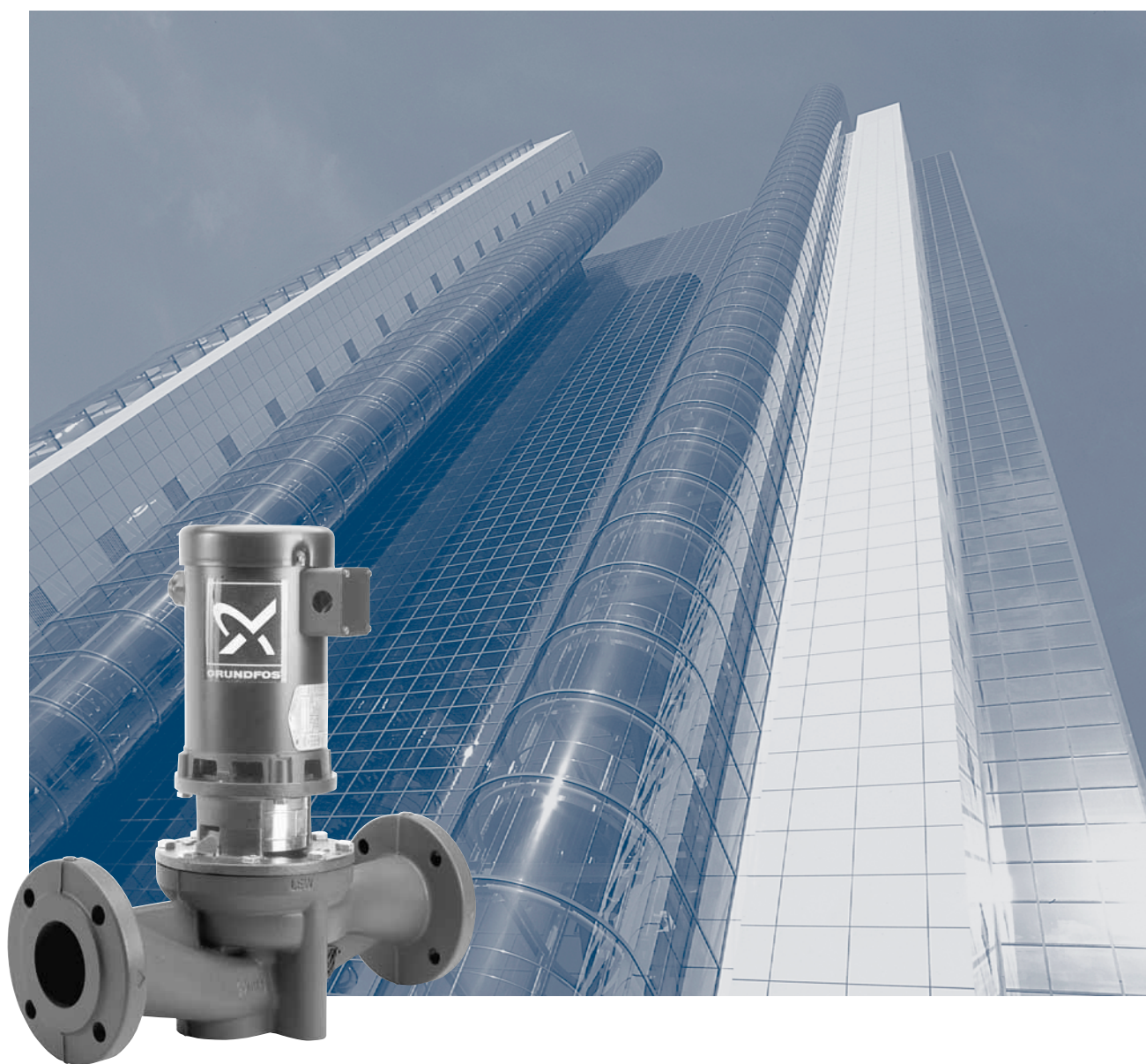


VersaFlo®

TP circulator pumps
60 Hz



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- to successfully develop, produce, and sell high quality pumps and pumping systems worldwide, contributing to a better quality of life and healthier environment.



Bjerringbro, Denmark



Fresno, California



Olathe, Kansas



Monterrey, Mexico



Allentown, Pennsylvania



Oakville, Ontario

- One of the 3 largest pump companies in the world
- The second largest manufacturer of submersible motors in the world
- World headquarters in Denmark
- North American headquarters in Kansas City - Manufacturing in Fresno, California
- 73 companies in 41 countries
- More than 10 million motors and pumps produced annually worldwide
- North American companies operating in USA, Canada and Mexico
- Continuous reinvestment in growth and development enables the company to **BE** responsible, **THINK** ahead, and **INNOVATE**.

Cross reference guide: B&G, Taco and Armstrong to Grundfos

| B&G Series 60&80 | HP | Port to Port Length | Flange Size | Taco Series 1600 | HP | Port to Port Length | Flange Size | Armstrong | HP | Port to Port Length | Flange Size | Grundfos Model TP | HP | Port to Port Length | Flange Size |
|------------------|-------|---------------------|-------------|------------------|-------|---------------------|-------------|-----------|-------|---------------------|-------------|-------------------|-------|---------------------|-------------|
| | | | | | | | | H-32 | 1/6 | 8-1/2" | 1-1/4" | 32-40 | 1/3 | 11" | 1-1/4" |
| 6011 | 1/4 | 11" | 1-1/4" | 1600 | 1/4 | 10-1/4" | 1-1/2" | H-52 | 1/3 | 11-1/2" | 1-1/4" | 32-80 | 1/2 | 11" | 1-1/4" |
| 6016 | 3/4 | 13-1/2" | 1-1/2" | 1614 | 3/4 | 13-1/2" | 1-1/2" | H-64 | 3/4 | 13-1/2" | 1-1/2" | 32-160 | 3/4 | 13-1/2" | 1-1/2" |
| | | | | | | | | H-52 | 1/3 | 11-1/2" | 1/4" | 40-40 | 1/3 | 13-1/2" | 1-1/2" |
| | | | | | | | | H-53 | 1/2 | 11-1/2" | 1-1/2" | | 1/2 | 13-1/2" | 1-1/2" |
| 6013 | 1/2 | 11-1/2" | 1-1/2" | 1612 | 1/2 | 13-1/2" | 1-1/2" | H-53 | 1/2 | 11-1/2" | 1-1/2" | 40-80 | 3/4 | 13-1/2" | 1-1/2" |
| 6015 | 1/2 | 13-1/2" | 1-1/2" | 1612 | 1/2 | 13-1/2" | 1-1/2" | H-63 | 1/2 | 13-1/2" | 1-1/2" | 40-80 | 3/4 | 13-1/2" | 1-1/2" |
| | | | | | | | | H-67 | 1 | 14" | 2" | 40-160 | 3/4 | 11-1/2" | 1-1/2" |
| 6017 | 1 | 13-1/2" | 1-1/2" | 1616 | 1-1/2 | 14-1/2" | 2" | H-65 | 1 | 13-1/2" | 1-1/2" | 40-240 | 1-1/2 | 13-1/2" | 1-1/2" |
| | | | | | | | | H-53 | 1/2 | 11-1/2" | 1-1/2" | 50-40 | 1/3 | 14" | 2" |
| | | | | | | | | H-54 | 3/4 | 11-1/2" | 2" | | 3/4 | 11-1/2" | 2" |
| 6014 | 3/4 | 11-1/2" | 2" | 1632 | 3/4 | 13-1/2" | 2" | H-54 | 3/4 | 11-1/2" | 2" | 50-80 | 3/4 | 11-1/2" | 2" |
| 6019 | 1 | 14" | 2" | 1634 | 1 | 13-1/2" | 2" | H-67 | 1 | 14" | 2" | 50-160 | 1-1/2 | 14" | 2" |
| 6020 | 1-1/2 | 14" | 2" | 1634 | 1 | 13-1/2" | 2" | H-68 | 1-1/2 | 14" | 2" | 50-160 | 1-1/2 | 14" | 2" |
| 6021 | 2 | 14" | 2" | | | | | 10603D | 3 | 18" | 3" | 50-240 | 2 | 14" | 2" |
| | | | | | | | | 105028 | 1/2 | 11-1/2" | 2" | 80-40 | 1/2 | 19" | 3"ANSI |
| 801 | 1-1/2 | 19" | 3"ANSI | | | | | 10603D | 1-1/2 | 18" | 3" | 80-80 | 1-1/2 | 19" | 3"ANSI |
| 802 | 3 | 19" | 3"ANSI | | | | | 10603D | 3 | 18" | 3" | 80-160 | 3 | 19" | 3"ANSI |
| 803 | 3 | 19" | 3"ANSI | | | | | 10603D | 3 | 18" | 3" | 80-240 | 3 | 19" | 3"ANSI |
| | | | | | | | | 10603D | 1 | 18" | 3" | 100-40 | 1 | 21" | 4"ANSI |
| 806 | 2 | 21" | 4"ANSI | | | | | 10603D | 2 | 18" | 3" | 100-80 | 2 | 21" | 4"ANSI |
| 807 | 3 | 21" | 4"ANSI | | | | | 10603D | 3 | 18" | 3" | 100-160 | 3 | 21" | 4"ANSI |

