



# SHIN SHIN For PISTON PUMP

Since 1969, Reliable pump manufacturer of more than half a century.

# Introduction of Shin Machinery Co., Ltd.

## In 1969

Established Shin Shin Machinery Co., Ltd.

## In 1987

Concluded license agreement with Sulzer Brothers, Switzerland

## In 1992

Concluded license agreement with Hamworthy pumps & Compressors, U.K.

## In 1995

Acquired ISO 9001 quality certificate

## In 1997

Nominated as manufacturer of Nuclear "Q" class pumps by Korea Electricity Power Corporation

## In 1999

Acquired CE mark certificate [ No. M8 99 12 38460 001 ]

## In 2010

Developed ISO 2858/5199 Chemical Process Pump

## In 2011

Acquired ASME certificate

## In 2014

Acquired OHSAS 18001 & ISO 14001 certificate

## In 2015

Site Contract for building new factory [ 33,000m<sup>2</sup> ]

## In 2015~2017

Developed ASME B73.1 Chemical Process pump

## In 2020

Patent for method of manufacturing impellers of fluid pump using composite materials



### Brief Company Profile

Established in 1969



### Location of Head Office and Factory

Busan, Korea



### Typical Products

Centrifugal Pump, Double Suction Pump, Axial Flow Pump, Boiler Feed Water Pump, Rotary Gear Pump and Screw Pump



### Number of employee

160



### Sale Volume

USD50 Million

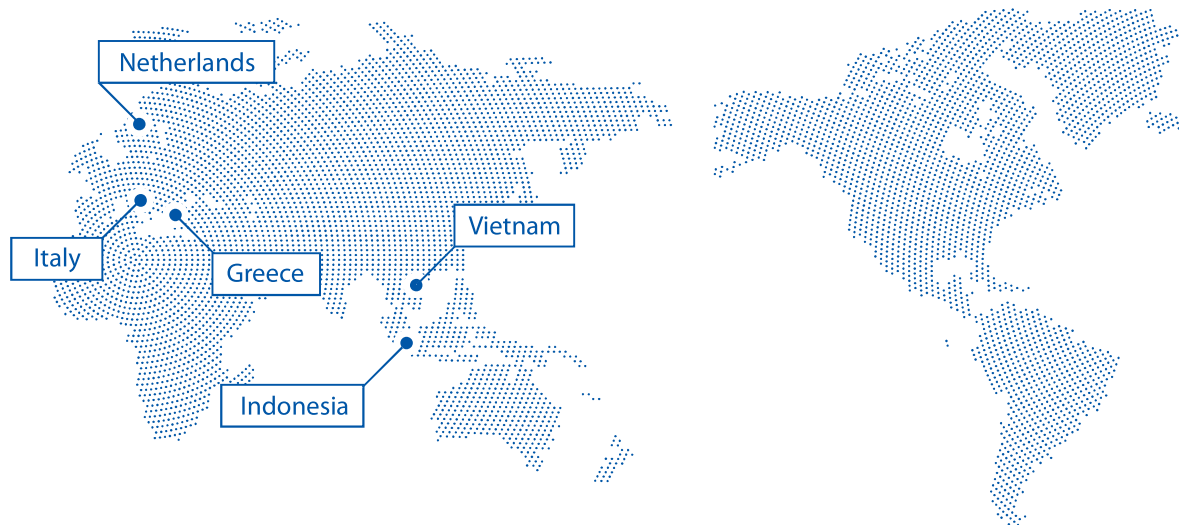
## Certificate of Registration





## Service Networks

Overseas Major Sales & Service Branches  
(Indonesia, Vietnam, Greece, Italy, Netherlands)



