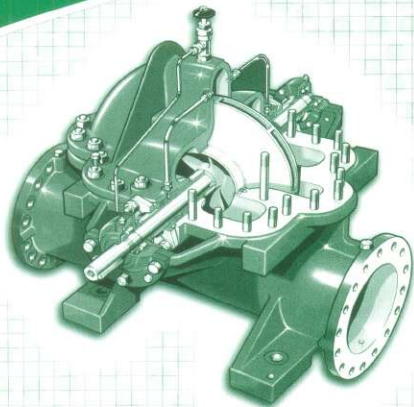
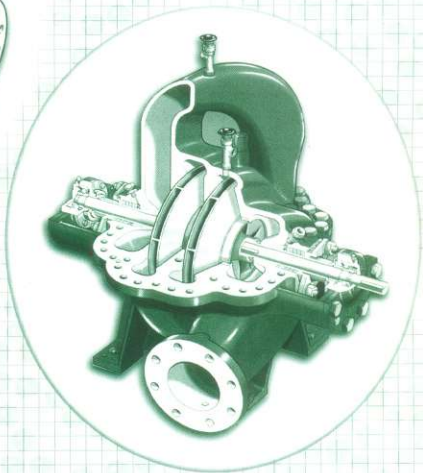
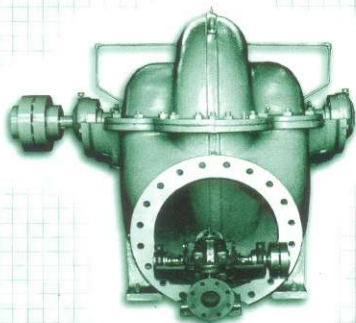


Uniglide



AXIAL SPLIT CASE
PUMPS



Duoglide

Uniglide

Capacity Range

Suc. X Del. Size	: 80 mm x 50 mm - 1400 mm x 1200 mm
Discharge	: 30 m ³ /h - 20,000 m ³ /h
Total Head	: 5 m - 200 m

Features

Shaft Sleeve - Renewable Sleeves positively driven by an extension of the Impeller Key extended through the Stuffing Boxes to protect the Shaft.

Bearing Housings & Bearing - The Bearing Housings are carried in rigidly constructed brackets cast integrally with the pump casing and the housings are accurately and rigidly located in brackets. The standard bearing arrangement comprises a roller/ball bearing at the driving end of the pump and a Ball bearing at the non-drive end.

Shaft Sealing - Conventional is packed glands using pre-lubricated cotton. Mechanical Seal as an option can be provided. The gland is split and can easily be removed to provide full accessibility for packing removal. A lantern ring is fitted to receive the pump liquid to delivery pressure to lubricate packing and also to provide a seal to prevent the ingress of air.

Flanges - Suction & Delivery flanges are drilled to BS Standards. Other Standards are optional.

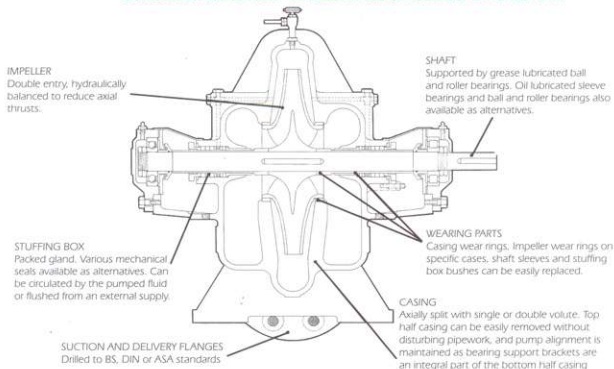
Direction of Rotation - Counter clockwise when viewed from driving end. Clockwise as optional.

Arrangement - The standard range is of horizontal type. However, vertical arrangement is possible on specific cases.

Application

- General water duties
- Fresh water supply
- Pumping of oil and hydrocarbons
- Cooling water applications
- Fire fighting

CROSS-SECTIONAL VIEW - SINGLE STAGE UNIGLIDE SPLIT CASE PUMP



Duoglide

Capacity Range

Suc. X Del. Size	: 100 mm x 80 mm - 300 mm x 250 mm
Discharge	: 14 m ³ /h - 1440 m ³ /h
Total Head	: 35 m - 240 m

Features

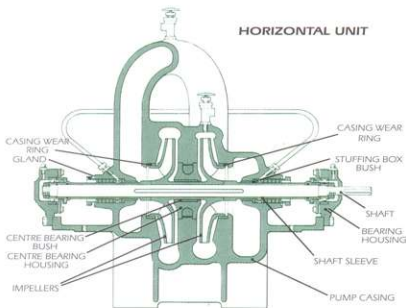
CASING - Single-Volute axial split-casing provides Suction and Delivery branches, which are cast integrally with the lower fixed-half casing. Liquid is transferred from first to second stage by crossover passage of unique form to maximise on hydraulic efficiency.

