

High Pressure Multistage Pumps



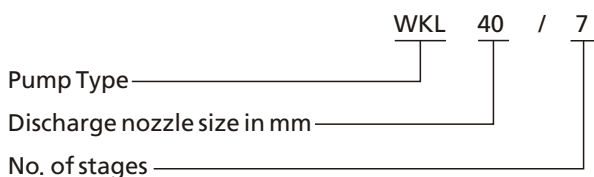
Applications

WKL pump is used for water works, irrigation & sprinkling installations, boiler feed water, condensate handling, fire fighting, cooling & circulation water as well as for generation of high pressure water for hydraulic press etc.

Design

Horizontal, radially split, ring section, multistage pump with radial impellers. The stages are sealed off against each other by flat gaskets and clamped together by tie rods. Pump supports are cast integrally to the suction & discharge casings and are at the bottom.

Designation



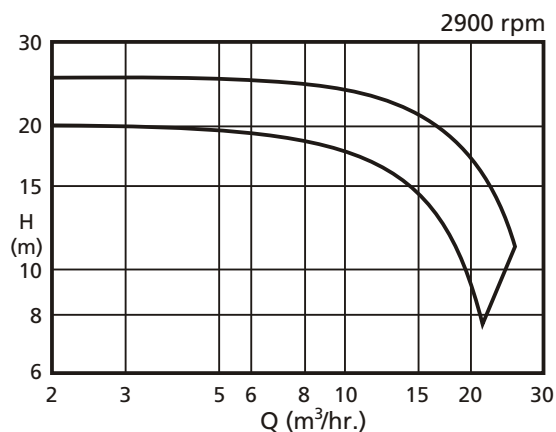
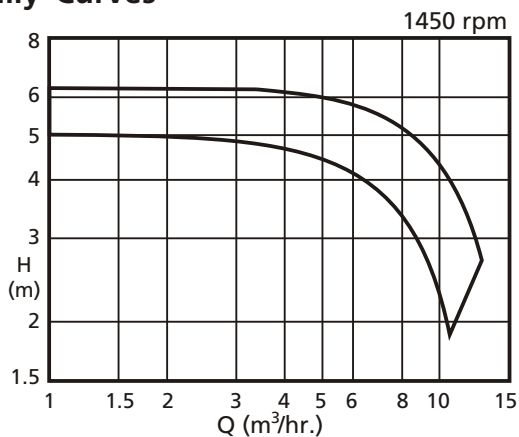
Operating Data

Pump Size	DN	40 mm
Capacity	Q	up to 27 m ³ /hr
Head	H	up to 250 m
Operating Pressure	P	up to 28 bar
Temperature	t	up to +140°C
Speeds	n	up to 2900 rpm

