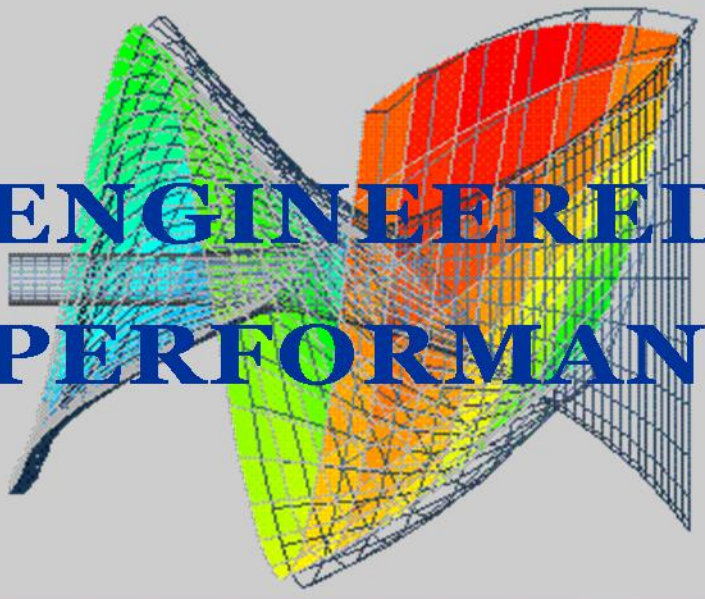
intMPE

International Mineral Processing Equipment



ENGINEERED PERFORMANCE

Industrial Series

API-610 & ANSI B73.1M

intMPE

International Mineral Processing Equipment

A Division of Canamera Enterprises Inc.

intMPE

International Mineral Processing Equipment

WATER | WASTE WATER | INDUSTRY | ENERGY | BUILDING SERVICES | MINING

Axially split volute casing pump

People at Intmpe – we make your world flow round

Mega Performance – Minimal Resistance.

Ever seen a pump in a wind tunnel? Why would anybody put one there, of all places? Simple: in the pursuit of excellence.

When developing the MPDSP our specialists tested the pump's wind resistance to optimise its interior – in other words, to make fluid flow as smooth as possible. This results in clear energy savings, reducing the overall operating costs. Another positive side effect is the space saved by the smaller casing of the optimised design. This also allows the rotor to be shorter – which makes it stabler, quieter and more wear-resistant than ever. Sometimes, tunnel vision is exactly what's needed.

The end result is a highly efficient pump with a long service life and maximum flexibility. Its diversity is illustrated by a large number of hydraulic performance charts, various material combinations and diverse options in shaft seal design (packing or mechanical seal), installation (horizontal or vertical – vertical design with product-lubricated lower bearings) and flanges to DIN, ISO, BS or ASME. The symmetric assembly allows drive installation to the left or right of the pump without any additional components or casing modifications.

The MPDSP is suitable for a wide range of applications, pumping pure, raw or waste water as well as seawater with flow rates up to 2,800 m^3/h (12,328 US.gpm) and heads up to 170 m (558 ft).

