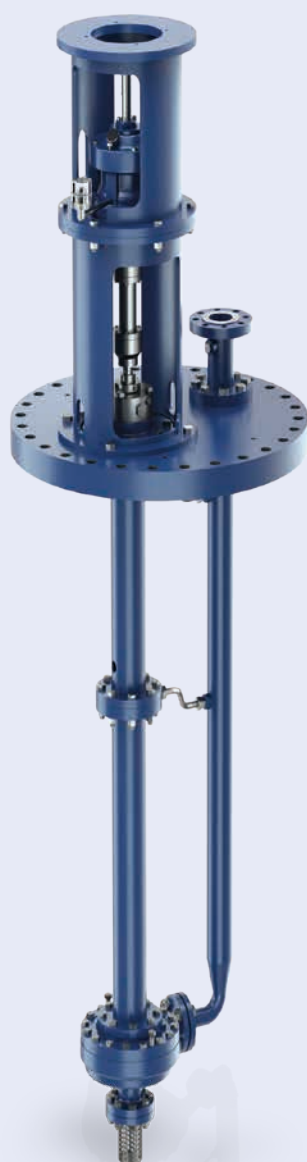


## **RPH-V – Vertical, Single-stage, Heavy-duty Single-casing Sump Pump Type VS4**



### **Applications:**

- Chemical industry
- Petrochemical industry
- Refineries
- Offshore platforms

**More information: [www.ksb.com](http://www.ksb.com)**

# RPH-V – Vertical, Single-stage, Heavy-duty Single-casing Sump Pump Type VS4 to API 610 / ISO 13709

## Design features

### 1 Integral thrust bearings

Oil-lubricated bearings integrated in the pump exceed the life requirements specified by API 610, reducing maintenance costs and work. Bearings located at the motor are not subjected to thrust forces from pump.

- Grease lubrication available on request

### 2 Rigid coupling

Coupling with removable spacer arranged between seal chamber and thrust bearing facilitates maintenance and removal of mechanical seal.

### 3 Variety of seals

Seal chamber designed to API 610 allows installation of any API 682 seal to meet specific process requirements.

- Gland packing available on request

### 4 Robust radial bearings

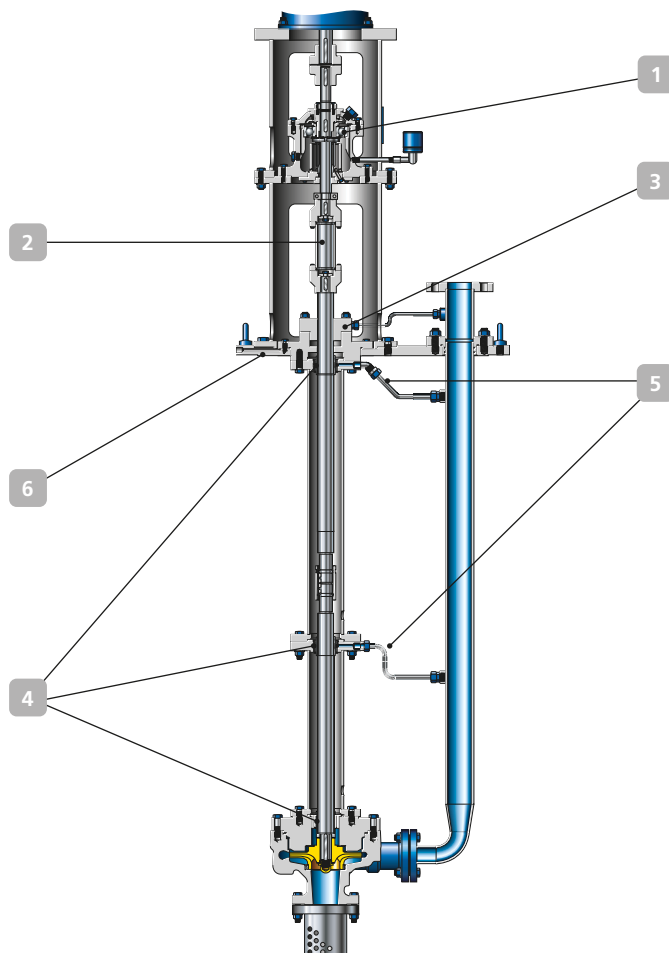
Product-lubricated PEEK/carbon guide bearings with bearing span below requirements of API 610 ensure low vibrations and reliable operation.

- Other guide bearing materials available on request

### 5 Optimal lubrication

Different options of lubrication for guide bearings are available to suit specific operational challenges.

- Lubrication by fluid handled
- Injection of external fluid
- External grease supply



### 6 Flexible installation

Circular or rectangular sole plate allows easy adaptation to different installation conditions.

## Materials

S-5, S-6, S-8, C-6, A-8, D-1

## Technical data

|                      | 50 Hz                                 | 60 Hz                              |
|----------------------|---------------------------------------|------------------------------------|
| Max. flow rate       | 150 m <sup>3</sup> /h / 660 US gpm    | 180 m <sup>3</sup> /h / 793 US gpm |
| Max. head            | 165 m / 541 ft                        | 240 m / 787 ft                     |
| Max. pressure        | 35 bar / 508 psi                      |                                    |
| Max. temperature     | -30 °C to -274 °C / -22 °F to -461 °F |                                    |
| Nominal size         | 40 to 150 mm / 1.5 to 6 in            |                                    |
| Max. immersion depth | 5 m / 16.4 ft                         |                                    |

Other values on request



**LENNTECH**  
WATER TREATMENT SOLUTIONS

info@lenntech.com Tel. +31-152-610-900  
www.lenntech.com Fax. +31-152-616-289