Performance range, TP

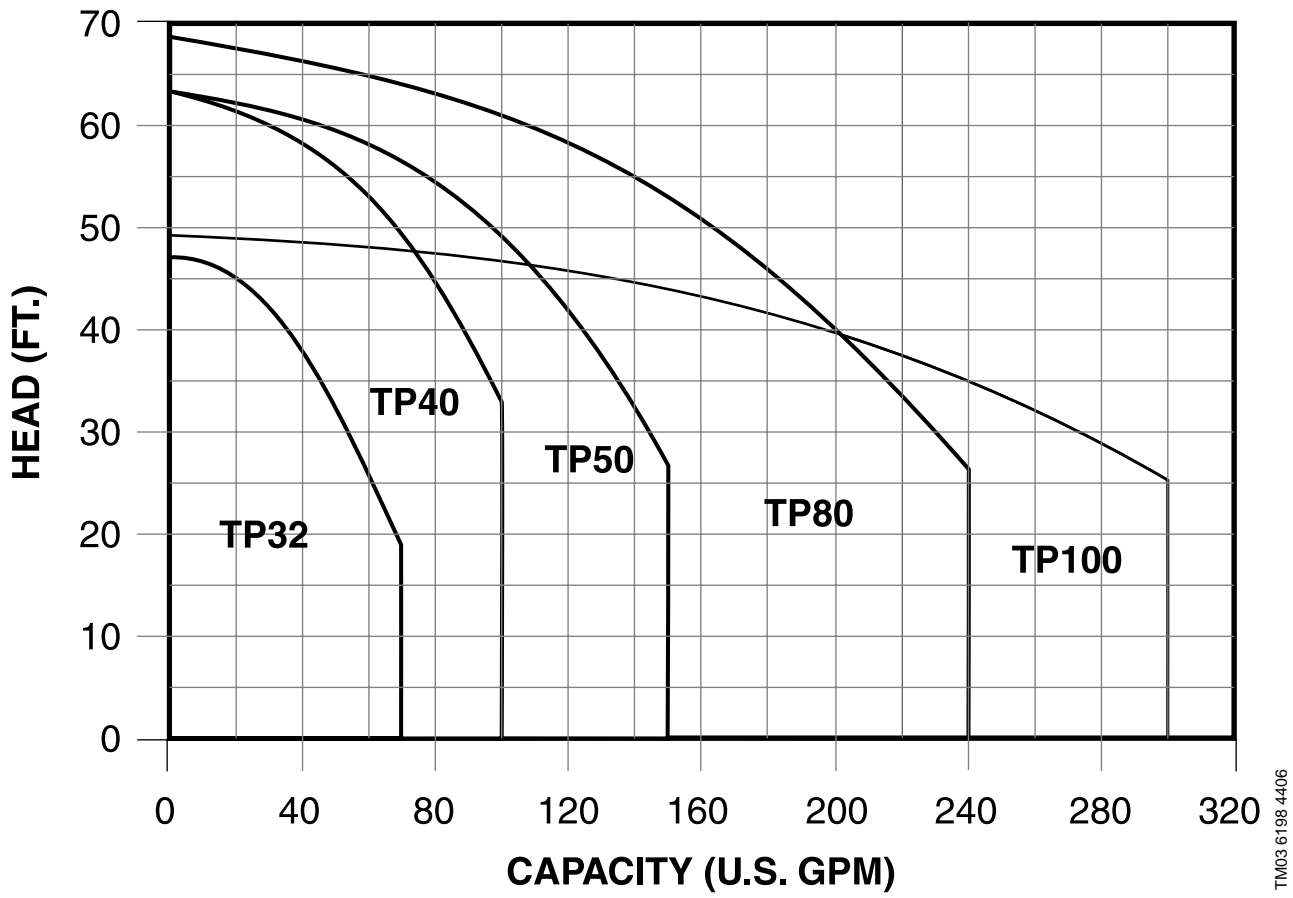


Fig. 1 Performance range

TM03 6198 4406

Product range, TP

| Pump type | Flow | Head | PH | HP | Flange | Page |
|-------------|-----------------|--------------|------|-------|-------------------------------|------|
| TP32-40/4 | 8-50 U.S. GPM | 3.5-12 FEET | 1, 3 | 1/3 | 1 1/4"- 2 Bolt with 5/8" Hole | 10 |
| TP32-80/2 | 8-55 U.S. GPM | 11-24 FEET | 1, 3 | 1/2 | 1 1/4"- 2 Bolt with 5/8" Hole | 10 |
| TP32-160/2 | 8-70 U.S. GPM | 18-47 FEET | 1, 3 | 3/4 | 1 1/2"- 2 Bolt with 5/8" Hole | 10 |
| TP 40-40/4 | 8-70 U.S. GPM | 5-12 FEET | 1, 3 | 1/3 | 1 1/2"- 2 Bolt with 5/8" Hole | 12 |
| TP 40-80/2 | 8-80 U.S. GPM | 16-29 FEET | 1, 3 | 3/4 | 1 1/2"- 2 Bolt with 5/8" Hole | 12 |
| TP40-160/2 | 8-85 U.S. GPM | 22-46 FEET | 1, 3 | 3/4 | 1 1/2"- 2 Bolt with 5/8" Hole | 12 |
| TP40-240/2 | 8-100 U.S. GPM | 33-63 FEET | 1, 3 | 1 1/2 | 1 1/2"- 2 Bolt with 5/8" Hole | 12 |
| TP50-40/4 | 8-100 U.S. GPM | 7-13 FEET | 1, 3 | 1/3 | 2"- 4 Bolt with 5/8" Hole | 14 |
| TP50-80/2 | 8-120 U.S. GPM | 14-32 FEET | 1, 3 | 3/4 | 2"- 4 Bolt with 5/8" Hole | 14 |
| TP50-160/2 | 8-140 U.S. GPM | 22-47 FEET | 1, 3 | 1 1/2 | 2"- 4 Bolt with 5/8" Hole | 14 |
| TP50-240/2 | 8-150 U.S. GPM | 27-63 FEET | 1, 3 | 2 | 2"- 4 Bolt with 5/8" Hole | 14 |
| TP80-40/4 | 12-170 U.S. GPM | 4-13 FEET | 1, 3 | 1/2 | 3" ANSI 125lb RF | 16 |
| TP80-80/4 | 12-200 U.S. GPM | 17-28 FEET | 1, 3 | 1 1/2 | 3" ANSI 125lb RF | 16 |
| TP80-160/2 | 12-220 U.S. GPM | 22-48 FEET | 1, 3 | 3 | 3" ANSI 125lb RF | 16 |
| TP80-240/2 | 12-240 U.S. GPM | 26-67.5 FEET | 1, 3 | 3 | 3" ANSI 125lb RF | 16 |
| TP100-40/4 | 25-200 U.S. GPM | 8-13.5 FEET | 1, 3 | 1 | 4" ANSI 125lb RF | 18 |
| TP100-80/4 | 25-300 U.S. GPM | 18-28 FEET | 1, 3 | 2 | 4" ANSI 125lb RF | 18 |
| TP100-160/2 | 25-300 U.S. GPM | 25-49 FEET | 1, 3 | 3 | 4" ANSI 125lb RF | 18 |

Type key, TP

| | | | | |
|------------------------------|-----------|-----------|------------|-----------|
| Example | TP | 32 | -40 | /4 |
| Pump range | | | | |
| Nominal flange diameter [mm] | | | | |
| Max. head [dm] | | | | |
| Number of motor poles | | | | |

Applications

Grundfos TP circulator pumps, are designed for circulation of liquids in heating and air-conditioning systems. Pumps with bronze pump housings are suitable for circulation in domestic hot water systems.

General examples of systems in which TP pumps are suitable are listed below.

- Boiler/Hydronic heating
- Chilled water
- Air conditioning systems
- Cooling towers
- Domestic hot water
- Radiant floor heat
- Solar
- Snow melt systems.

Construction, TP

The TP pump is a single-stage, in-line centrifugal pump with standard motor and mechanical shaft seal.

The pumps are of the top-pull-out design, i.e. pump head (motor, motor stool and impeller) can be removed without interfering with the pipework on either side of the pump housing. Consequently, even on the biggest pumps service work can be performed by a single person.

TP technical data

Relative humidity: Max. 95%.

Max. working pressure: 145 psi.

Material specification, TP

| Pos. | Description | Materials | AISI, ASTM |
|------|--------------------|-----------------------------|------------|
| 2 | Motor stool | Cast iron | |
| 6 | Pumphousing | Cast iron | |
| 7 | Coupling guard | Stainless steel | 304 |
| 8 | Coupling | Sintered metal HPX PNC45 | |
| 17 | Vent screw | Brass | |
| 19 | Pipe plug | Steel | |
| | | Stainless steel | 304 |
| 45 | Neck ring | Stainless steel/ Teflon | |
| 48 | Split cone nut | Stainless steel | 430F |
| 49 | Impeller | Stainless steel | 304 |
| 49b | Split cone | Stainless steel | 304 |
| 51 | Shaft | Stainless steel | 431 |
| 71 | Distributing cup | Stainless steel | 304 |
| 72a | O-ring/flat gasket | EPDM rubber | |
| 105a | Shaft seal | | |

Sectional drawing, TP

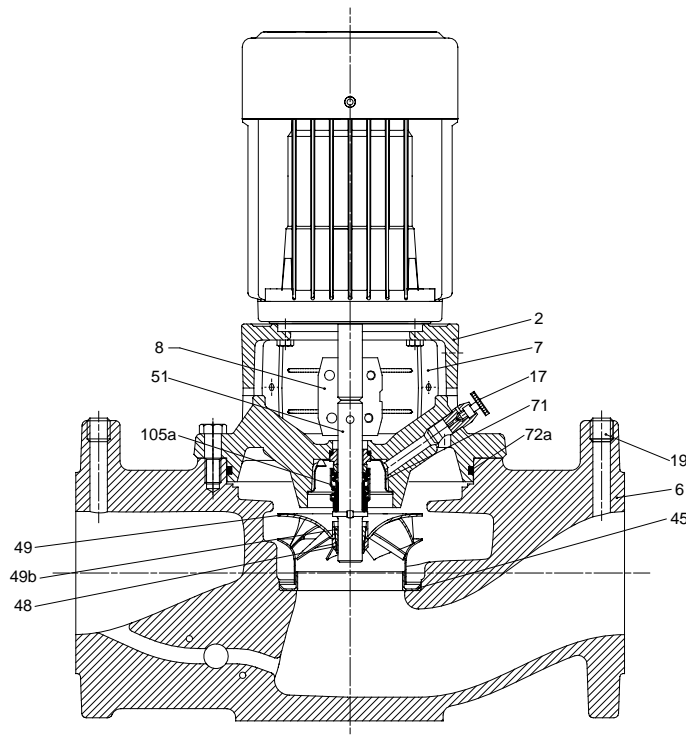


Fig. 2 Sectional drawing, TP

TM01 0175 0697

Motor

The motor is a totally enclosed, fan-cooled standard motor with main dimensions to NEMA standards.

Mounting designation: NEMA C FACE

Enclosure class: TEFC; (ODP) optional

Insulation class: F

Ambient temperature: Max. 104°F.

Pump

In-line cast iron or bronze spiral pump housing.

Flange dimensions for USA are according to Industry and or ANSI Standard.

The flanges have ¼ NPT pressure gauge tapings.

Tapped holes are provided on the underside of the pumps. These holes can be used for fitting the pump to a base plate, bracket or the like by means of hexagon screws. The pump housing is provided with a replaceable stainless steel/Teflon neck ring. The ring reduces to a minimum the amount of liquid running from the discharge side of the impeller to the suction side.

Surface treatment

The pump housing and the motor stool are electrocoated .

The treatment includes:

1. Alkaline cleaning.
2. Pre-treatment with zinc phosphate coating.
3. Cathodic electrocoating (epoxy).
Coating thickness: 15-20 µm.
4. Curing of paint film at 200-250°C.

Motor stool

The motor stool forms connection between the pump housing and the motor, and is equipped with a manual air vent screw for venting of the pump housing and the shaft seal chamber. The sealing between motor stool and pump housing is either an O-ring or a flat gasket.

The central part of the motor stool is provided with guards for protection against shaft and coupling.

The dimensions of the motor side flange of the motor stool are according to NEMA.

Pump shaft

The shaft is a cylindrical Ø16 mm stainless steel shaft. The coupling end of the shaft has a hole for the coupling shaft pin.

Coupling

The coupling is a two-piece, inelastic sintered metal coupling secured with four hexagon socket head screws.

Impeller

The impeller is made of stainless steel, AISI 304 SS.

As the impeller is made of stainless steel sheet, it can be pressed into the correct hydraulic form.

Shaft seal

The pumps are fitted as standard with a single, unbalanced tungsten carbide/carbon rubber bellows shaft seal in a 16 mm diameter size with EPDM elastomer (BUBE). The tungsten carbide/carbon shaft seal has a wide range of applications and is especially suitable where there is a risk of dry running and in case of high temperatures.

The tungsten carbide/carbon shaft seal is not suitable for liquids containing abrasive particles, as the carbon parts will be worn down. In that case a tungsten carbide/ tungsten carbide seal is recommended.

Optional shaft seals available:

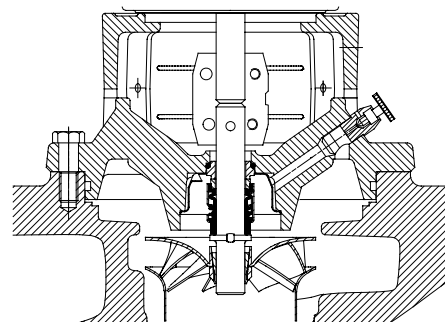
- unbalanced tungsten carbide/tungsten carbide O-ring shaft seal with EPDM elastomer (AUUE).

And for glycol/water mixtures:



Unbalanced reduced face tungsten carbide/tungsten carbide O-ring shaft seal with EPDM elastomers (RUUE).

The circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal.



TM00 2265 4696

Fig. 3

TP pumps can be installed in horizontal and vertical pipes.

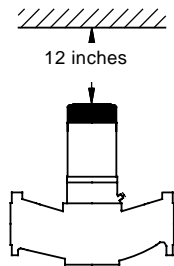
Note: The motor must never point downwards.

The pumps must be installed in such a way that strain from the pipework is not transferred to the pump housing.

The pump may be suspended direct in the pipes, provided the pipework can support the pump. If not, the pump must be installed on a mounting bracket or base plate.

Space requirements

For inspection and motor/pump head removal a 12" (300 mm) clearance above the motor is required.



TM00 9242 3495

Fig. 4 Space requirements

Pumped liquids

Thin, clean, non-aggressive and non-explosive liquids, not containing solid particles or fibers that may mechanically or chemically attack the pump, please see "List of pumped liquids" below.

Examples of liquids:

- central heating system water (we recommend that the water meets the requirements of accepted standards on water quality in heating systems)
- cooling liquids
- domestic hot water
- industrial liquids
- softened water.

If glycol or another antifreeze agent is added to the pumped liquid, the pump must have a shaft seal of the type RUUE.

The pumping of liquids with densities or kinematic viscosities higher than those of water can cause

- a considerable pressure drop
- a drop in the hydraulic performance
- a rise in the power consumption.

