

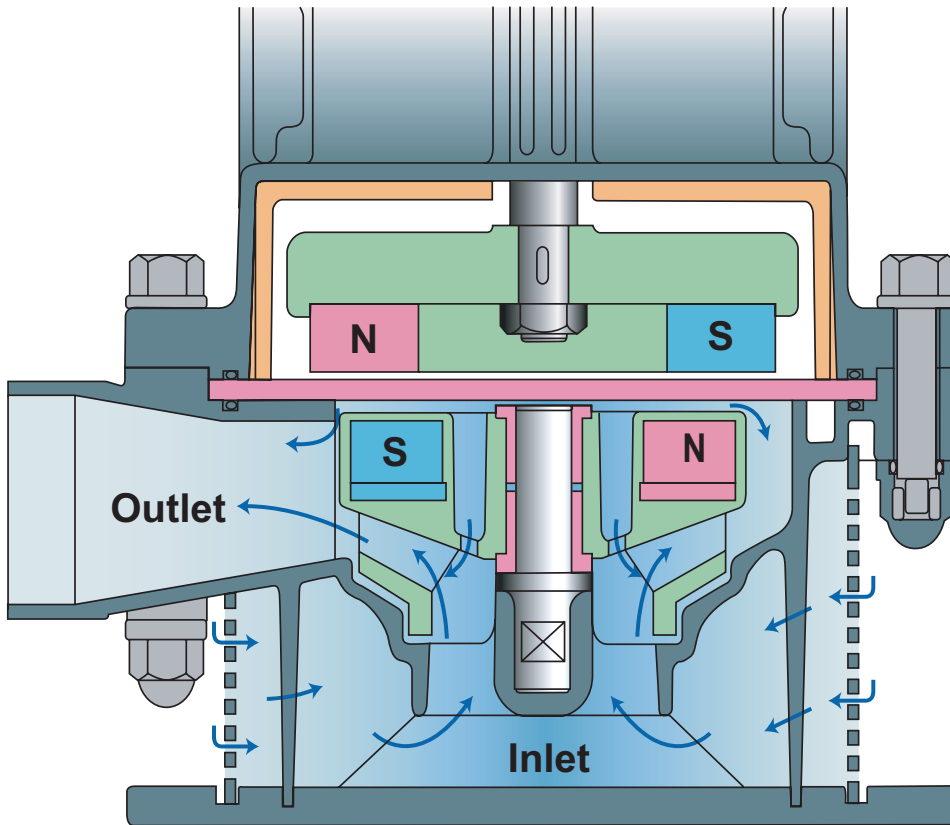
**YD-GW
Series**

Sealless Submersible Magnetic Pump



For pumping from a chemical tank
For mixing, agitation and emergency situations

DISK TYPE MAGNETIC DRIVE SYSTEM



Magnetic coupling prevents leakage into the motor

The driving magnet on the motor side and the driven magnet on the pump side rotate around a robust ceramic separating board. This magnetic coupling method separates the motor chamber and the pump chamber completely, preventing liquid leakage into the motor chamber.

FEATURES

1. The world's first fully corrosion-resistant, non-metallic magnetic drive submersible pump for acids and alkalis

Our submersible pump is made of carbon fiber reinforced polypropylene (CFR PP) for the main pump body, and high-purity ceramic or Rulon® for critical parts. No metal is used in wetted parts. Due to the corrosion resistant materials, our submersible pump is perfect for acidic and alkaline solutions.

2. A built-in thermal protector for automatic motor shutdown

When temperatures reach abnormal levels due to electrical or mechanical factors during operation, the built-in thermal protector automatically shuts off the pump. Any abnormal load, single-phase operation or liquid temperatures exceeding the maximum limit are detected to prevent failures.

