



# NEBRAS PUMPS



By taking advantage of more than 30 years of experience, Nebras Pumps Mfg. Co. was established in order to design and implement pumping stations, water supply systems and fire fighting packages up to the capacity of  $6\text{m}^3/\text{sec}$  and the head of 400 m in accordance with NFPA20 standard and FM/UL certificates .

After graduating in production and industrial design engineering from England, the founder of Nebras Co. Mr. Ebrahim Mahjani has been active in the field of water pumps as the representative of Nijhuis Pompen B.V. of the Netherlands since 1993. Having many years of experience in pump manufacturing, he established Nebras Co. in Iran. By taking advantage of modern and precise equipment and by recruiting specialized technical staff and experienced design/engineering team, he has been able to manufacture high quality products. Therefore, Nebras is well known in the local market for manufacturing of pump packages and has had a large share in implementation of different projects in oil, gas and petrochemical industries as well as water supply systems

Nebras plant is located in Eshtehard Industrial Estate with a surface area of  $5000\text{ m}^2$  including administrative building assembly and manufacturing hall, testing hall and electronic hall. Nebras plant is also equipped with three test lines capable of testing all the vertical and horizontal water pumps and fire fighting pumps up to the capacity of  $12000\text{ m}^3/\text{h}$



**شرکت پمپ سازان نبراس** محدوده وسیعی از پمپ‌های سانتریفیوژ را مطابق مشخصات درخواست و براساس استانداردهای معتبر جهانی و داخلی، طراحی، تولید و تست میکند. همچنین این شرکت قادر به ارائه خدمات نصب، راه‌اندازی، تعمیر، نگهداری، تعمیرات اساسی، تأمین قطعات یدکی و تمامی خدمات پس از فروش مورد نیاز از طریق واحد خدمات پس از فروش و توسط مهندسين و تکنسین های آموزش دیده و کارخانه مجهز خود می باشد.

### دپارتمان پروژه‌های شرکت نبراس آمادگی دارد خدمات زیر را ارائه نماید:

- طراحی و اجرای ایستگاه پمپاژ و سیستم های انتقال آب.
- طراحی و اجرای ایستگاه پمپاژ آتش نشانی.
- تعمیر اساسی ایستگاه پمپاژ و تأمین و ساخت قطعات یدکی.

### محصولات و خدمات این شرکت به شرح ذیل می باشند:

- تأمین پمپ‌های آتش‌نشانی و سایر تجهیزات مربوط به پکیج‌های آتش‌نشانی. شرکت نبراس همچنین قادر به تأمین پکیج‌های مجهز به موتور الکتریکی و یا موتور دیزل بصورت نصب شده بر روی شاسی و یا بصورت کانتینری مطابق با استاندارد NFP20 و با گواهی‌های FM/UL میباشد. پکیج‌های آتش‌نشانی کانتینری شامل کلیه تجهیزات و متعلقات تلمبه خانه آتش‌نشانی بوده که به سهولت قابل نصب و بهره‌برداری در هر نقطه سایت و آماده اتصال به شبکه خط آتش‌نشانی می‌باشند.
- پمپ‌های فرآیندی مطابق استاندارد API تا ظرفیت ۵,۰۰۰ مترمکعب در ساعت و فشار ۴۰ بار.
- پمپ های کولینگ مطابق با استاندارد های API,ISO و DIN تا ظرفیت ۵۰,۰۰۰ مترمکعب در ساعت و فشار ۳۰ بار.
- پمپ‌های انتقال آب و آب‌شور مطابق با استانداردهای API,ISO و DIN تا ظرفیت ۵۰,۰۰۰ مترمکعب در ساعت و فشار ۳۰ بار.
- پمپ‌های انتقال سیالات ویسکوز.
- پمپ‌های مورد نیاز خطوط انتقال آب و فاضلاب، تصفیه خانه‌های آب و تصفیه خانه‌های فاضلاب جهت پمپاژ فاضلاب.
- کارخانه این شرکت با بهره‌مندی از تجهیزات دقیق و مدرن و با بالاترین کیفیت قادر به انجام تست کلیه پمپ‌های آب و آتش‌نشانی افقی و عمودی تا ظرفیت ۱۲,۰۰۰ متر مکعب در ساعت و براساس استانداردهای ISO, NFPA, API می‌باشد.



**TYPE A  
CONVENTIONAL FIRE FIGHTING  
PACKAGES CONSISTING OF:**



- Electro pump(s) together with its own switch gear(s) and control panel(s) mounted on an individual skid.



- Diesel pump(s) together with its own control panel(s) mounted on an individual skid.



- Jockey pump(s) together with its own panel(s) mounted on an individual skid.

**The above mentioned skids should be integrated at site  
(i.e. Piping, Interlocking by valves and sensors, etc.)**



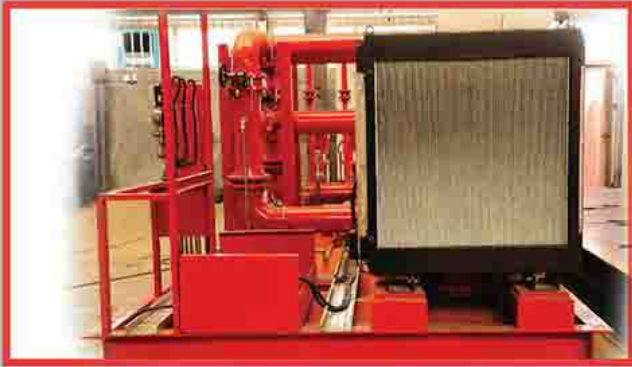
**NEBRAS PUMPS MFG. CO. LTD.**

**Fire Fighting Pump Packages**



[www.nebraspumps.com](http://www.nebraspumps.com)

**TYPE B  
COMMON SKID ( COMPACT UNIT):**



- Electro pump(s) together with its own switch gear(s) and control panel(s).



- Diesel pump(s) together with its own control panel(s).

- Jockey pump(s) together with its own panel(s).



**The above mentioned units are mounted and integrated on a common skid. Furthermore, the fabricated common skid is tested at Nebras Test Rig.**



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**TYPE C  
CONTAINERIZED FIRE FIGHTING PACKAGES  
CONSISTING OF:**



- Electro pump(s) together with its own switch gear(s) and control panel(s).

- Diesel pump(s) together with its own control panel(s).



- Jockey pump(s) together with its own panel(s).



**The above mentioned units are integrated in a self-contained fire protected container. The fabricated container is tested at Nebras Test Rig.**



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## Panels For Fire Fighting Pump Packages



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### **Diesel Engine Fire Pump Controller**

Nebras diesel engine controller type NPM/NFPA20-D8 has been designed in accordance with the latest requirements of NFPA20 standard for automatic and manual starting of diesel engine driven pumps. The components are installed in an enclosure having an ingress protection rated at IP55 or more. This controller has been certified by E.P.I.L laboratories.

### **MV Motor Fire Pump Switch Gear and Control Panel**

Nebras MV switch gear and controller type NPM/NFPA20/MV-SW has been designed in accordance with the latest requirements of NFPA20 standard for automatic, manual and emergency starting of MV motor driven pumps. The components are installed in an enclosure having an ingress protection rated at IP55 or more. This controller has been certified by E.P.I.L laboratories.

### **LV Motor Fire Pump Switch Gear and Control Panel**

Nebras LV switch gear and controller type NPM/NFPA20-SD has been designed in accordance with the latest requirements of NFPA20 standard for automatic, manual and emergency starting of LV motor driven pumps. The components are installed in an enclosure having an ingress protection rated at IP55 or more. This controller has been certified by E.P.I.L laboratories.





### **Control Signals**

**A. Power on signal light:**

This signal light will be illuminated when the high voltage is connected and the power circuit is healthy.

**B. Power failed signal light:**

This signal light will be illuminated when the high voltage is disconnected or the power circuit has failed.

**C. low Pressure signal light:**

This signal light will be illuminated when the pressure of the line is low.

**D. Pump running signal light:**

This signal light will be illuminated when the E-Motor starts to run.

### **Remote Signal Contacts**

*These dry contacts are used for transferring remote signals to DCS.*

*These signals are as follows:*

- A.** Power on
- B.** Power failed
- C.** Motor tripped
- D.** Pressure low
- E.** Pump running
- F.** Motor overload



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**Sea Water, Raw Water  
Cooling Water Pumps**



**Vertical Turbine Pump Application:**

Sea Water intake Pump  
Raw Water Pump or eq.

*Standard: API, ISO, DIN*



**Split Case Pump(Horizontal & Vertical)  
Application:**

Cooling Water Pump  
Water/Sea Water Transfer Pump,  
Fresh Water Pump

*Standard: API, ISO, DIN*

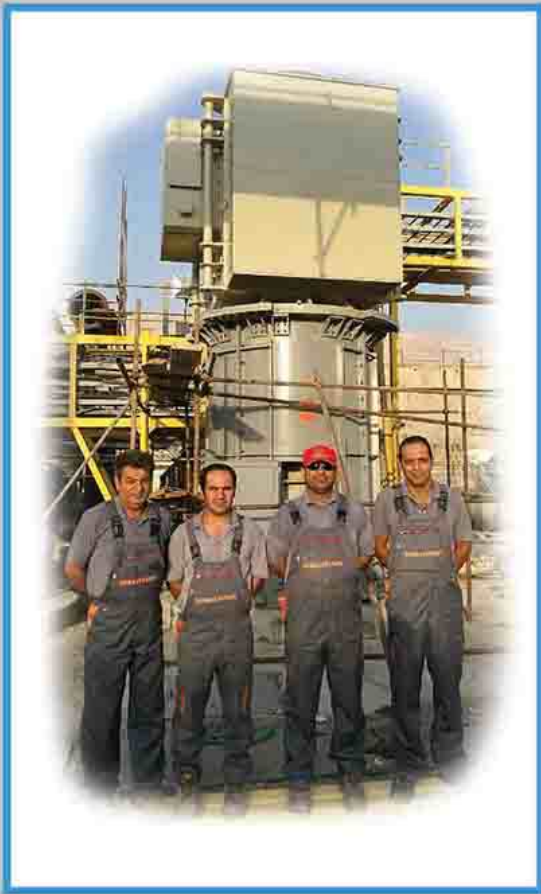


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## Sea Water Intake Pump



### Vertical Sea Water Intake Electro Pump

*Capacity:* 12,100 m<sup>3</sup>/h

*Head:* 98m

*Power:* 4,700kw



### Vertical Sea Water Intake Diesel Pump

*Capacity:* 3,000 m<sup>3</sup>/h

*Head:* 110m

*Power:* 1,500kw



# Heavy Duty Process Pumps

Acc. to API 610 Latest Edition

## (OH2) API 610

CENTERLINE MOUNTED-END SUCTION PROCESS PUMP

Process Pump For Oil Refinery  
Petrochemical Plant, Marin Industry and  
Power Station .



## (BB3) API 610

AXIALLY SPLIT MULTISTAGE PUMP

Boiler Feed Water Pump and High  
Pressure Process Pump For Oil Refinery,  
Petrochemical Plant and Power Station .



## (BB2) API 610

RADIALLY SPLIT PROCESS PUMP

Cooling Water Circulation Pump, Hot  
Temperature Fluid For Oil Refinery  
Petrochemical Plant, Marin Industry and  
Power Station .



