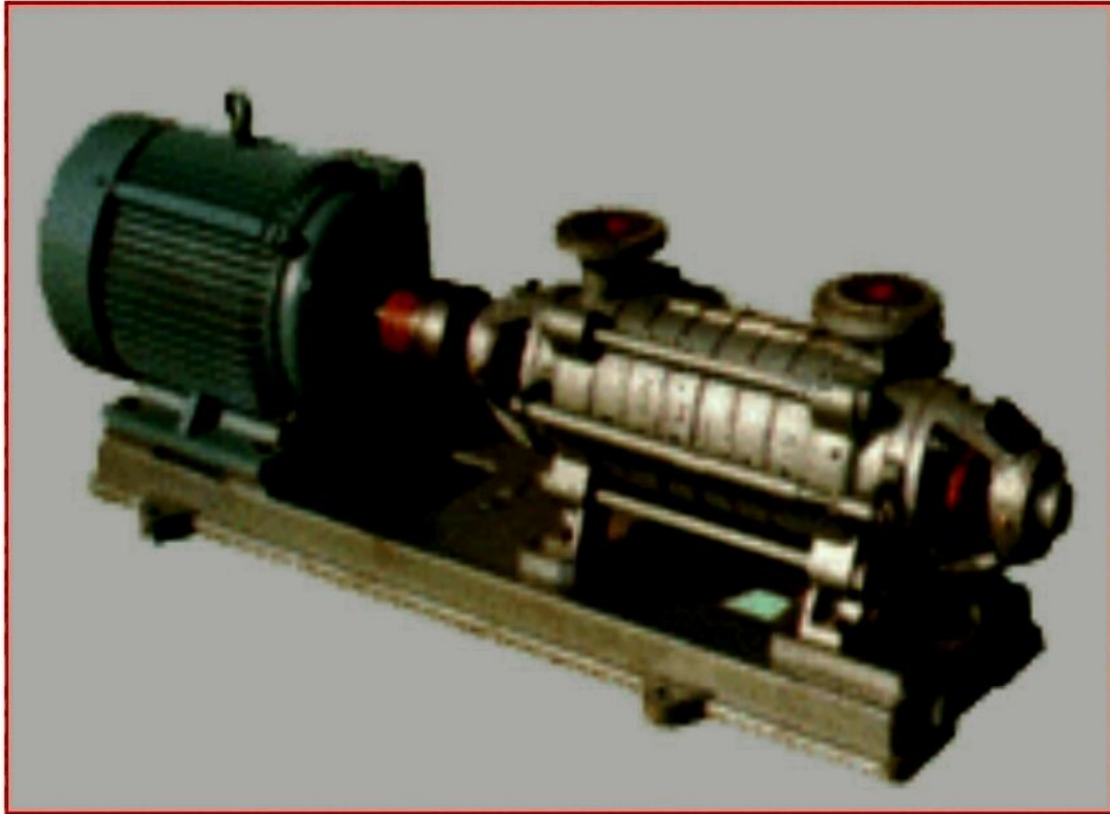


# MULTISTAGE HIGH PRESSURE CENTRIFUGAL PUMPS TYPE MSE MODEL: DG



## Applications

In waterworks, in irrigation and sprinkler installations. As a recirculating pump for cooling and heating water, and also as a fire fighting, boiler feed or pressure boosting pump. The pumps are used for handling clean or only lightly contaminated media, for oils up to 150 mm<sup>2</sup>/sec (cst) and for non-aggressive liquids.

## Hydraulic Data

Capacity up to 130 m<sup>3</sup>/h  
Total head up to 1000 m  
Max casing pressure (suction pressure + closed valve head) 120 bar  
Temperature -20° C to 140° C.