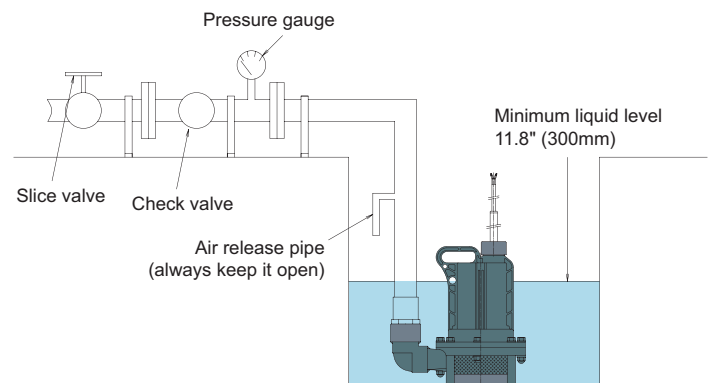
3. Lightweight construction and easy handling in emergency situations

For example, the YD-502/512GW weighs 57.3 lbs. (26 kg). With convenient grip handles, these pumps can be transported quickly in the event of an emergency. It can be used at any location where an electric power supply is available.

APPLICATIONS

- For pumping from a chemical tank
- For pumping from a tank where the surface liquid may freeze
- For pumping from a sump pit at a breakwater
- For pumping from a tank with foamy liquid
- For pumping from an underground tank
- For scrubber systems
- For mixing and agitation
- For emergency situations

