



**MULTISTAGE CENTRIFUGAL PUMP**

## **Immersible Pumps**

**TPK 2T/4T 60Hz**



**Walrus America Inc**  
**ISO 9001 Certified**



## Applications

The WALRUS TPK Series are vertical multistage centrifugal pumps, designed for industrial use, specially for machine tools, to carry non-aggressive liquids such as water, coolant, light oil, etc.

- Industrial circulation system
- Washing/cleaning system
- Filtration system

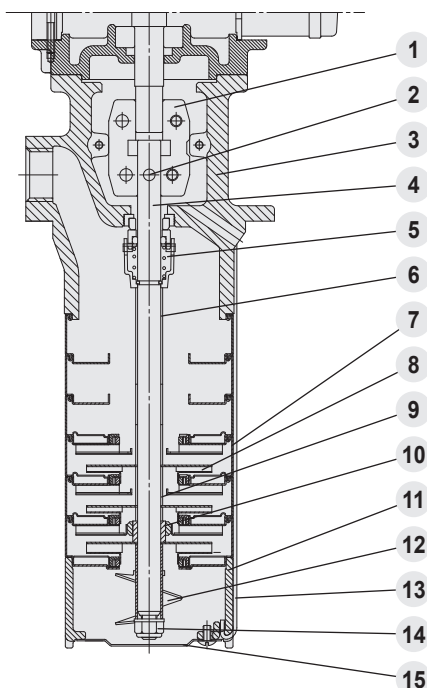
## Motors

Nominal speed :3500 rpm at 60Hz  
 Standard voltage : 3 phase : 230 / 460V  
 Protection class: IP54  
 Insulation class: F.

## Operating limits

Ambient temperature :Max. 104°F (40°C)  
 Liquid temperature range :32°F(0°C) to 194°F(90°C)  
 Flow: 4 GPM to 26 GMP  
 Head: 20ft to 210ft  
 Operating pressure :Max. 142 psi  
 Submerged depth :Min. 2.6"

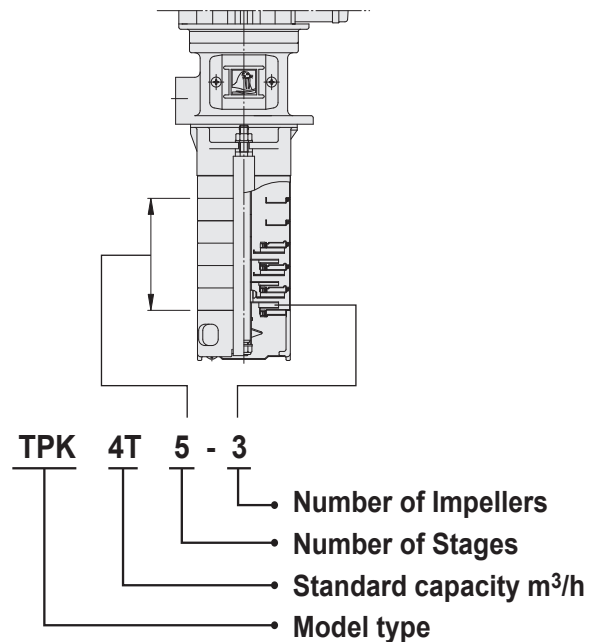
## Sectional Drawing



## Pumps

Immersible vertical multistage centrifugal pump, self-priming, coupling connection between pump and motor, stainless steel construction design ensures corrosion-free operation.