Materials

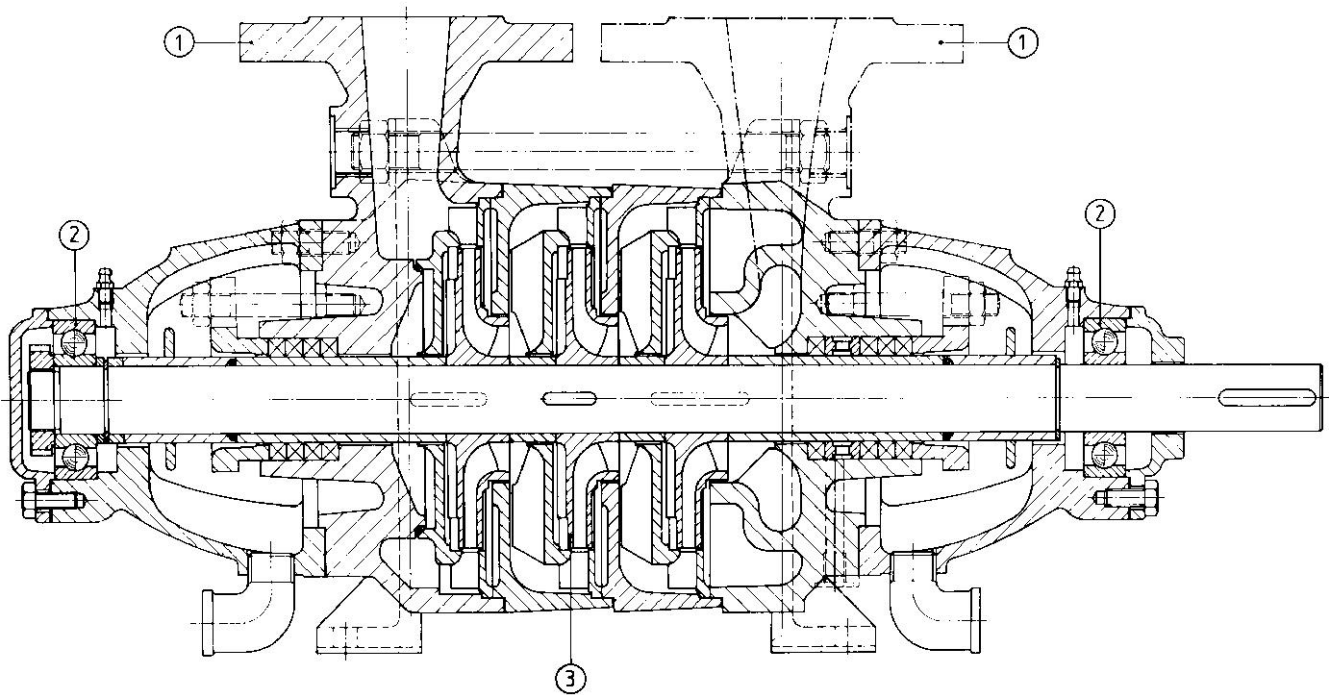
Part name	Material
Suction casing	C.I. Gr. FG 260
Discharge casing	C.I. Gr. FG 260
Diffuser	C.I. Gr. FG 260
Stage casing	C.I. Gr. FG 260
Impeller	C.I. Gr. FG 260 / BS 1400 Gr. LG2
Shaft	45 C 8
Cooling cover	C.I. Gr. FG 260
Shaft protection sleeve	C.I. Gr. FG 260 / A 276 Type 410
Bearing housing	C.I. Gr. FG 260
Tie rods	45 C 8

Family Curves



Normal Design :

1. Suction nozzle(DN 50) is horizontal towards right, seen from suction end & with flange rating of DIN 2532/10.
Discharge nozzle (DN 40) is vertically up with flange rating of DIN 2534/25.
2. Grease lubricated deep groove ball bearings with guaranteed life of 25000 operating hours.
3. Axial thrust balancing by means of back vanes, integrally cast on individual impeller pressure shroud.



Hot Water Design :

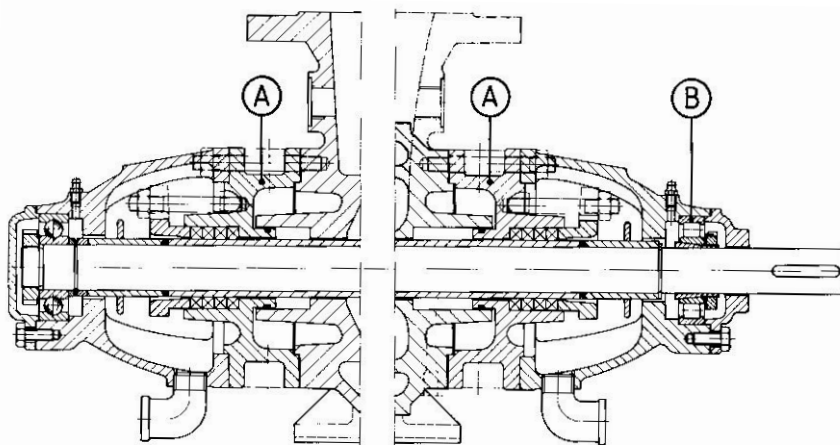
A. Stuffing box packing with cooling cover.

As a standard, uncooled soft packings are provided with sealing connection on suction side. For higher pumped media temperatures, stuffing box can be provided with cooling cover facilitating the external cooling.

B. Bearings

Roller bearing on suction side

As a standard, deep groove ball bearings are provided on both the ends. For hot water execution the deep groove ball bearing on suction side is replaced by roller bearing.



Technical matter. Subject to change without notice.



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