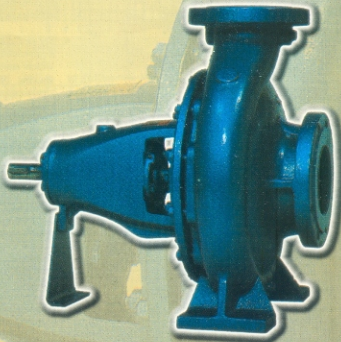




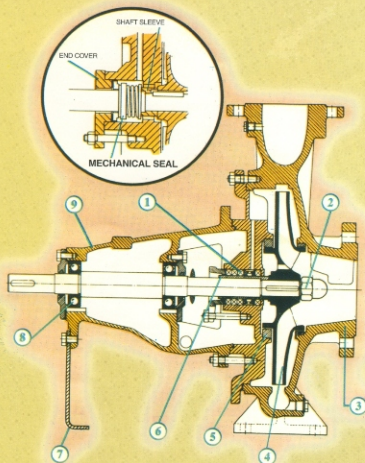
*Back pull-out  
Centrifugal Pumps  
DIN 24255*



#### APPLICATION

- Air Conditioning
- Refrigeration
- Heating & Ventilation
- Irrigation & Drainage
- Water Treatment
- Fire Protection
- Pressure Boosting
- Sanitary & Plumbing
- Sprinkle

## Pump construction



### 1) STUFFING BOX

Standard pump is gland packed with a stuffing box incorporating a lantern ring. Mechanical seal type can be supplied as option.

### 2) SHAFT

Only three shaft assemblies are required to cover the entire range, thus giving common interchangeable parts such as bearing, shaft sleeves, seals and impeller fastenings.

### 3) VOLUTE CASING

High efficiency volute with self-venting centre line discharge. Cast iron volute with integrally cast feet.

### 4) IMPELLER

Double shrouded hydraulically balanced impellers in cast iron or bronze or stainless steel can be supplied.

### 5) WEARING

Replaceable wear rings fitted to all volutes and also to back covers of larger pumps.

### 6) SHAFT SLEEVE

Replaceable stainless steel shaft sleeve which enables any scoring under gland packing be rectified by replacing the sleeve and not the whole shaft.

### 7) SUPPORT FOOT

A removable support foot is fitted at the drive end for greater rigidity.

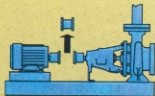
### 8) BEARINGS

Bearing are grease-lubricated and fitted with nipples which will allow periodic regreasing. Oil lubricated type are available and fitted with oil cap and watch glass for regular maintenance.

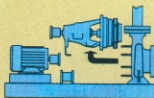
### 9) BEARING HOUSING

Cast iron bearing housing is secured to casing cover and volute. Only four bearing housings are required for the whole pump range which ensures interchangeability of parts and minimise stock inventory.

## Back pull-out construction

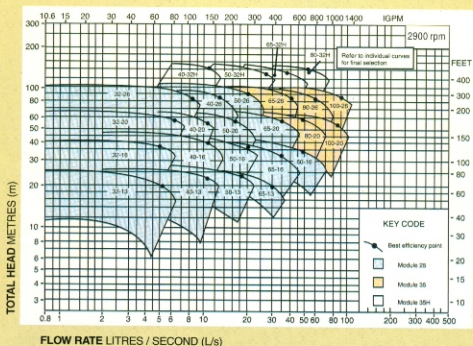
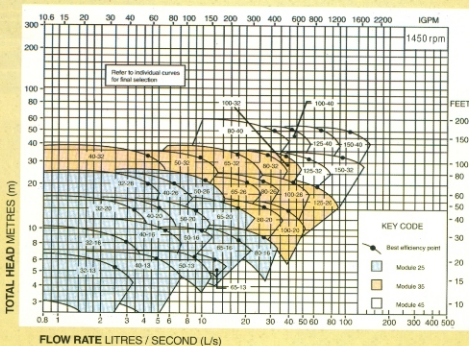


The spacer is removed to allow withdrawal of the rotating element.



The rotation element can be removed for service and replaced. And on replacement, there is no need to realign either the pump or the motor.

## Range chart



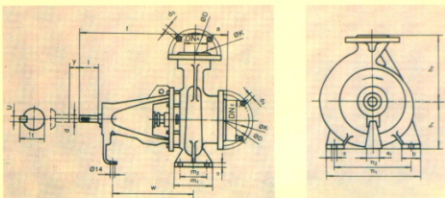
### TECHNICAL DATA

|                        |                                   |
|------------------------|-----------------------------------|
| Max. Capacity:         | up to 600 m <sup>3</sup> /h       |
| Max. Head:             | up to 150m                        |
| Max. Speed:            | up to 3,600 rpm                   |
| Temperature range:     | -10°C to 150°C                    |
| Max Working pressure:  | 16 bar on most models             |
| Shaft seal:            | glandpacked or mechanical seal    |
| Direction of rotation: | Clockwise viewed from drive end   |
| Flanges                | To ISO 2084 Pn16 (DIN 2533 PN 16) |

