

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



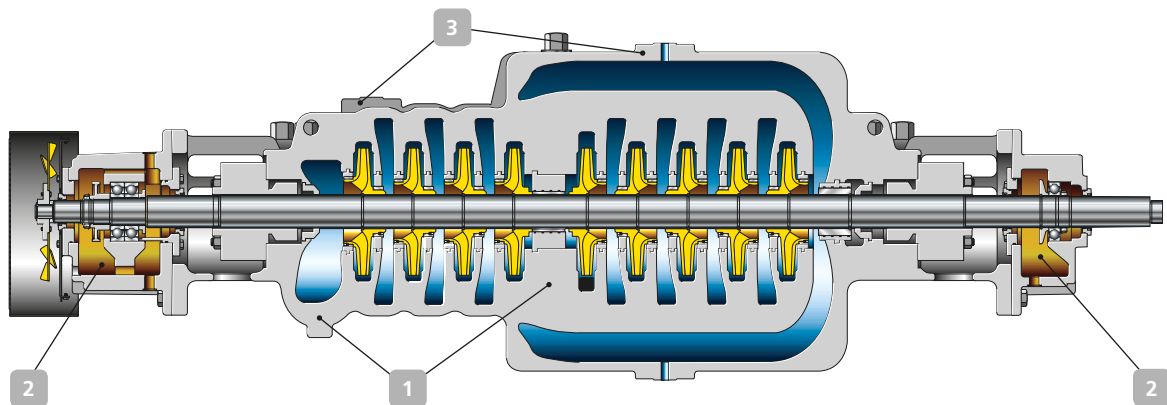
### Applications:

- 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](http://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 <sup>3</sup> /h]	Up to 1,200	Up to 1,400
	[US gpm]	Up to 5,283	Up to 6,164
Total Manometric Head (T.M.H.)	[m]	Up to 1,550	Up to 1,550
	[ft]	Up to 5,100	Up to 5,100
Pressure	[bar]	Up to 155	Up to 155
	[psi]	Up to 2,220	Up to 2,220
Temperature	[°C]	Up to 205	Up to 205
	[°F]	Up to 400	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.



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