In these situations, equip the pump with an oversize motor. If in doubt, contact Grundfos.

If the water contains mineral oils or chemicals, or if other liquids than water are pumped, the O-rings should be chosen accordingly.

Liquid temperature

Liquid temperature: -13°F to $+284^{\circ}\text{F}$.

Please note that shaft seals operating close to their maximum temperature will require regular maintenance, i.e. replacement.

| Pump type | Shaft seal | Temperature |
|-----------|------------|---|
| TP | BUBE | 32°F to $+284^{\circ}\text{F}$ |
| | AUUE | 32°F to $+194^{\circ}\text{F}$ |
| | RUUE | -13°F to $+194^{\circ}\text{F}$ |

List of pumped liquids

Grundfos TP pumps are designed for circulation systems with constant flow, TPE pumps for systems with variable flow.

Thanks to their design, these pumps can be used in a wider liquid temperature range than pumps of the canned rotor type.

A number of typical liquids are listed page 10.

Other pump versions may be used, but we consider the ones stated in the list to be the best choices.

The list is intended as a general guide only, and it cannot replace actual testing of the pumped liquids and pump materials under specific working conditions. If in doubt, contact Grundfos.

However, use the list with some caution as factors such as

- concentration of the pumped liquid
- liquid temperature or
- pressure

may affect the chemical resistance of a specific pump version.

Legend for notes in the list

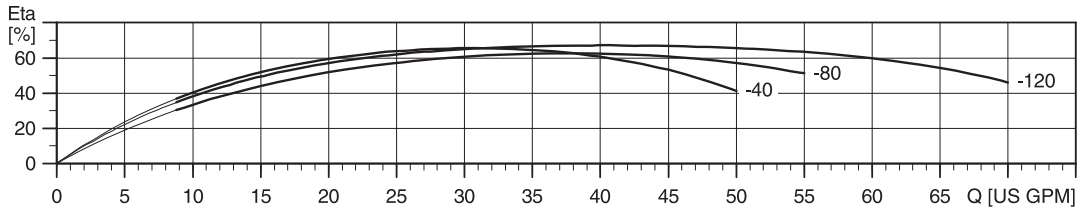
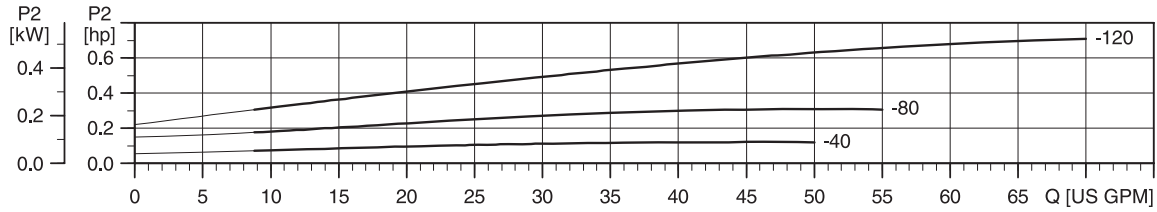
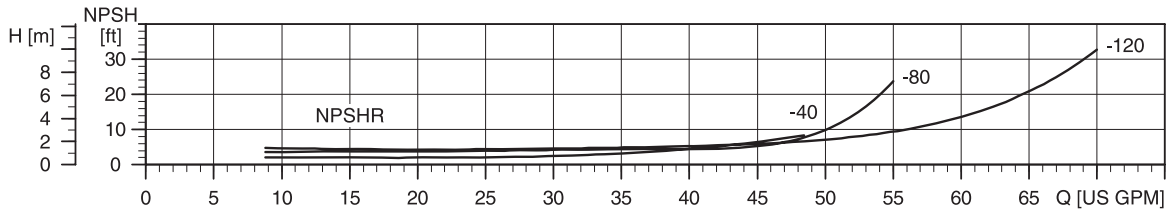
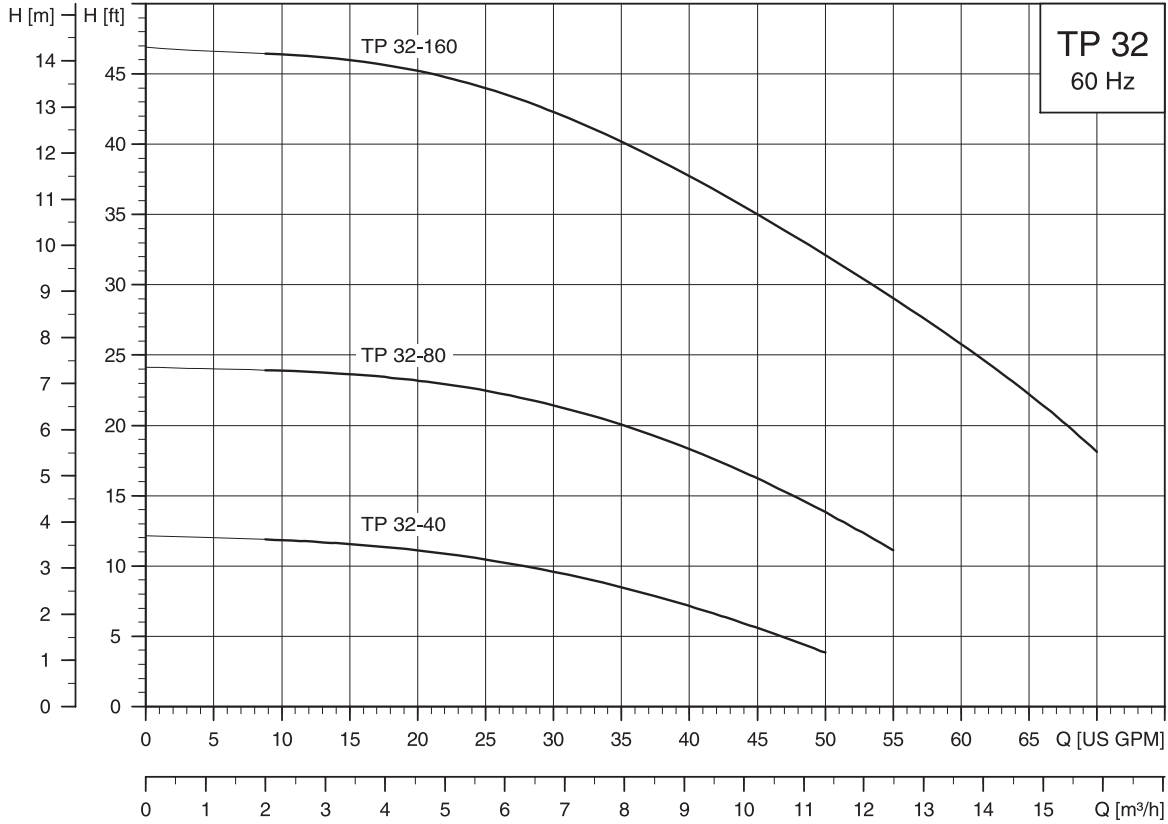
| | |
|----------|---|
| A | May contain additives or impurities that may cause shaft seal problems. |
| B | The density and/or viscosity differ from those of water. Consider this when calculating motor and pump performance. |
| C | The liquid must be oxygen-free (anaerobic). |
| D | Risk of crystallization/precipitation in shaft seal. |
| E | Insoluble in water. |
| F | The shaft seal rubber parts must be replaced with FKM rubber. |
| G | Bronze housing/impeller required. |
| H | Risk of formation of ice on the standby pump. |

| Pumped liquids | Notes | Additional information | Shaft seal TP |
|-----------------------------|------------|--|--|
| Water | | | |
| Groundwater | | <+194°F | AUUE |
| | | >+194°F | BUBE |
| Boiler feed water | | <+248°F | BUBE |
| District heating water | | <+248°F | BUBE |
| Condensate | | <+194°F | AUUE |
| | | >+194°F | BUBE |
| Softened water | C | <+194°F | AUUE |
| | | >+194°F | BUBE |
| Brackish water | G | pH>6.5, +40°F, 1000 ppm Cl ⁻ | BUBE AUUE |
| | | | AUUE |
| Coolants | | | |
| Ethylene glycol | B, D, H | +122°F, 50% | AUUE RUUE |
| Glycerine (glycerol) | B, D, H | +122°F, 50% | AUUE RUUE |
| Potassium acetate | B, D, C, H | +122°F, 50% | AUUE RUUE |
| Potassium formate | B, D, C, H | +122°F, 50% | AUUE RUUE |
| Propylene glycol | B, D, H | +122°F, 50% | AUUE RUUE |
| Brine-sodium chloride | B, D, C, H | +41°F, 30% | AUUE RUUE |
| Synthetic oils | | | |
| Silicone oil | B, E | | BUBE AUUE |
| Vegetable oils | | | |
| Corn oil | B, F, E | | BUBV ³⁾ AUUV ³⁾ |
| Olive oil | B, F, E | <+176°F | BUBV ³⁾ AUUV ³⁾ |
| Peanut oil | B, F, E | | BUBV ³⁾ AUUV ³⁾ |
| Grape seed oil | D, B, F, E | | BUBV ³⁾ AUUV ³⁾ |
| Soybean oil | B, F, E | | BUBV ³⁾ AUUV ³⁾ |
| Cleaning agents | | | |
| Soap (salts of fatty acids) | A, E, (F) | <+176°F | AUUE (AUUV) ³⁾ |
| Alkaline degreasing agent | A, E, (F) | <+176°F | AUUE (AUUV) ³⁾ |
| Oxidants | | | |
| Hydrogen peroxide | | <+104°C, <2% | BUBE AUUE |
| Salts | | | |
| Ammonium bicarbonate | A | <+68°F, <15% | AUUE |
| Calcium acetate | A, B | <+68°F, <30% | AUUE |
| Potassium bicarbonate | A | <+68°F, <20% | AUUE |
| Potassium carbonate | A | <+68°F, <20% | AUUE |
| Potassium permanganate | A | <+68°F, <10% | AUUE |
| Potassium sulfate | A | <+68°F, <20% | AUUE |
| Sodium acetate | A | <+68°F, <100% | AUUE |
| Sodium bicarbonate | A | <+68°F, <2% | AUUE |
| Sodium carbonate | A | <+68°F, <20% | AUUE |

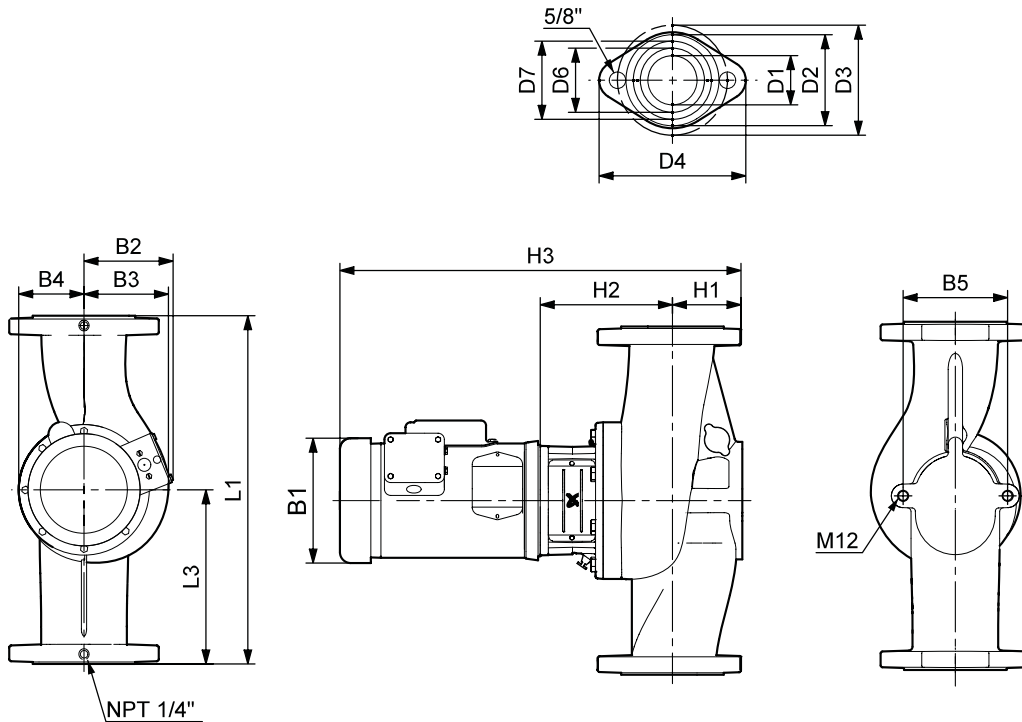
| Pumped liquids | Notes | Additional information | Shaft seal TP |
|------------------------|-------|------------------------|---------------|
| Sodium nitrate | A | <+68°F, <40% | AUUE |
| Sodium nitrite | A | <+68°F, <40% | AUUE |
| Sodium phosphate (di) | A | <+212°F, <30% | AUUE |
| Sodium phosphate (tri) | A | <+194°F, <20% | AUUE |
| Sodium sulfate | A | <+68°F, <20% | AUUE |
| Sodium sulfite | A | <+68°F, <1% | AUUE |
| Alkalis | | | |
| Ammonium hydroxide | | <+212°F, <30% | AUUE |
| Calcium hydroxide | A | <+212°F, <10% | AUUE |
| Potassium hydroxide | A | <+68°F, <20% | AUUE |
| Sodium hydroxide | A | <+104°F, <20% | AUUE |

³⁾ The shaft seal is not standard, but available on request.