### MATERIALS OF CONSTRUCTION:

|                 |                                      |
|-----------------|--------------------------------------|
| Casing          | cast iron / stainless steel          |
| Bearing housing | cast iron                            |
| Impeller        | cast iron / bronze / stainless steel |
| Wear ring       | cast iron / bronze / stainless steel |
| Shaft           | high tensile steel / stainless steel |
| Shaft sleeve    | stainless steel                      |

## Outline & Installation Dimensions (mm)



### Dimensions:

| Pump size | Shaft unit | DN <sub>A</sub> | DN <sub>E</sub> | a   | f   | h <sub>1</sub> | h <sub>2</sub> | b   | c  | e <sub>1</sub> | m <sub>1</sub> | m <sub>2</sub> | n <sub>1</sub> | n <sub>2</sub> | s  | w   | d  | l   | t  | u  | y   | WGT kg |
|-----------|------------|-----------------|-----------------|-----|-----|----------------|----------------|-----|----|----------------|----------------|----------------|----------------|----------------|----|-----|----|-----|----|----|-----|--------|
| 32-13     | 25         | 32              | 50              | 80  | 360 | 112            | 140            | 50  | 14 | 100            | 100            | 70             | 190            | 140            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 27.5   |
| 32-16     | 25         | 32              | 50              | 80  | 360 | 132            | 160            | 50  | 14 | 100            | 100            | 70             | 240            | 190            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 35     |
| 32-20     | 25         | 32              | 50              | 80  | 360 | 160            | 180            | 50  | 14 | 110            | 100            | 70             | 240            | 190            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 41     |
| 32-26     | 25         | 32              | 50              | 100 | 360 | 180            | 225            | 65  | 14 | 110            | 125            | 95             | 320            | 250            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 59     |
| 40-13     | 25         | 40              | 65              | 80  | 360 | 112            | 140            | 50  | 14 | 100            | 100            | 70             | 210            | 160            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 30     |
| 40-16     | 25         | 40              | 65              | 80  | 360 | 132            | 160            | 50  | 14 | 100            | 100            | 70             | 240            | 190            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 36     |
| 40-20     | 25         | 40              | 65              | 100 | 360 | 160            | 180            | 50  | 14 | 110            | 100            | 70             | 265            | 212            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 44     |
| 40-26     | 25         | 40              | 65              | 100 | 360 | 180            | 225            | 65  | 14 | 110            | 125            | 95             | 320            | 250            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 61     |
| 40-32     | 35         | 40              | 65              | 125 | 470 | 200            | 250            | 65  | 14 | 110            | 125            | 95             | 345            | 280            | 14 | 342 | 32 | 80  | 35 | 10 | 140 | 96     |
| 50-13     | 25         | 50              | 65              | 100 | 360 | 132            | 160            | 50  | 14 | 100            | 100            | 70             | 240            | 190            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 34     |
| 50-16     | 25         | 50              | 65              | 100 | 360 | 160            | 180            | 50  | 14 | 110            | 100            | 70             | 265            | 212            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 38     |
| 50-20     | 25         | 50              | 65              | 100 | 360 | 160            | 200            | 50  | 14 | 110            | 100            | 70             | 265            | 212            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 46     |
| 50-26     | 25         | 50              | 65              | 100 | 360 | 180            | 225            | 65  | 14 | 110            | 125            | 95             | 320            | 250            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 63     |
| 50-32     | 35         | 50              | 65              | 125 | 470 | 225            | 280            | 65  | 16 | 110            | 125            | 95             | 345            | 280            | 14 | 342 | 32 | 80  | 35 | 10 | 140 | 101    |
| 65-13     | 25         | 65              | 80              | 100 | 360 | 160            | 180            | 65  | 14 | 110            | 125            | 95             | 280            | 212            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 39     |
| 65-16     | 25         | 65              | 80              | 100 | 360 | 160            | 200            | 65  | 14 | 110            | 125            | 95             | 280            | 212            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 43     |
| 65-20     | 25         | 65              | 80              | 100 | 360 | 180            | 225            | 65  | 14 | 110            | 125            | 95             | 320            | 250            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 52     |
