

SNV-B

PROCESS PUMPS (SUMP DESIGN)



Handled Liquids

Clean or slightly contaminated low viscosity industrial liquids without solid & fibrous particles.

Technical Data

Discharge Flange : up to DN 200 mm

Capacity : up to 1700 m³ /h

Head : up to 95 m

Speed : up to 1450 rpm

Operating Temperature : up to 95 °C*

Casing Pressure : 10 Bar

(*) The material of pumps differ according to the type of pumped liquid, operating temperature and pressure. Contact for detailed information.

- Direction of rotation is clockwise viewed from driver end.
- Discharge flanges conform to EN 1092 - 2 / PN10 (PN16*).
- All impellers are dynamically balanced according to ISO 1940 Class 6.3.
- Axial thrust is balanced by impeller back ribs.
- Bearings of SNV-B type pumps are grease lubricated.

Design Features

- Vertical shaft, single stage, end suction centrifugal sump pumps for industrial applications.
- Up to 4m. column length.
- Discharge pipe is extended upto base plate for easy installation.

Shaft Sealing

- No sealing is required.

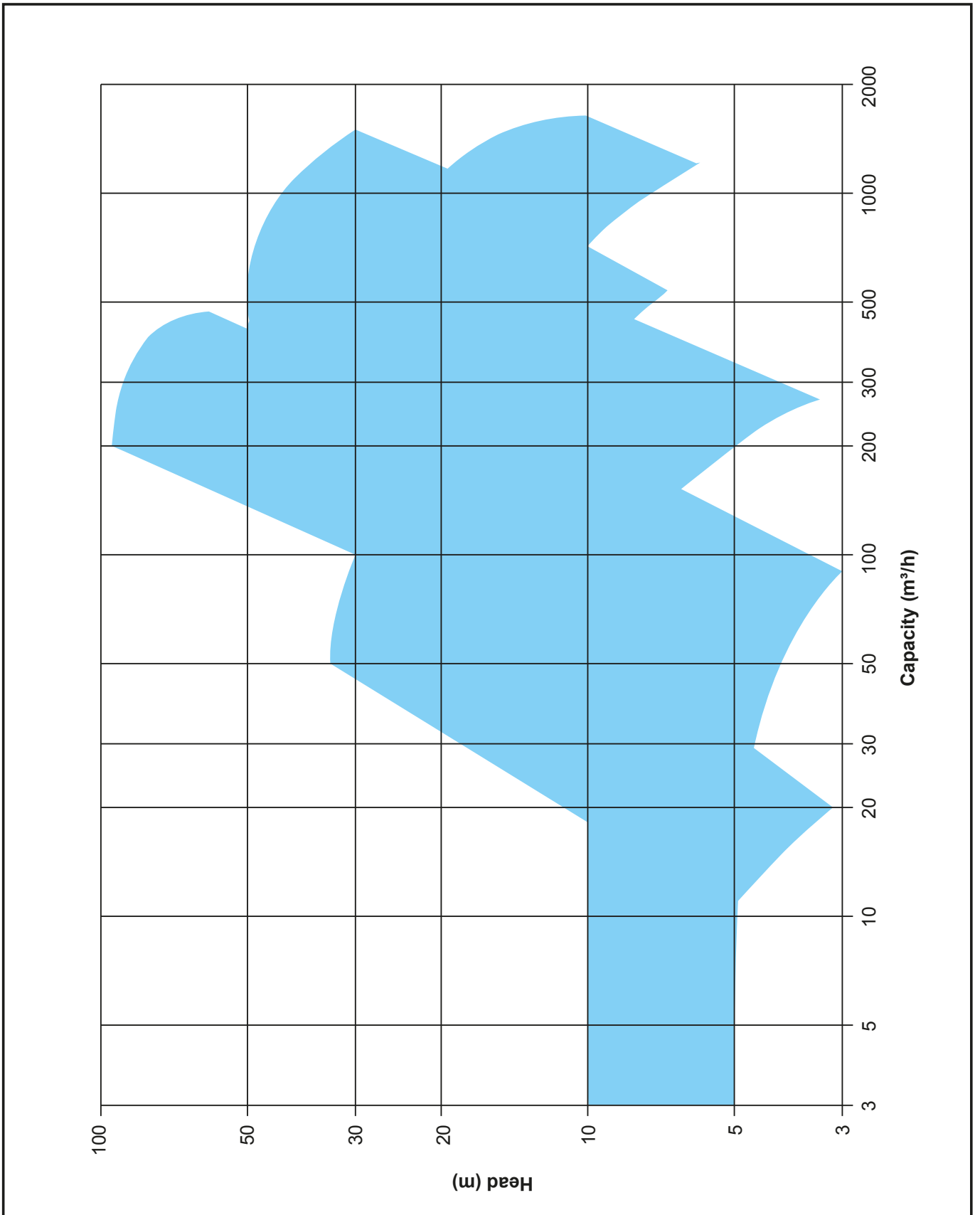
Pump Designation

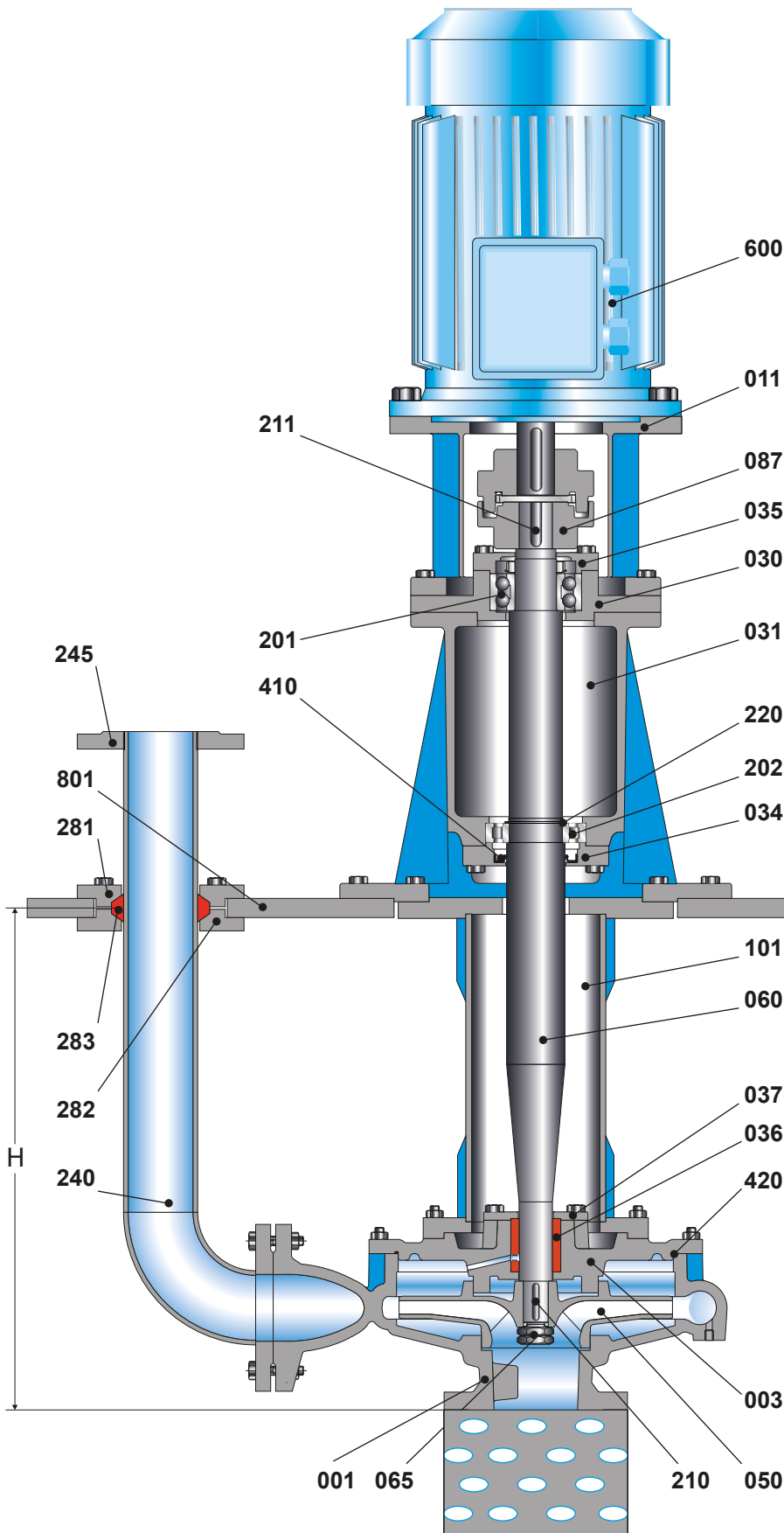
SNV-B 100 - 250

Pump Type

Discharge Nozzle (DN-mm)

Nominal Impeller Diameter (mm)





