



# Horizontal Multistage Pumps (Volute)

## CHARACTERISTICS

- Axially split, horizontal multi-stage centrifugal pump
- Near-centerline mounted
- Twin volute casing
- Single suction, radial, closed impeller
- Double suction impellers for higher flows
- Thrust compensation by opposed impeller groups
- Side-Side nozzle arrangement
- Materials of construction per API 610, other materials on request

## DESIGN FEATURES

- Heavy duty process design according to API 610 latest edition
- API pump Type BB3
- Ring oil lubrication, other methods of lubrication available
- Replaceable wear rings for casing and impeller
- Sleeve / Tilt Pad bearings design available
- Fan and water cooling available

## OPERATING LIMITS

- Capacity 50 to 3,000 m<sup>3</sup>/h (220 to 13,209 U.S. gpm)
- Head 200 to 3,000 m (656 to 9,843 ft)
- Discharge flange size 3 to 14 in
- Max. Pressure 420 bar (6,000 psi)
- Temperature up to 205°C (400°F)

## APPLICATIONS

- Oil fields and terminals
- Crude oil and oil product pipelines
- Water pipelines
- Fluid injection
- High pressure services
- Power plants

## RUHRPUMPEN NOMENCLATURE

- SM
- SM I