## Applied Industries



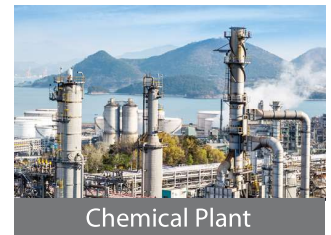
Nuclear & Power Plant



Marine



WWT



Chemical Plant

## Affiliated Companies



**HANHWANG IND.CO., LTD.**

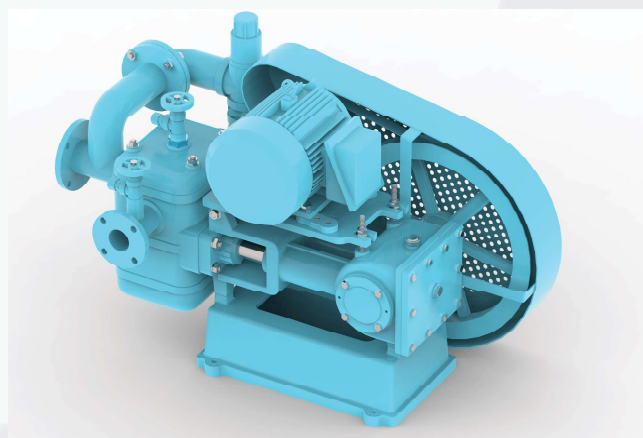
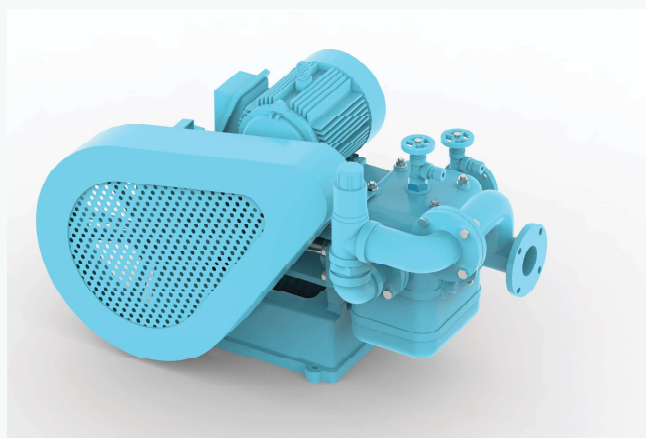
|                |                                                         |
|----------------|---------------------------------------------------------|
| Foundation     | 1973.03                                                 |
| Area           | 20,620m <sup>2</sup>                                    |
| Total Asset    | USD43.1 Million                                         |
| Turnover       | USD64 Million                                           |
| Capacity       | 3,200[Ton/Month]                                        |
| Major Customer | Hitachi, Hyundai, Caterpillar, Enercon, Kubota, Komatsu |



**SHINHAN METAL CO., LTD.**

|                |                                  |
|----------------|----------------------------------|
| Foundation     | 1995.12                          |
| Area           | 3,326m <sup>2</sup>              |
| Total Asset    | USD9.9 Million                   |
| Turnover       | USD10.4 Million                  |
| Capacity       | 417[Ton/Month]                   |
| Major Customer | Doosan Engine, HHI, Hitachi, STX |