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 |

Material Options

| Part List | 0.6025 | 0.7040 | 1.0619 | 1.4308 | 1.4309 | 1.4408 | 1.4409 | 1.4500 | 1.4517 | 1.4469 | 1.4317 | 2.1050.01 | 2.0975.01 | 1.0037 | 1.0503 | 1.4021 | 1.4301 | 1.4306 | 1.4401 | 1.4404 | 1.4462 | |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|---|
| Volute Casing | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | |
| Casing Cover | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | |
| Impeller | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | |
| Shaft | | | | | | | | | | | | | | | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Bearing Housing | ● | ○ | | | | | | | | | | | | | | | | | | | | |
| Column Pipe | | | | | | | | | | | | | | ● | | | ○ | ○ | ○ | ○ | ○ | ○ |
| Wear Ring (casing) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | | | | | | | |

● Standart manufacturing
○ Optional

Material Equivalents

| Descriptions | DIN 17007 | EN-DIN | ASTM |
|--|-----------|-----------------------------|------------------------|
| Cast iron | 0.6025 | GJL-250 (GG 25) | A 48 Class 40-B |
| Nodular cast iron | 0.7040 | GJS-400-15 (GGG 40) | A 536 Gr. 60-40-18 |
| Cast steel | 1.0619 | GP240GH (GS-C 25) | A 216 Gr. WCB |
| Chrome nickel cast steel | 1.4308 | G-X5 Cr Ni 19-10 | A 351/743/744 Gr. CF8 |
| Chrome nickel cast steel (low carbon) | 1.4309 | G-X2 Cr Ni 19-11 | A 351/743/744 Gr. CF3 |
| Chrome nickel molybdenum cast steel | 1.4408 | G-X5 Cr Ni Mo 19-11-2 | A 351/743/744 Gr. CF8M |
| Chrome nickel molybdenum cast steel (low carbon) | 1.4409 | G-X2 Cr Ni Mo 19-11-2 | A 351/743/744 CF3M |
| Austenitic cast steel | 1.4500 | G-X7 Cr Ni Mo Cu Nb 25-20 | A 351/743/744 (CN7M) |
| Austenitic-ferritic cast steel (duplex) | 1.4517 | G-X2 Cr Ni Mo Cu N 25-6-3-3 | A 890 Gr. 1B (CD4MCuN) |
| Austenitic-ferritic cast steel (super duplex) | 1.4469 | G-X2 Cr Ni Mo N 26-7-4 | A 890 Gr. 5A (CE3MN) |
| Martenzitic Stainless Cast Steel | 1.4317 | GX4 Cr Ni 13-4 | A 351/743/744 (CA6NM) |
| Cast bronze (tin alloy) | 2.1050.01 | G-Cu Sn 10 | B 584 C 90700 |
| Cast bronze (nickel alloy) | 2.0975.01 | G-Cu Al 10 Ni | B 148 C 95800 |
| Steel | 1.0037 | St 37 | A 29 1015 |
| Carbon steel | 1.0503 | C 45 | A 29/108/576 1045 |
| Chrome steel | 1.4021 | X20 Cr 13 | A 276 Type 420 |
| Chrome nickel steel | 1.4301 | X5 Cr Ni 18-10 | A 276 Type 304 |
| Chrome nickel steel (low carbon) | 1.4306 | X2 Cr Ni 19-11 | A 276 Type 304L |
| Chrome nickel molybdenum steel | 1.4401 | X5 Cr Ni Mo 17-12-2 | A 276 Type 316 |
| Chrome nickel molybdenum steel (low carbon) | 1.4404 | X2 Cr Ni Mo 17-12-2 | A 276 Type 316 L |
| Duplex (austenitic-ferritic) steel | 1.4462 | X2 Cr Ni Mo N 22-5-3 | A 276 S 31803 |

Flange Dimensions

| DNe / DNb | Suction & Discharge (PN 16) | | | |
|-----------|-----------------------------|-----|----|----|
| | Df | k | s | n |
| 32 | 140 | 100 | 19 | 4 |
| 40 | 150 | 110 | 19 | 4 |
| 50 | 165 | 125 | 19 | 4 |
| 65 | 185 | 145 | 19 | 4 |
| 80 | 200 | 160 | 19 | 8 |
| 100 | 220 | 180 | 19 | 8 |
| 125 | 250 | 210 | 19 | 8 |
| 150 | 285 | 240 | 23 | 8 |
| 200 | 340 | 295 | 23 | 12 |

"n" number of holes

