

FLOWZER

PUMP PERFORMANCE

KDT-DIN EN 733 (Formerly DIN 24255) Horizontal Single Stage End-Suction Back Pull-Out Centrifugal Pump



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General

- The **FLOWZER KDT** series fully conforms to the pump standard **DIN EN 733** (formerly DIN 24255) and covers all sizes nominated. This makes the range fully interchangeable with other brands of pump designed to this standard.
- All pumps are mounted on standardized bearing assemblies (Modules 25, 35 and 45) giving high parts interchangeability.
- The **KDT** range has been extended to include 2 models with 200mm discharge and 2 models with 250mm discharge size, providing the flows up to 330 litres/sec. These sizes are mounted on the **Module 55** bearing assembly.
- **KDT** offers users many advantages over equivalent pumps, because the range incorporates a number of features that improve reliability & performance, while simplifying maintenance and spare parts inventory.

Design Features

- **Volute casings**
Manufactured in high-grade cast iron as standard with integral cast feet and vertical centerline discharge for automatic venting air. Cast stainless steel casings are available as an option.
- **Impellers**
Impeller are of the closed type for higher efficiency, encased and dynamically balanced with compensation of the axial thrust by means of balancing holes, operating (on request) with interchangeable consumable rings.
- **Shaft**
Stainless steel pump shaft supported by two large maintenance-free greased ball bearings, housed inside a special chamber of the support **Lip seals** and **water flinger** to prevent ingress of dust and moisture. These significantly improve bearing life.
- **Standard seals**
Standardized mechanical seals made to **DIN 24960** in **carbon/carborundum** with o'ring in **EPDM**. Packing on request with hydraulic-lubricating ring and stuffing box in two easing removable parts.

Applications

- Supplying water
- The circulation of hot water for central heating.
- The circulation of cold water for air conditioning and refrigerating.
- The implementation of pumping systems.
- Pressure boosting.
- Fire-fighting and fire sprinkler systems.
- Swimming pools.
- Irrigation.



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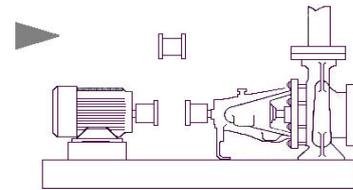
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Operating Limits

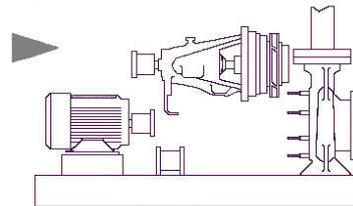
- **Working pressure**
Maximum pressure rating to 16 bar.
(Some models operating at 10 bar)
- **Capacity**
Capacity range up to maximum of 330 litres/sec (1200 m³/hr)
- **Discharge pressure**
Discharge pressure range up to maximum of 150 metres (15 bar)
- **Speed of rotation**
Maximum operating speed up to 3500 r.p.m.
- **Pumped Liquid**
Clean, without solid or abrasive substances, not viscous not aggressive, not crystallized and chemically neutral, close to water characteristics.
- **Liquid Temperature Range**
From – 10° + 0 + 140° C
- **Special versions on request**
Pumps for liquids other than water other voltages and / or frequencies.

'Back pull-out' Feature

If spacer coupling is installed, pump can be separated from the driver without having to dismantle the driver or pump the common skid.



Bearing housing assembly can be removed for repair or servicing without having to disturb the connected piping.



Material of Construction

Parts	Standard	Optional		
Casing	Cast iron AS 1830/ T200	Nodular cast iron	Cast stainless steel AS2074/ H6B	Zinc-free bronze
Impeller	Cast iron AS 1830/ T200	Gunmetal AS 1565/ C8360B	Cast stainless steel AS2074/ H6B	Zinc-free bronze
Shaft	Stainless steel AS 1444/ 420	Stainless steel AS 1444/ 316		
Casing wear ring	Cast iron AS 1830/ T200	Gunmetal AS 1565/ C8360B	Zinc-free bronze	
Impeller wear ring	-	Gunmetal AS 1565/ C8360B	Zinc-free bronze	
Seal type	Mechanical seal Carbon/Carborundum, EPDM	Packed gland		

Remarks: For more comprehensive pump construction material, and equivalent material specification, refer to FLOWZER Pumps technical data sheets.