## D10 Series PISTON PUMP



### APPLICATIONS

- Bilge pump
- Sludge pump
- Other

### FEATURES

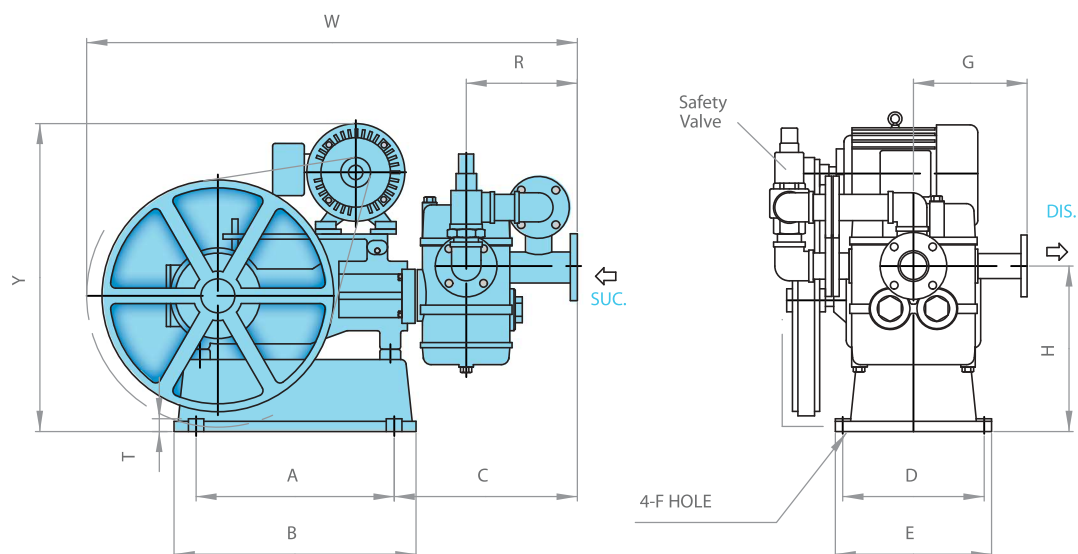
- Easily conveyable high viscous and high dense material
- High suction capability
- Good performance and long life time

### Principal Particulars (PISTON)

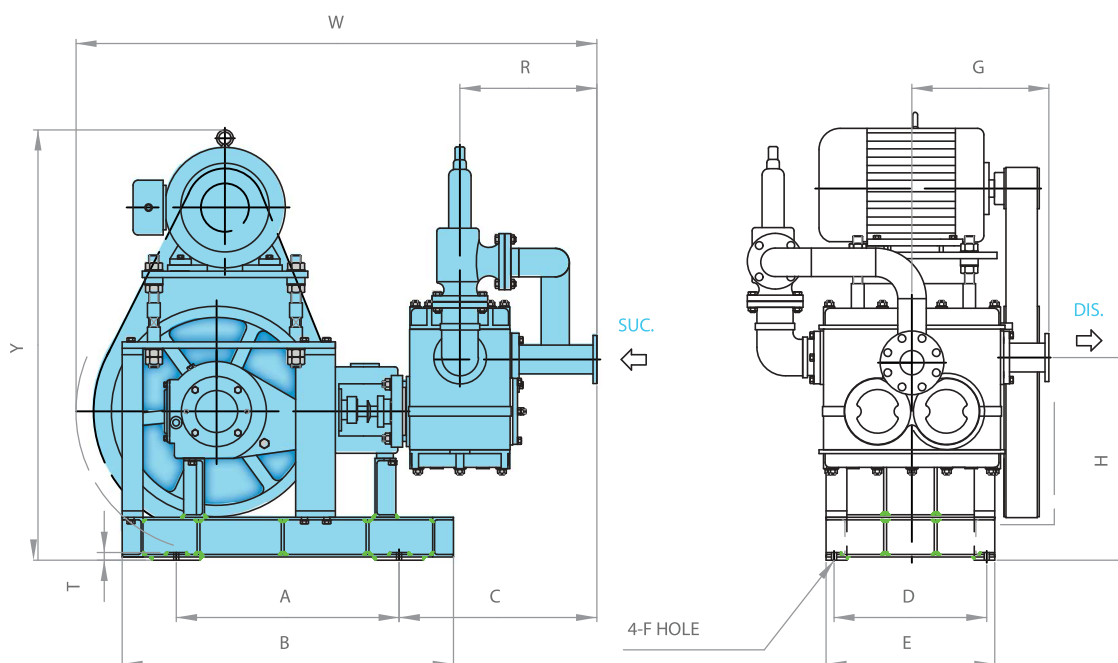
| Item \ Model                   | D101                         | D102 | D103 | D104 | D105 | D106 |
|--------------------------------|------------------------------|------|------|------|------|------|
| Suction bore (mm)              | 32                           | 50   | 65   | 80   | 100  | 100  |
| Discharge bore (mm)            | 25                           | 40   | 50   | 65   | 80   | 100  |
| Stuffing box seal              | Gland packing                |      |      |      |      |      |
| Pressure (Kg/cm <sup>2</sup> ) | Up to 5 Kg / cm <sup>2</sup> |      |      |      |      |      |
| Capacity(m <sup>3</sup> /hr)   | 2                            | 5    | 10   | 20   | 25   | 35   |