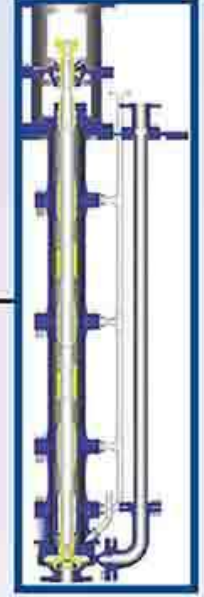
# Heavy Duty Process Pumps

## Acc. to API 610 Latest Edition

### (VS4) API 610

SUMP PUMP

Refinery, Petrochemical, Coal Chemical, Power Plant, Environmental Engineering, Wastewater Treatment, Cement Plant.



### (BB5) API 610

DOUBLE CASING RADIALLY SPLIT MULTISTAGE PUMP

Petrochemical, Chemical, Power Plant

Typical Application

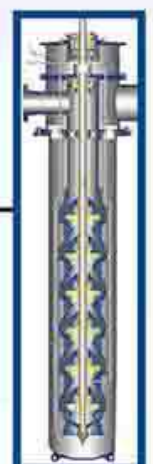
Ammonia plant Liquid oxygen pump, Hydrogenation feeding pump, high pressure & high temperature hydraulic turbine

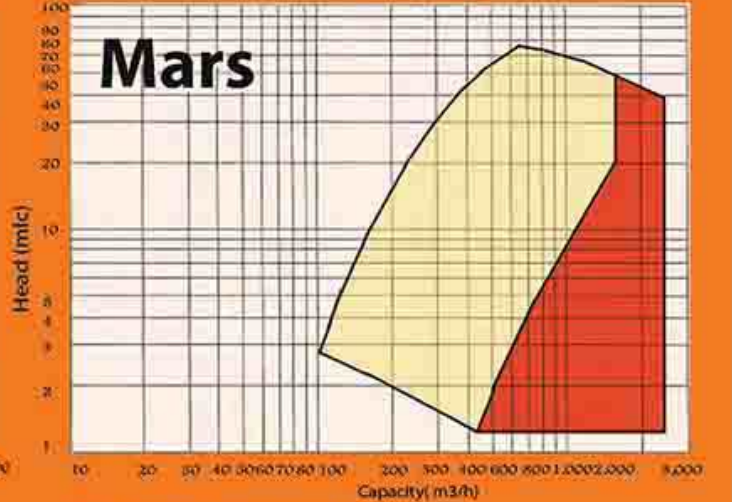
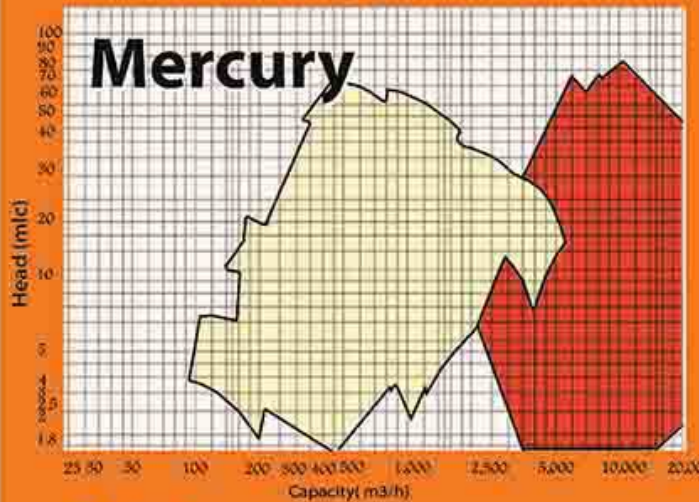
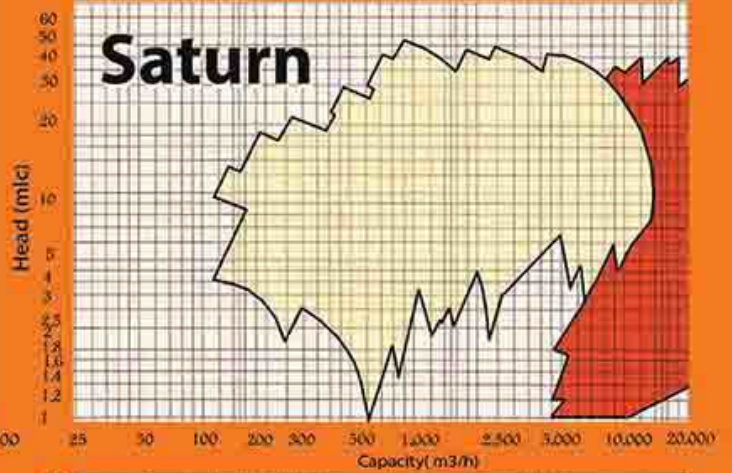
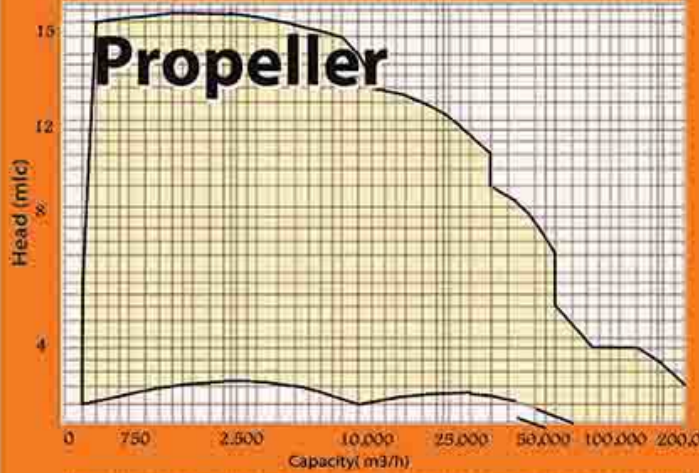
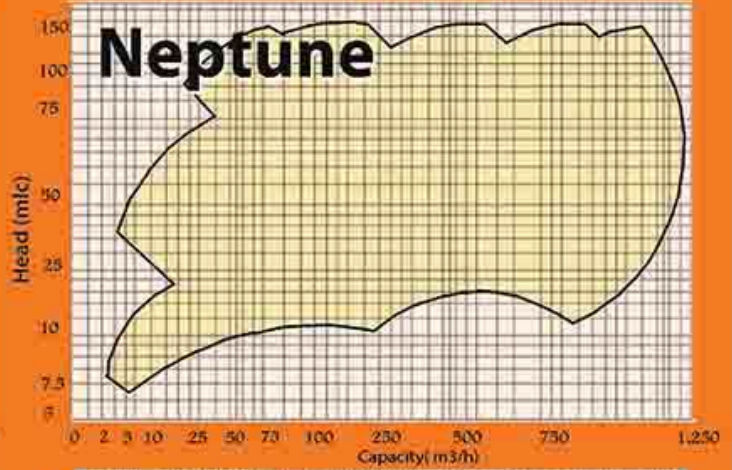
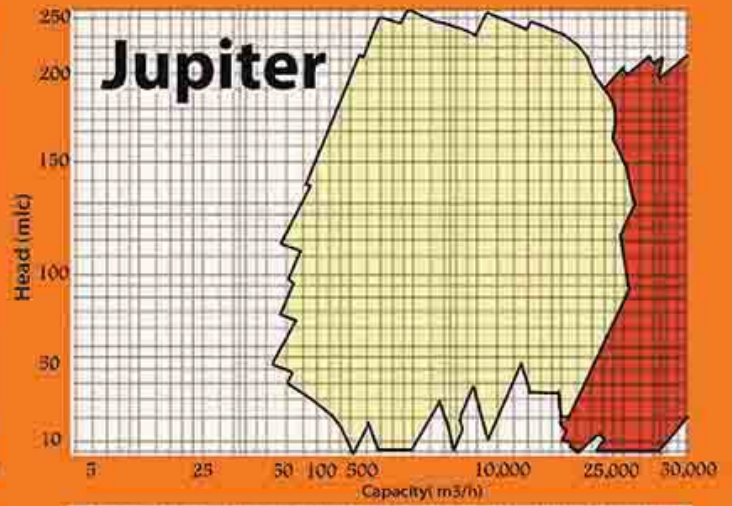
Others: Boiler feed water pump for power plant

### (VS6 & VS1) API 610

VERTICAL MULTISTAGE PUMP

Refinery, Petrochemical, Coal Chemical, Cryogenic Engineering, LNG Industry, Seawater Desalination, Seawater Lifting suitable for pumping liquid mediums which are clean or containing trace particles, especially for pumping liquid mediums which are easily vaporized or low temperature, such as ethylene, liquid ammonia, LNG, condensate, hydrocarbon gas, oil products





■ To Be Designed Pumps

■ Already Designed Pumps

## Venus

Split case pump  
Capacity: 90 - 50.000 m<sup>3</sup>/h  
Head: 5 - 200 mlc  
Liquids pumped:  
Fresh water,  
sea water or  
equivalent



## Jupiter

Vertical turbine  
pump  
capacity:  
50 - 50.000 m<sup>3</sup>/h  
Head: 25 - 225 mlc  
Liquids pumped:  
Fresh water,  
sea water  
or equivalent



## HG2

Horizontal split case two stages centrifugal pump  
Capacity: 100 - 2000 m<sup>3</sup>/h  
Head: 50 - 280 mlc  
Liquids pumped:  
Fresh water,  
sea water or  
equivalent



## Neptune

End suction pump  
Capacity: 2 - 1600 m<sup>3</sup>/h  
Head: 9 - 250 mlc  
Liquids pumped:  
Fresh water, sea water  
or equivalent



## Saturn

Mixed flow pump  
Capacity: 150 - 11.000 m<sup>3</sup>/h  
Head: 8 - 30 mlc  
Liquids pumped:  
Fresh water, sea water or  
equivalent



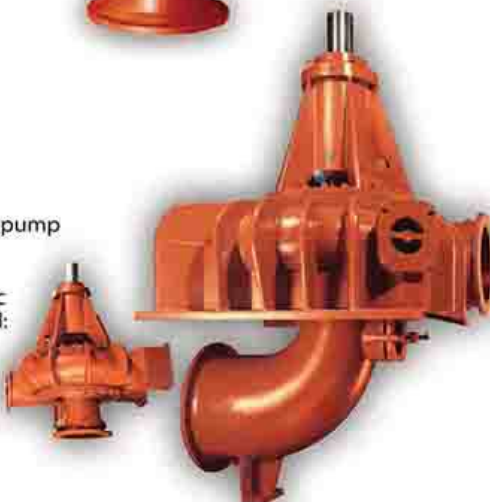
## Propeller

Propeller pump  
(horizontal/vertical)  
Capacity:  
200.000 - 2500 m<sup>3</sup>/h  
Head: 2 - 15 mlc  
Liquids pumped:  
Fresh water,  
sea water  
or equivalent



## Mercury

Solids-handling pump  
Capacity:  
200 - 5500  
Head: 5 - 70 mlc  
Liquids pumped:  
Fresh water,  
sea water  
or equivalent



## Mars

Horizontal screw impeller centrifugal pump  
Capacity: 100 - 2000 m<sup>3</sup>/h  
Head: 2 - 50 mlc  
Liquids pumped:  
Raw sewage,  
sludge and  
viscous liquids





