

SJD-CEP  
vertical  
multistage  
can pump for  
condensate  
extraction



# Main industries and applications

Sulzer SJD-CEP pumps are specified wherever limited Net Positive Suction Head (NPSH) is available, either due to system constraints or liquids operating near their vapor pressure. Typical uses include high temperature condensate extraction, heater drain and working fluid pumps in:

- Thermal power plants
- Combined cycle power plants
- Nuclear power plants
- Industrial power plants
- Concentrated solar power plants
- Geothermal power plants



Power generation

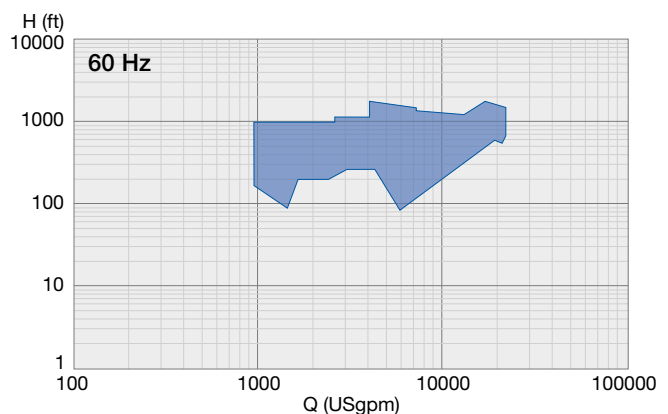
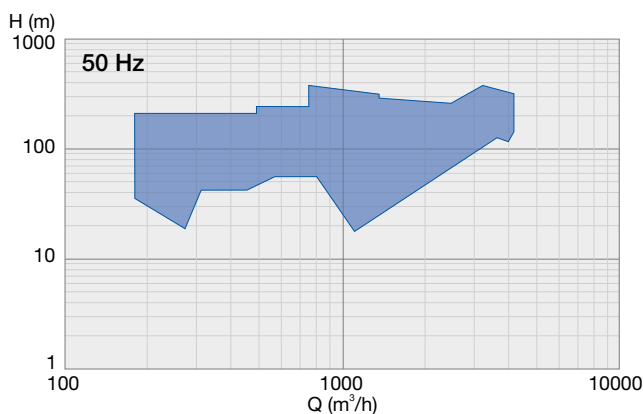
## Materials

Pump part	Material
<b>Bowl</b>	Cast iron, carbon steel, chrome steel
<b>Impeller</b>	Cast Iron, chrome steel
<b>Shaft</b>	Chrome steel
<b>Can, column, discharge head</b>	Carbon steel

## Operating data

	50 Hz	60 Hz
<b>Bowl sizes</b>	390 to 1'488 mm	15.4 to 63.1 in.
<b>Capacities</b>	170 to 4'900 m <sup>3</sup> /h	924 to 21'560 USgpm
<b>Heads</b>	up to 470 m	up to 1'540 ft.
<b>Pressures</b>	up to 47 bar	up to 680 psi
<b>Temperatures</b>	up to 100°C	up to 212°F

## Performance ranges



# Features and benefits

- 1 Single suction high  $N_{ss}$  (suction specific speed) or double suction low  $N_{ss}$  first stage
  - Reduced Net Positive Suction Head required (NPSHr)
- 2 Replaceable wear ring surface for impellers and bowls
  - Allows conservation of the running clearances
- 3 Carbon graphite product lubricated bearing in bowls and columns
  - Long maintenance-free periods
- 4 Shaft sealing by single or double mechanical seal with removable seal housing
  - Allows servicing throttle bushing without removing the head
- 5 Axial thrust bearing in pump or in motor
  - Adaptable to IEC or NEMA motors
- 6 Cast or fabricated suction and discharge head with separate fabricated driver stand
  - Allows using one suction and discharge head per pump size
- 7 Spacer coupling
  - Allows servicing the mechanical seal and thrust bearing as needed
- 8 Can provided with lateral and anti-rotational ribs
  - Uniform inlet velocity along the can length





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