| 65-26     | 35         | 65              | 80              | 100 | 470 | 200            | 250            | 80  | 16 | 110            | 160            | 120            | 360            | 280            | 18 | 342 | 32 | 80  | 35 | 10 | 140 | 81     |
| 65-32     | 35         | 65              | 80              | 125 | 470 | 225            | 280            | 80  | 16 | 110            | 160            | 120            | 400            | 315            | 18 | 342 | 32 | 80  | 35 | 10 | 140 | 110    |
| 80-16     | 25         | 80              | 100             | 125 | 360 | 180            | 225            | 65  | 14 | 110            | 125            | 95             | 320            | 250            | 14 | 267 | 24 | 50  | 27 | 8  | 140 | 51     |
| 80-20     | 35         | 80              | 100             | 125 | 470 | 180            | 250            | 65  | 14 | 110            | 125            | 95             | 345            | 280            | 14 | 342 | 32 | 80  | 35 | 10 | 140 | 70     |
| 80-26     | 35         | 80              | 100             | 125 | 470 | 200            | 280            | 80  | 16 | 110            | 160            | 120            | 400            | 315            | 18 | 342 | 32 | 80  | 35 | 10 | 140 | 91     |
| 80-32     | 35         | 80              | 100             | 125 | 470 | 250            | 315            | 80  | 16 | 110            | 160            | 120            | 400            | 315            | 18 | 342 | 32 | 80  | 35 | 10 | 140 | 120    |
| 80-40     | 45         | 80              | 100             | 125 | 532 | 280            | 355            | 85  | 16 | 110            | 160            | 120            | 440            | 340            | 18 | 368 | 42 | 100 | 45 | 12 | 140 | 161    |
| 100-16    | 35         | 100             | 125             | 125 | 470 | 200            | 280            | 80  | 16 | 110            | 160            | 120            | 340            | 260            | 18 | 342 | 32 | 80  | 35 | 10 | 140 | 81     |
| 100-20    | 35         | 100             | 125             | 125 | 470 | 200            | 280            | 80  | 16 | 110            | 160            | 120            | 360            | 280            | 18 | 342 | 32 | 80  | 35 | 10 | 140 | 85     |
| 100-26    | 35         | 100             | 125             | 140 | 470 | 225            | 280            | 80  | 16 | 110            | 160            | 120            | 400            | 315            | 18 | 342 | 32 | 80  | 35 | 10 | 140 | 106    |
| 100-32    | 35         | 100             | 125             | 140 | 470 | 250            | 315            | 80  | 16 | 110            | 160            | 120            | 400            | 315            | 18 | 342 | 32 | 80  | 35 | 10 | 140 | 134    |
| 100-40    | 45         | 100             | 125             | 140 | 530 | 280            | 355            | 100 | 18 | 110            | 200            | 150            | 500            | 400            | 23 | 370 | 42 | 110 | 45 | 12 | 140 | 174    |
| 125-20    | 35         | 125             | 150             | 140 | 470 | 250            | 315            | 80  | 16 | 110            | 160            | 120            | 400            | 315            | 18 | 342 | 32 | 80  | 35 | 10 | 140 | 111    |
| 125-26    | 35         | 125             | 150             | 140 | 470 | 250            | 355            | 80  | 16 | 110            | 160            | 120            | 400            | 315            | 18 | 342 | 32 | 80  | 35 | 10 | 140 | 115    |
| 125-32    | 45         | 125             | 150             | 140 | 530 | 280            | 355            | 100 | 18 | 110            | 200            | 150            | 500            | 400            | 23 | 370 | 42 | 110 | 45 | 12 | 140 | 163    |
| 125-40    | 45         | 125             | 150             | 140 | 530 | 315            | 400            | 100 | 18 | 110            | 200            | 150            | 500            | 400            | 23 | 370 | 42 | 110 | 45 | 12 | 140 | 181    |
| 150-20    | 35/1       | 150             | 200             | 160 | 495 | 280            | 400            | 100 | 20 | 110            | 200            | 150            | 550            | 450            | 23 | 367 | 32 | 80  | 35 | 10 | 140 | 140    |
| 150-26    | 45         | 150             | 200             | 160 | 530 | 250            | 355            | 100 | 18 | 110            | 200            | 150            | 550            | 450            | 23 | 370 | 42 | 110 | 45 | 12 | 140 | 164    |
| 150-32    | 45         | 150             | 200             | 160 | 530 | 280            | 400            | 100 | 18 | 110            | 200            | 150            | 550            | 450            | 23 | 370 | 42 | 110 | 45 | 12 | 140 | 170    |
| 150-40    | 45         | 150             | 200             | 160 | 530 | 315            | 450            | 100 | 18 | 110            | 200            | 150            | 550            | 450            | 23 | 370 | 42 | 110 | 45 | 12 | 140 | 209    |

Distributor:

Flange mating dimensions to ISO2084 Pn16 (DIN2533 Pn16, BS4504 Pn16)

| DN <sub>A</sub> /DN <sub>E</sub> | 32       | 40       | 50       | 65       | 80       | 100      | 125      | 150    | 200     |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|--------|---------|
| ØD                               | 140      | 150      | 165      | 185      | 200      | 220      | 250      | 285    | 340     |
| ØK                               | 100      | 110      | 125      | 145      | 160      | 180      | 210      | 240    | 295     |
| s <sub>1</sub> x number          | 17.5 x 4 | 17.5 x 4 | 17.5 x 4 | 17.5 x 4 | 17.5 x 8 | 17.5 x 8 | 17.5 x 8 | 22 x 8 | 22 x 12 |

The Manufacturer reserve the right to alter specification without prior notice.