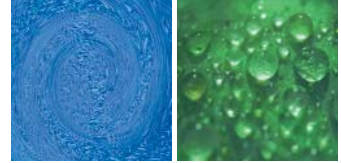


# Thrustream – Split Case Pumps



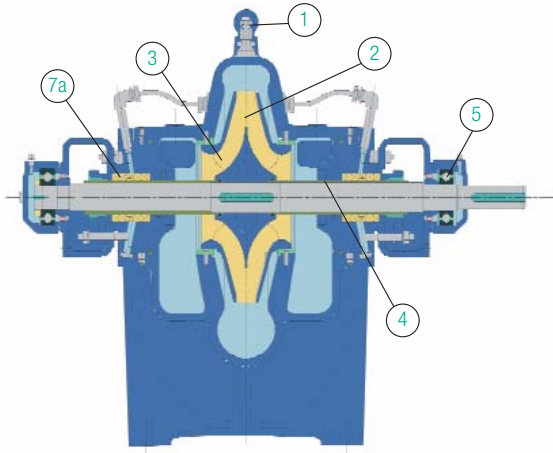
Thrustream is specially designed for industrial/general purpose users and is one of a comprehensive range of split case products available from SPP. Each range is designed to meet the particular needs of the markets it serves.

The split case design facilitates quick and easy access to the pump internals for routine inspection and maintenance. **Interchangeability throughout the range minimises number of components**, therefore, saving stock holding of spare parts within factories or buildings. Special pumps are available conforming to **ATEX standard**.

## Typical Applications:

- Heating and air conditioning
- Circulating duties
- Water boosting
- Irrigation
- Process cooling





## Specifications

<b>Pumps Models:</b>	22
<b>Discharge Range Sizes:</b>	65mm-350mm
<b>Temperature</b>	80°C standard. Optional up to 120°C
<b>Maximum Capacity:</b>	4000m <sup>3</sup> /hr (1100 l/s)
<b>Maximum Differential Head:</b>	240m
<b>Electricity Supply:</b>	50 and 60Hz
<b>Sealing Options:</b>	Soft packed or mechanical seal
<b>Operating pressures</b>	up to 25 bar depending on model

## Materials of Construction

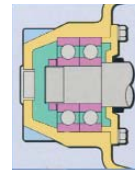
<b>Casing</b>	Cast iron
<b>Impeller</b>	Cast iron, bronze or zinc free bronze
<b>Wear Ring</b>	Cast iron or bronze
<b>Insert</b>	Cast iron
<b>Shaft sleeve</b>	Bronze or stainless steel
<b>Shaft</b>	High tensile or stainless steel

## Design Features

Robust modular split case design with suction and discharge flanged connections in the lower half of the casing. Top half casing and rotating assembly can be removed without disturbing suction and discharging pipework.

A choice of horizontal or vertical configurations with clockwise or counter clockwise rotations to suit station design.

- 1 Air release valve fitted to assist in priming operation
- 2 Double entry impeller, offers advanced impeller design
- 3 All pumps are fitted with case wear rings
- 4 Robust shaft protected by sealed shaft sleeves. Shaft sleeves, where fitted, lock impeller in position and extend through the sealing area (**Only three shaft sizes cover complete range**)
- 5 Grease lubricated rolling element bearings
- 6 Double row grease lubricated rolling element bearings are available when required on selected models



6: Double row grease lubricated bearings

- 7 Choice of sealing systems:
  - a) Soft packed with lantern ring and gland follower
  - b) Inboard component mechanical seal
  - c) Outboard mechanical seal fitted on shaft sleeve or directly on shaft



7b: Inboard component mechanical seal



7c: Outboard component mechanical seals

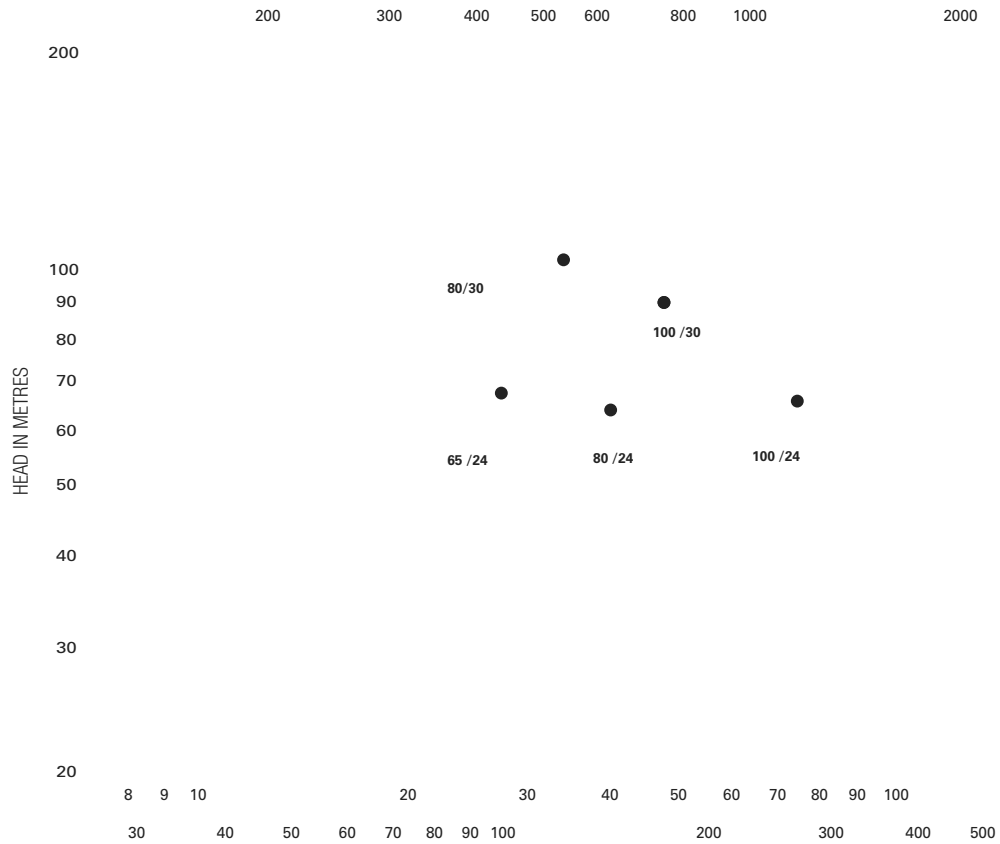
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## 2900 R.P.M.