EXAMPLE OF INSTALLATION



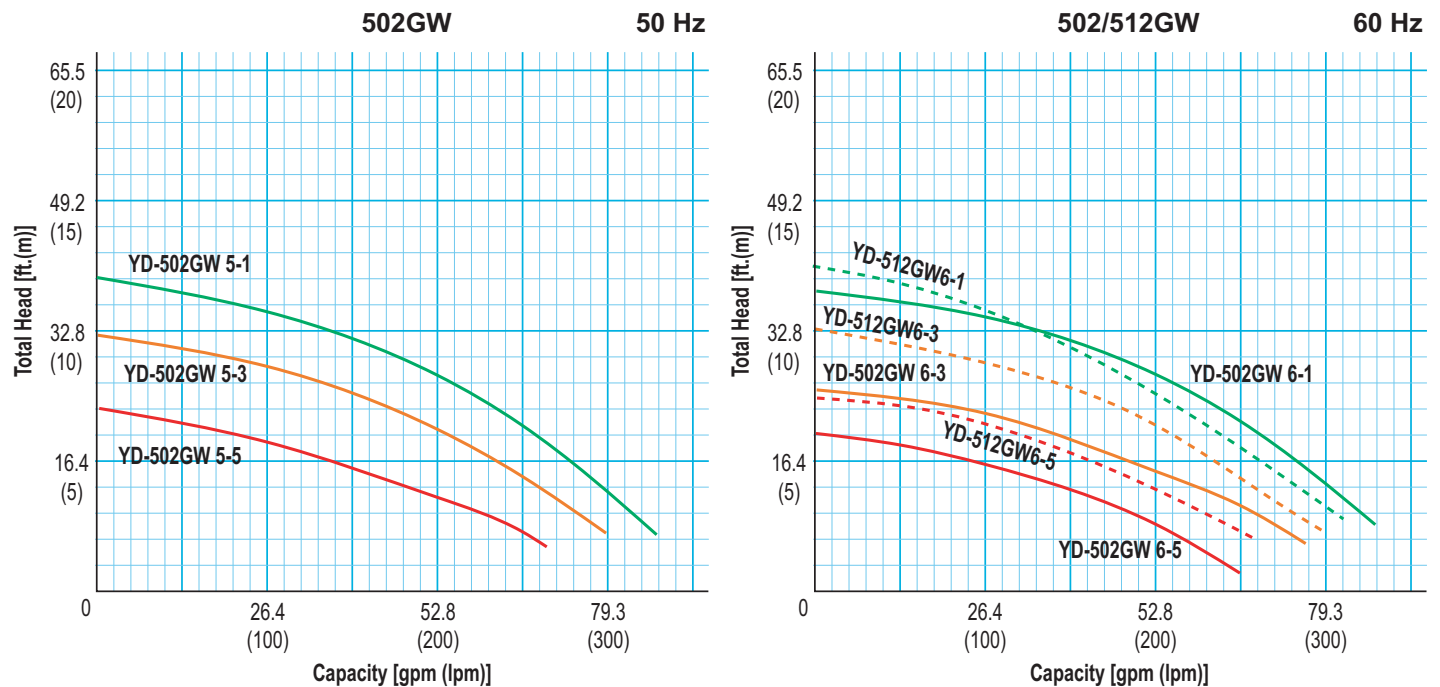
MODEL DESIGNATION

Y D - 5 0 2 G W - A D 6 - 1 H

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)

- | | | | | |
|---|--|---|--|---|
| <p>(1) Discharge Bore 50 : 2.0" (50mm)</p> | <p>(3) Motor Output 2 : 1.1 kW</p> | <p>(5) Bushing Material A : Ceramics R : Rulon®</p> | <p>(7) Frequency 5 : 50 Hz 6 : 60 Hz</p> | <p>(9) Heat Resistant Cable None : 131 °F H : 167 °F</p> |
| <p>(2) Pump Head 0 : Standard Pump Head 1 : High Pump Head</p> | <p>(4) Type GW : Submersible pump</p> | <p>(6) *O-ring Material D : FPM <small>* EPDM o-rings are also available upon request.</small></p> | <p>(8) Specific Gravity 1 : 1.1 3 : 1.3 5 : 1.5</p> | |

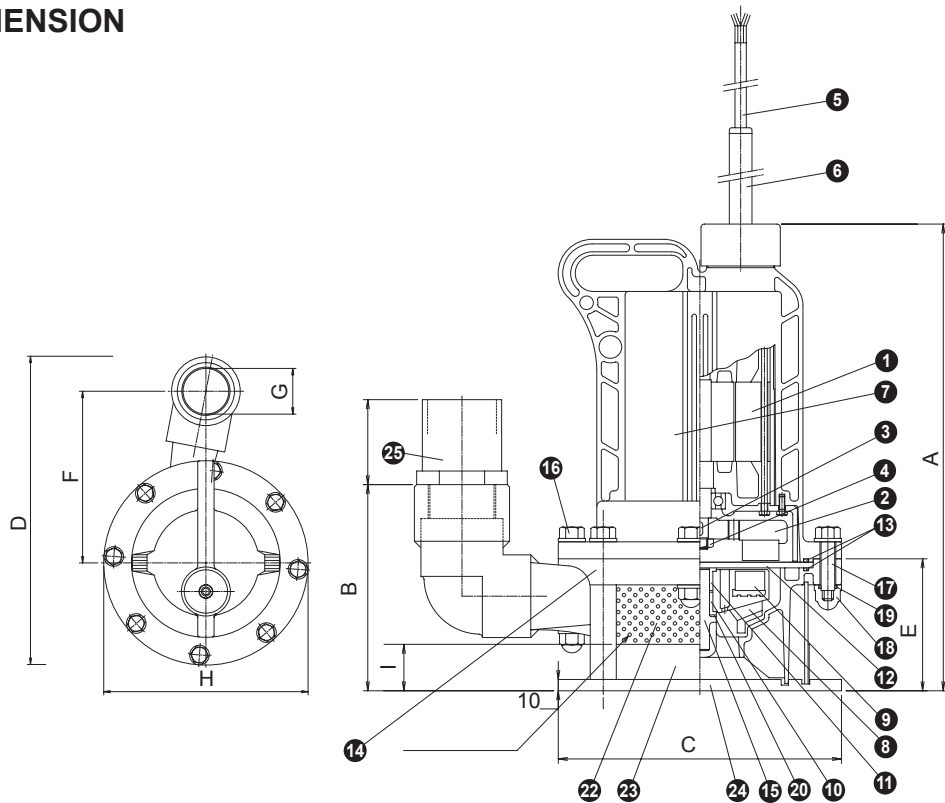
PERFORMANCE CURVES (Three Phase)



