

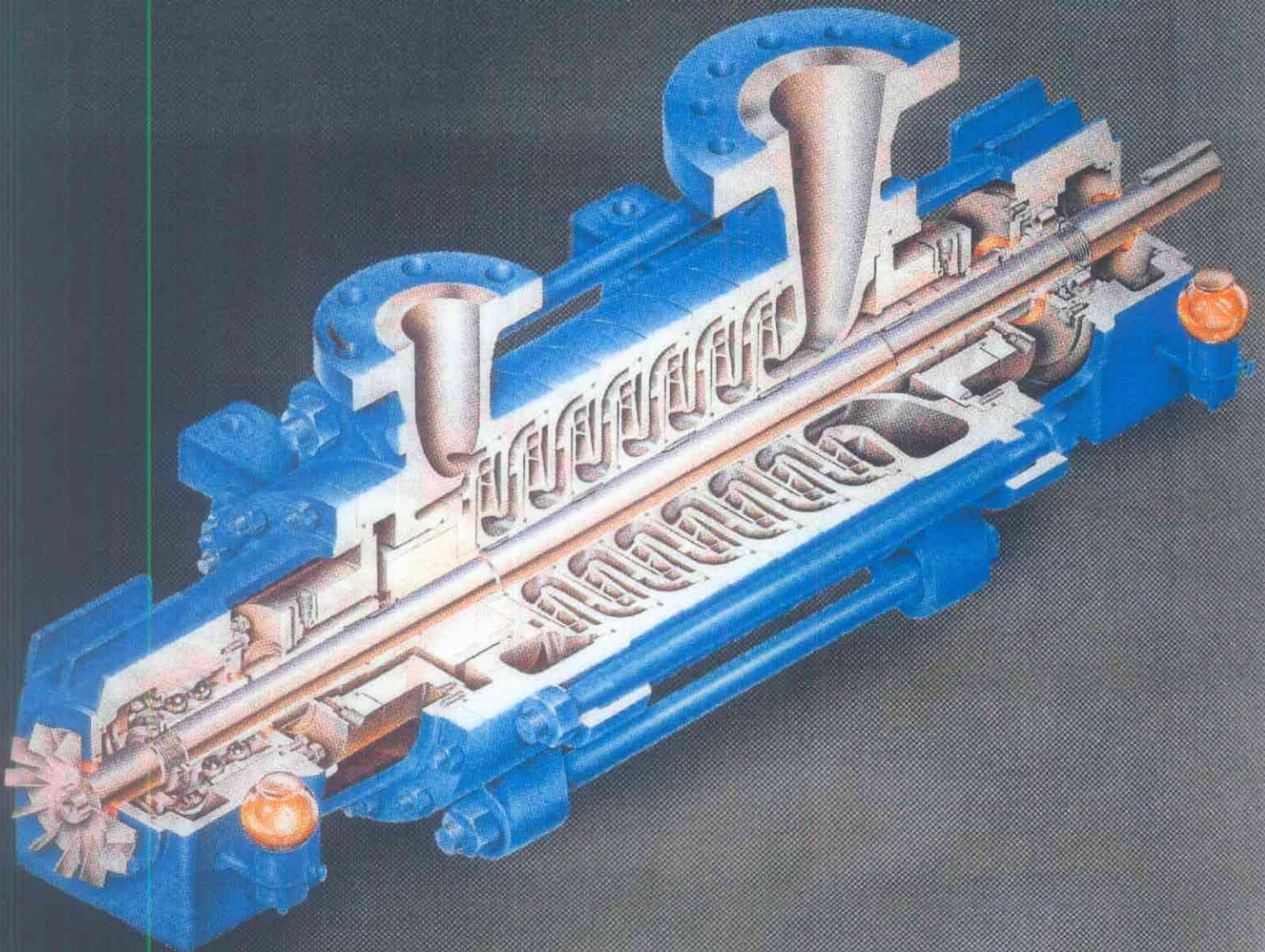
Please note that "Ingersoll Dresser Pumps" products are now sold by the Flowserve Pump Division of the Flowserve Corporation.