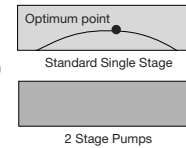
Imp.g.p.m

600  
500  
400  
300

HEAD IN FEET

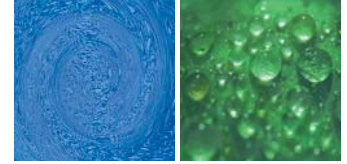
100  
90  
80  
70

l/s  
m³/hr



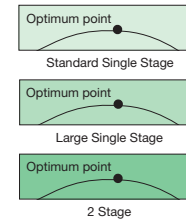
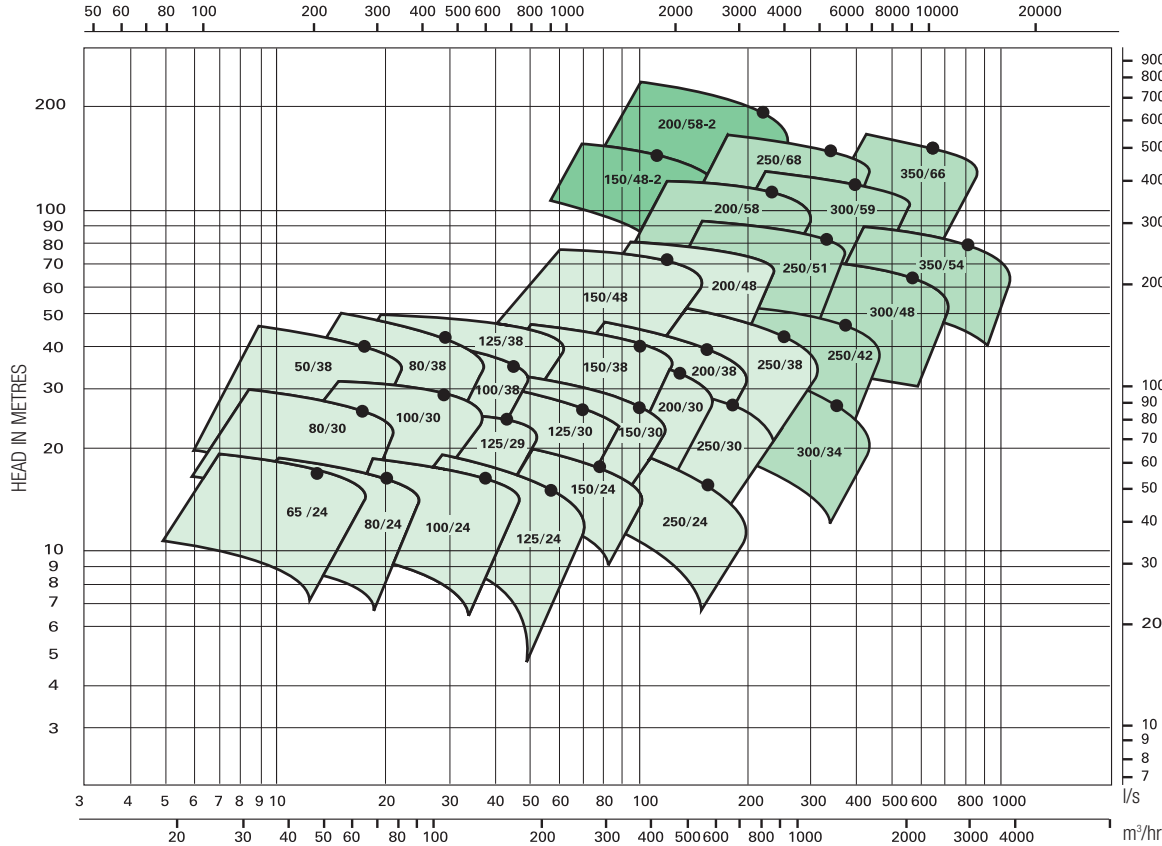
- Various material options available
- Impellers cut to duty point
- Vast interchangeability of hydraulic components
- Ease of maintenance
- ATEX pumpsets can be supplied

# Thruststream - Split Case Pumps



1450 R.P.M.

Imp.g.p.m



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