# Outline Dimensions

<FIG. A>



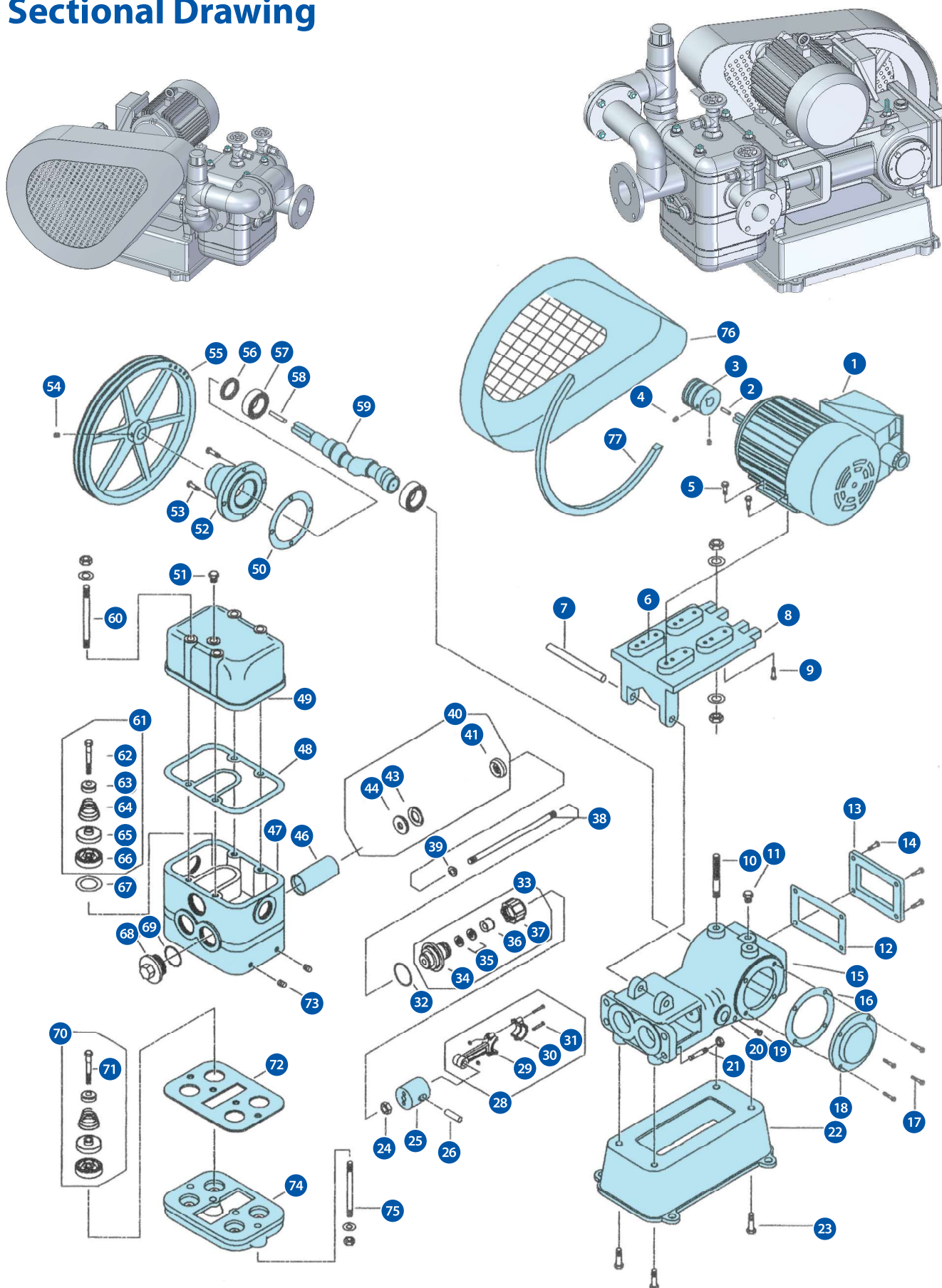
<FIG. B>



(PUMP DIMENSIONS : MM)

| Model | FIG.   | SucØ | DisØ | A   | B    | C   | D   | E   | F   | G   | H   | R   | T  | W    | Y    |
|-------|--------|------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|----|------|------|
| D101  | FIG. A | 32   | 25   | 245 | 330  | 320 | 185 | 220 | Ø13 | 165 | 225 | 200 | 15 | 700  | 490  |
| D102  | FIG. A | 50   | 40   | 385 | 480  | 355 | 274 | 315 | Ø14 | 220 | 320 | 215 | 25 | 955  | 625  |
| D103  | FIG. A | 65   | 50   | 385 | 480  | 380 | 274 | 315 | Ø14 | 240 | 340 | 215 | 25 | 990  | 650  |
| D104  | FIG. A | 80   | 65   | 490 | 635  | 535 | 370 | 420 | Ø16 | 300 | 440 | 350 | 19 | 1460 | 760  |
| D105  | FIG. A | 100  | 80   | 630 | 770  | 372 | 378 | 410 | Ø16 | 340 | 450 | 300 | 20 | 1270 | 850  |
| D106  | FIG. B | 100  | 100  | 925 | 1375 | 820 | 635 | 700 | Ø16 | 570 | 840 | 570 | 30 | 2155 | 1785 |

