350.1
Bearing shell	370
Wear ring	502
Stage sleeve	521
Shaft protecting sleeve	524.1
Spacer sleeve	525.1
Balance disc	601
Balance disc seat	602
Rod	905
Nut	920
Key	940

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