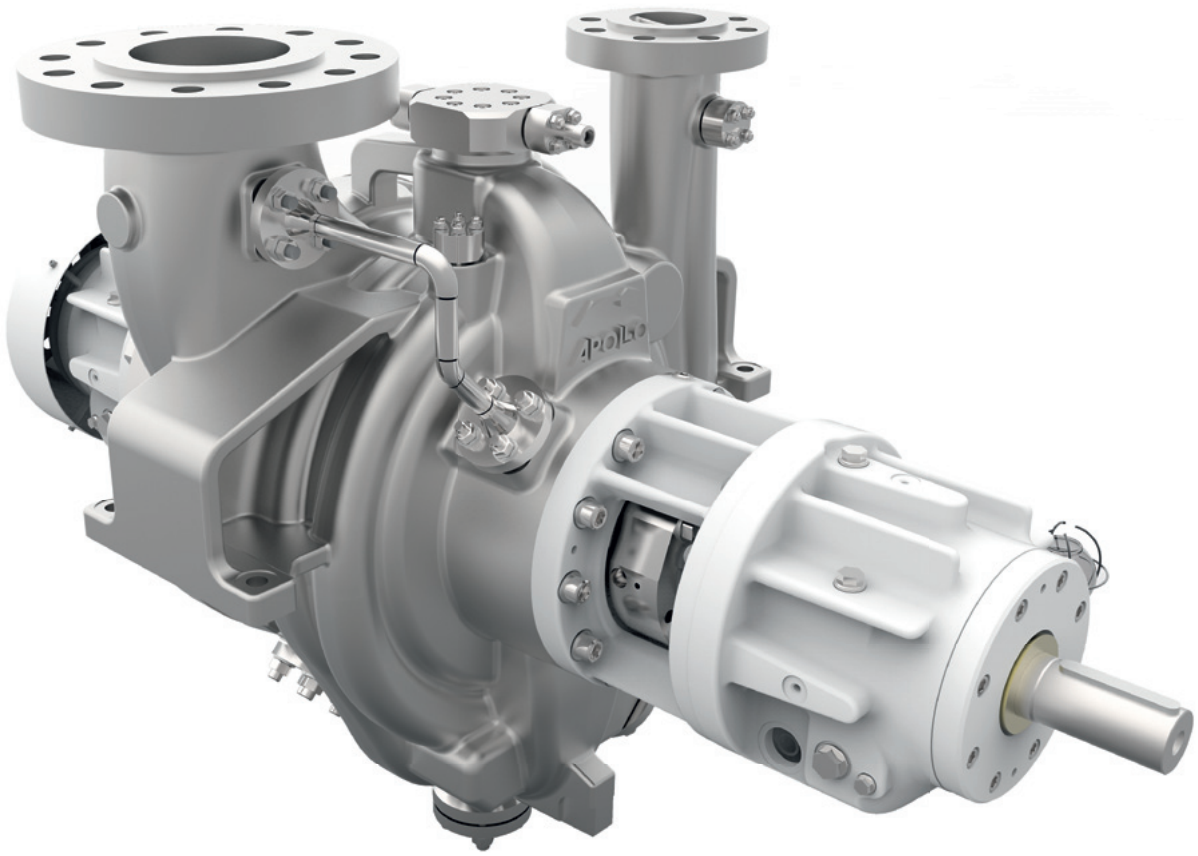
# HEAVY-DUTY, RADIALLY SPLIT, TWO-STAGE PROCESS PUMP, BETWEEN BEARING VERSION

## ACCORDING TO API 610 / TYPE BB2

KGR



Due to heavy-duty between bearings design, lowest NPSH values and highest energy efficiency the pumps of this range are suitable for a variety of applications:

- Oil and Gas industry
- Refineries
- Offshore engineering
- Power Plants

## Design

- Radial-split, centerline-supported volute casing pump of double-volute design
- 1st impeller of single-flow design
- Between bearing pump type, BB2 according to API 610
- axial thrust compensation by means of back-to-back arrangement of impellers
- bearing design: antifriction bearings, mixed – or sliding bearings
- Seal chamber according to API 610 / ISO 13709 / API 682

## Operating data

| | |
|---|---|
| Nozzel size (mm) | from 40 to 250 |
| Capacity | up to 1800 $m^3/h$ |
| Head | up to 600 m |
| Speed | up to 3600 rpm |
| Operating temperature | up to + 400 °C |