TP 32-XX



TK00 9225 1897



TM03 7757 4806

Dimensions and weights

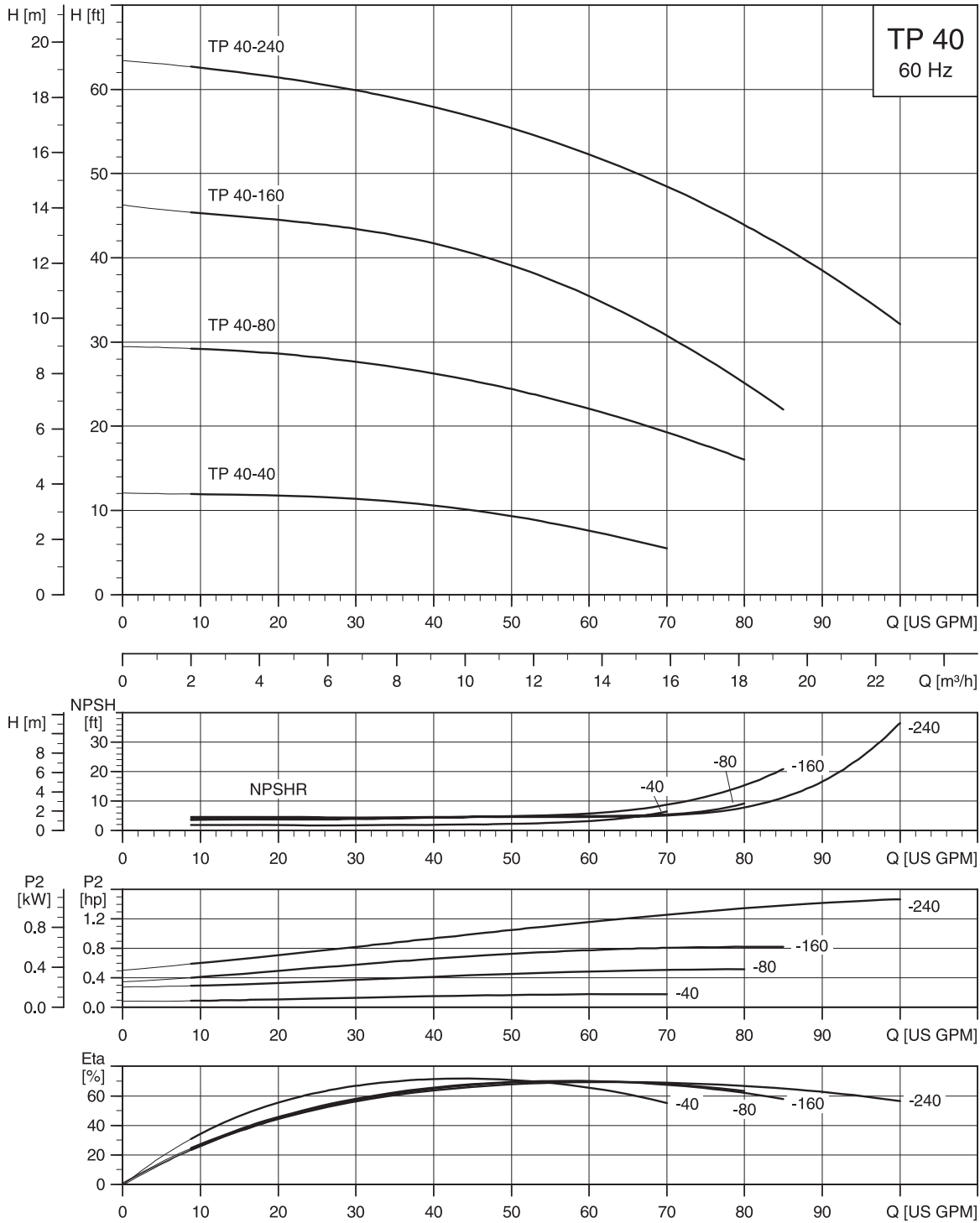
| Pump type | HP | Suc. disc. size | Ph | Dimensions [inches] (mm) | | | | | | | | | | | | | | Net wt. [lbs] | | | |
|------------|-----|-----------------|-----|--------------------------|-------------|-------------|--------------|----|----|----|-------------|--------------|---------------|----------------|--------------|-------------|---------------|---------------|--------------|-------------|------|
| | | | | L1 | L3 | B1 | B2 | B3 | B4 | B5 | B7 | H1 | H2 | H3 | D1 | D2 | D3 | | D4 | D6 | D7 |
| TP32-40/4 | 1/3 | 1 1/4 (32) | 1/3 | 11 | 5 1/2 (140) | 6 5/8 (168) | 4 7/16 (113) | | 3 | 3 | 3 3/16 (78) | 2 11/16 (68) | 5 15/16 (151) | 17 3/4 (451) | 1 7/16 (37) | 2 9/16 (65) | 3 1/2 (89) | 4 5/8 (117) | 1 13/16 (46) | 2 1/4 (57) | 51.5 |
| | | | 1/3 | | | | | | | | | | | | | | | | | | |
| TP32-80/2 | 1/2 | 1 1/4 (32) | 1/3 | 11 | 5 1/2 (140) | 6 5/8 (168) | 4 7/16 (113) | | 3 | 3 | 3 3/16 (78) | 2 11/16 (68) | 5 13/16 (148) | 17 11/16 (449) | 1 7/16 (37) | 2 9/16 (65) | 3 1/2 (89) | 4 5/8 (117) | 1 13/16 (46) | 2 1/4 (57) | 51.5 |
| | | | 1/2 | | | | | | | | | | | | | | | | | | |
| TP32-160/2 | 3/4 | 1 1/2 (38) | 1/3 | 13 1/2 (343) | 6 3/4 (171) | 6 5/8 (168) | 4 7/16 (113) | | 3 | 3 | 3 3/16 (78) | 2 11/16 (68) | 5 7/8 (149) | 18 3/16 (462) | 1 11/16 (43) | 2 7/8 (73) | 3 15/16 (100) | 5 (127) | 2 1/16 (52) | 2 9/16 (52) | 55.5 |
| | | | 1/2 | | | | | | | | | | | 17 11/16 (449) | | | | | | | |

Note: For information about motor data, see page 22.

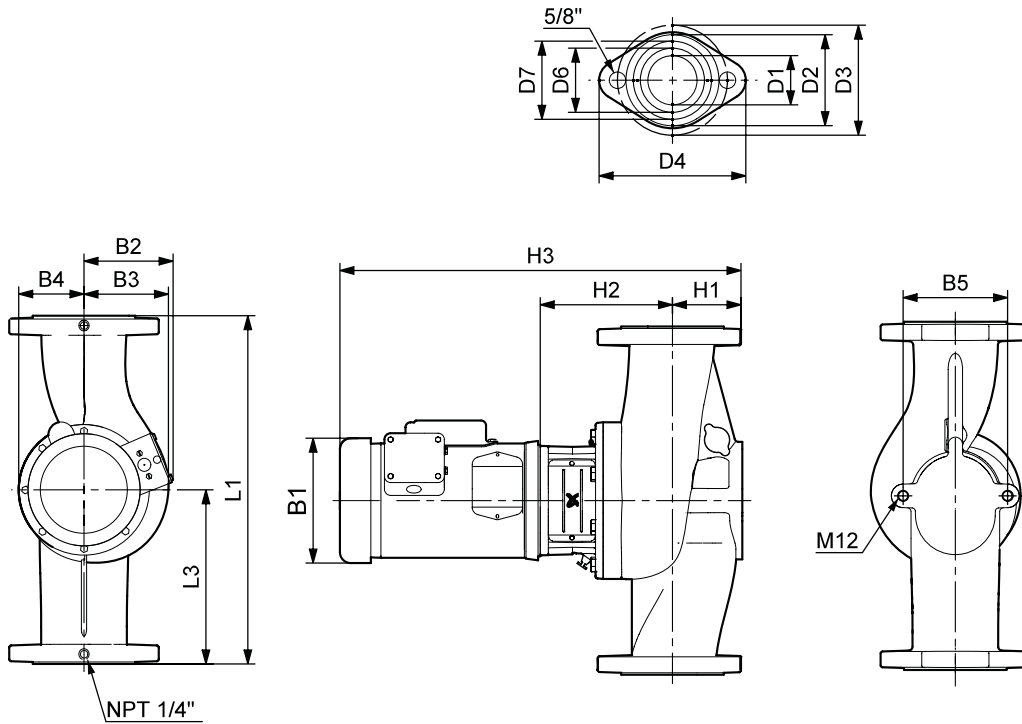
Technical data

| | |
|------------------------------|---|
| Flow range: | 8-70 U.S. GPM |
| Head range: | 3.5-47 ft |
| Maximum working pressure: | 145 PSI |
| Temperature range: | 5°F (-15°C) to 284°F (140°C) |
| Max ambient air temperature: | 104°F (40°C) |
| Motors: | TEFC-Standard, ODP-Optional |
| Flanges: | 1 1/4" (TP32-40, TP32-80) and 1 1/2" (TP32-160), 2 bolt with (2) 5/8 dia. holes |

