

# P etroPompSad

Pump Technologies | Pompa Teknolojile

## VS4 API 610 Series

Self Priming Centrifugal Pump  
Kendinden Emiřli Santrifüj Pompa





Pump • Fire Fighting Units • Booster Set

# VS4 API 610

## PUMPS (SUMP DESIGN)



### Handled Liquids

Clean or normal contaminated low or medium viscosity liquids without solid & fibrous particles.

### Technical Data

Discharge Flange \_\_\_\_\_ DN 32....DN 300 mm

Capacity \_\_\_\_\_ up to ....1500 m<sup>3</sup>/h

Head \_\_\_\_\_ up to ....60 m

Speed \_\_\_\_\_ up to ....1450 rpm

Operating Temperature \_\_\_\_\_ up to ....+160°C

Casing Pressure (Pmax) \_\_\_\_\_ 10 bar

### Design Features

Vertical, volute casing, single stage, end suction centrifugal sump pumps with enclosed type impeller.

Up to 4 m. column length.

Discharge pipe is extended up to base plate for easy installation.

Suction and discharge flanges conform to EN 1092-2 / PN 16. (EN 1092-1 / PN 16 for steel or stainless steel casing)

All impellers are balanced dynamically or statically according to ISO 9001-2015

Axial thrust is balanced by impeller balancing holes system.

### Pump Designation

Pump Type \_\_\_\_\_

Discharge Nozzle (DN-mm) \_\_\_\_\_

Nominal Impeller Diameter (mm) \_\_\_\_\_



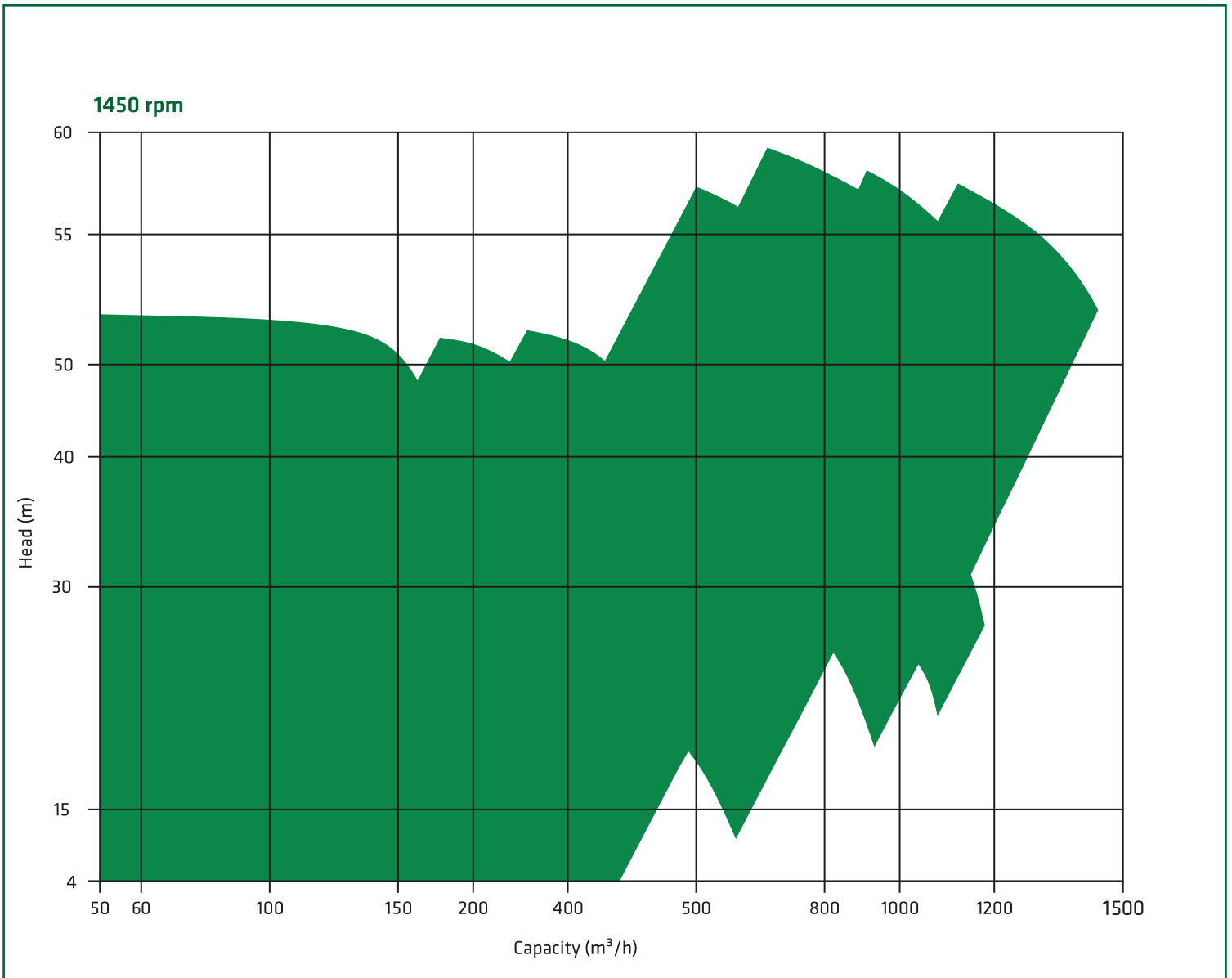
Direction of rotation is clockwise viewed from driver.

