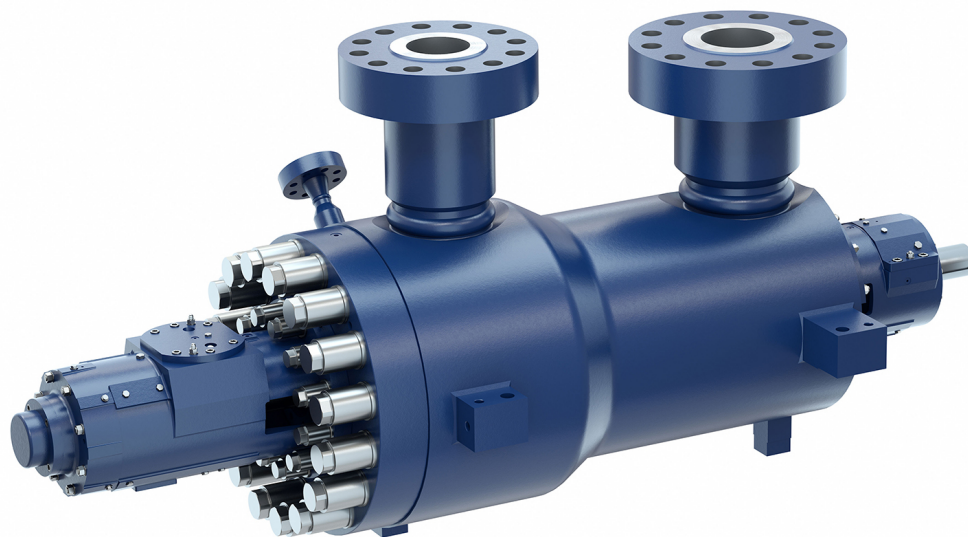


CHTR

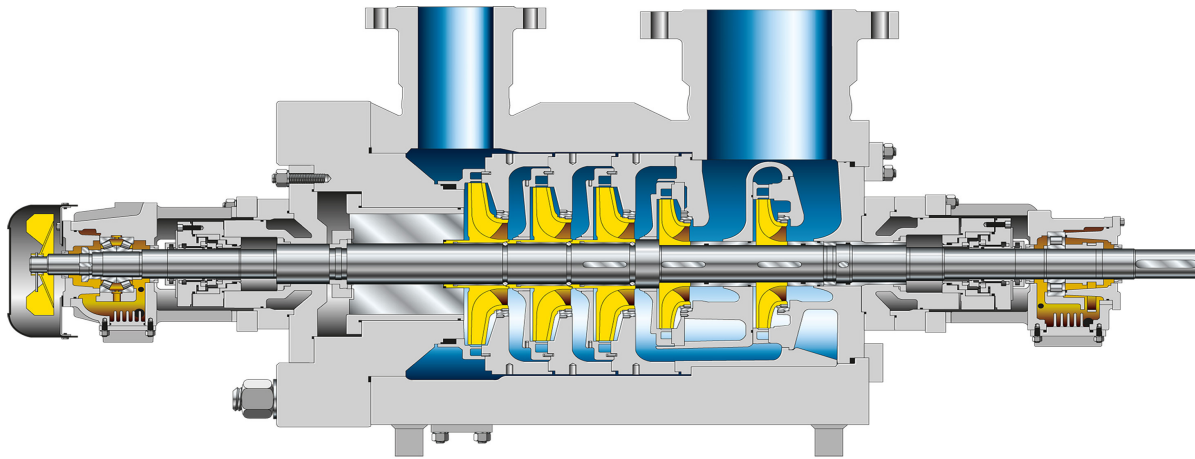
Process Pump



-
- Refineries
 - Biorefineries
 - Chemical industry
 - Petrochemical industry
 - Power generation plants
 - Boiler feed applications
 - Offshore processes
-



CHTR – Process Pump



Description / design

Horizontal radially split multistage high-pressure pumps in between-bearings design, with double casing (barrel-type pumps) to API 610 (ISO 13709), type BB5. First stage optionally available in double-suction design for low NPSH requirements. ATEX-compliant version available

Benefits

■ High safety in critical applications

- Double casing with pressure-retaining components designed to ASME code and API requirements
- Pressure ratings: 100, 250, 400 with top/top nozzle orientation (top suction nozzle and discharge nozzle)
- Variety of pressure ratings and nozzle orientations available (e.g., side/side, top/side)

■ Optimised, flexible selection of hydraulic systems

- Five sizes with various impeller/diffuser combinations enable application-specific selection.
- Suction stage impeller ensures optimal suction performance.
- Double-suction version available, for low NPSHA
- Hydraulic system optimised for low-flow high-head applications

■ High rotor stability

- Heavy-duty shaft minimises deflection.
- Impellers are dynamically balanced and individually secured.
- Key-driven coupling with end taper
- Hydraulic fit coupling available on request
- Impellers with interference fit available for high-speed operation

■ Reliable and long-lasting bearing design

- Robust bearing housing and bearing set-up exceed API 610 requirements.
- Oil-lubricated and fan-cooled rolling element bearings

- Water cooling and purge oil mist lubrication available on request
- Plain bearings and tilting-pad bearings for high energy density applications

Materials

- S5, S6, S8, C6, A8, D1, D2

Axial thrust balancing

Optimised balance drum balances axial thrust and ensures a long service life of the bearings. KSB's patented design reduces axial thrust even further and extends the application range of the rolling element bearings.

Operating data

Characteristic	Value		
	50 Hz	60 Hz	
Flow rate	[m ³ /h]	≤ 1450	≤ 1520
	[US.gpm]	≤ 6385	≤ 6692
Head	H [m]	≤ 4000	≤ 4000
	H [ft]	≤ 13120	≤ 13120
Fluid temperature	T [°C]	-46 to 400	-46 to 400
	T [°F]	-50 to 752	-50 to 752
Max. permissible pressure	[bar]	≤ 400	≤ 400
	[psi]	≤ 5800	≤ 5800
Speed	n [rpm]	7000	7000

Other values on request



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12305 Kurland Dr, Houston, TX 77034
RotatingEquipment@puffer.com 281-240-2000



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