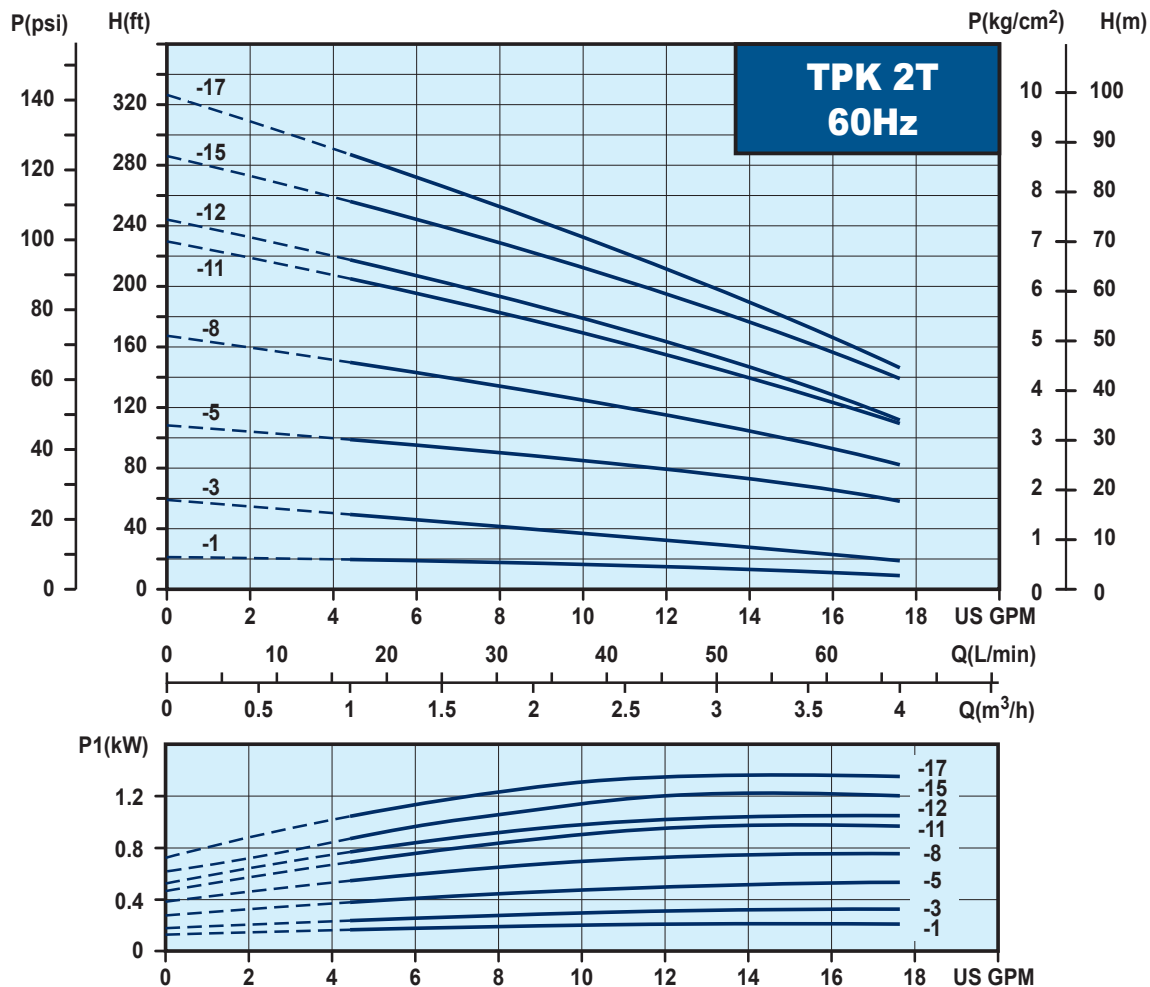
## Model code



## Materials

| No. | Part name               | Material          |
|-----|-------------------------|-------------------|
| 1   | Coupling                | ADC 6             |
| 2   | Shaft pin               | SUS 304           |
| 3   | Pump head               | Cast iron FCD 45  |
| 4   | Shaft                   | SUS 304           |
| 5   | Mechanical seal         | SiC + SiC + Viton |
| 6   | Sleeve                  | SUS 304           |
| 7   | Intermediate chamber    | SUS 304           |
| 8   | Impeller                | SUS 304           |
| 9   | Sleeve (impeller)       | SUS 304           |
| 10  | Bearing ring            | Tungsten carbide  |
| 11  | Suction intercon-nector | SUS 304           |
| 12  | Priming screw           | SUS 304           |
| 13  | Strap                   | SUS 304           |
| 14  | Lock nut                | SUS 316           |
| 15  | Filter                  | SUS 304           |