**NEBRAS PUMPS**

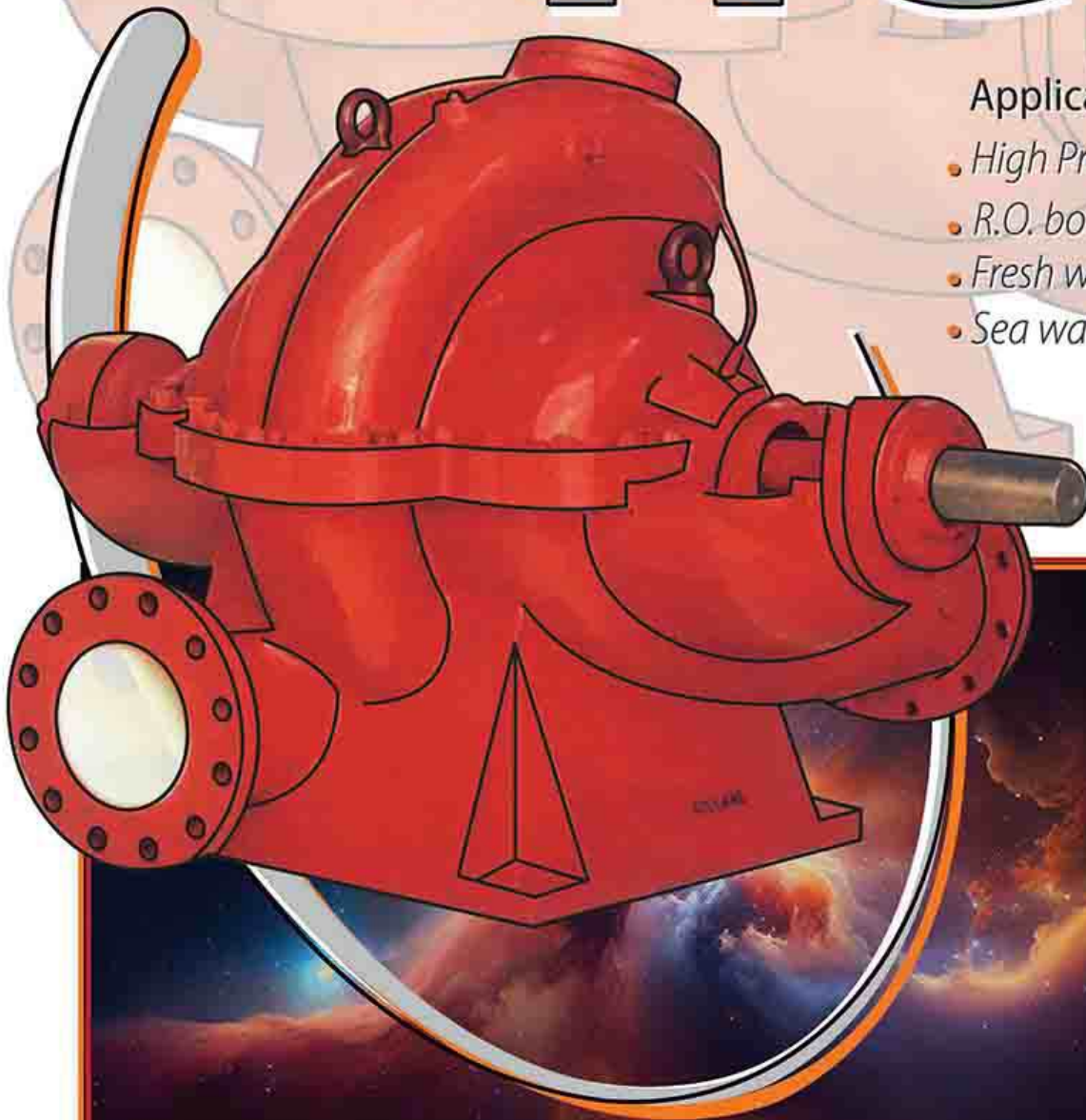
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# HORIZONTAL SPLIT CASE TWO STAGES PUMPS

# HG2

## Applications

- *High Pressure pump*
- *R.O. booster pump*
- *Fresh water*
- *Sea water*

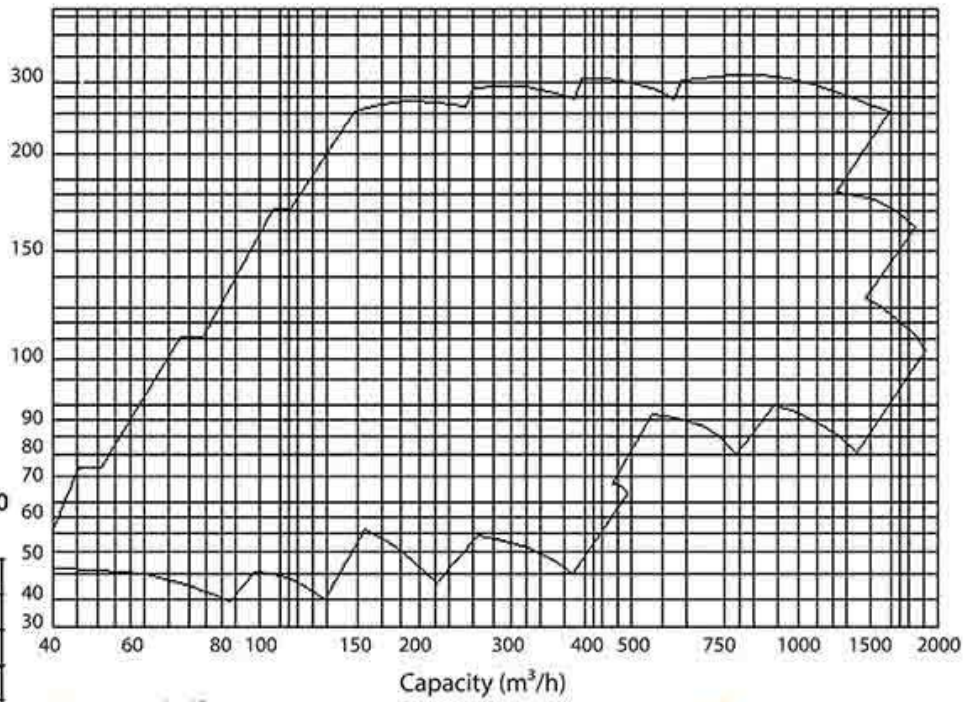


A world of pumping experience

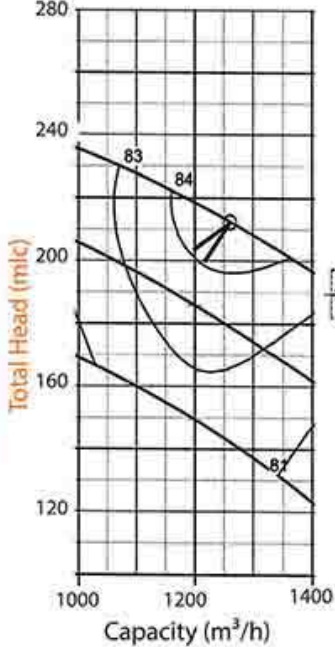
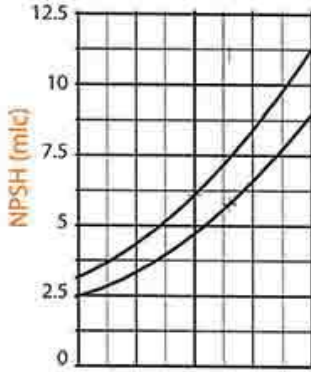
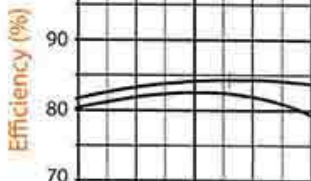
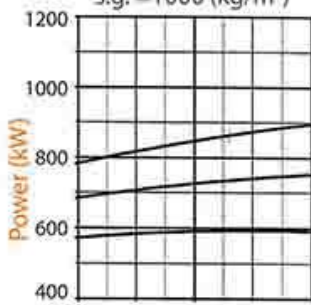


**NEBRAS PUMPS**

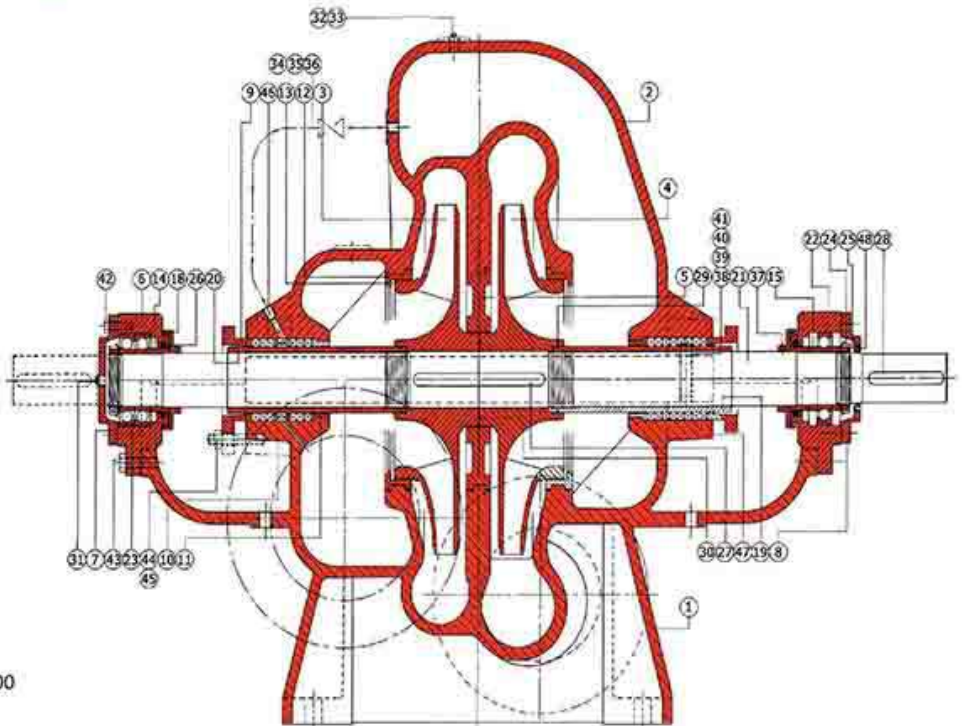
Head (mic)



Pump type: HG2-300.650  
s.g. = 1000 (kg/m<sup>3</sup>)



- |    |                          |    |                        |
|----|--------------------------|----|------------------------|
| 1  | Casing half- Lower       | 24 | Lock washer            |
| 2  | Casing half- Upper       | 25 | Bearing nut            |
| 3  | Impeller- First stage    | 26 | Felt ring              |
| 4  | Impeller- Second stage   | 27 | Impeller key           |
| 5  | Intermediate disc        | 28 | Coupling key           |
| 6  | Bearing housing          | 29 | Joint for shaft sleeve |
| 7  | Bearing cover            | 30 | Joint ring             |
| 8  | Bearing cover            | 31 | Plug                   |
| 9  | Gland                    | 32 | Drain plug             |
| 10 | Lantern ring             | 33 | Vent plug              |
| 11 | Neck Bush                | 34 | Shaft seal pipe        |
| 12 | Casing wear ring         | 35 | Pipe Fitting           |
| 13 | Impeller ring            | 36 | Stop valve             |
| 14 | Shoulder ring            | 37 | Adjusting screw        |
| 15 | Bearing spacer           | 38 | Stud                   |
| 18 | Thrower                  | 39 | Nut                    |
| 19 | Shaft sleeve c.w. Thread | 40 | Hexagon Screw          |
| 20 | Shaft sleeve c.w. Thread | 41 | Dowel                  |
| 21 | Shaft                    | 42 | Hexagon Screw          |
| 22 | Bearing, drive side      |    |                        |
| 23 | Bearing, non drive side  |    |                        |





NEBRAS PUMPS

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AXIAL FLOW PUMP

# Propeller

(HP1, VP1)

