DS-RO
Horizontal end-suction radially split double volute pump for reverse osmosis desalination processes

The Flowserve DS-RO single-stage, end-suction foot-mounted pump is engineered specifically for auxiliary applications found in reverse osmosis desalination processes. Developed in accordance with ISO 5199, this versatile pump is well-suited for plant support services such as pretreatment, boosting and product water supply. Optimized hydraulics and desalination specific materials of construction provide high-efficiency performance and long-term reliability that result in increased uptime with low cost of ownership.

A comprehensive portfolio
The DS-RO pump is one of a number of pumps offered by Flowserve designed to meet the specific pumping requirements of the desalination industry. With a pump portfolio that includes a variety of high-efficiency models for source water intake, high-pressure membrane feed, ERD boosters and auxiliary applications, Flowserve has solidified its position as a single-source supplier to the desalination industry.

Main Features
A rigid shaft and double-volute casing keep shaft deflection low, reducing radial load and promoting high sustained efficiency.

The end-suction design with a choice of three alternative discharge nozzle locations provides system flexibility.

Materials of construction are designed to withstand the corrosive environments typical of desalination processes.

Double-volute casing provides stable operation. Radial thrust loads are minimized, reducing vibration and mechanical loads on all components.

Parts interchangeability over a range of pump sizes lowers spare part inventories and costs.

A spacer type coupling allows full inspection of the back pull-out type pump in minimum time, without disturbing suction and discharge connections.

The closed impeller utilizes three-dimensionally contoured blades extending into the impeller, combining high efficiencies and low NPSHr.
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