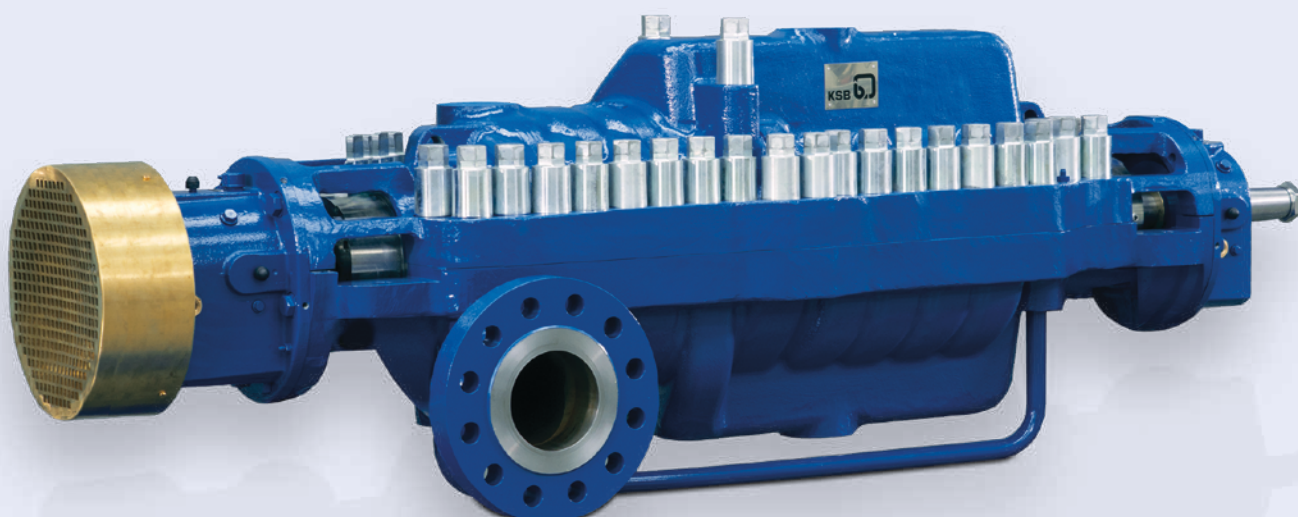


CHTRa – Heavy duty BB3 process pump to API 610 / ISO 13709



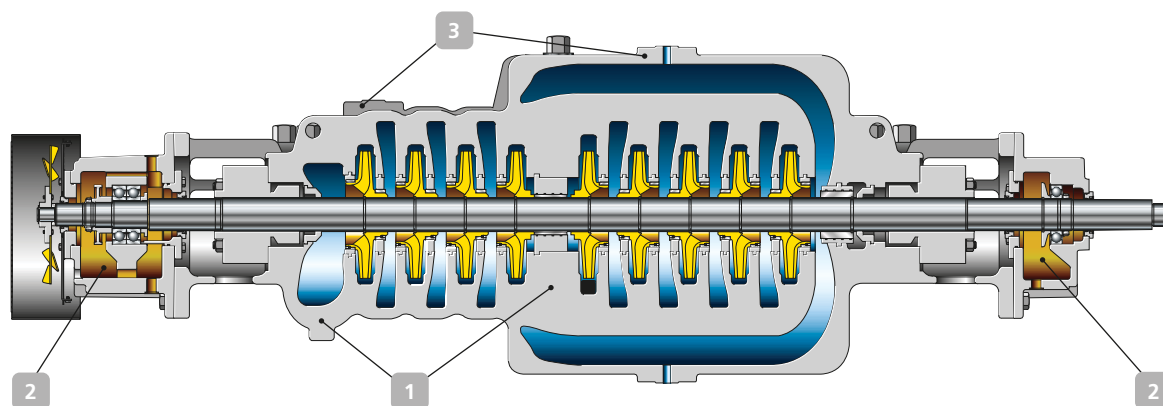
Applications:

- Oil and Gas Industry
- Energy Industry
- Water/Wastewater Industry
- Mining Industry
- Metal Production Industry

The pump is widely used in other demanding applications that require uncompromising reliability and efficient equipment.

More information: www.ksb.com/products

CHTRa – Heavy duty BB3 process pump to API 610 / ISO 13709



1 Modern Design

- Axially split, multistage, between bearing pump compliant to latest API 610 BB3 design requirements
- Available in a range of hydraulic system sizes with numerous stages and material combinations
- Opposed impeller arrangement balances axial thrust
- Can be supplied with a single or double suction first stage impeller to suit low NPSH duties
- Simple construction makes for easy maintenance and excellent reliability
- Modern machining process to ensure a uniform flow around the hydraulic profile in the casing

2 Excellent Reliability

- Robust 360° mounting flange ensures low vibration levels and grants long bearing lifetime
- Radial ball and ball thrust bearings provided as standard. Ball/sleeve and sleeve/tilting-pad options available

3 Integrally Flanged Auxiliary Connections

- Eliminate the need for welding on auxiliary connections and bracing on stub pipes

Easy Maintenance

- Suction and discharge nozzles are integrally cast in the bottom casing half, eliminating the need to remove pipework during rotor inspection. Nozzle positions can optionally be changed
- Compliant with API 610 regarding nozzle loads
- Heavy-duty ASME B16.5 class 900 flanges as standard. Higher pressure options available
- ASME/DIN/ISO/JIS flange options available

Materials

- API 610 material options available as standard
- NACE and non-metallic wear parts are available for improved operation and performance efficiencies

Operating Data*		50 Hz	60 Hz
Nozzle Size-Nominal Diameter (DN)	[mm]	80 to 300	80 to 300
Nozzle Size-Nominal Pipe Size (NPS)	[inches]	3 to 12	3 to 12
Capacity	[m ³ /h] [US gpm]	Up to 1,200 Up to 5,283	Up to 1,400 Up to 6,164
Total Manometric Head (T.M.H.)	[m] [ft]	Up to 1,550 Up to 5,100	Up to 1,550 Up to 5,100
Pressure	[bar] [psi]	Up to 155 Up to 2,220	Up to 155 Up to 2,220
Temperature	[°C] [°F]	Up to 205 Up to 400	Up to 205 Up to 400
Speed	[rpm]	Up to 6,000	Up to 6,000
Specific Gravity (Relative Density)		≥ 0.7 (capable of handling down to 0.5 on customer's request)	

*If your specific conditions cannot be met, a specifically tailored pump design can be supplied.



KSB SE & Co. KGaA
Johann-Klein-Straße 9
67227 Frankenthal (Germany)
www.ksb.com