Applications

- Fresh water
- Sea water
- or Equivalent

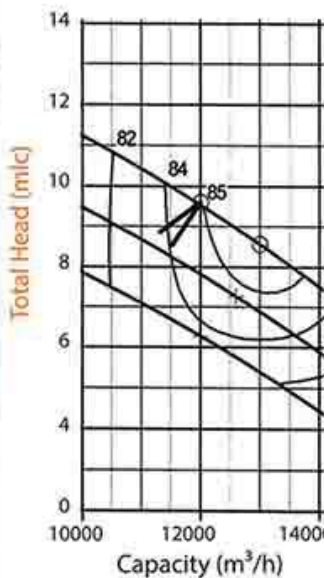
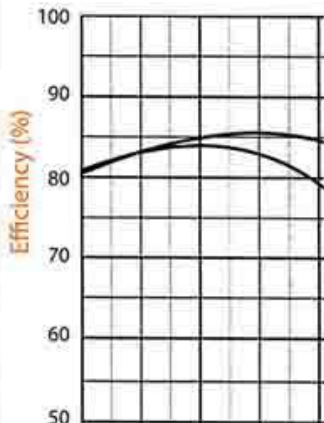
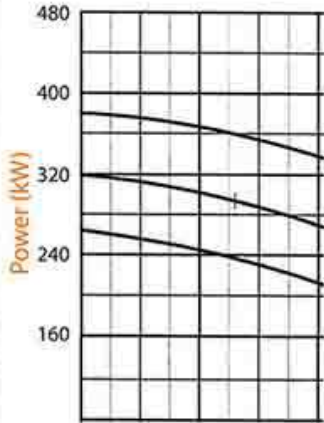
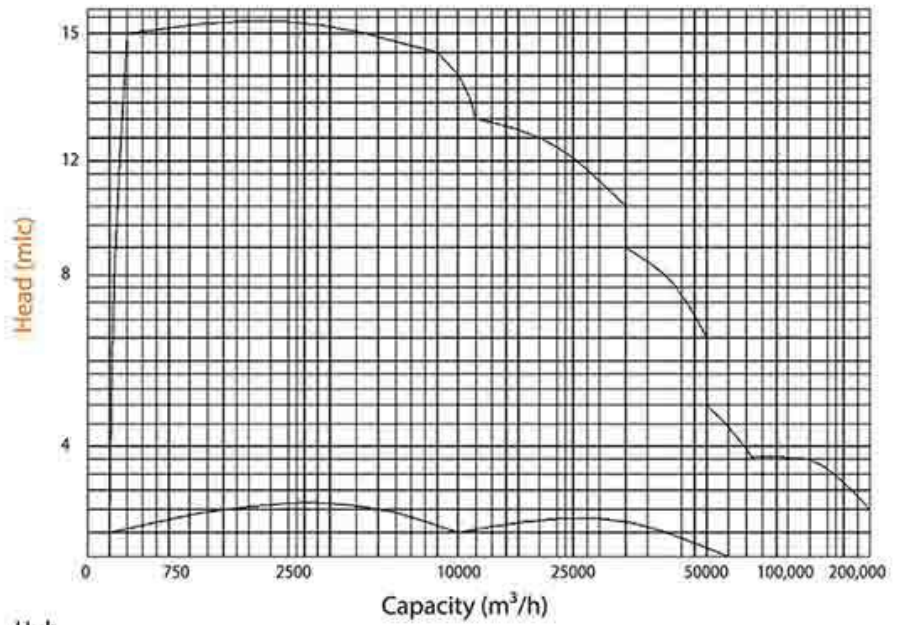


A world of pumping experience

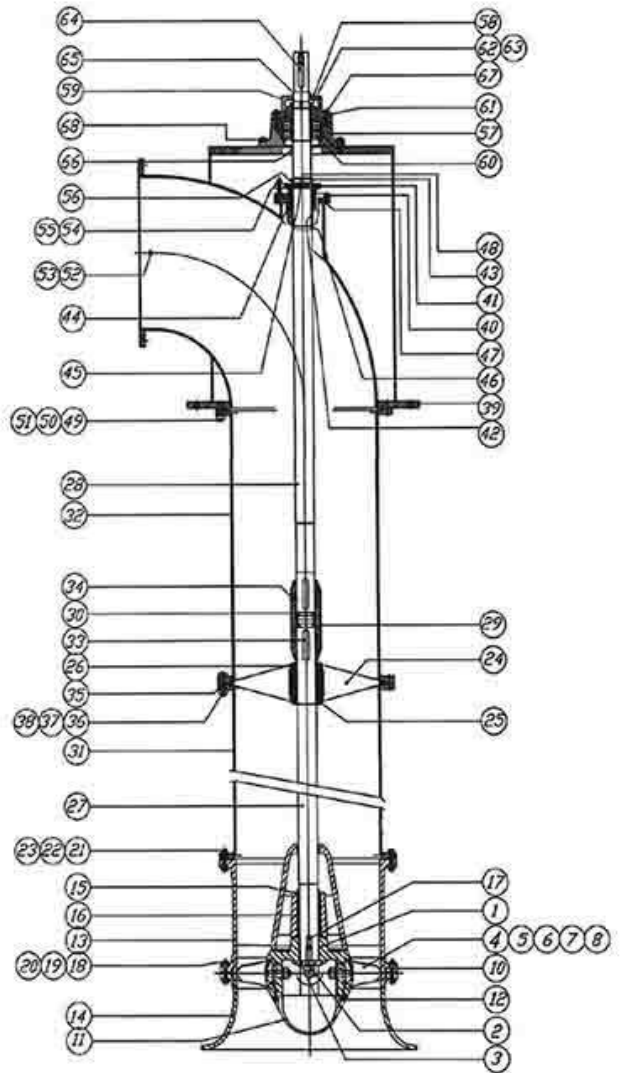


NEBRAS PUMPS

Pump type: VPL  
s.g. = 1000 (kg/m<sup>3</sup>)



- |    |                   |    |                          |    |                   |
|----|-------------------|----|--------------------------|----|-------------------|
| 1  | Hub               | 49 | Stud                     | 61 | Ring              |
| 2  | Hexagon head bolt | 50 | Hexagon nut              | 62 | Lock washer       |
| 3  | Lock washer       | 51 | Plain washer             | 63 | Bearing nut       |
| 4  | Dowel pin         | 52 | Plug                     | 64 | Coupling key      |
| 5  | Propeller blade   | 53 | Lock washer              | 65 | "V"- Ring         |
| 6  | Adjusting ring    | 54 | Stud                     | 66 | "V"- Ring         |
| 7  | Hexagon nut       | 55 | Hexagon nut              | 67 | Hexagon head bolt |
| 8  | Plain washer      | 59 | Hexagon socket set screw | 68 | Hexagon head bolt |
| 10 | Lock pin          | 57 | Bearing housing          |    |                   |
| 11 | Cap               | 58 | Bearing housing          |    |                   |
| 12 | Head screws       | 59 | Ball bearing             |    |                   |
| 13 | Pump casing       | 60 | Angular-contact bearing  |    |                   |
| 14 | Suction cover     |    |                          |    |                   |
| 15 | Shaft sleeve      |    |                          |    |                   |
| 16 | Bearing bush      |    |                          |    |                   |
| 17 | Impeller key      |    |                          |    |                   |
| 18 | Hexagon head bolt |    |                          |    |                   |
| 19 | Hexagon nut       |    |                          |    |                   |
| 20 | Plain washer      |    |                          |    |                   |
| 21 | Hexagon head bolt |    |                          |    |                   |
| 22 | Hexagon nut       |    |                          |    |                   |
| 23 | Plain washer      |    |                          |    |                   |
| 24 | Bearing spider    |    |                          |    |                   |
| 25 | Shaft sleeve      |    |                          |    |                   |
| 26 | Bearing bush      |    |                          |    |                   |
| 27 | Pump shaft        |    |                          |    |                   |
| 28 | Top shaft         |    |                          |    |                   |
| 29 | Shaft coupling    |    |                          |    |                   |
| 30 | Ring              |    |                          |    |                   |
| 31 | Column pipe       |    |                          |    |                   |
| 32 | Column pipe       |    |                          |    |                   |
| 33 | Taper key         |    |                          |    |                   |
| 34 | Taper key         |    |                          |    |                   |
| 35 | "O"- Ring         |    |                          |    |                   |
| 36 | Hexagon head bolt |    |                          |    |                   |
| 37 | Hexagon nut       |    |                          |    |                   |
| 38 | Plain washer      |    |                          |    |                   |
| 39 | Discharge head    |    |                          |    |                   |
| 40 | Stuffing box      |    |                          |    |                   |
| 41 | Gland             |    |                          |    |                   |
| 42 | Shaft sleeve      |    |                          |    |                   |
| 43 | Ring              |    |                          |    |                   |
| 44 | Gland package     |    |                          |    |                   |
| 45 | Hexagon head bolt |    |                          |    |                   |
| 46 | "O"- Ring         |    |                          |    |                   |
| 47 | "O"- Ring         |    |                          |    |                   |
| 48 | Taper key         |    |                          |    |                   |





NEBRAS PUMPS

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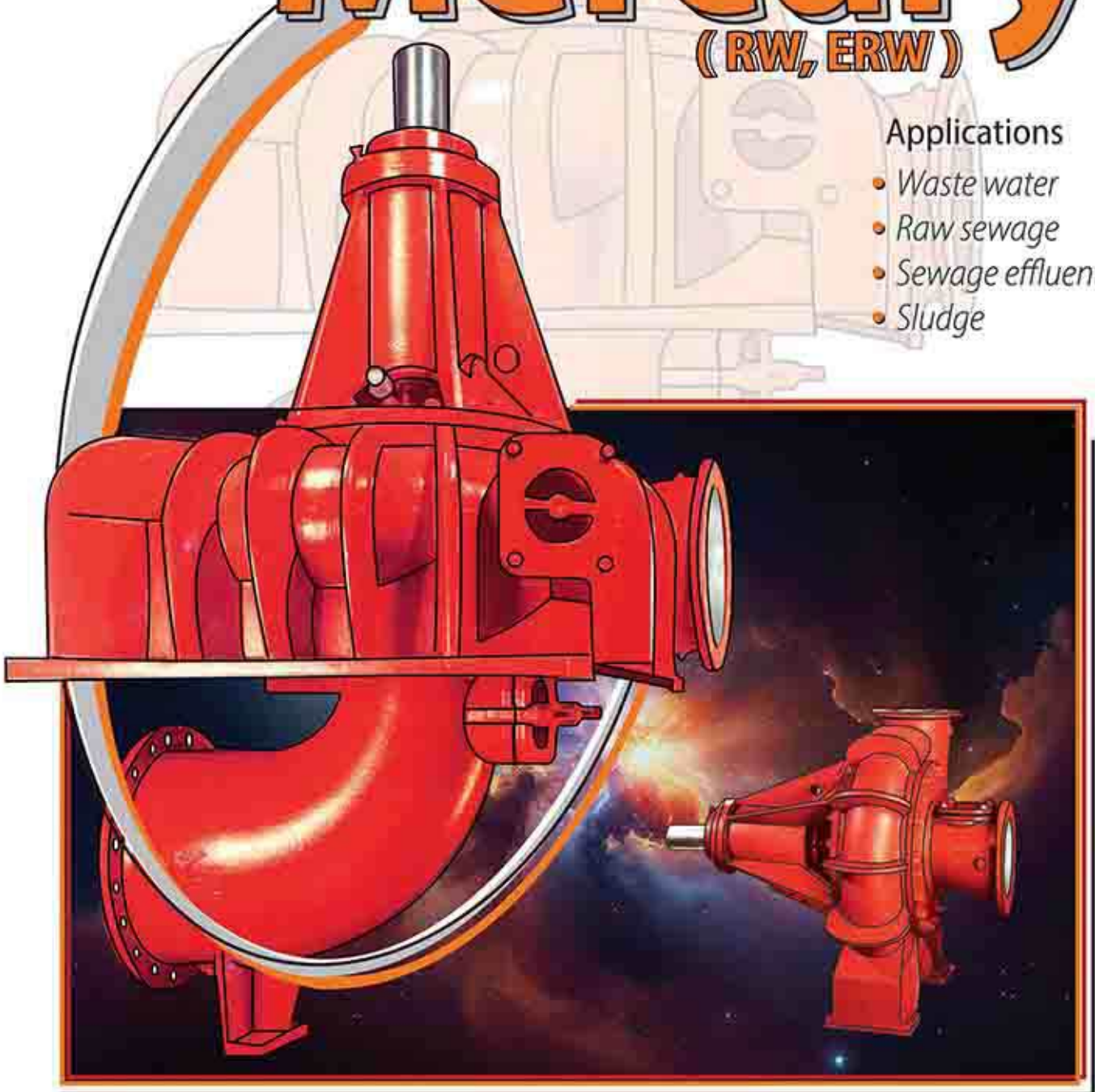
SOLIDS HANDLING PUMPS