For further information please visit www.intmpe.com

MPDSP

Axially split single-stage volute casing pump

EU Dir 94/9/EC

II 2G c T1-T5

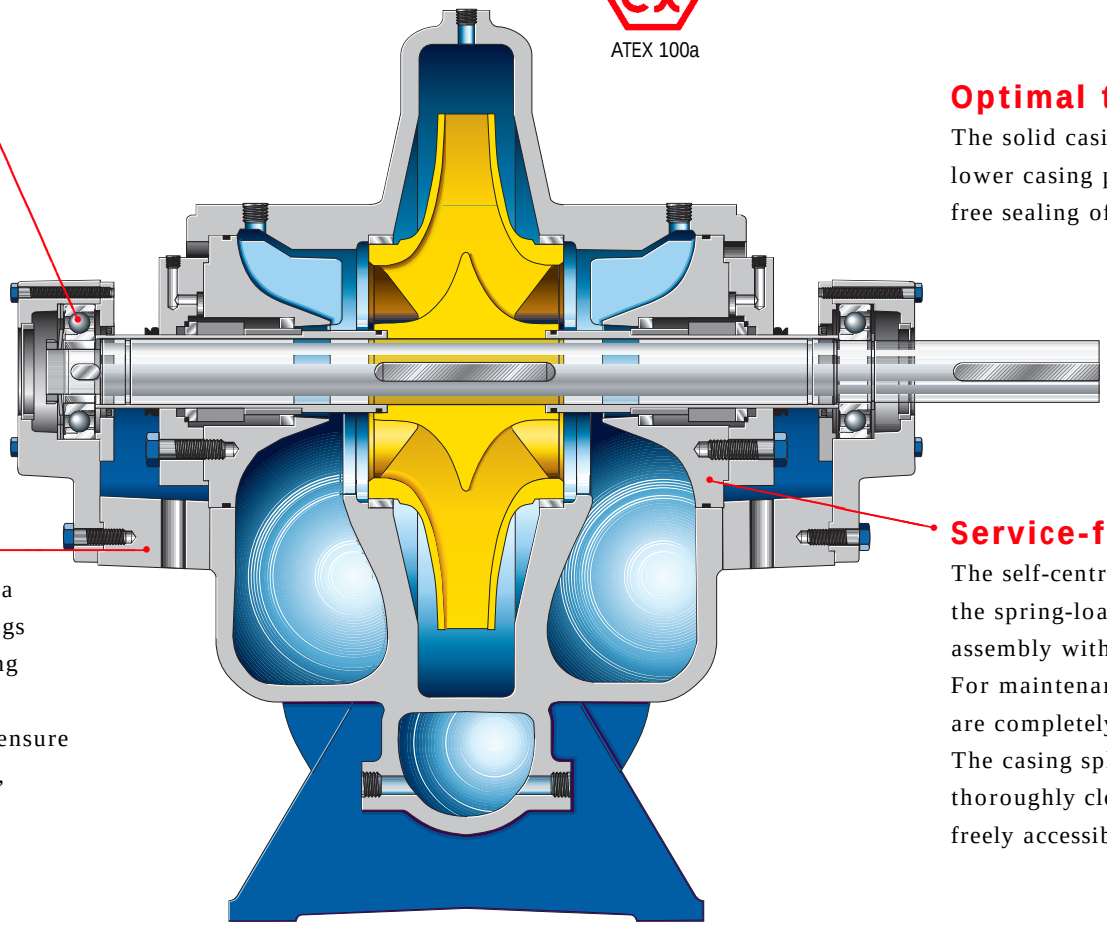
ATEX 100a

High operating reliability

Thanks to the double-entry impeller (compensating the axial forces) the load on the generously dimensioned, pre-loaded, maintenance-free bearings is minimal.

Optimal tightness

The solid casing split flange at the upper and lower casing part ensures reliable and trouble-free sealing of the upper and lower casing halves.



Automation available ✔

Low maintenance costs

The combination of solid bearing brackets, a short and rigid shaft, and pre-loaded bearings guarantees low vibrations and long operating lives of bearings, seals and coupling.
Corrosion and abrasion resistant materials ensure top service lives for shaft protecting sleeves, impeller/casing wear rings, and impeller.

Service-friendly design

The self-centring upper part of the casing and the spring-loaded rotor enable cover and rotor assembly without any adjustments.
For maintenance, the cover's hexagon head bolts are completely removed from the casing.
The casing split flange can therefore be easily and thoroughly cleaned, and the inside of the pump is freely accessible.

Fields of application:

Pumps pure, raw and waste water as well as seawater in

- Water works
- Irrigation and drainage pumping stations
- Power stations
- Industrial water supply
- Fire fighting systems
- Marine and offshore engineering
- General applications in the petrochemical industry
- Seawater desalination

Materials:*

Volute casing:	Cast iron / nodular cast iron / duplex cast steel
Impeller:	Bronze / duplex cast steel
Shaft:	Cr steel / duplex steel
Shaft protecting sleeves:	Cr steel
Casing wear rings:	Bronze / CR steel
Impeller wear rings (optional):	Bronze / duplex steel

*) Other materials on request

Technical data:

