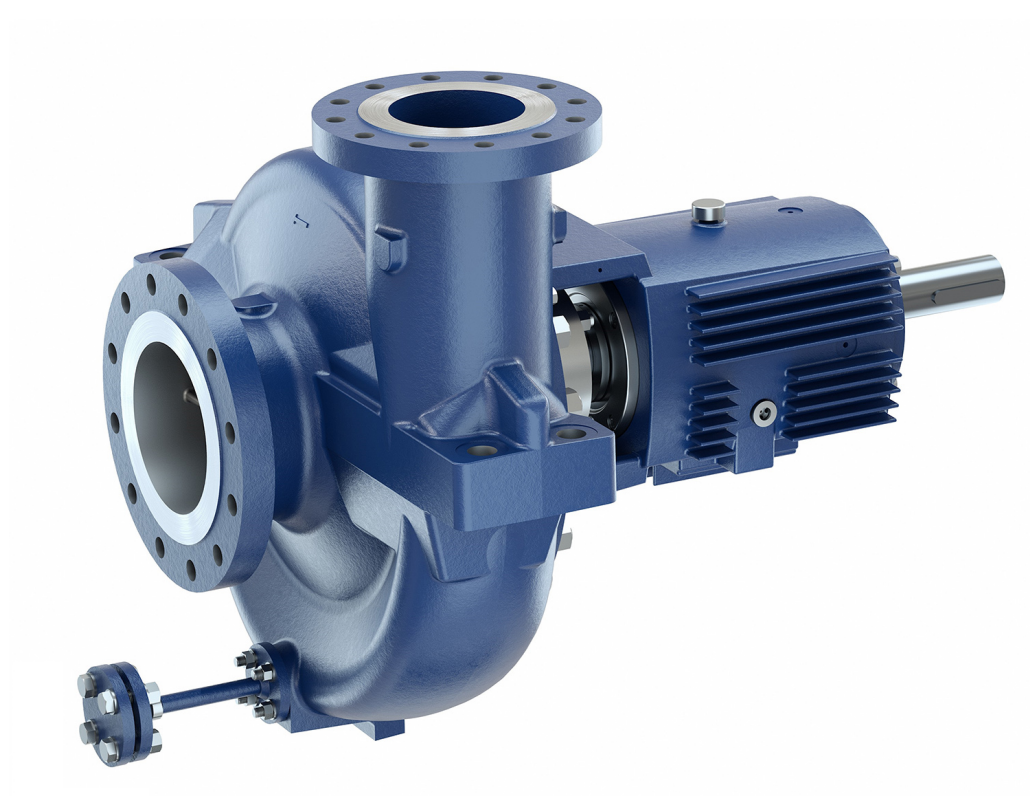


# RPH

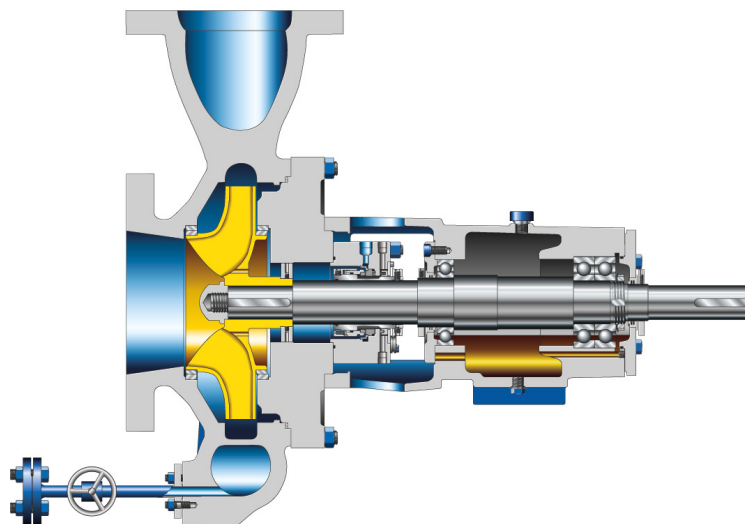
**Single-suction, Single-stage Heavy-duty OH2 Process Pump to API 610**



- 
- |                     |                          |                      |
|---------------------|--------------------------|----------------------|
| • Refineries        | • Petrochemical industry | • Offshore processes |
| • Chemical industry | • Onshore processes      |                      |
- 



# RPH – Single-suction, Single-stage Heavy-duty OH2 Process Pump to API 610



## Benefits

### ■ Low maintenance costs

- The selection of a balancing system for the specific duty point markedly reduces axial forces and extends the bearing life.
- The double volute (DN 80 and above) reduces the radial force and prevents shaft deflection. The load on bearings and mechanical seal is thus considerably reduced.

### ■ Long service life of the mechanical seal

- Maximum permissible shaft diameter to API 610 minimises shaft deflection and vibrations.

### ■ Reduced operating costs

- A choice of more than 70 hydraulic systems enables optimum pump selection to API 610 for higher efficiencies.

### ■ High flexibility

- The pump flanges are available for all common pipes, meeting all standards up to PN 100 / ASME Class 600.

### ■ Long service life and high reliability of bearings

- Heavy-duty 40° angular contact thrust bearings exceed API 610 requirements.
- Oil bath or oil mist lubrication

### ■ No cooling water circuit required

- When fluid temperature and ambient temperature are high, the steel bearing bracket with integrated cooling fins and the optional fan impeller protect the unit from overheating.

### ■ Ease of maintenance

- Mechanical seals to ISO 24109 / API 682 in cartridge design are easy to install/remove for maintenance.

## Materials

S5, S6, S8, C6, A8, D1, D2 and special materials

## Operating data

| Characteristic     |            | Value   |          |
|--------------------|------------|---------|----------|
|                    |            | 50 Hz   | 60 Hz    |
| Flow rate          | Q [m³/h]   | ≤ 4150  | ≤ 5000   |
|                    | Q [US gpm] | ≤ 18200 | ≤ 22000  |
| Head               | H [m]      |         | ≤ 270    |
|                    | H [ft]     |         | ≤ 886    |
| Fluid temperature  | T [°C]     |         | ≥ -70    |
|                    |            |         | ≤ +450   |
|                    | T [°F]     |         | ≥ -94    |
| Operating pressure | p [bar]    |         | ≤ 110    |
|                    | p [psi]    |         | ≤ 1595   |
| Nominal diameter   | [mm]       |         | 25 - 400 |
|                    | [inch]     |         | 1 - 16   |

Other values on request