# Mercury

(RW, ERW)

Applications

- Waste water
- Raw sewage
- Sewage effluent
- Sludge

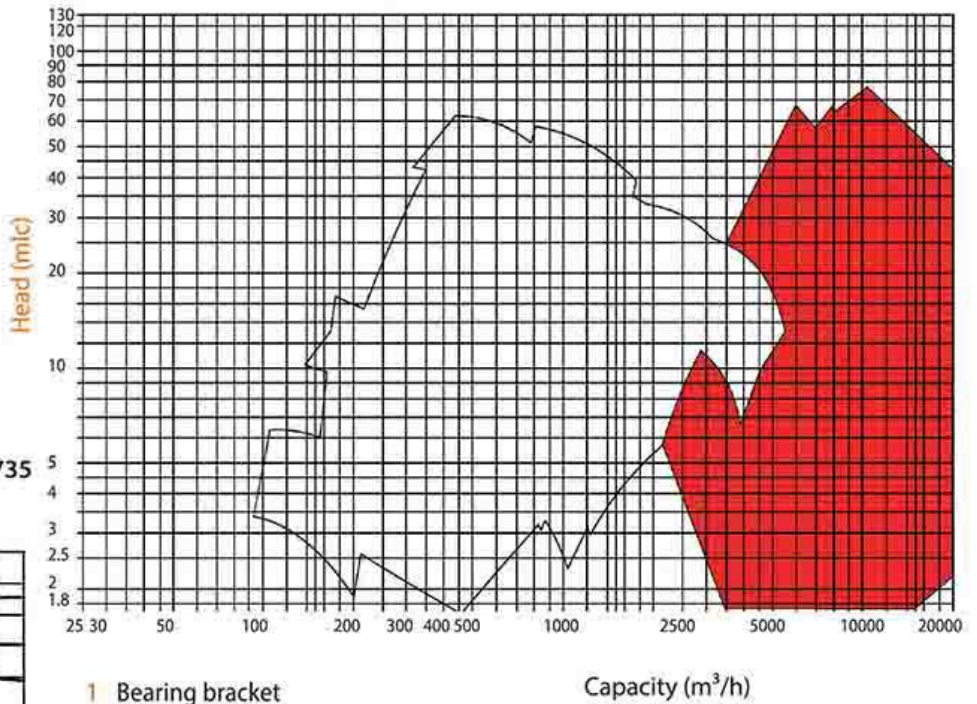
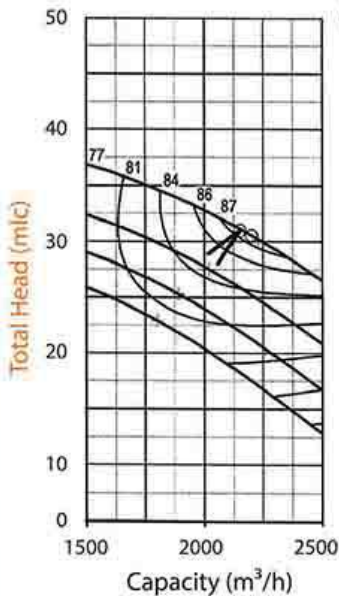
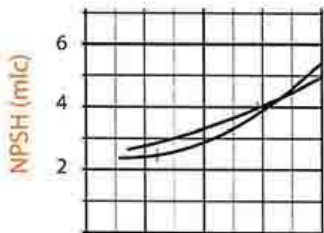
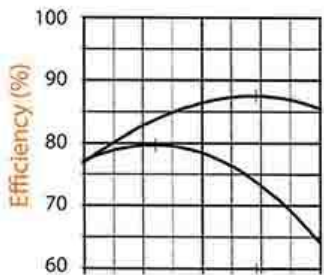
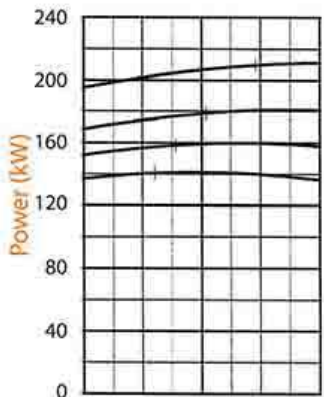


A world of pumping experience

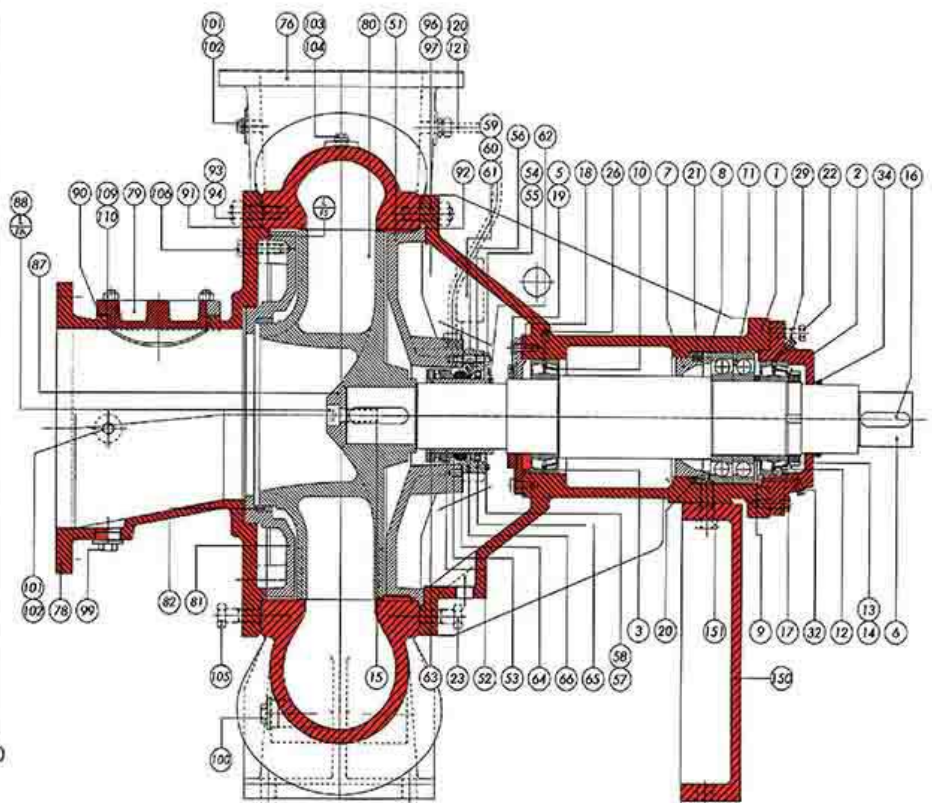


**NEBRAS PUMPS**

Pump type: RWV1-400.735  
s.g. = 1000 (kg/m<sup>3</sup>)



- 1 Bearing bracket
- 2,3 Bearing cover
- 5 Thrower
- 6 Pump shaft
- 7 Spring housing
- 8 Ring for spring housing
- 9 Distance ring
- 10,12 Barrel bearing
- 11 Angular-contact ball bearing
- 13 Lock washer
- 14 Bearing nut
- 26,29,32 Grease nipple
- 34 "V"- Ring
- 51,56 Carrier for mechanical seal
- 52 Shaft sleeve
- 53 Seal
- 54,93,96,107,109 Stud
- 55,94,97,108,110 Hexagon nut
- 58 Mounting strip
- 59 Constant level oiler
- 60 Elbow
- 61 Nipple
- 82 Wear ring
- 87 Impeller hub cap
- 76 Pump casing
- 77,79 Inspection Cover
- 78 Suction cover
- 89,90 Gland packing
- 99,100 Plug square head
- 101,103 Hexagon head screw plug





NEBRAS PUMPS

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VERTICAL TURBINE PUMPS

# Jupiter

(VDL, VDF)

## Applications

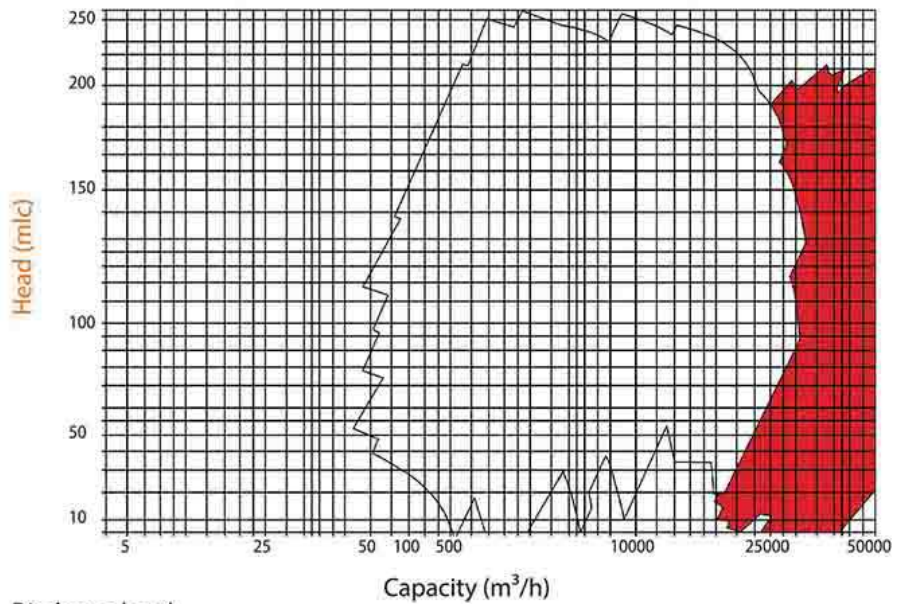
- *Cooling water*
- *Fire fighting*
- *Sea water Intake*
- *Drinking water supply*
- *Desalination*
- *Ballast and bilge pumps*
- *Irrigation and drainage*