TP 40-XX



TK00 9226 1897



TM03 7757 4806

Dimensions and weights

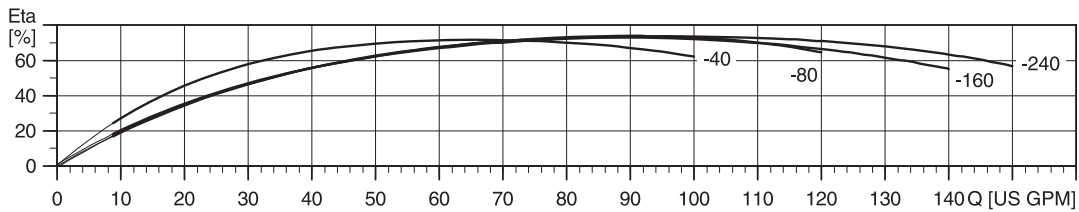
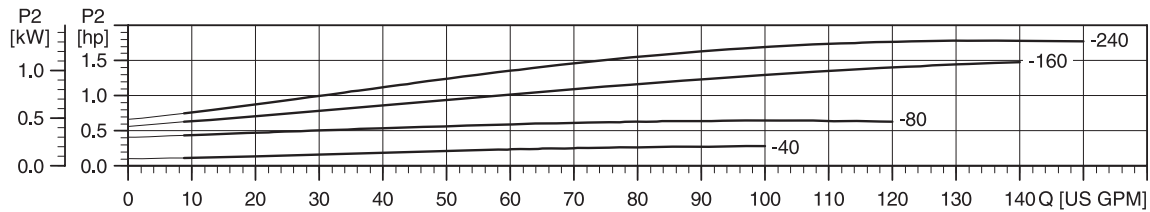
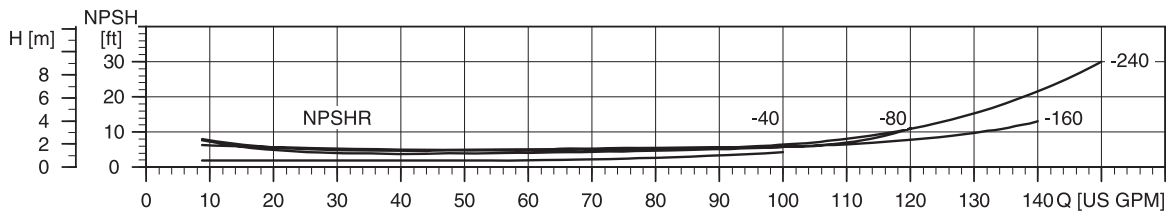
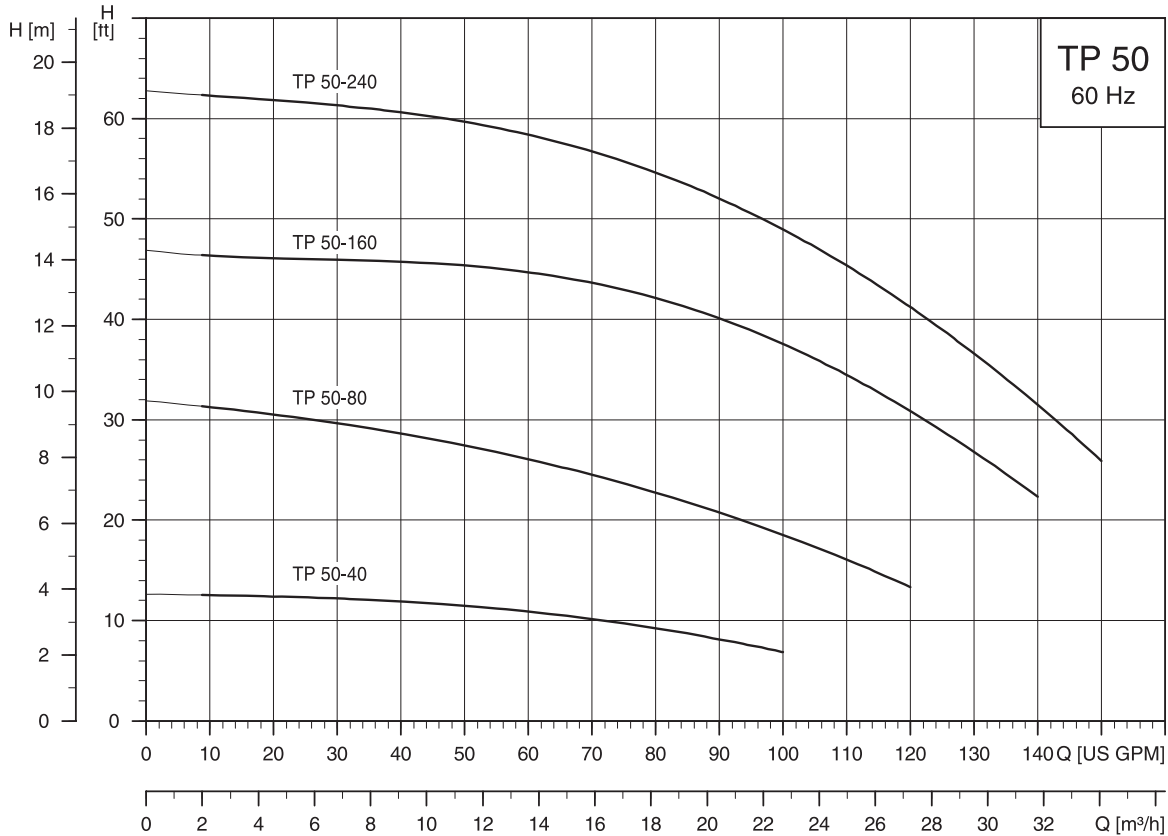
| Pump type | HP | Suc. disc. size | Ph | Dimensions [inches] | | | | | | | | | | | | | | Net wt. [lbs] | | | |
|------------|-------|-----------------|----|---------------------|--------|-------|-------|--------|-------|-------|--------|---------|--------|----------|---------|-------|-------|---------------|--------|--------|------|
| | | | | (mm) | | | | | | | | | | | | | | | | | |
| | | | | L1 | L3 | B1 | B2 | B3 | B4 | B5 | H1 | H2 | H3 | D1 | D2 | D3 | D4 | D6 | D7 | | |
| TP40-40/4 | 1/3 | | | 1 | 13 1/2 | 6 3/4 | 6 1/4 | 4 7/16 | 3 3/8 | 3 | 4 3/4 | 2 11/16 | 6 1/8 | 17 15/16 | 1 11/16 | 2 7/8 | 3 7/8 | 5 | 2 1/16 | 2 9/16 | 54.5 |
| | | | | 3 | (343) | (171) | (159) | (113) | (86) | (76) | (121) | (68) | (156) | (456) | (43) | (73) | (98) | (127) | (52) | (52) | 53 |
| TP40-80/2 | 3/4 | | | 1 | 13 1/2 | 6 3/4 | 6 1/4 | 4 7/16 | 3 | 3 | 4 3/4 | 2 11/16 | 6 1/16 | 19 7/16 | 1 11/16 | 2 7/8 | 3 7/8 | 5 | 2 1/16 | 2 9/16 | 57.5 |
| | | | | 3 | (343) | (171) | (159) | (113) | (76) | (76) | (121) | (68) | (154) | 17 7/8 | (43) | (73) | (98) | (127) | (52) | (52) | 53.5 |
| TP40-160/2 | 3/4 | 1 1/2 (38) | | 1 | 11 1/2 | 5 3/4 | 6 1/4 | 4 7/16 | 4 | 4 | 3 3/16 | 2 11/16 | 5 7/8 | 19 3/16 | 1 11/16 | 2 7/8 | 3 7/8 | 5 | 2 1/16 | 2 9/16 | 65.5 |
| | | | | 3 | (292) | (146) | (159) | (113) | (102) | (102) | (78) | (68) | (149) | 17 11/16 | (43) | (73) | (98) | (127) | (52) | (52) | 62 |
| TP40-240/2 | 1 1/2 | | | 1 | 13 1/2 | 6 3/4 | 7 1/4 | 5 1/8 | 4 | 4 | 3 3/16 | 2 11/16 | 6 3/16 | 20 | 1 11/16 | 2 7/8 | 3 7/8 | 5 | 2 1/16 | 2 9/16 | 81 |
| | | | | 3 | (343) | (171) | (184) | (130) | (102) | (102) | (78) | (68) | (157) | 19 9/16 | (43) | (73) | (98) | (127) | (52) | (52) | 72 |

Note: For information about motor data, see page 22.

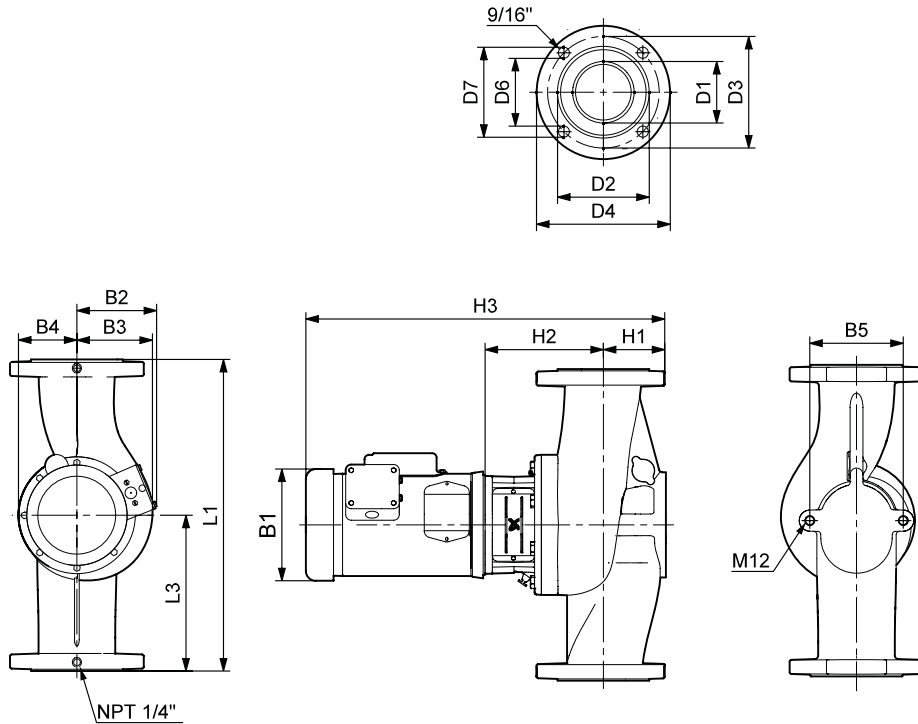
Technical data

| | |
|------------------------------|---------------------------------------|
| Flow range: | 8-100 U.S. GPM |
| Head range: | 5-63 ft |
| Maximum working pressure: | 145 PSI |
| Temperature range: | 5°F (-15°C) to 284°F (140°C) |
| Max ambient air temperature: | 104°F (40°C) |
| Motors: | TEFC-Standard, ODP-Optional |
| Flanges: | 1 1/2" 2 bolt with (2) 5/8 dia. holes |