IMPELLERS - Impellers are of single-entry suction type, arranged back-to-back to provide hydraulic balance. Rotation can be clockwise or counter-clockwise to suit the pipework arrangement.

Application

- General water duties
- Fresh water supply
- Pumping of oil and hydrocarbons
- Cooling water applications
- Fire fighting

CROSS-SECTIONAL VIEW - DOUBLE STAGE DUOGLIDE SPLIT CASE PUMP

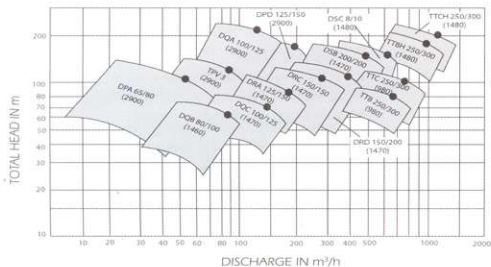


SHAFT - Manufactured in high-grade steel, with allowance to have safe critical speed of at least 25% above maximum operating speed. Keyways are provided for impeller drive which extend to renewable sleeves protecting the shaft. Water throwers are also fitted to prevent fluid ingress to the bearings. The complete assembly is held together positively by lock nuts located at each end of the shaft.

BEARINGS - The standard arrangement comprises a grease lubricated roller bearing at the driving end and ball bearing at the non-drive end.

SHAFT SEALING - Conventional is packed glands using pre-lubricated cotton. Mechanical seal can also be provided as an alternative. Gland sealing is normally arranged by relieving the high-pressure gland back to the low-pressure gland through a lantern ring in each stuffing box and connecting pipe.

DUOGLIDE - WATER RATING CHART



Type L & LA

Capacity Range

Suc. X Del. Size	: 102 mm x 76 mm - 610 mm x 508 mm
Discharge	: 6 m ³ /h - 4500 m ³ /h
Total Head	: 5 m - 48 m

This range of Split-case Pumps is of extremely rugged design conforming to Worthington-Simpson Technology, proven for its performance levels under continued and stringent clear water pumping duties.

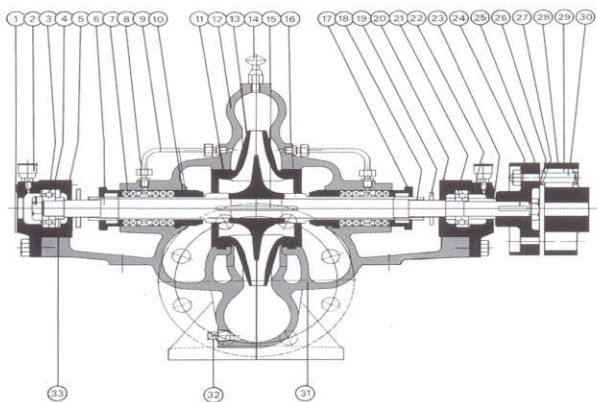
Recorded high levels of acceptance in core industries like Steel, Paper and Mines.

Most popular models are 3L3 and 4L3, offered in different materials of construction.

Application

- General water duties
- Fresh water supply
- Pumping of oil and hydrocarbons
- Cooling water applications
- Fire fighting

CROSS - SECTIONAL VIEW TYPE "L"



List of Parts:

1. Name Plate
2. Grease Cup
3. Single Row Deep Groove Ball Bearing (Far End)
4. Far Side Bearing Housing
5. Far Side Bearing Cover
6. Pump Shaft
7. Gland Packing
8. Water Seal Cage
9. Water Seal Pipe
10. Stuffing Box Bush
11. Wearing Ring
12. Top Half Casing
13. Impeller
14. Air Cock
15. Impeller Key
16. Shaft Sleeve
17. Gland Sleeve Nut
18. Water Thrower
19. Water Thrower
20. Driving Side Bearing Cover
21. Single Row Deep Groove Ball Bearing (Drive End)
22. Driving Side Bearing Housing
23. Coupling Distance Piece
24. Coupling Key
25. Pump Half Coupling
26. Shaft Nut
27. Coupling Pin Collar
28. Motor Half Coupling
29. Coupling Pin Bush
30. Coupling Pin & Nut
31. Bottom Half Casing
32. Drain Plug
33. Shaft Collar

Materials of Construction for Uniglide, Duoglide & Type "L & LA" pumps

Part	Cast Iron/ All-Iron Pump	Ferro-Bronze Pump	Bronze-Fitted Pump
Pump Casing	Cast Iron	Cast Iron	Cast iron
Impeller	Cast Iron	Bronze	Bronze
Casing Wearing Rings	Cast Iron	Bronze	Bronze
Pump Shaft	Steel	Steel	Steel
Shaft Sleeves	Mild Steel	Mild Steel	Bronze
Water Seal Cages	Nylon	Nylon	Nylon

Pumps in other combinations of materials of construction can be manufactured and supplied against specific requirements.