## Performance curves



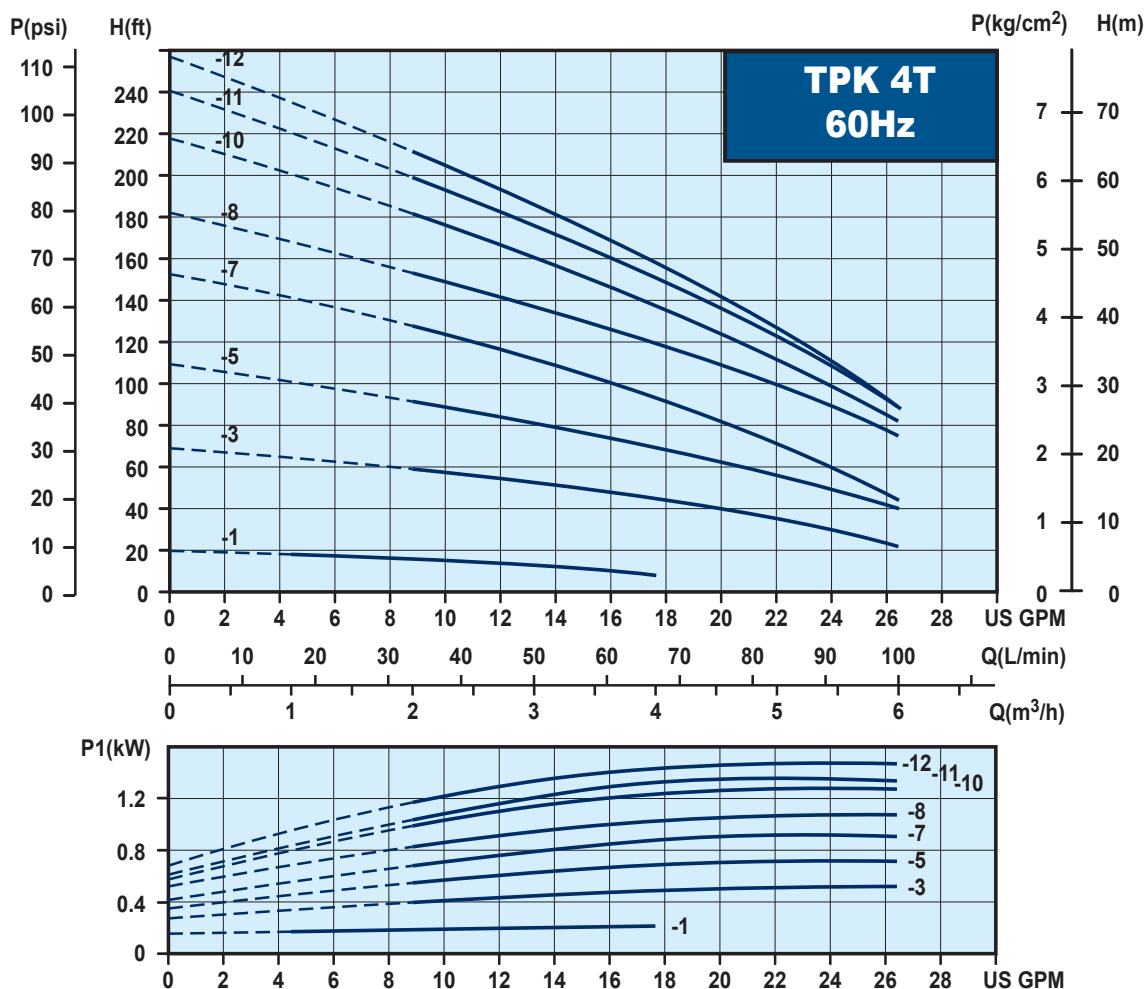
## Electrical data, 3Ø 60Hz , 3500rpm

| Model         | Volts (V) | Power (HP) | Ampere (A) |
|---------------|-----------|------------|------------|
| TPK 2T ** - 1 | 230 / 460 | 1/4        | 1.2 / 0.6  |
| TPK 2T ** - 3 | 230 / 460 | 1/4        | 1.2 / 0.6  |
| TPK 2T ** - 5 | 230 / 460 | 1/2        | 3.2 / 1.6  |
| TPK 2T ** - 8 | 230 / 460 | 1/2        | 3.2 / 1.6  |
| TPK 2T ** -11 | 230 / 460 | 3/4        | 4.8 / 2.4  |
| TPK 2T ** -12 | 230 / 460 | 3/4        | 4.8 / 2.4  |
| TPK 2T ** -15 | 230 / 460 | 1          | 5.2 / 2.6  |
| TPK 2T ** -17 | 230 / 460 | 1          | 5.2 / 2.6  |

\*\* = Number of Stages, maximum 19 stages.