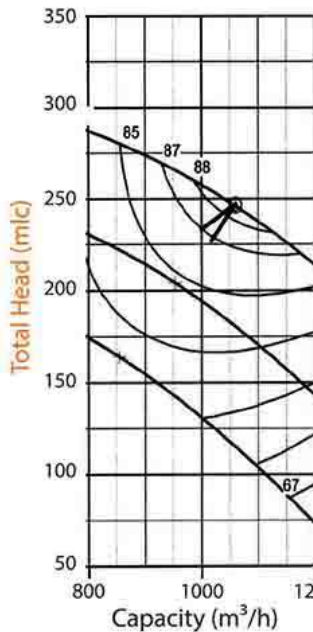
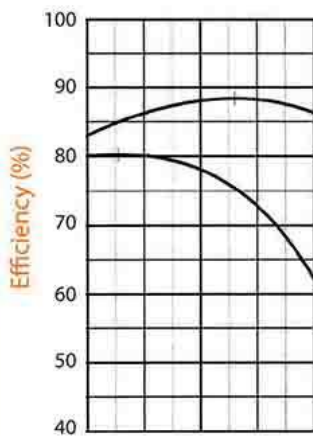
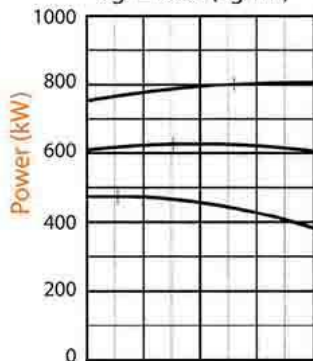
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NEBRAS PUMPS

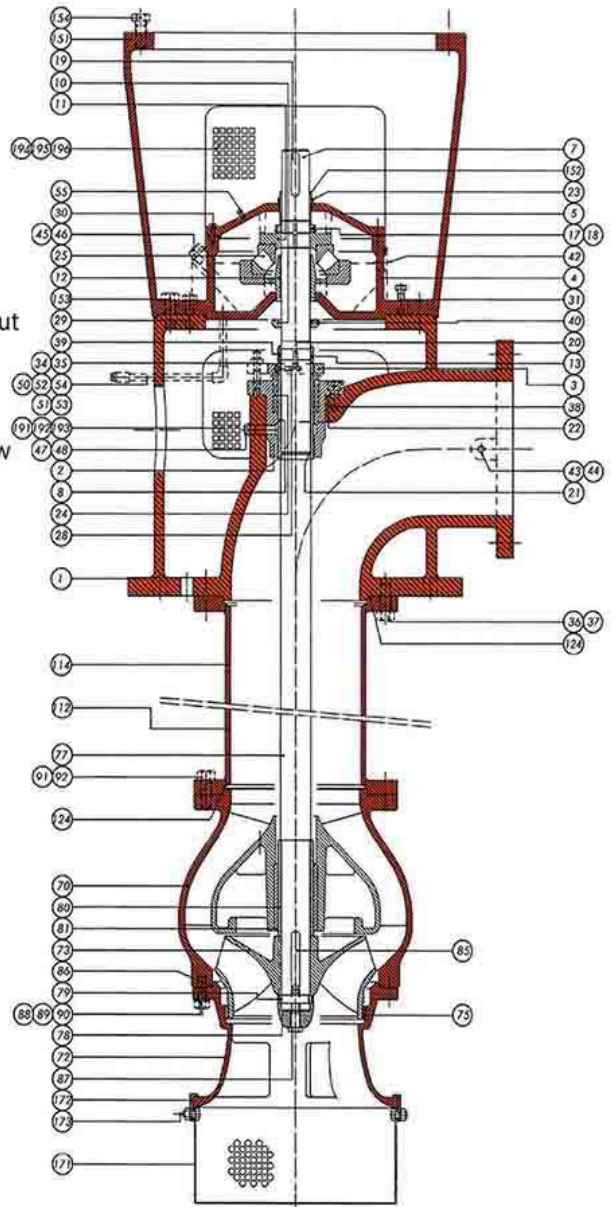


Pump type: VDL5-30.45  
s.g. = 1000 (kg/m<sup>3</sup>)



- 1 Discharge head
- 2 Stuffing box housing
- 3 Gland
- 4 Thrust bearing housing
- 5 Bearing cover
- 7 Top shaft
- 8,80 Shaft sleeve
- 10 Thrower
- 11 Retaining ring for bearing
- 12 Throttling sleeve for oil
- 13,18 Lock ring
- 17 Bearing nut
- 19,20,85, 122,123 Key
- 21,22,86,122 "O"- Ring
- 23 "V"- Ring
- 24 Gland packing
- 25 Thrust roller bearing
- 28,29,30,31,87 Hexagon bolt
- 34 Gland stud
- 35,37,89,91, 126,173 Hexagon nut
- 36,88,91 Stud
- 38 Hexagon socket head cap screw
- 39,40 Hexagon socket set screw
- 42 Oil level sight glass
- 43,45,47 Plug
- 44,46,48,54 Plain washer
- 50,52 Nipple
- 51 Elbow
- 53 Socket
- 55 Vent nipple
- 70 Pump casing
- 72 Suction cover
- 73 Impeller
- 75 Casing wear ring
- 77 Pump shaft
- 78 Cap
- 79,121 Ring 2/2
- 81 Bearing bush
- 90,193,196 Lock washer
- 111 Bearing spider
- 112 Column pipe ( lower)
- 113 Column pipe ( central)
- 114 Column pipe ( upper)
- 116 Intermediate shaft
- 118 Bearing bush
- 119 Bearing sleeve

- 120 Shaft coupling
- 125,153,154 Hexagon bolt
- 151 Motor bracket
- 152 Spacing bush
- 171 Suction strainer
- 172 Clamping plate
- 191,194 Protection hood





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# SPLIT CASE PUMP

# Venus

(HGT1-HG1-HG2)

## Application

- Fire fighting
- Water supply
- Cooling water
- Air conditioning
- Shipbuilding
- Irrigation
- Drainage

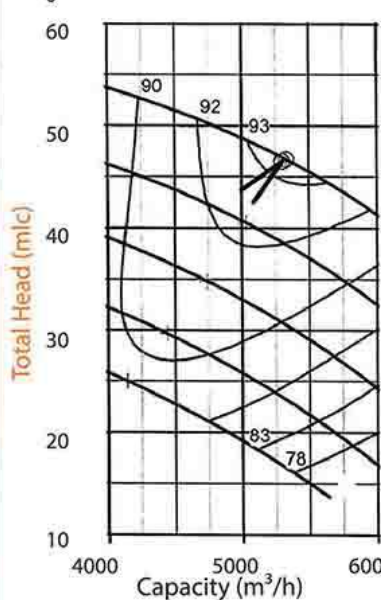
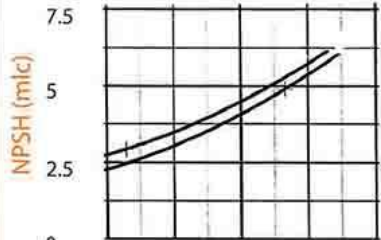
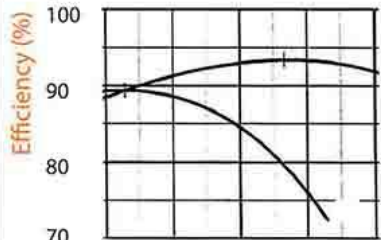
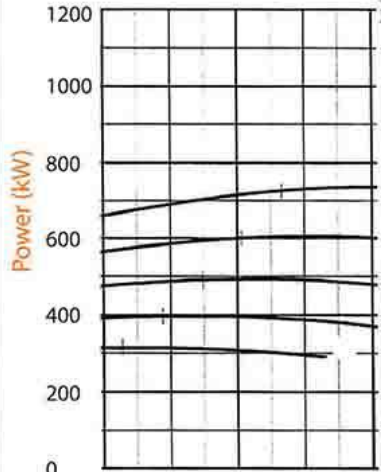
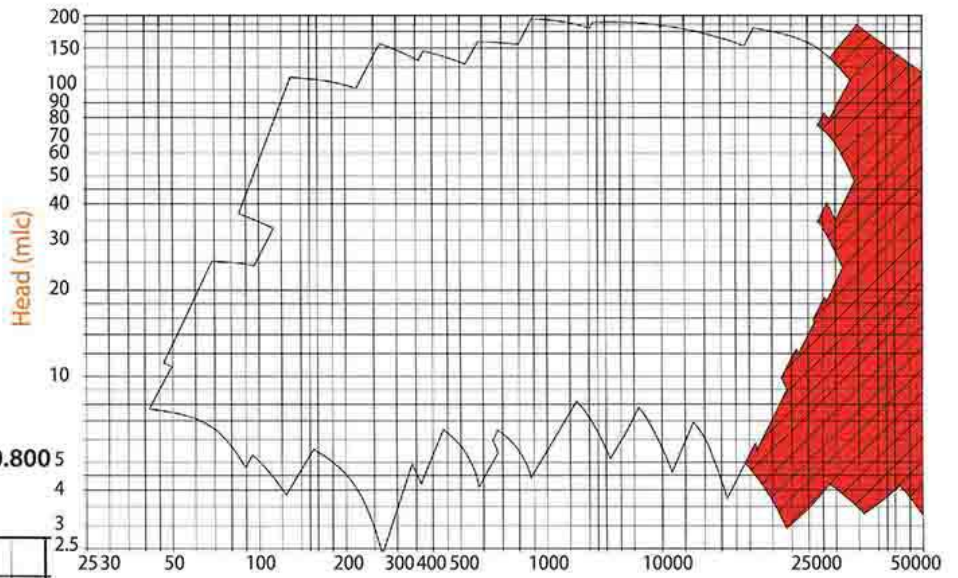


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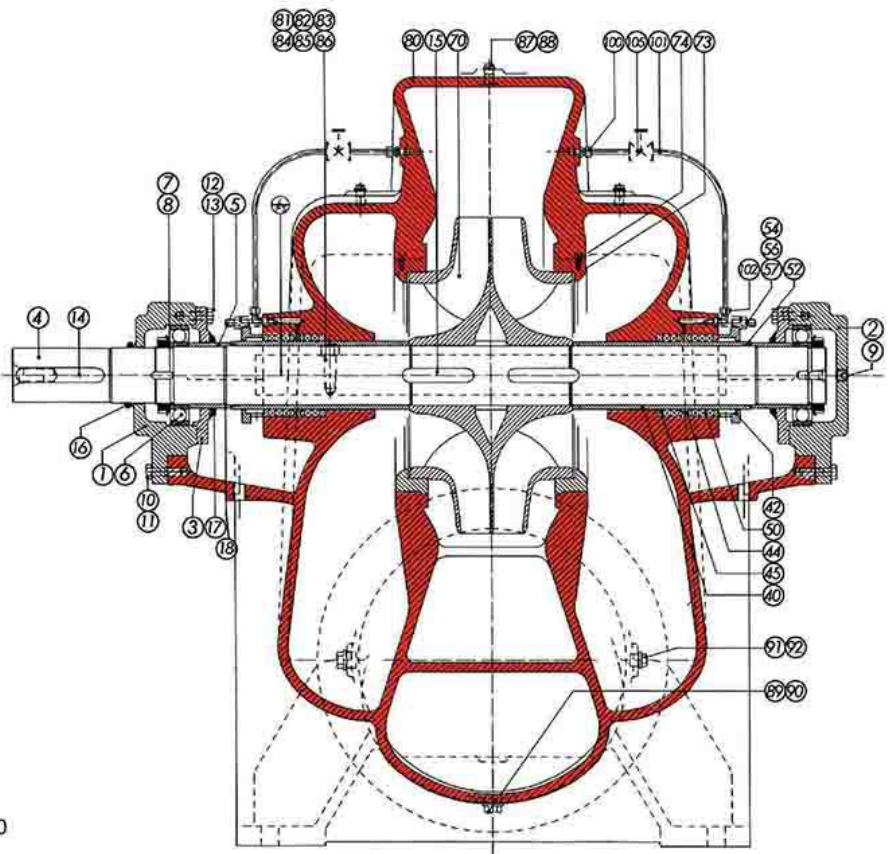