FLOWSERVE

Pump Division

Proudly
Celebrating **10th**
Year
Go Beyond

WX-Multistage Ring Section Pump



WX-The way it is, is not the way it was

The WX is a Horizontal Ring Section Multistage Centerline Mounted Pump, which is available in a wide range of hydraulics, numbers of stages, pump sizes and material combinations. Experienced engineers and product specialists co-operating together with project and plant engineers on a world wide scale, enable us to serve you with the right product for your process and field requirements. An on-going research and development program guarantees an up to date product.

Industries served include:

- Electric Power Generation
- Cogeneration
- Industrial Power Plants for Refineries and Chemical Plants
- Industrial and public water supply
- Desalination
- Mine dewatering (version with opposed impellers)
- General Industries

Features:

Strong mechanical design

Large tie bolts guarantee a high torsional stiffness of the pump. The suction casing is designed to 120bar for 2 WX and 3 WX, and 160bar for 4 WX. Large bearing housings allow water and air cooling. Size of bearings guarantee a long service time. A large shaft diameter [42 mm (2" size pump), 57 mm (3" size), 70 mm (4" size)] gives a good rotordynamic behaviour. The mechanical design allows excellent pump performance at 3600 RPM.

New balancing device

A new developed balancing device allows the operation of the pump with constant thrust over the whole operation range. The allowable operation range can be decreased to very low min. flow, even by closed discharge valve there is no significant change of axial thrust. A very low balance flow improves the part load efficiency. Correct size of the balancing device gives a very low load to the thrust bearing. The system works with a fixed rotor position, so there is no danger of seizing by sudden load changes.

Improved maintenance feature

The stuffing box cavity is designed according to API 610 ed. The bearings are mounted on sleeves, so it is possible to change the seal very quickly.