Pump sizes	DN80 – 350	3 to 14 in
Max. capacity:	2,800 m^3/h	12,328 US gpm
Max. discharge head:	170 m	558 ft
Max. operating pressure:	25 bar	363 psi
Max. temperature: [1]	+70 °C	158 °F

[1] Temperatures up to 120 °C (250 °F) on request

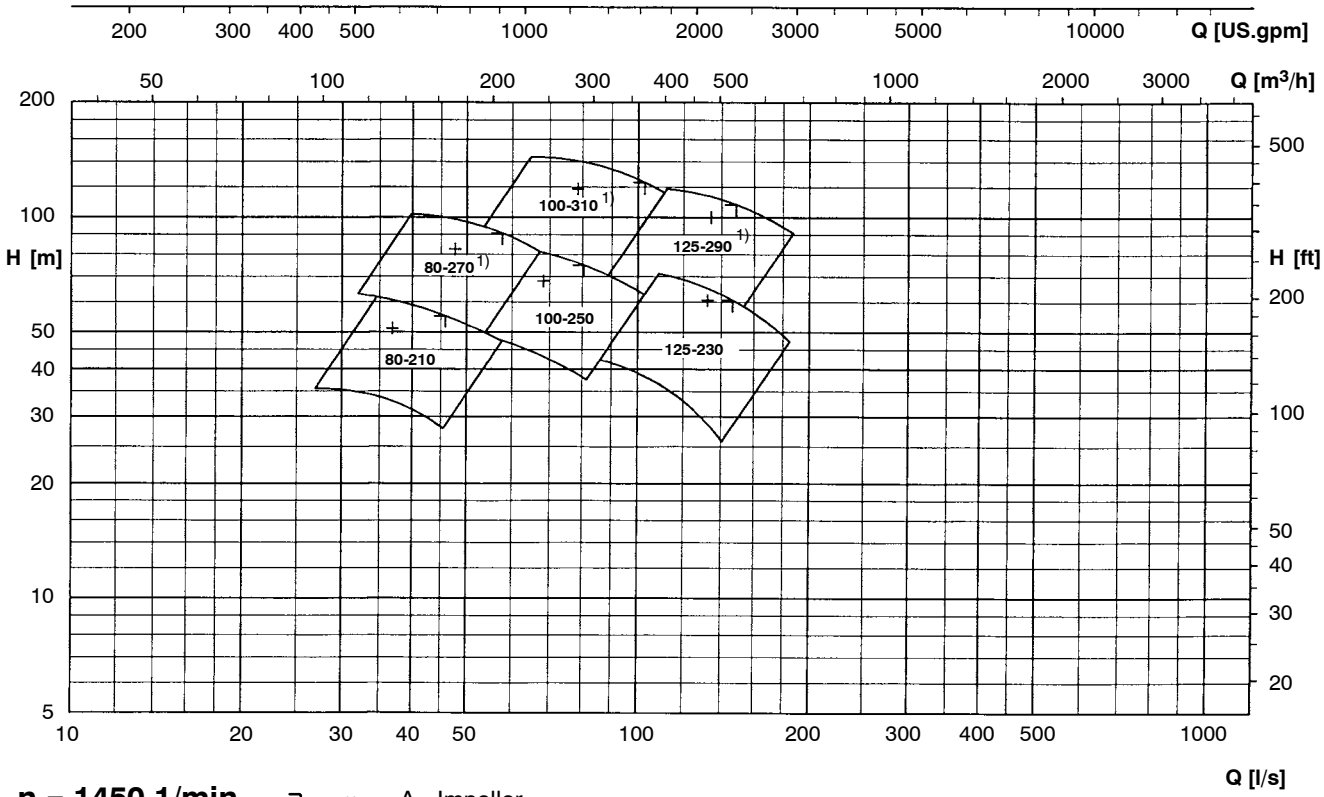
Further information: **www.intmpe.com**

Selection charts NOTE: Divide x 5 and Multiply x 6 to Convert to 60 Cycle

(higher speeds, with the pumps driven by a Diesel unit, available upon request)

n = 2900 1/min

¬ = η_{opt} A - Impeller
\+ = η_{opt} B - Impeller



n = 1450 1/min

¬ = η_{opt} A - Impeller
\+ = η_{opt} B - Impeller
○ = η_{opt} C - Impeller