SPECIFICATION

| MODEL | DISCHARGE BORE | SPECIFIC GRAVITY | MAX HEAD - MAX CAPACITY | | MOTOR OUTPUT | WEIGHT [lbs. (kg)] |
|----------|----------------|------------------|-------------------------|-------------|--------------|--------------------|
| | | | 50 Hz | 60 Hz | | |
| | | | [m - lpm] | [ft. - gpm] | | |
| YD-502GW | 2" (50mm) | 1.1 | 12.0 - 330 | 34.5 - 85.8 | 1.1 kW | 57 (26) |
| | | 1.3 | 9.8 - 300 | 25.7 - 75.4 | | |
| | | 1.5 | 7.0 - 265 | 20.0 - 65.0 | | |
| YD-512GW | 2" (50mm) | 1.1 | - | 42.0 - 80.8 | 1.1 kW | 57 (26) |
| | | 1.3 | - | 33.0 - 78.0 | | |
| | | 1.5 | - | 25.0 - 67.6 | | |

■ OUTLINE DIMENSION



Unit: inch (mm)

| MODEL | A | B | C | D | E | F | G | H | I |
|--------------|---------------|--------------|--------------|---------------|----------------|--------------|-------------|--------------|-------------|
| YD-502/512GW | 16.2 (412) | 7.2 (182) | 9.8 (250) | 14.6 (372) | 4.6 (116.5) | 8.3 (210) | 7.6 (70) | 9.8 (250) | 1.6 (41) |

* Measurements are subject to change without notice.

■ PARTS DESCRIPTION

| NO. | PART NAME | MATERIAL | QTY |
|-----|------------------------------|--------------------|-----|
| 1 | Motor | Dry induction type | 1 |
| 2 | Drive magnet | Ferrite magnet | 1 |
| 3 | Magnet key on the motor side | SS | 1 |
| 4 | Magnet nut on the motor side | SS | 1 |
| 5 | Cabtire cable | VCT/2PNCT | 1 |
| 6 | Cabtire cable sleeve | S. PVC | 1 |
| 7 | Motor cover | CFR PP | 1 |
| 8 | Impeller | CFR PP | 1 |
| 9 | Magnet on the impeller side | Ferrite magnet | 1 |
| 10 | Front bushing | Rulon® / Ceramics | 1 |
| 11 | Rear bushing | Rulon® | 1 |
| 12 | Separating board | Ceramics | 1 |
| 13 | O-rings | EPDM / FPM | 2 |
| 14 | Casing | CFR PP | 1 |

| NO. | PART NAME | MATERIAL | QTY |
|-----|--------------------------|------------|-----|
| 15 | Pump shaft | SiC | 1 |
| 16 | Set bolt 92 | CFR PP | 1 |
| 17 | Set bolts 52 | CFR PP | 7 |
| 18 | Nuts for set bolt | CFR PP | 4 |
| 19 | O-rings | EPDM / FPM | 8 |
| 20 | Floating washer | Rulon®* | 1 |
| 21 | Stand bolts** | HT.PVC | 4 |
| 22 | Strainer | PP | 1 |
| 23 | Sludge fence | PP | 1 |
| 24 | Bottom board | PP | 1 |
| 25 | 50A valve socket | PVC | 1 |
| 26 | Hose coupling*** | PVC | 1 |
| 27 | Hose holder*** | PVC | 1 |
| 28 | Valve socket for hose*** | PVC | 1 |

* For ceramic bushing only
 ** Not shown in the figure
 *** Optional for hose connection



Distributed by:

JH Process Equipment, Inc.
 617 Jeffers Circle, Exton, PA 19341
 Business: 610.903.0900 Fax: 610.903.0907