TP 50-XX



TK00 9227 1897



TM03 7756 4806

Dimensions and weights

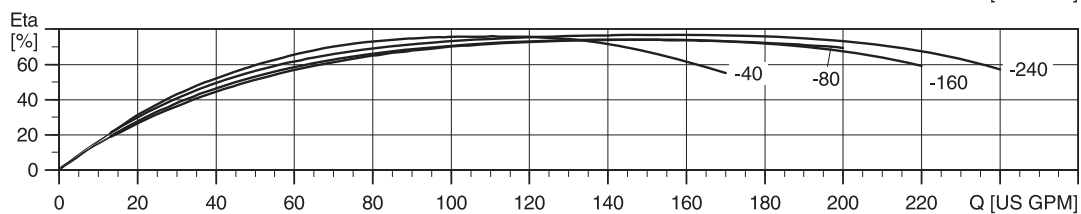
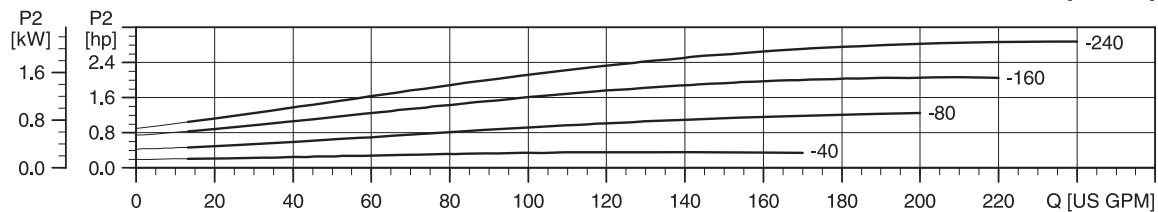
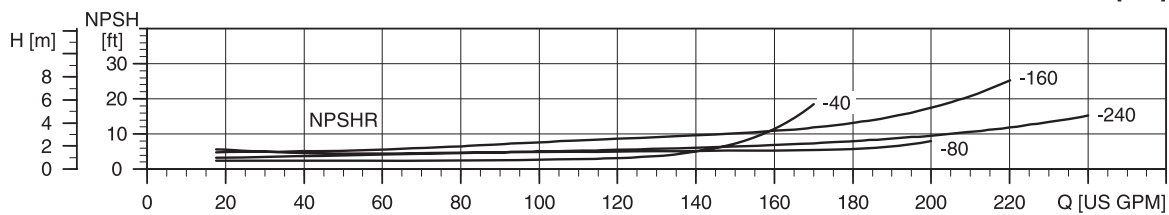
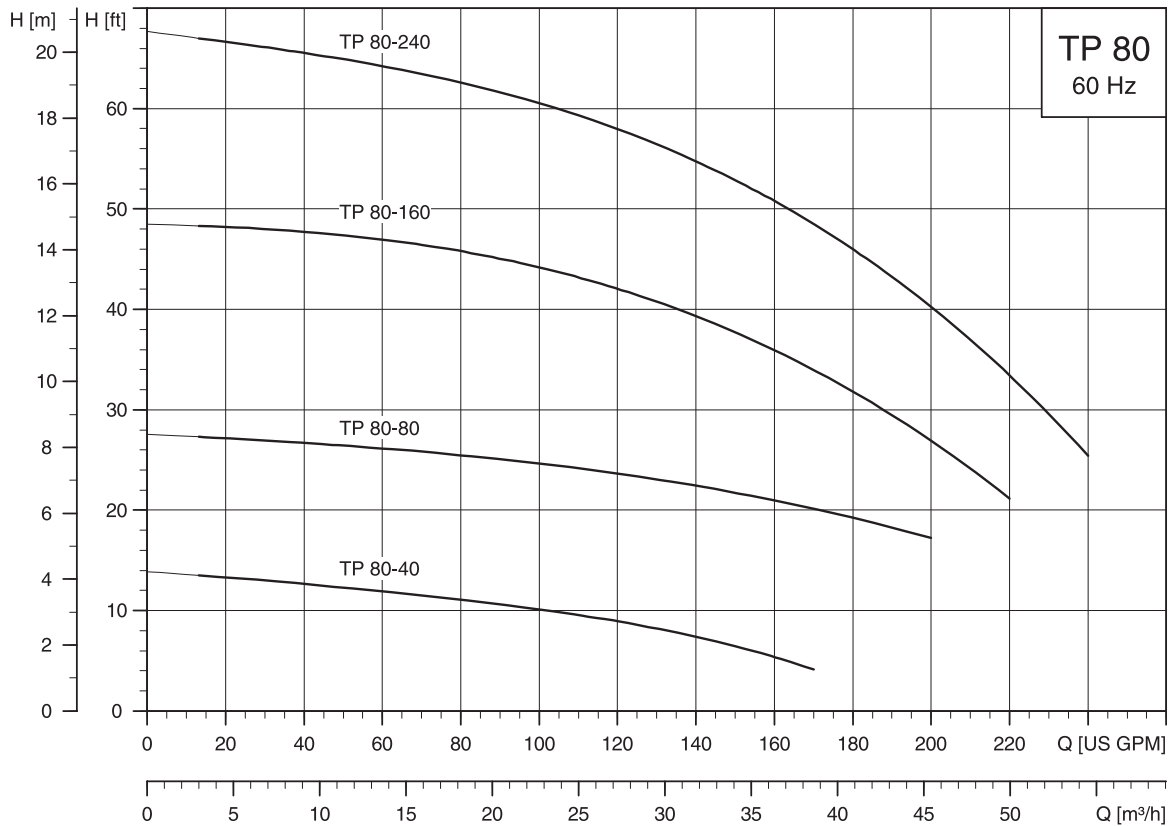
| Pump type | HP | Suc. disc. size | Ph | Dimensions [inches] | | | | | | | | | | | | | | Net wt. [lbs] | | |
|------------|-------|-----------------|----|---------------------|-------|-------|--------|--------|-------|-------|-------|---------|----------|-------|--------|--------|-------|---------------|--------|------|
| | | | | L1 | L3 | B1 | B2 | B3 | B4 | B5 | H1 | H2 | H3 | D1 | D2 | D3 | D4 | | D6 | D7 |
| TP50-40/4 | 1/3 | 1/3 | 1 | 14 | 7 | 6 1/4 | 4 7/16 | 3 9/16 | 3 | 4 3/4 | 3 1/4 | 6 1/4 | 18 5/8 | 2 1/8 | 3 7/16 | 4 1/16 | 5 1/4 | 2 1/2 | 3 1/16 | 61.5 |
| | | | 3 | (356) | (178) | (159) | (113) | (90) | (76) | (121) | (83) | (159) | (473) | (54) | (87) | (103) | (133) | (64) | (78) | 67.5 |
| TP50-80/2 | 3/4 | 1/3 | 1 | 11 1/2 | 5 3/4 | 6 1/4 | 4 7/16 | 3 3/4 | 3 | 4 3/4 | 3 | 6 3/16 | 20 1/16 | 2 1/8 | 3 7/16 | 4 1/16 | 5 1/4 | 2 1/2 | 3 1/16 | 71 |
| | | | 3 | (292) | (146) | (159) | (113) | (95) | (76) | (121) | (76) | (157) | 18 5/16 | (54) | (87) | (103) | (133) | (64) | (78) | 67.5 |
| TP50-160/2 | 1 1/2 | 2 (51) | 1 | 14 | 7 | 7 1/4 | 5 1/8 | 4 | 4 | 4 3/4 | 3 | 5 15/16 | 20 5/16 | 2 1/8 | 3 7/16 | 4 1/16 | 5 1/4 | 2 1/2 | 3 1/16 | 86.5 |
| | | | 3 | (356) | (178) | (184) | (130) | (102) | (102) | (121) | (76) | (151) | 19 13/16 | (54) | (87) | (103) | (133) | (64) | (78) | 77.5 |
| TP50-240/2 | 2 | 1/3 | 1 | 14 | 7 | 7 1/4 | 5 1/8 | 4 | 4 | 4 3/4 | 3 | 5 7/8 | 20 1/4 | 2 1/8 | 3 7/16 | 4 1/16 | 5 1/4 | 2 1/2 | 3 1/16 | 88.5 |
| | | | 3 | (356) | (178) | (184) | (130) | (102) | (102) | (121) | (76) | (149) | 19 5/16 | (54) | (87) | (103) | (133) | (64) | (78) | 79.5 |

Note: For information about motor data, see page 22.

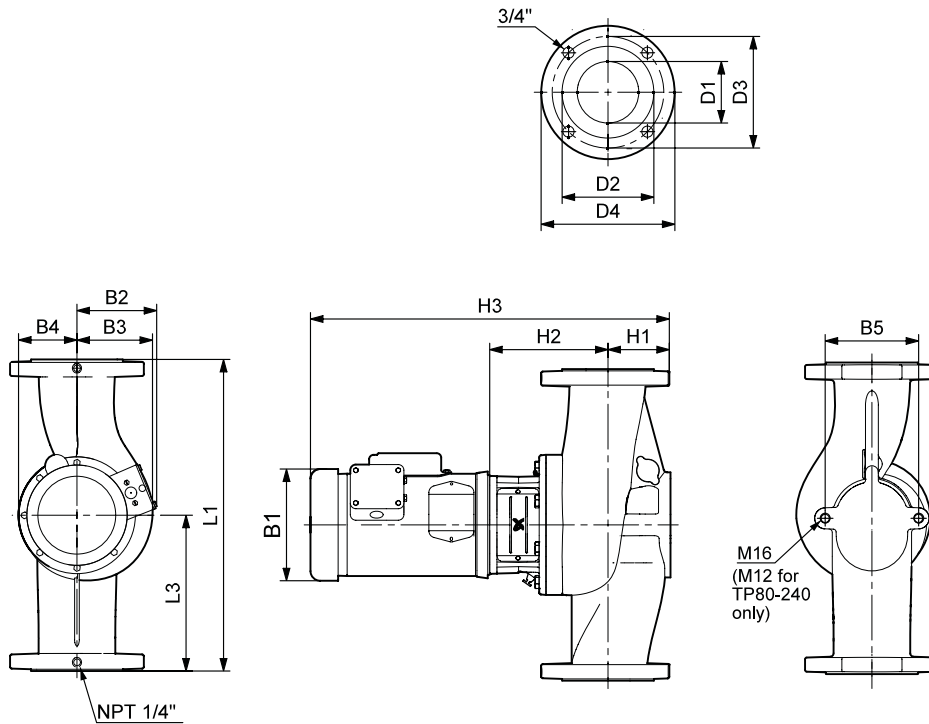
Technical data

| | |
|------------------------------|--|
| Flow range: | 8-150 U.S. GPM |
| Head range: | 7-63 ft |
| Maximum working pressure: | 145 PSI |
| Temperature range: | 5°F (-15°C) to 284°F** (140°C) |
| Max ambient air temperature: | 104°F (40°C) |
| Motors: | TEFC-Standard, ODP-Optional |
| Flanges: | 1 1/2" 4 bolt with (4) 9/16 dia. holes |

TP 80-XX



TK00 9228 1097



TMO 7769 4806

Dimensions and weights

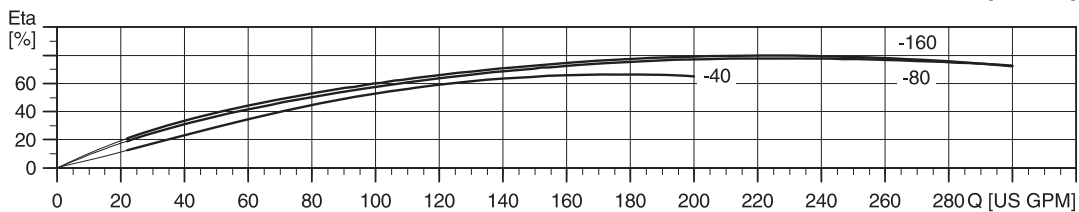
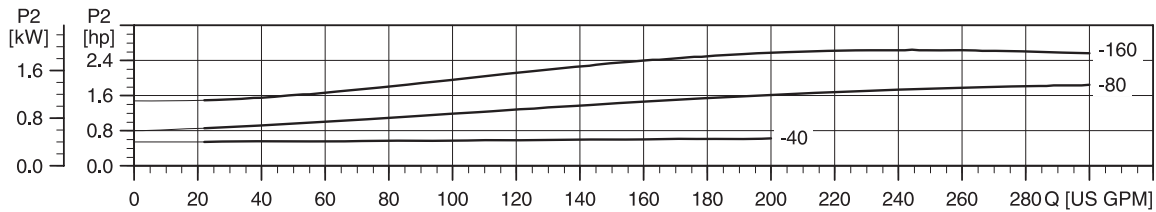
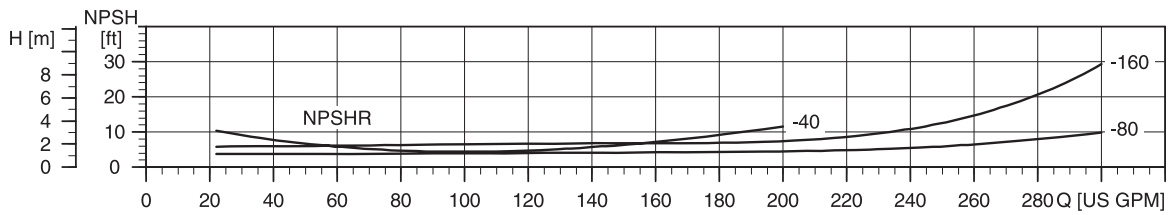
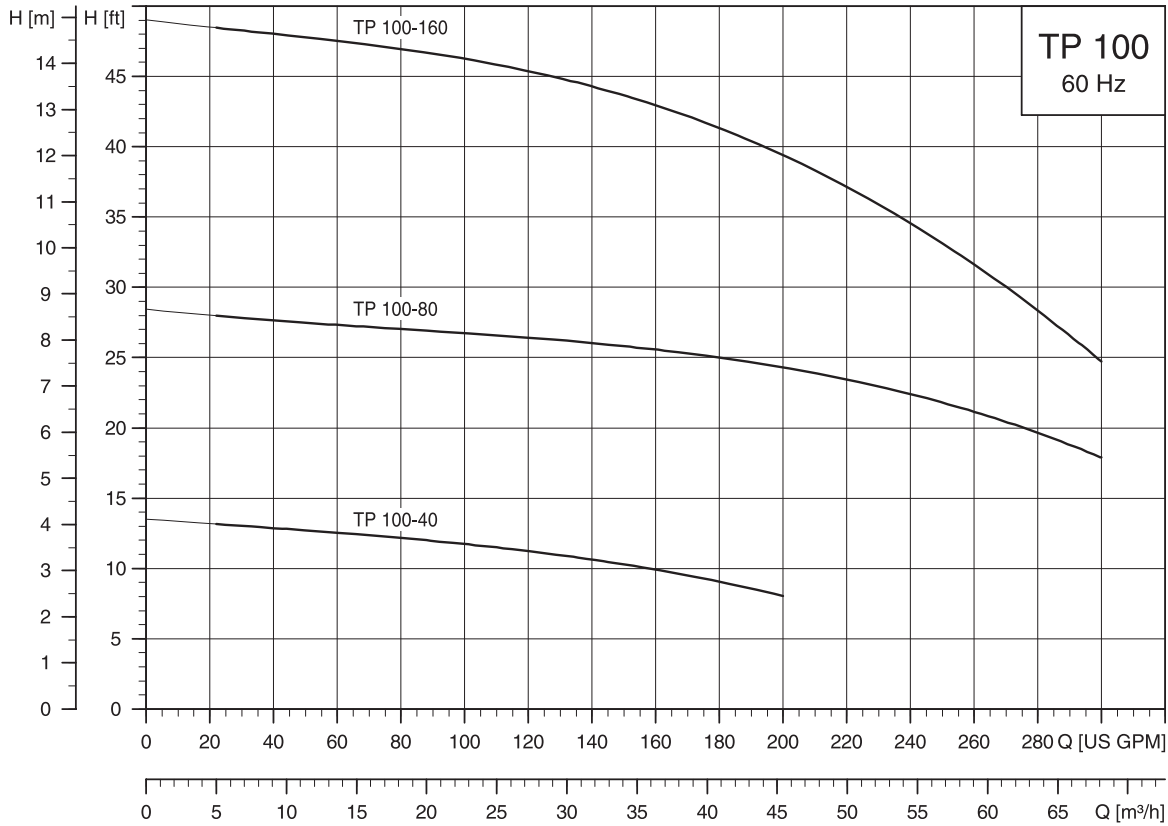
| Pump type | HP | Suc. disc. size | Ph | Dimensions [inches] | | | | | | | | | | | | | Net wt. [lbs] | |
|------------|-------|-----------------|----|---------------------|-------|-------|--------|-------|-------|--------|---------|---------|----------|--------|-------|-------|---------------|-------|
| | | | | (mm) | | | | | | | | | | | | | | |
| | | | | L1 | L3 | B1 | B2 | B3 | B4 | B5 | H1 | H2 | H3 | D1 | D2 | D3 | D4 | |
| TP80-40/4 | 1/2 | 1/3 | 1 | 19 | 9 1/2 | 6 1/4 | 4 7/16 | 5 | 4 | 6 5/16 | 3 13/16 | 6 3/8 | 19 15/16 | 3 3/16 | 5 | 6 | 7 9/16 | 107 |
| | | | 3 | (483) | (241) | (159) | (113) | (127) | (102) | (160) | (97) | (162) | (506) | (81) | (127) | (152) | (192) | 97 |
| TP80-80/4 | 1 1/2 | 1/3 | 1 | 19 | 9 1/2 | 7 1/4 | 5 1/8 | 5 | 4 | 6 5/16 | 3 13/16 | 6 3/8 | 21 3/8 | 3 3/16 | 5 | 6 | 7 9/16 | 121 |
| | | | 3 | (483) | (241) | (184) | (130) | (127) | (102) | (160) | (97) | (162) | (543) | (81) | (127) | (152) | (192) | 108 |
| TP80-160/2 | 3 | 1/3 | 1 | 19 | 9 1/2 | 8 1/2 | 5 7/8 | 4 | 4 | 6 5/16 | 3 13/16 | 6 7/8 | 24 3/8 | 3 3/16 | 5 | 6 | 7 9/16 | 152 |
| | | | 3 | (483) | (241) | (216) | (149) | (102) | (102) | (160) | (97) | (175) | (619) | (81) | (127) | (152) | (192) | 142 |
| TP80-240/2 | 3 | 1/3 | 1 | 19 | 9 1/2 | 8 1/2 | 5 7/8 | 4 | 4 | 4 3/4 | 3 13/16 | 6 11/16 | 24 1/8 | 3 3/16 | 5 | 6 | 7 9/16 | 148.5 |
| | | | 3 | (483) | (241) | (216) | (149) | (102) | (102) | (121) | (97) | (170) | (613) | (81) | (127) | (152) | (192) | 138.5 |