## Sectional Drawing

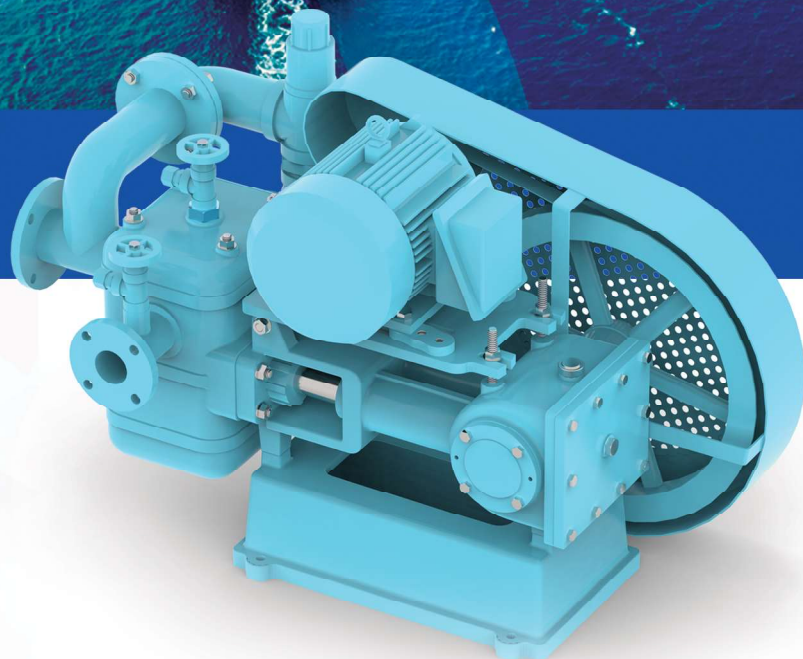




## SECTIONAL DRAWING PART LIST

| Part NO | Name of part            | Material | Q'ty | Part NO | Name of part             | Material | Q'ty |
|---------|-------------------------|----------|------|---------|--------------------------|----------|------|
| 1       | Motor                   | -        | 1    | 39      | Oil cover O-ring         | NBR      | 2    |
| 2       | Shaft key               | SM 45C   | 1    | 40      | Piston complete          | -        | 2    |
| 3       | Motor pulley            | GC 200   | 1    | 41      | Piston nut               | STS 304  | 2    |
| 4       | Lock bolt               | SS 400   | 2    | 43      | Piston V-packing         | NBR      | 2    |
| 5       | Bolt                    | SS 400   | 4    | 44      | Piston washer            | STS 304  | 2    |
| 6       | Skid Shoe               | GC 200   | 4    | 46      | Cylinder liner           | BC       | 2    |
| 7       | Skid pin                | SS 400   | 1    | 47      | Cylinder housing         | GC 200   | 1    |
| 8       | Motor skid              | GC 200   | 1    | 48      | Upper chamber gasket     | NBR      | 1    |
| 9       | Bolt                    | SS 400   | 4    | 49      | Upper chamber            | GC 200   | 1    |
| 10      | Stud bolt/nut           | SS 400   | 2    | 50      | Gasket                   | PAPER    | 1    |
| 11      | Top plug                | PLASTIC  | 1    | 51      | Plug                     | BC       | 1    |
| 12      | Gasket                  | PAPER    | 1    | 52      | Pulley side cover        | GC 200   | 2    |
| 13      | Crank case cover        | GC 200   | 1    | 53      | Cover bolt               | SS 400   | 4    |
| 14      | Bolt                    | SS 400   | 4    | 54      | Lock bolt                | SS 400   | 1    |
| 15      | Pump body               | GC 200   | 1    | 55      | Pump pulley              | GC 200   | 1    |