Bearings of VS4 type pumps are grease lubricated. Bottom and internal sleeve bearings are lubricated by the pumping liquid. (different lubrication systems can be applied for the sleeve bearings in case of request or requirement. Contact for detailed information)

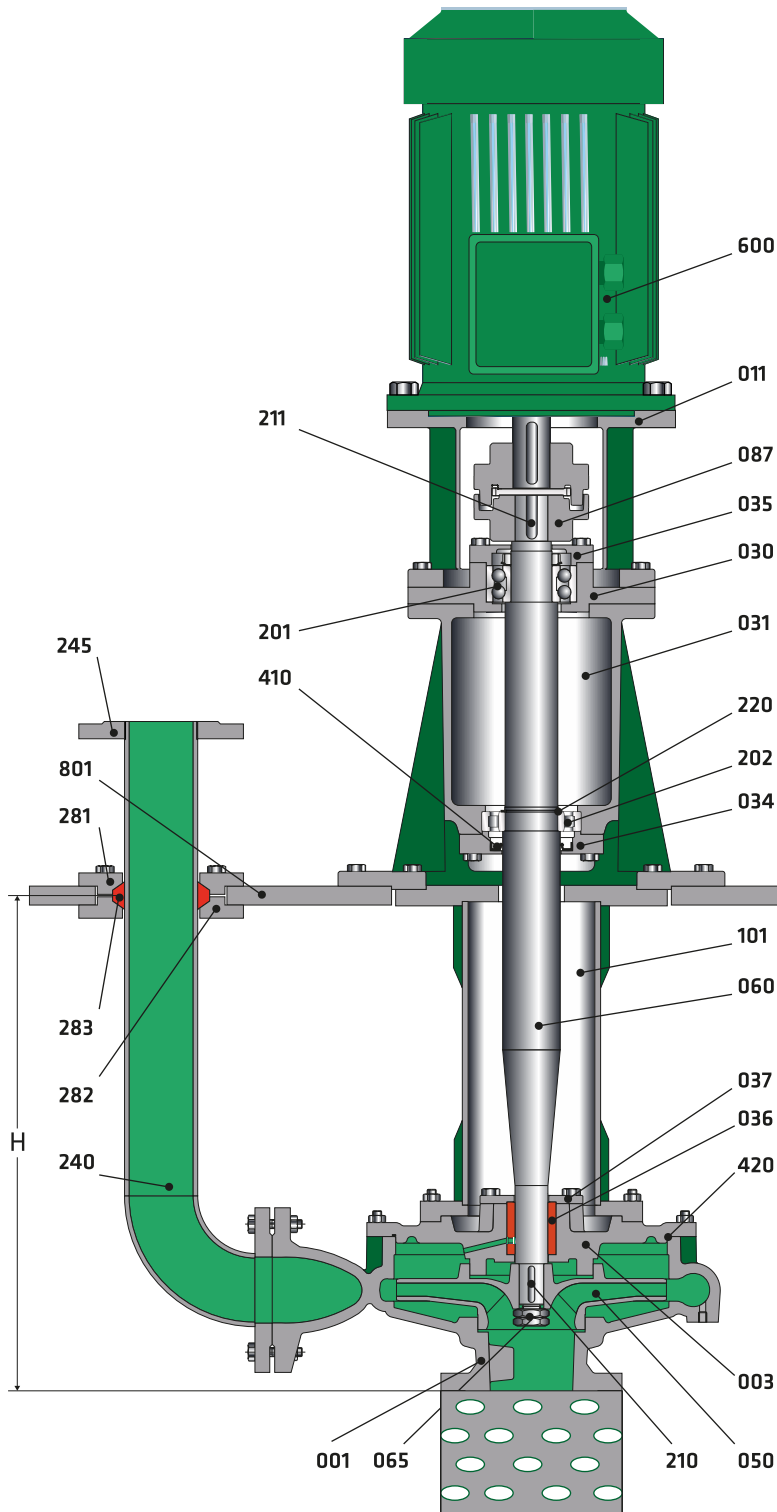
### Shaft Sealing

No sealing is required.

**VS4 250 420**



# RetropompSad vs4



## Part List

|     |                            |
|-----|----------------------------|
| 001 | Volute Casing              |
| 003 | Casing Cover               |
| 011 | Motor Pedestal             |
| 030 | Bearing Housing (top)      |
| 031 | Bearing Housing (bottom)   |
| 034 | Bearing Cover (bottom)     |
| 035 | Bearing Cover (top)        |
| 036 | Sleeve Bearing             |
| 037 | Sleeve Bearing Cover       |
| 050 | Impeller                   |
| 060 | Shaft                      |
| 065 | Impeller Nut               |
| 087 | Flexible Coupling          |
| 101 | Column Pipe                |
| 201 | Double Row Ball Bearing    |
| 202 | Cylindrical Roller Bearing |
| 210 | Impeller Key               |
| 211 | Coupling Key               |
| 220 | Circlip                    |
| 240 | Discharge Pipe             |
| 245 | Discharge Flange           |
| 281 | Top Fixing Flange          |
| 282 | Bottom Fixing Flange       |
| 283 | Rubber Gasket              |
| 410 | Lip Seal                   |
| 420 | O-Ring                     |
| 600 | Electric Motor             |
| 801 | Base Plate                 |

## Technical Data

| PART LIST       | 0.6025 | 0.7040 | 1.0619 | 1.4308 | 1.4309 | 1.4408 | 1.4409 | 1.4500 | 1.4517 | 1.4469 | 1.4317 | 1.4008 | 2.1050.01 | 2.0975.01 | 2.1096.01 | 1.0037 | 1.0503 | 1.4021 | 1.4021+QT | 1.4301 | 1.4404 | 1.4460 | 1.4462 | Tungsten Carbide |   |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|-----------|-----------|--------|--------|--------|-----------|--------|--------|--------|--------|------------------|---|
| Volute Casing   | ●      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○         |           |           |        |        |        |           |        |        |        |        |                  |   |
| Casing Cover    | ●      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○         |           |           |        |        |        |           |        |        |        |        |                  |   |
| Impeller        | ●      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○      | ○         | ○         | ○         |        |        |        |           |        |        | ○      |        |                  |   |
| Shaft           |        |        |        |        |        |        |        |        |        |        |        |        |           |           |           |        | ●      | ○      | ○         | ○      | ○      |        |        | ○                |   |
| Bearing Housing | ●      | ○      | ○      | ○      | ○      | ○      | ○      |        |        |        |        |        |           |           |           |        |        |        |           |        |        |        |        |                  |   |
| Column Pipe     |        |        |        |        |        |        |        |        |        |        |        |        |           |           |           | ●      |        |        |           | ○      | ○      |        |        |                  |   |
| Sleeve Bearing  |        |        |        |        |        |        |        |        |        |        |        |        | ●         |           |           |        |        |        |           |        |        |        |        |                  | ○ |