## Performance curves



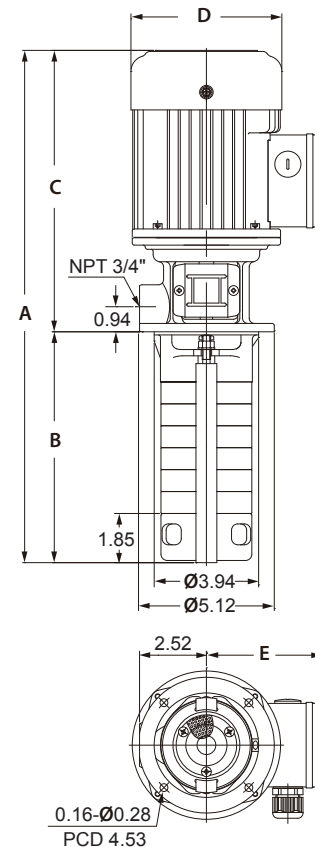
## Electrical data, 3Ø 60Hz , 3500rpm

| Model         | Volts (V) | Power (HP) | Ampere (A) |
|---------------|-----------|------------|------------|
| TPK 4T ** - 1 | 230 / 460 | 1/4        | 1.2 / 0.6  |
| TPK 4T ** - 3 | 230 / 460 | 1/2        | 3.2 / 1.6  |
| TPK 4T ** - 5 | 230 / 460 | 1/2        | 3.2 / 1.6  |
| TPK 4T ** - 7 | 230 / 460 | 3/4        | 4.8 / 2.4  |
| TPK 4T ** - 8 | 230 / 460 | 3/4        | 4.8 / 2.4  |
| TPK 4T ** -10 | 230 / 460 | 3/4        | 4.8 / 2.4  |
| TPK 4T ** -11 | 230 / 460 | 1          | 5.2 / 2.6  |
| TPK 4T ** -12 | 230 / 460 | 1          | 5.2 / 2.6  |

\*\* = Number of Stages, maximum 19 stages.