**NEBRAS PUMPS**

**Pump type: VENUS1-700.800**  
s.g. = 1000 (kg/m<sup>3</sup>)



- 1 Bearing housing
- 2 Bearing housing
- 3 Bearing cover
- 4 Shaft
- 5 Spacer sleeve
- 6 Bearing
- 7 Bearing nut
- 8 Lock washer
- 9,87,89,91 Plug
- 10 Bolt
- 11,13,57,83,88,90,92 Washer
- 12 Bolt
- 14 Key
- 15 Impeller key
- 16 "V"- Ring
- 17 "Gamma"- Ring
- 18 "O"- Ring
- 40 Shaft sleeve
- 42 Gland
- 44 Lantern ring
- 45 Neck ring
- 50 Packing
- 52 "O"- Ring
- 54,81 Stud
- 56,82,86 Nut
- 70 Impeller
- 73 Wear ring
- 74 Lock bolt
- 80 Pump casing (2parts)
- 84 Forcing screw
- 85 Dowel pin
- 100,102 Screwed coupling
- 101 Pipe
- 105 Needle Valve





NEBRAS PUMPS

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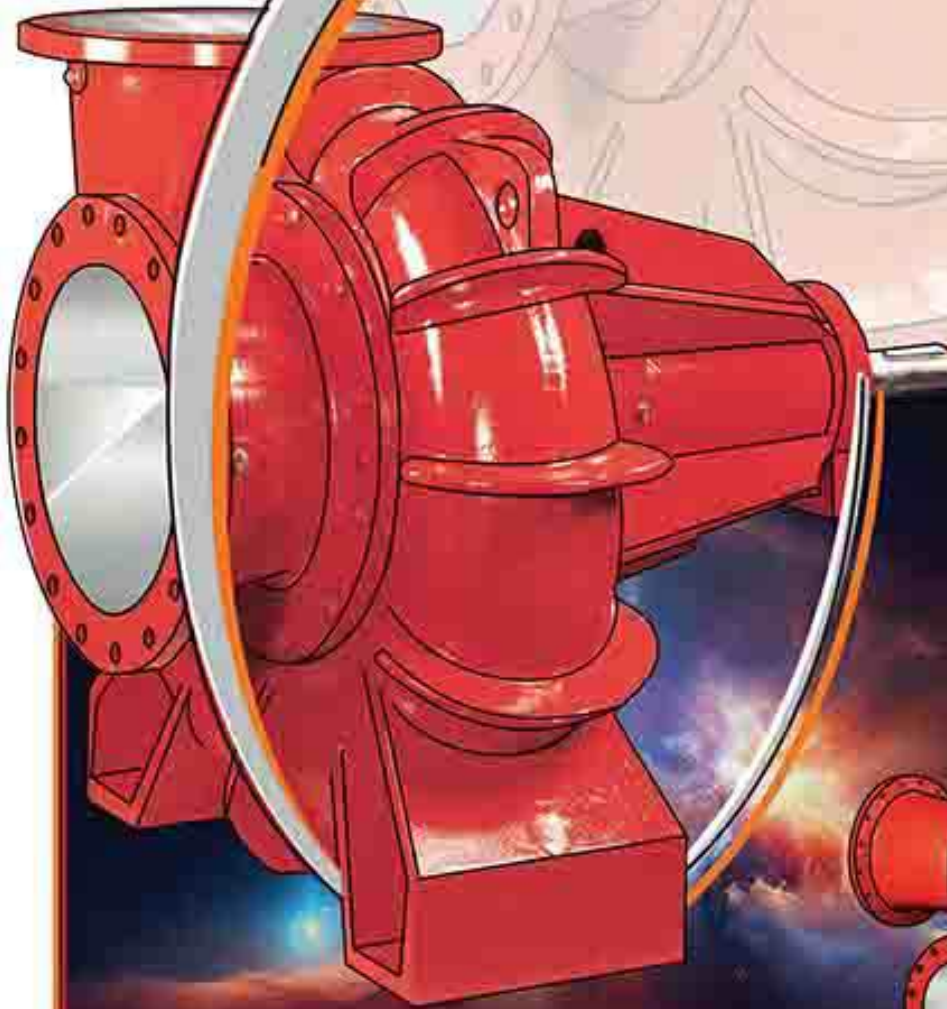
MIXED FLOW PUMPS

# Saturn

(HMF, VMF)

Applications

- Drinking water
- Sewage water
- Cooling water
- Effluent
- Irrigation
- Drainage



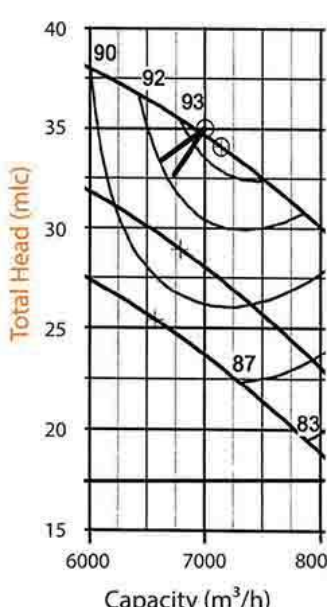
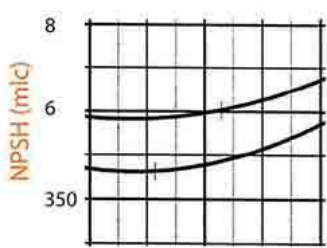
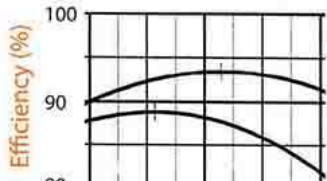
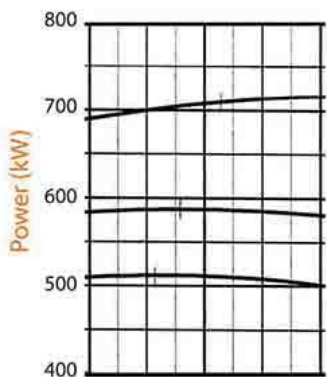
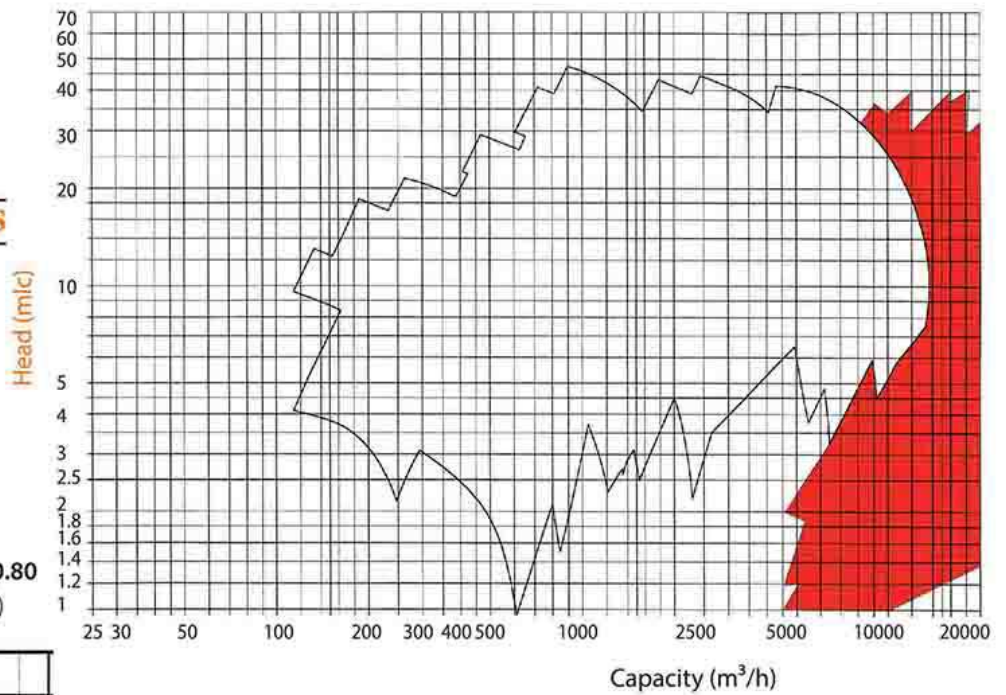
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**NEBRAS PUMPS**

**Pump type: HMF1-70.80**

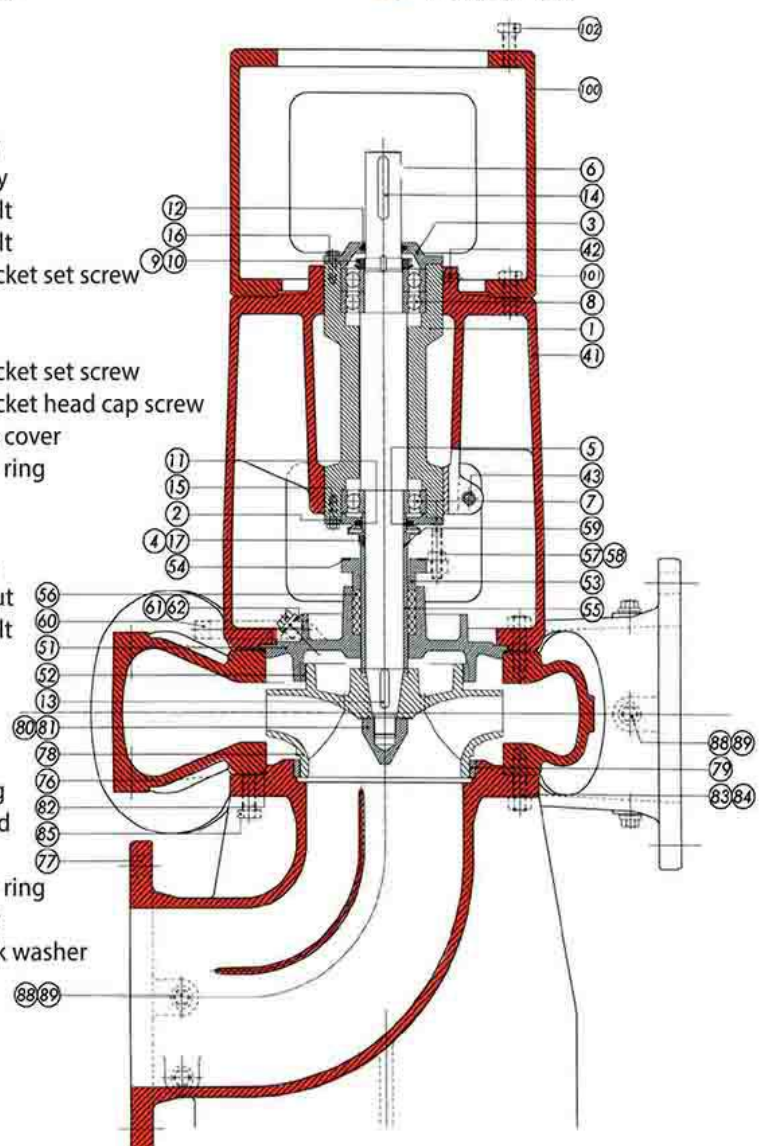
s.g. = 1000 (kg/m<sup>3</sup>)



- 1 Bearing housing
- 2 Bearing cover
- 3 Bearing cover
- 4 Thrower
- 5 Ring
- 6 Pump shaft
- 7 Roller bearing
- 8 Roller bearing
- 9 Lock ring
- 10 Bearing nut
- 11 Felt ring
- 12 Felt ring
- 13 Impeller key
- 14 Coupling key
- 15 Hexagon bolt
- 16 Hexagon bolt
- 17 Hexagon socket set screw

- 84 Hexagon nut
- 85 Hexagon bolt
- 88 Plug
- 89 Plug
- 100 Motor bracket
- 101 Hexagon bolt
- 102 Hexagon bolt