## Material Equivalents

| Description                                      | DIN / EN  |                            | AISI / SAE / ASTM |
|--|-----------|----------------------------|-------------------|
| Cast Iron  | 0.6025    | EN-GJL-250 (GG25)          | A48 Class 40B     |
| Nodular Cast Iron                                | 0.7040    | EN-GJS-400-15 (GGG40)      | A536 60-40-18     |
| Nodular Cast Iron                                | 0.7043    | EN-GJS-400-18-LT (GGG40.3) | A536 60-40-18     |
| Cast Steel                                       | 1.0619    | GP240GHGS-C25              | A216 WCB          |
| Chrome Nickel Cast Steel                         | 1.4308    | GX5CrNi19-10               | A351 CF8          |
| Chrome Nickel Cast Steel (low carbon)            | 1.4309    | GX2CrNi19-11               | A351 CF3          |
| Chrome Nickel Molybdenum Cast Steel              | 1.4408    | GX5CrNiMo19-11-2           | A351 CF8M         |
| Chrome Nickel Molybdenum Cast Steel (low carbon) | 1.4409    | GX2CrNiMo19-11-2           | A351 CF3M         |
| Austenitic Cast Steel                            | 1.4500    | GX7NiCrMoCuNb25-20         | A351 CN7M         |
| Austenitic - Ferritic Cast Steel (duplex)        | 1.4517    | GX2CrNiMoCuN25-6-3-3       | A890 CD4MCuN      |
| Austenitic - Ferritic Cast Steel (super duplex)  | 1.4469    | GX2CrNiMoN26-7-4           | A890 CE3MN        |
| Martenzitic Stainless Cast Steel                 | 1.4317    | GX4CrNi13-4                | A352 CA6NM        |
| Martenzitic Stainless Cast Steel                 | 1.4008    | GX7CrNiMo12-1              | A217 CA15         |
| Cast Bronze (tin alloy)                          | 2.1050.01 | G-CuSn10                   | B427 C90700       |
| Cast Bronze (nickel alloy)                       | 2.0975.01 | G-CuAl10Ni                 | B148 C95500       |
| Cast Bronze (leaded)                             | 2.1096.01 | G-CuSn5ZnPb                | B584 C83600       |
| Steel  | 1.0037    | St37                       | A 29 1015         |
| Carbon Steel                                     | 1.0503    | C45                        | AISI 1045         |
| Chrome Steel                                     | 1.4021    | X20Cr13                    | A276 Type 420     |
| Chrome Steel (heat treated)                      | 1.4021    | X20Cr13                    | A276 Type 420+QT  |
| Chrome Nickel Steel                              | 1.4301    | X5CrNi18-10                | A276 Type 304     |
| Chrome Nickel Steel (low carbon)                 | 1.4404    | X2CrNiMo17-12-2            | A276 Type 316L    |
| Duplex (austenitic-ferritic) Steel               | 1.4460    | X3CrNiMoN27-5-2            | AISI 329          |
| Duplex (austenitic-ferritic) Steel               | 1.4462    | X2CrNiMoN22-5-3            | UNS S32205        |

# PetropompSad



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