Hydraulic features

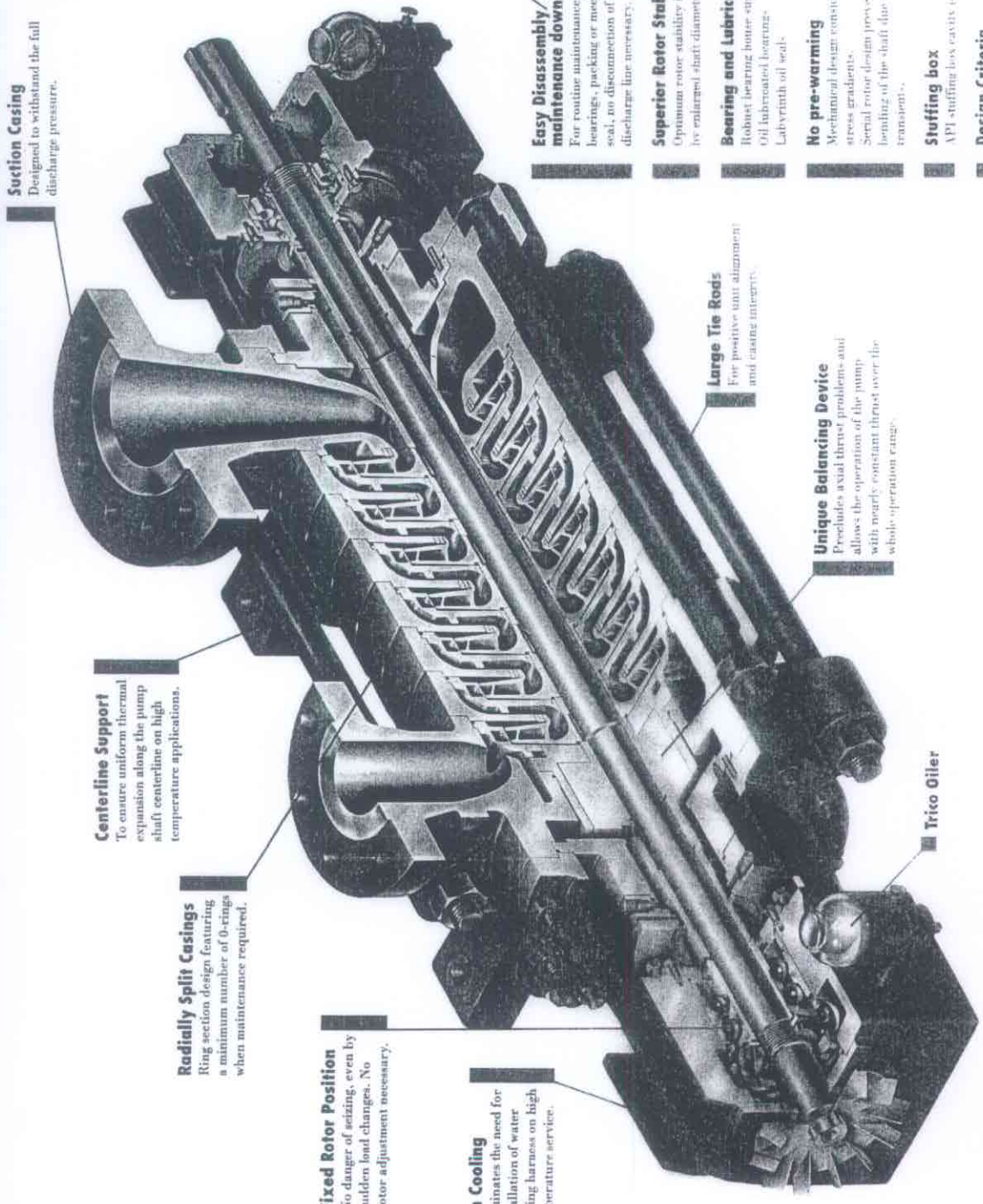
The pattern of the impeller and diffuser are equipped with ceramic cores to guarantee an excellent surface-quality and dimensional stability.

API 610 8th ed.

- Compliance with:
- Stuffing box cavity (API 682)
- Bearing and shaft
- Flange loads and moment



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Suction Casing
Designed to withstand the full discharge pressure.

Centerline Support
To ensure uniform thermal expansion along the pump shaft centerline on high temperature applications.

Radially Split Casings
Ring section design featuring a minimum number of O-rings when maintenance required.

Fixed Rotor Position
No danger of seizing, even by sudden load changes. No rotor adjustment necessary.

Fan Cooling
Eliminates the need for installation of water cooling harness on high temperature service.

Large Tie Rods
For positive unit alignment and casing integrity.

Unique Balancing Device
Precludes axial thrust problems and allows the operation of the pump with nearly constant thrust over the whole operation range.

Trico Oiler

Easy Disassembly/less maintenance down-time
For routine maintenance of bearings, packing or mechanical seal, no disconnection of suction or discharge line necessary.

Superior Rotor Stability
Optimum rotor stability is achieved by enlarged shaft diameter.

Bearing and Lubrication
Robust bearing house support Oil lubricated bearings Labyrinth of seals.

No pre-warming
Mechanical design considers thermal stress gradients. Special rotor design prevents from bending of the shaft due to thermal transient.

Stuffing box
API stuffing box cavity is standard.

Design Criteria
Complies with the API requirements.

Pump Nomenclature for WX- Ring Section Pump

2 WX - 8A12

- 2 - Discharge Nozzle Diameter in inch
- WX - Horizontal Ring Section Multistage Pump
- 8 - Impeller Diameter in inch
- A - Impeller Design
- 12 - Number of Stages

Options:

- Opposed Impellers (M)
- Inducer (I)
- Interstage Bleed Off
- Dummy Stage (s)
- Reverse Running (Recovery Turbine)