- 41 Pedestal
- 42 Hexagon socket set screw
- 43 Hexagon socket head cap screw
- 51 Stuffing box cover
- 52 Casing wear ring
- 54 Gland
- 55 Gland plate
- 56 Shaft sleeve
- 57 Adjusting nut
- 58 Hexagon bolt
- 59 "O"- Ring
- 60 Nipple
- 61 Plug
- 62 Plug
- 76 Pump casing
- 77 Suction bend
- 78 Impeller
- 79 Casing wear ring
- 80 Impeller nut
- 81 Impeller lock washer
- 82 "O"- Ring
- 83 Stud





NEBRAS PUMPS

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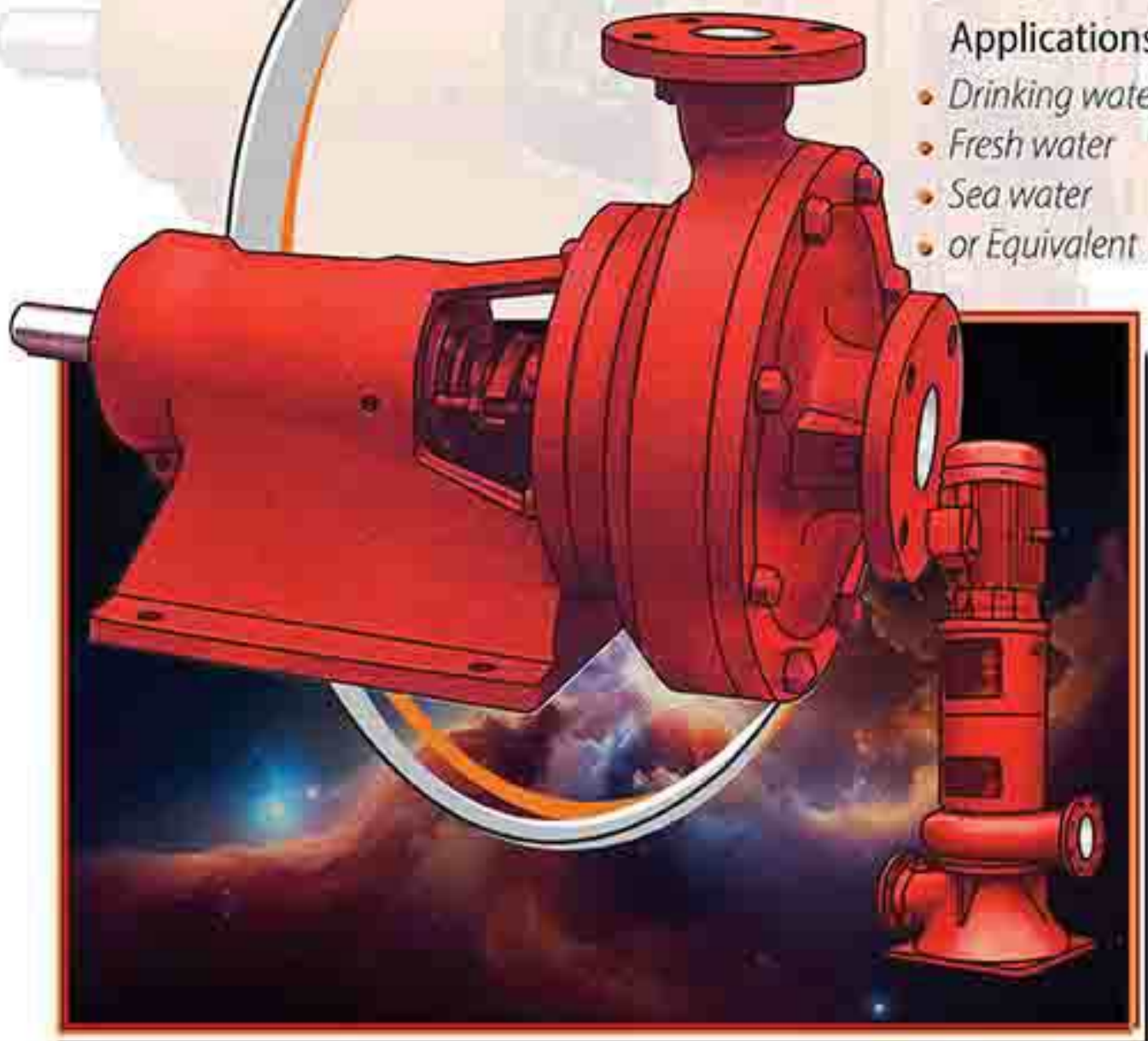
END SUCTION PUMPS

# Neptune

(NC1, NC2)

Applications

- Drinking water
- Fresh water
- Sea water
- or Equivalent

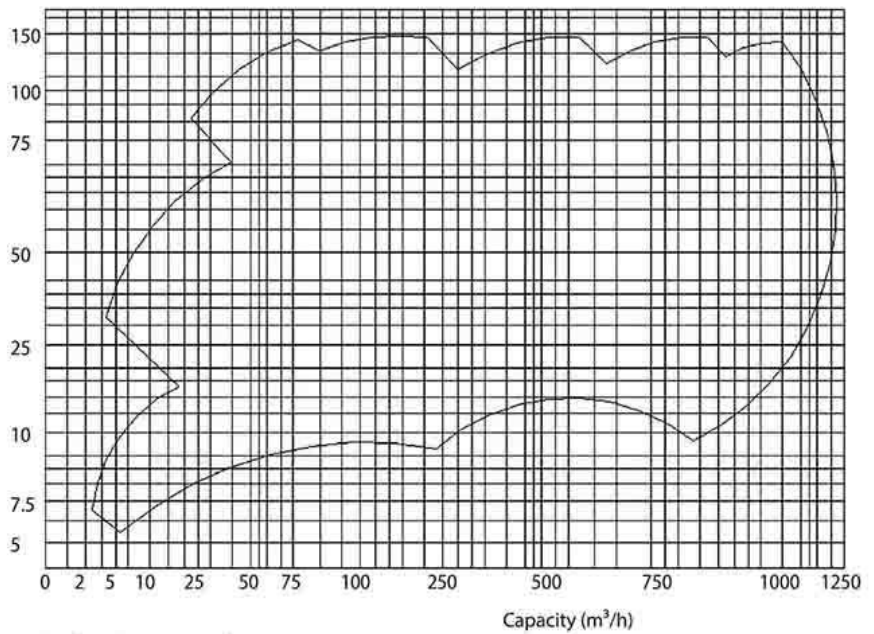
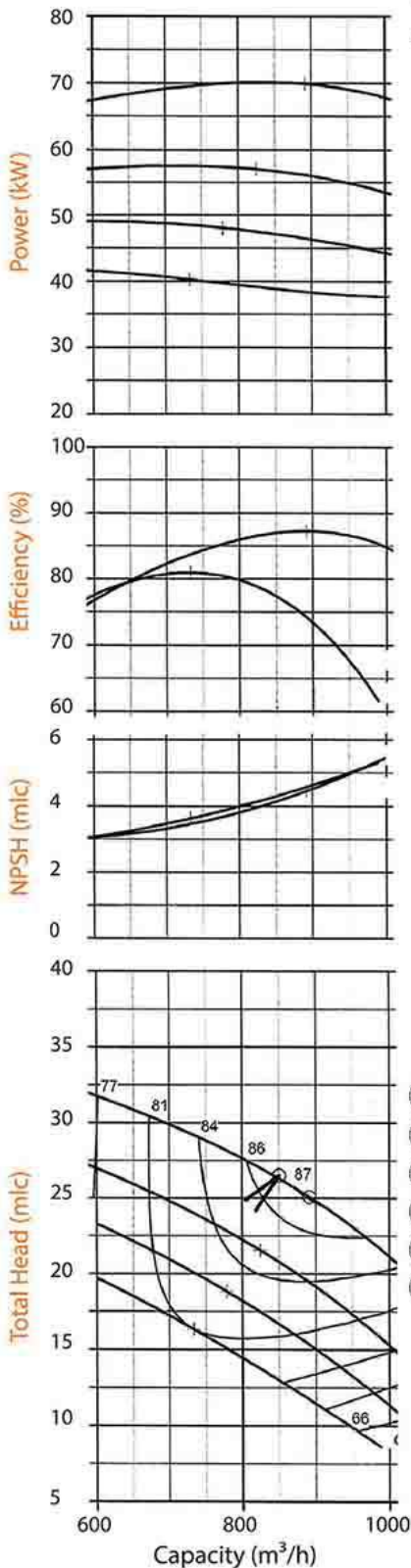


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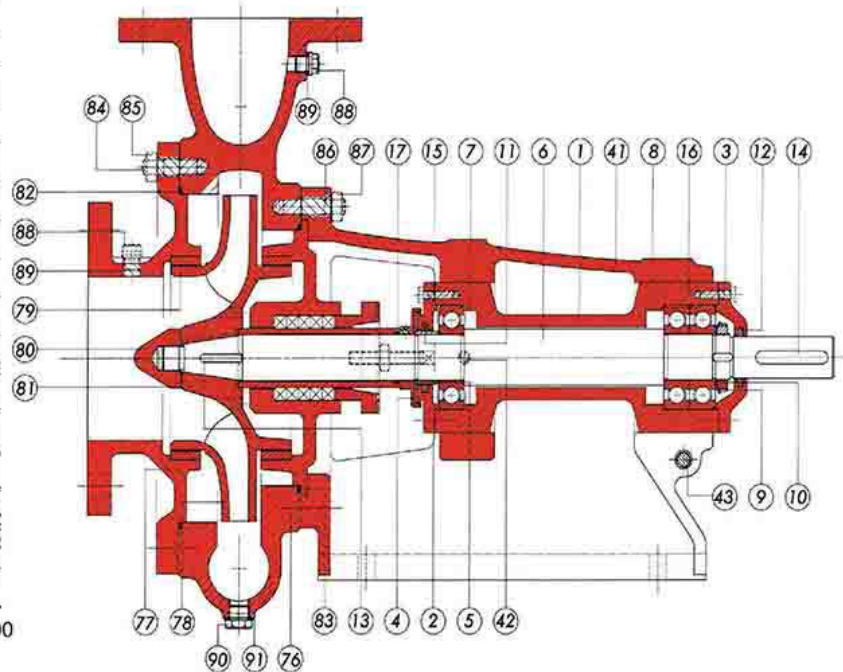


**NEBRAS PUMPS**

**Pump type: NC1-250.340**  
s.g. = 1000 (kg/m<sup>3</sup>)



- 1 Bearing cartridge
- 2 Bearing cover p.s.
- 3 Bearing cover p.s.
- 4 Thrower
- 5 Spacer sleeve for bearing
- 6 Shaft
- 7 Radial ball bearing
- 8 Radial ball bearing
- 9 Lock washer
- 10 Bearing nut
- 11 Felt ring in bearing cover p.s.
- 12 Felt ring in bearing cover p.s.
- 13 Key for impeller
- 14 Key for impeller
- 15 Hexagon bolt
- 16 Hexagon bolt
- 17 Hexagon socket set screw
- 41 Pump bracket
- 42 Hexagon socket set screw
- 43 Hexagon head cap screw
- 76 Pump casing
- 77 Suction cover
- 78 Impeller
- 79 Casing wear ring, suction side
- 80 Impeller nut
- 81 Lock washer for impeller nut
- 82 Joint for suction cover
- 83 Joint for casing cover
- 84 Stud
- 85 Hexagon nut
- 86 Stud
- 87 Hexagon nut
- 88 Plug
- 89 Lock washer
- 90 Drain plug
- 91 Lock washer





## ارتباط با ما

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