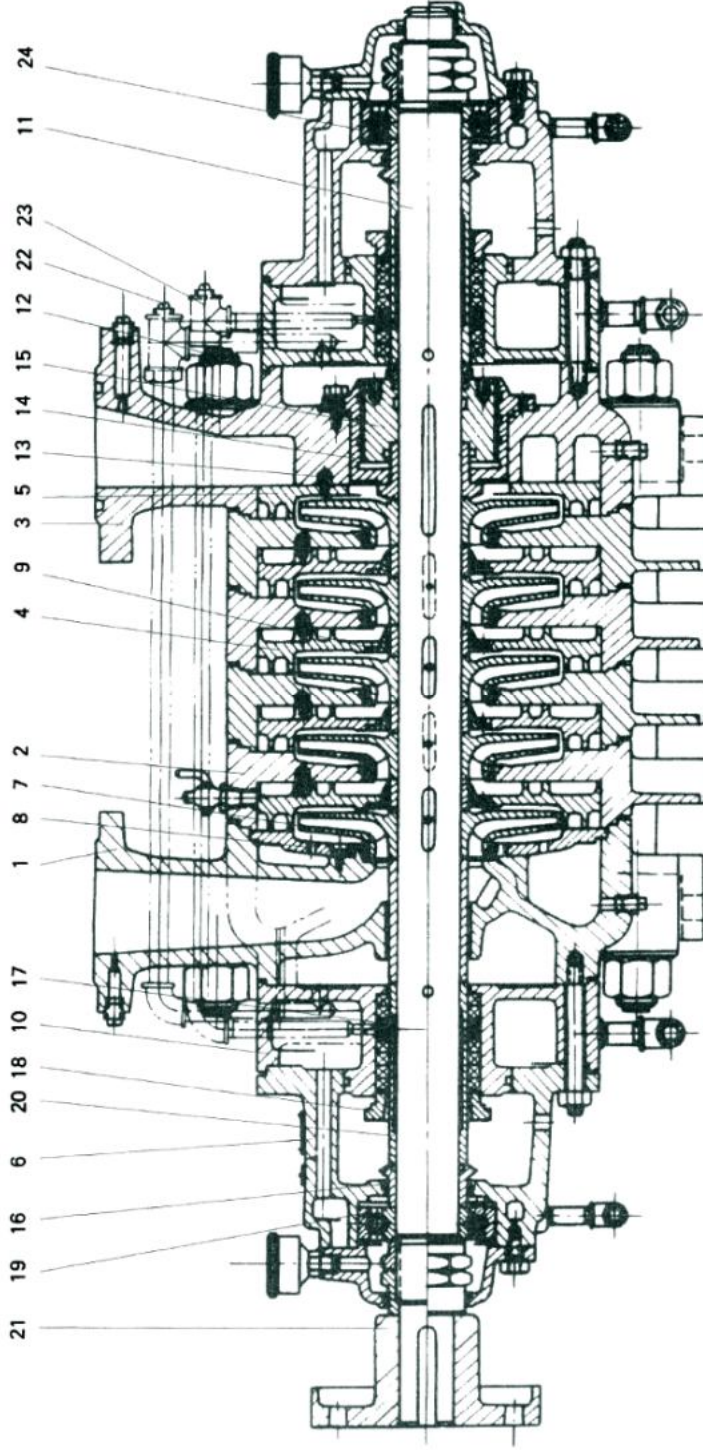
## Design

The pump casing consists of a number of sectional stages, held together by large diameter tie bolts. All impellers are balanced. Axial thrust is compensated for by balance holes in each impeller. The pump shaft is protected against wear by sleeves through the stuffing box. It is supported in amply dimensioned, externally housed, heavy duty bearings. All wearing parts such as impellers, diffusers, diffuser plates, and shaft sleeves are easily renewable and the glands are readily accessible. The by-pass arrangement relieves the pressure in the delivery stuffing box and provides a perfect water seal in the suction stuffing box, even at maximum suction lift. Sealing with packing or mechanical seal.



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# Structure Drawing



- |                      |                      |                         |  |                  |
|----------------------|----------------------|-------------------------|--|------------------|
| 1. Inlet Section     | 9. Guide Vane Sleeve | 13. Axid Balance Bush   | 17. O Ring                               | 21. Coupling     |
| 2. Interstage Casing | 10. Piston Cover     | 14. Axid Balance Piston | 18. Mechanical Seal Cover                | 22. Hexagon Nut  |
| 3. Outlet Section    | 11. Shsft            | 15. Balance Ring        | 19. Grooved Ball Bearing                 | 23. Stud         |
| 4. Guide Vane        | 12. Tightening Nut   | 16. Stopper             | 20. Distance Sleeve<br>(Mechanical Seal) | 24. Ball Bearing |
| 5. Outlet Guide Vane |                      |                         |  |                  |
| 6. Bearing Housing   |                      |                         |  |                  |
| 7. Impeller          |                      |                         |  |                  |
| 8. Seal Ring         |                      |                         |  |                  |