## Dimensions and weights

| Model       | A<br>(in.) | B<br>(in.) | C<br>(in.) | D<br>(in.) | E<br>(in.) | N.W.(lb) |
|-------------|------------|------------|------------|------------|------------|----------|
| TPK2T 5 - 1 | 18.94      | 8.70       | 10.24      | 4.84       | 3.90       | 19.18    |
| TPK2T 3 - 3 | 17.28      | 7.05       | 10.24      | 4.84       | 3.90       | 19.18    |
| TPK2T 5 - 3 | 18.94      | 8.70       | 10.24      | 4.84       | 3.90       | 19.62    |
| TPK2T 8 - 3 | 21.42      | 11.18      | 10.24      | 4.84       | 3.90       | 20.28    |
| TPK2T 11- 3 | 23.90      | 13.66      | 10.24      | 4.84       | 3.90       | 21.16    |
| TPK2T 5 - 5 | 19.33      | 8.70       | 10.63      | 5.69       | 4.37       | 26.68    |
| TPK2T 8 - 5 | 21.81      | 11.18      | 10.63      | 5.69       | 4.37       | 27.34    |
| TPK2T 10- 5 | 23.47      | 12.83      | 10.63      | 5.69       | 4.37       | 27.78    |
| TPK2T 11- 5 | 24.29      | 13.66      | 10.63      | 5.69       | 4.37       | 28.00    |
| TPK2T 15- 5 | 27.60      | 16.97      | 10.63      | 5.69       | 4.37       | 28.66    |
| TPK2T 8 - 8 | 21.81      | 11.18      | 10.63      | 5.69       | 4.37       | 28.00    |
| TPK2T 11- 8 | 24.29      | 13.66      | 10.63      | 5.69       | 4.37       | 28.66    |
| TPK2T 11-11 | 25.87      | 13.66      | 12.20      | 5.69       | 4.37       | 31.53    |
| TPK2T 15-12 | 29.17      | 16.97      | 12.20      | 5.69       | 4.37       | 31.97    |
| TPK2T 15-15 | 29.17      | 16.97      | 12.20      | 5.69       | 4.37       | 33.07    |
| TPK2T 19-15 | 32.48      | 20.27      | 12.20      | 5.69       | 4.37       | 33.95    |
| TPK2T 19-17 | 32.48      | 20.27      | 12.20      | 5.69       | 4.37       | 34.83    |
|             |            |            |            |            |            |          |
| TPK4T 3 - 1 | 17.28      | 7.05       | 8.90       | 4.84       | 3.90       | 18.52    |
| TPK4T 5 - 1 | 18.94      | 8.70       | 8.90       | 4.84       | 3.90       | 19.18    |
| TPK4T 3 - 3 | 17.68      | 7.05       | 10.63      | 5.69       | 4.37       | 26.01    |
| TPK4T 5 - 3 | 19.33      | 8.70       | 10.63      | 5.69       | 4.37       | 26.46    |
| TPK4T 8 - 3 | 21.81      | 11.18      | 10.63      | 5.69       | 4.37       | 27.12    |
| TPK4T 19- 3 | 30.91      | 20.27      | 10.63      | 5.69       | 4.37       | 29.54    |
| TPK4T 5 - 5 | 19.33      | 8.70       | 10.63      | 5.69       | 4.37       | 26.68    |
| TPK4T 8 - 5 | 21.81      | 11.18      | 10.63      | 5.69       | 4.37       | 27.34    |
| TPK4T 11- 5 | 24.29      | 13.66      | 10.63      | 5.69       | 4.37       | 28.00    |
| TPK4T 15- 5 | 27.60      | 16.97      | 10.63      | 5.69       | 4.37       | 28.66    |
| TPK4T 19- 5 | 30.91      | 20.27      | 10.63      | 5.69       | 4.37       | 29.32    |
| TPK4T 19- 7 | 32.48      | 20.27      | 12.20      | 5.69       | 4.37       | 32.63    |
| TPK4T 8 - 8 | 23.39      | 11.18      | 12.20      | 5.69       | 4.37       | 30.42    |
| TPK4T 11- 8 | 25.87      | 13.66      | 12.20      | 5.69       | 4.37       | 31.09    |
| TPK4T 15- 8 | 29.17      | 16.97      | 12.20      | 5.69       | 4.37       | 31.75    |
| TPK4T 19- 8 | 32.48      | 20.27      | 12.20      | 5.69       | 4.37       | 32.63    |
| TPK4T 11-10 | 25.87      | 13.66      | 12.20      | 5.69       | 4.37       | 31.31    |
| TPK4T 15-10 | 29.17      | 16.97      | 12.20      | 5.69       | 4.37       | 31.97    |
| TPK4T 19-10 | 32.48      | 20.27      | 12.20      | 5.69       | 4.37       | 32.85    |
| TPK4T 11-11 | 25.87      | 13.66      | 12.20      | 5.69       | 4.37       | 31.53    |
| TPK4T 15-12 | 29.17      | 16.97      | 12.20      | 5.69       | 4.37       | 32.19    |
| TPK4T 19-12 | 32.48      | 20.27      | 12.20      | 5.69       | 4.37       | 32.63    |





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