Note: For information about motor data, see page 22.

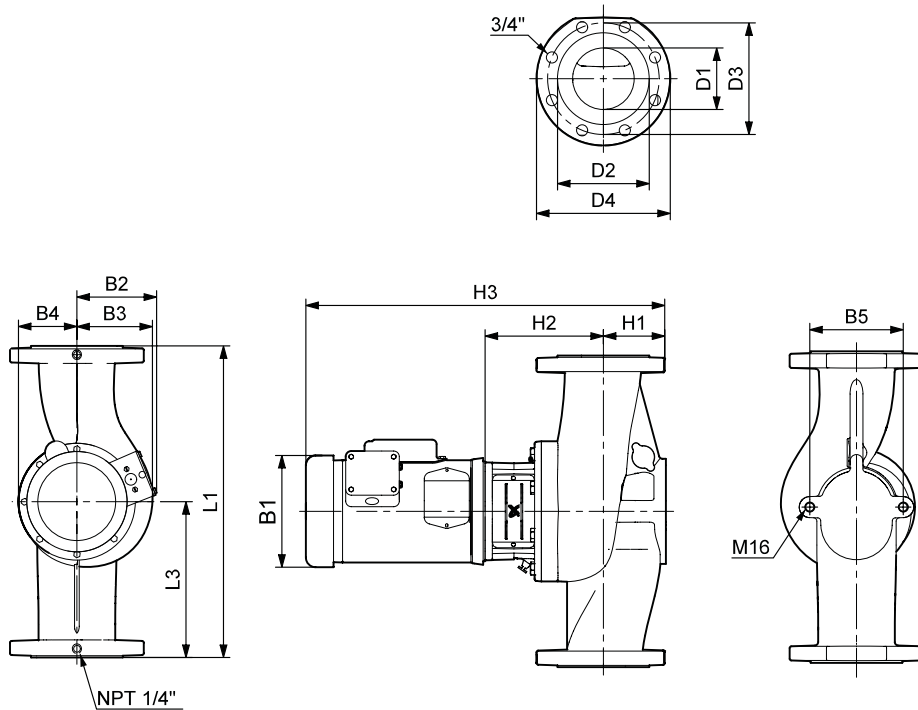
Technical data

| | |
|------------------------------|------------------------------|
| Flow range: | 12-2400 U.S. GPM |
| Head range: | 4-67.53 ft |
| Maximum working pressure: | 145 PSI |
| Temperature range: | 5°F (-15°C) to 284°F (140°C) |
| Max ambient air temperature: | 104°F (40°C) |
| Motors: | TEFC-Standard, ODP-Optional |
| Flanges: | 3" ANSI 125 lb., R.F. |

TP 100-XX



TK00 9229 1097



TM03 7755 4806

Dimensions and weights

| Pump type | HP | Suc. disc. size | Ph | Dimensions [inches] | | | | | | | | | | | | Net wt. [lbs] | | |
|-------------|----|-----------------|----|---------------------|--------|-------|-------|---------|-------|--------|---------|--------|---------|--------|--------|---------------|--------|-----|
| | | | | (mm) | | | | | | | | | | | | | | |
| | | | | L1 | L3 | B1 | B2 | B3 | B4 | B5 | H1 | H2 | H3 | D1 | D2 | D3 | D4 | |
| TP100-40/4 | 1 | | 1 | 21 | 10 1/2 | 7 1/4 | 5 1/8 | 5 1/8 | 4 | 6 5/16 | 4 13/16 | 7 7/16 | 23 7/16 | 4 3/16 | 6 3/16 | 7 9/16 | 9 1/16 | 107 |
| | | | 3 | (533) | (267) | (184) | (130) | (130) | (102) | (160) | (122) | (189) | (595) | (106) | (157) | (192) | (230) | 97 |
| TP100-80/4 | 2 | 4 (102) | 1 | 21 | 10 1/2 | 7 1/4 | 5 1/8 | 5 5/16 | 4 | 6 5/16 | 4 13/16 | 6 5/8 | 23 7/16 | 4 3/16 | 6 3/16 | 7 9/16 | 9 1/16 | 121 |
| | | | 3 | (533) | (267) | (184) | (130) | (135) | (102) | (160) | (122) | (168) | (595) | (106) | (157) | (192) | (230) | 108 |
| TP100-160/2 | 3 | | 1 | 21 | 10 1/2 | 8 1/2 | 5 7/8 | 4 15/16 | 4 | 6 5/16 | 4 13/16 | 7 1/16 | 25 1/2 | 4 3/16 | 6 3/16 | 7 9/16 | 9 1/16 | 152 |
| | | | 3 | (533) | (267) | (216) | (149) | (125) | (102) | (160) | (122) | (179) | (648) | (106) | (157) | (192) | (230) | 142 |

Note: For information about motor data, see page 22.

Technical data

| | |
|------------------------------|------------------------------|
| Flow range: | 25-300 U.S. GPM |
| Head range: | 3-49 ft |
| Maximum working pressure: | 145 PSI |
| Temperature range: | 5°F (-15°C) to 284°F (140°C) |
| Max ambient air temperature: | 104°F (40°C) |
| Motors: | TEFC-Standard, ODP-Optional |
| Flanges: | 4" ANSI 125 lb., R.F. |