APOLLO

A member of HMS GROUP

Pumps
Pumping Systems

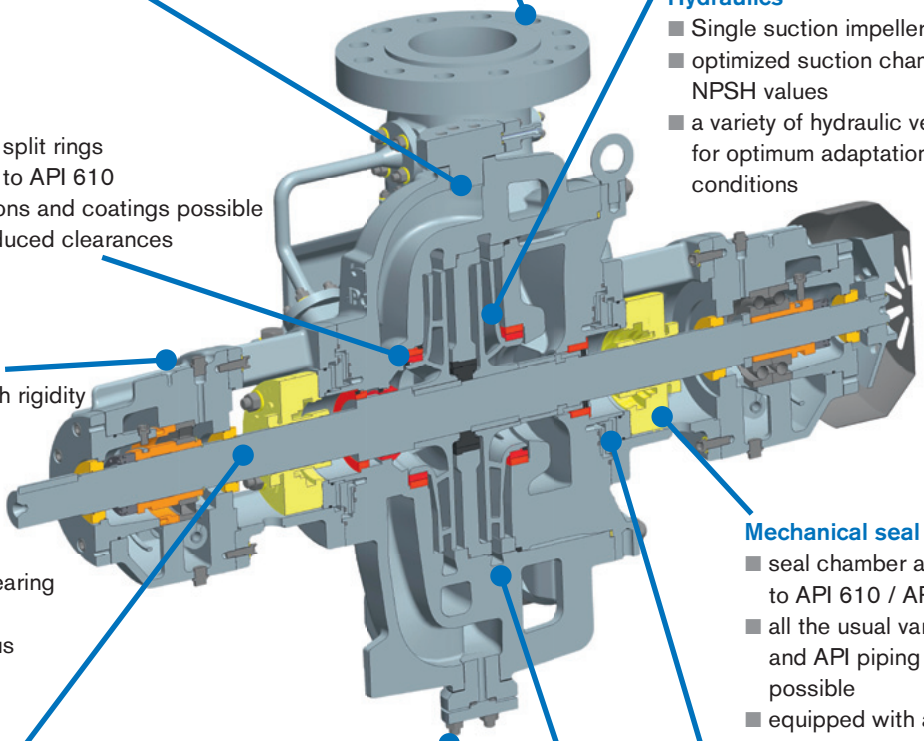
# KGR Version

**Volute casing**
- discharge casing designed as volute
- double volute as standard
- 2x API nozzle loads

**Flanges**
- ASME or DIN EN / Version: Class 600

**Hydraulics**
- Single suction impeller
- optimized suction chambers for low NPSH values
- a variety of hydraulic versions per casing for optimum adaptation to operating conditions

**Wear and split rings**
- replaceable wear and split rings
- clearances according to API 610
- different material options and coatings possible
- PEEK version with reduced clearances



**Solid Bearing Housing**
- 360° mounting for high rigidity
- antifriction bearings: standard / optional sliding bearings
- sump or fan cooling is possible
- high-grade metallic bearing isolators
- connections for various instruments available

**Mechanical seal**
- seal chamber acc. to API 610 / API 682
- all the usual variations of sealings and API piping schemes are possible
- equipped with a cartridge mechanical seal as standard
- stuffing box versions are possible

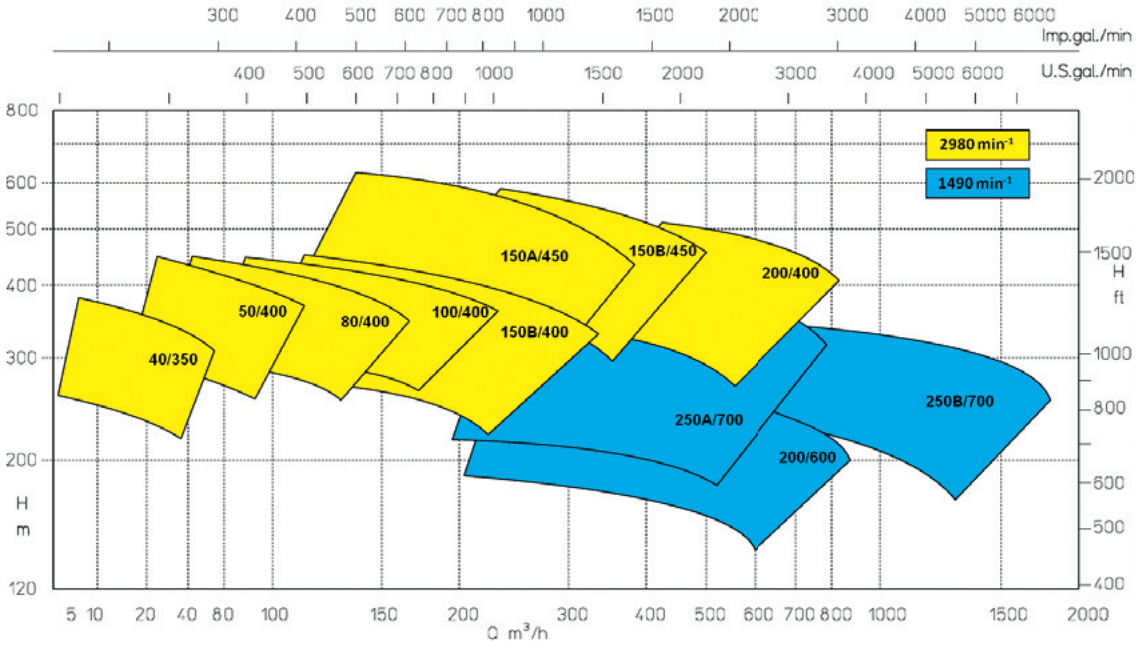
**Stable rotor design**
- optimized rotor-dynamic characteristics
- controlled shaft bending
- good vibration characteristics

**Venting, Drainage**
- via integral flanges
- welding on casing not necessary

**Casing seal**
- process-safe seal also under critical conditions

**Jacket cooling**
- efficient jacket cooling is available as an option

# Performance range





APOLLO – PUMPS –
A member of HMS GROUP

Apollo Gößnitz GmbH
Walter-Rabold-Strasse 26
04639 Goessnitz/Germany

Phone: +49 (0)3 44 93/ 77-0
Fax: +49 (0)3 44 93/ 77-2 10
E-mail: info@apollo-goessnitz.de
www.apollo-goessnitz.de


05/2015