VersaFlo® TP

| Model | Cas iron Product no. | Bronze Product no. | Mtr. Brand | Max HP | Motor type | PH | Mtr. SF. | Voltage | Max. RPM | I-F/L AMPS | I-start AMPS |
|-------------|----------------------|--------------------|------------|--------|------------|----|----------|-------------|----------|----------------|-----------------|
| TP32-40/4 | 96411778 | 96411780 | Baldor | 1/3 | TEFC | 1 | 1.35 | 115/208-230 | 1725 | 6/3.6-3 | 26.0/14.4-13 |
| | 96411779 | 96411781 | Baldor | | | 3 | 1.35 | 208-230/460 | 1725 | 1.9-1.6/0.8 | 9.7-8.8/4.4 |
| TP32-80/2 | 96411782 | 96411784 | Baldor | 1/2 | TEFC | 1 | 1.6 | 115/208-230 | 3450 | 7.4/5.2-3.7 | 39.0/21.6-19.5 |
| | 96411783 | 96411785 | Grundfos | | | 3 | 1.25 | 208-230/460 | 3460 | 1.64-1.55/0.78 | 9.7-10.1/5.1 |
| TP32-160/2 | 96411786 | 96411788 | Baldor | 3/4 | TEFC | 1 | 1.25 | 115/208-230 | 3450 | 9.6/5.3-4.8 | 56.0/31.0-28 |
| | 96411787 | 96411789 | Grundfos | | | 3 | 1.25 | 208-230/460 | 3460 | 2.4-2.3/1.2 | 14.2-15/7.8 |
| TP40-40/4 | 96411790 | 96411792 | Baldor | 1/3 | TEFC | 1 | 1.35 | 115/208-230 | 1725 | 6/3.6-3 | 26.0/14.4-13 |
| | 96411791 | 96411793 | Baldor | | | 3 | 1.35 | 208-230/460 | 1725 | 1.9-1.6/0.8 | 9.7-8.8/4.4 |
| TP40-80/2 | 96411794 | 96411796 | Baldor | 3/4 | TEFC | 1 | 1.25 | 115/208-230 | 3450 | 9.6/5.3-4.8 | 56.0/31.0-28 |
| | 96411795 | 96411797 | Grundfos | | | 3 | 1.25 | 208-230/460 | 3460 | 2.4-2.3/1.2 | 14.2-15/7.8 |
| TP40-160/2 | 96411798 | 96411800 | Baldor | 3/4 | TEFC | 1 | 1.25 | 115/208-230 | 3450 | 9.6/5.3-4.8 | 56.0/31.0-28 |
| | 96411799 | 96411801 | Grundfos | | | 3 | 1.25 | 208-230/460 | 3460 | 2.4-2.3/1.2 | 14.2-15/7.8 |
| TP40-240/2 | 96411802 | 96411804 | Baldor | 1-1/2 | TEFC | 1 | 1.3 | 115/208-230 | 3450 | 17/9.5-8.6 | 106/58.6-53 |
| | 96411803 | 96411805 | Grundfos | | | 3 | 1.15 | 208-230/460 | 3480 | 4.7-4.6/2.3 | 33.8-36.8/18.4 |
| TP50-40/4 | 96411806 | 96411808 | Baldor | 1/3 | TEFC | 1 | 1.35 | 115/208-230 | 1725 | 6/3.6-3 | 26.0/14.4-13 |
| | 96411807 | 96411809 | Baldor | | | 3 | 1.35 | 208-230/460 | 1725 | 1.9-1.6/0.8 | 9.7-8.8/4.4 |
| TP50-80/2 | 96411810 | 96411812 | Baldor | 3/4 | TEFC | 1 | 1.25 | 115/208-230 | 3450 | 9.6/5.3-4.8 | 56.0/31.0-28 |
| | 96411811 | 96411813 | Grundfos | | | 3 | 1.25 | 208-230/460 | 3460 | 2.4-2.3/1.2 | 14.2-15/7.8 |
| TP50-160/2 | 96411814 | 96411816 | Baldor | 1-1/2 | TEFC | 1 | 1.3 | 115/208-230 | 3450 | 17/9.5-8.6 | 106/58.6-53 |
| | 96411815 | 96411817 | Grundfos | | | 3 | 1.15 | 208-230/460 | 3450 | 4.7-4.6/2.3 | 33.8-36.8/18.4 |
| TP50-240/2 | 96411818 | 96411820 | Baldor | 2 | TEFC | 1 | 1.15 | 115/208-230 | 3450 | 23/12.7-11.5 | 156.0/86.2-78 |
| | 96411819 | 96411821 | Grundfos | | | 3 | 1.15 | 208-230/460 | 3510 | 8.9-8.5/4.25 | 60.5-63.8/31.9 |
| TP80-40/4 | 96411823 | 96411825 | Baldor | 1/2 | TEFC | 1 | 1.25 | 115/208-230 | 1725 | 7.4/3.9-3.7 | 33.0/18.2-16.5 |
| | 96411824 | 96411826 | Baldor | | | 3 | 1.25 | 208-230/460 | 1725 | 2.5-2/1 | 14.4-13/6.5 |
| TP80-80/4 | 96411827 | 96411829 | Baldor | 1-1/2 | TEFC | 1 | 1.15 | 115/208-230 | 1725 | 16/8.2-8.0 | 228.0/126.1-114 |
| | 96411828 | 96411830 | Baldor | | | 3 | 1.15 | 208-230/460 | 1725 | 5.3-5/2.5 | 37.6-34.0/17 |
| TP80-160/2 | 96411831 | 96411833 | Baldor | 3 | TEFC | 1 | 1.15 | 115/208-230 | 3450 | 29/16-14.5 | 170.0/94.0-85 |
| | 96411832 | 96411834 | Grundfos | | | 3 | 1.15 | 208-230/460 | 3500 | 8.9-8.5/4.25 | 60.5-63.8/31.9 |
| TP80-240/2 | 96411836 | 96411840 | Baldor | 3 | TEFC | 1 | 1.15 | 115/208-230 | 3450 | 29/16-14.5 | 170.0/94.0-85 |
| | 96411839 | 96411841 | Grundfos | | | 3 | 1.15 | 208-230/460 | 3500 | 8.9-8.5/4.25 | 60.5-63.8/31.9 |
| TP100-40/4 | 96411842 | 96411844 | Baldor | 1 | TEFC | 1 | 1.15 | 115/208-230 | 1725 | 13.0/7.6-6.5 | 74.0/40.9-37 |
| | 96411843 | 96411845 | Baldor | | | 3 | 1.15 | 208-230/460 | 1725 | 3.6-3.4/1.7 | 25.4-23.0/11.5 |
| TP100-80/4 | 96411846 | 96411848 | Baldor | 2 | TEFC | 1 | 1.15 | 115/230 | 1725 | 17.2/8.6 | 234.0/117 |
| | 96411847 | 96411849 | Baldor | | | 3 | 1.15 | 208-230/460 | 1725 | 6.5-6.2/3.1 | 48.7-44.0/22 |
| TP100-160/2 | 96411850 | 96411852 | Baldor | 3 | TEFC | 1 | 1.15 | 115/208-230 | 3450 | 29/16-14.5 | 170.0/94.0-85 |
| | 96411851 | 96411853 | Grundfos | | | 3 | 1.15 | 208-230/460 | 3500 | 8.9-8.5/4.25 | 60.5-63.8/31.9 |

VersaFlo® UPS/TP packaged flange sets ★

| For use w/models | Product numbers | Description |
|------------------------------------|------------------------------------|---|
| Accessories and spare parts | | |
| UPS/TP32-40 | 519603 96409356 | 1-1/4" 1-1/4" Threaded, cast iron threaded, bronze |
| UPS/TP32-80 | 519603 96409356 | 1-1/4" 1-1/4" Threaded, cast iron threaded, bronze |
| UPS/TP32-160UPS/TP40-All | 539605 539615 | 1-1/2" 1-1/2" Threaded, cast iron threaded, bronze |
| UPS/TP50 (All models) | 96409354 96409355 | 2" 2" Threaded, cast iron threaded, bronze |
| UPS/TP80 (All models) | 569601 569611 | 3" 3" Threaded, ANSI 125# Cast iron threaded, ANSI 125# bronze |
| UPS/TP100 (All models) | 579801 96409355 | 4" 4" Threaded, ANSI 125# Cast iron threaded, ANSI 125# cast iron |
| Flange gaskets | | |
| For use w/these flangesets | Product numbers | Description |
| 1-1/4" Threaded | 510179 | Single gasket for 1-1/4" flange |
| 1-1/2" Threaded | 530244 | Single gasket for 1-1/2" flange |
| 2" Threaded | 96409353 | Single gasket for 2" flange single gasket for 3" flange |
| 3" Threaded 125# | 560185 | |
| 4" Threaded 125# | 570008 | Single gasket for 4" flange |

* Flange set includes two (2) flanges, two (2) gaskets, and eight (8) nuts and bolts.

VersaFlo® TP optional shaft seal kits

| VersaFlo TP - Optional shaft seal kits | | | |
|--|---|-------------|----------------|
| For use with these models | Type, seal faces, elastomers | Designation | Product number |
| All VersaFlo TPs | O-ring type, tungsten carbide/ tungsten carbide, EPDM | AUUE | 96409266 |
| For use with glycol/water mixtures | | | |
| For use with these models | Type, seal faces, elastomers | Designation | Product number |
| All VersaFlos | Reduced face O-ring type, tungsten carbide/tungsten carbide, EPDM and FKM | RUUE/V | 985844 |

Submittal data sheet



Company name: _____
Prepared by: _____
Phone number: () - _____
Fax number: () - _____
Date: _____ Page 1 of: _____
Quote number: _____

Submittal Data Sheet

Client Information

| | |
|-------------------------|------------------------------|
| Project title: _____ | Client name: _____ |
| Reference number: _____ | Client number: _____ |
| Client contact: _____ | Client phone no: () - _____ |

Location Information

| | |
|----------------|--|
| For: _____ | Unit: _____ |
| Site: _____ | Service: _____ |
| Address: _____ | City: _____ State: _____ Zip Code: _____ |

Technical Data

Flow (GPM) _____
Head (Ft) _____
Motor _____
Max Fluid Temp _____
Min Fluid Temp _____
Max Working Pressure _____
Min Required Inlet Pressure _____
Connection Type and Size _____

Motor Information

HP: _____
Phase: _____
Voltage: _____
Enclosure: _____

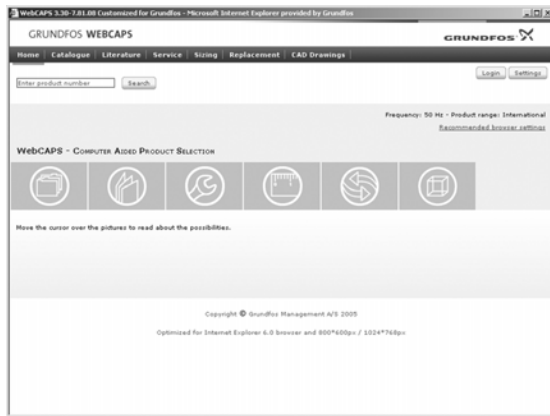
Pump Information

| | |
|---|--------------------------------------|
| Model Information from Type Key and Codes: _____ | |
| Quantity Required: _____ | Example: TP-40-160/2 |
| Minimum required flow: _____ | NPSH required at duty point: _____ |
| Product Guide additional information pages | |
| Materials page number: _____ | Performance curve page number: _____ |
| Technical data page number: _____ | Motor data page number: _____ |

Custom-built pump information (optional): _____

Additional Information

WebCAPS



WebCAPS is a **Web-based Computer Aided Product Selection** program available on www.grundfos.com.

WebCAPS contains detailed information on more than 185,000 Grundfos products in more than 22 languages.

In WebCAPS, all information is divided into 6 sections:

- Catalogue
- Literature
- Service
- Sizing
- Replacement
- CAD drawings.



Catalogue

This section is based on fields of application and pump types, and contains

- technical data
- curves (QH, Eta, P1, P2, etc) which can be adapted to the density and viscosity of the pumped liquid and show the number of pumps in operation
- product photos
- dimensional drawings
- wiring diagrams
- quotation texts, etc.



Literature

In this section you can access all the latest documents of a given pump, such as

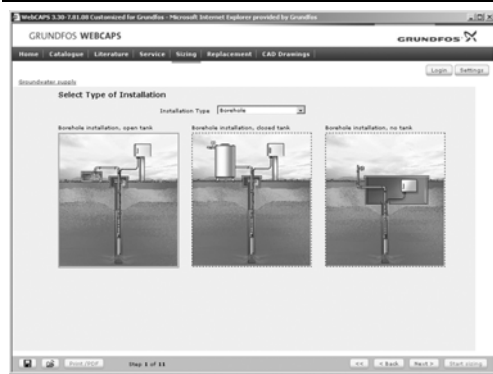
- data booklets
- installation and operating instructions
- service documentation, such as Service kit catalogue and Service kit instructions
- quick guides
- product brochures, etc.



Service

This section contains an easy-to-use interactive service catalogue. Here you can find and identify service parts of both existing and discontinued Grundfos pumps.

Furthermore, this section contains service videos showing you how to replace service parts.



Sizing

This section is based on different fields of application and installation examples, and gives easy step-by-step instructions in how to

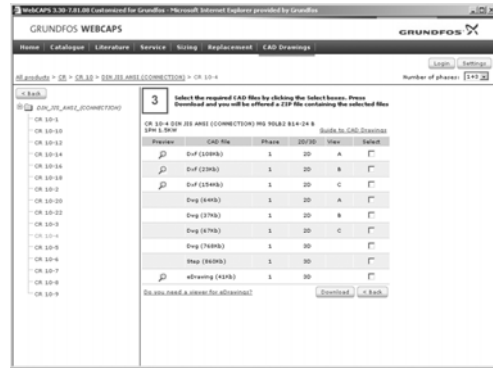
- select the most suitable and efficient pump for your installation
- carry out advanced calculations based on energy consumption, payback periods, load profiles, life cycle costs, etc.
- analyse your selected pump via the built-in life cycle cost tool
- determine the flow velocity in wastewater applications, etc.



Replacement

In this section you find a guide to selecting and comparing replacement data of an installed pump in order to replace the pump with a more efficient Grundfos pump. The section contains replacement data of a wide range of pumps produced by other manufacturers than Grundfos.

Based on an easy step-by-step guide, you can compare Grundfos pumps with the one you have installed on your site. When you have specified the installed pump, the guide will suggest a number of Grundfos pumps which can improve both comfort and efficiency.



CAD drawings

In this section it is possible to download 2-dimensional (2D) and 3-dimensional (3D) CAD drawings of most Grundfos pumps.

These formats are available in WebCAPS:

2-dimensional drawings:

- .dxf, wireframe drawings
- .dwg, wireframe drawings.

3-dimensional drawings:

- .dwg, wireframe drawings (without surfaces)
- .stp, solid drawings (with surfaces)
- .eprt, E-drawings.

WinCAPS



Fig. 5 WinCAPS CD-ROM

WinCAPS is a **Windows-based Computer Aided Product Selection** program containing detailed information on more than 185,000 Grundfos products in more than 22 languages.

The program contains the same features and functions as WebCAPS, but is an ideal solution if no Internet connection is available.

WinCAPS is available on CD-ROM and updated once a year.

| | |
|--------------------------|-----------|
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