| 16      | Gasket                  | PAPER    | 1    | 56      | Oil seal                 | NBR      | 1    |
| 17      | Bolt                    | SS 400   | 4    | 57      | Crank shaft bearing      | -        | 2    |
| 18      | Main bearing cover      | GC 200   | 1    | 58      | Shaft key                | SM 45C   | 1    |
| 19      | Plug                    | BC       | 1    | 59      | Crank shaft              | GCD 450  | 1    |
| 20      | Sight glass             | PLASTIC  | 1    | 60      | Stud bolt/nut            | SS 400   | 4    |
| 21      | Stud bolt/nut           | SS 400   | 2    | 61      | Discharge valve complete | -        | 4    |
| 22      | Pump bed                | GC 200   | 1    | 62      | Valve guide(discharge)   | STS 304  | 4    |
| 23      | Bed mounting bolt       | SS 400   | 4    | 63      | Spring seat              | STS 304  | 8    |
| 24      | Piston rod nut          | SS 400   | 2    | 64      | Valve spring             | STS 304  | 8    |
| 25      | Crosshead               | GCD 450  | 2    | 65      | Valve                    | NBR      | 8    |
| 26      | Crosshead pin           | SM 45C   | 2    | 66      | Valve seat               | C2600    | 8    |
| 28      | Connecting rod complete | -        | 2    | 67      | Valve seat gasket        | NBR      | 4    |
| 29      | Connecting rod body     | GCD 450  | 2    | 68      | Cylinder cover           | GC 200   | 2    |
| 30      | Connecting rod cover    | GCD 450  | 2    | 69      | O-ring                   | NBR      | 2    |
| 31      | Bolt/nut                | SM 45C   | 4    | 70      | Suction valve complete   | -        | 4    |
| 32      | O-ring                  | NBR      | 2    | 71      | Valve guide(suction)     | STS 304  | 4    |
| 33      | Stuffing box complete   | -        | 2    | 72      | Lower chamber gasket     | NBR      | 1    |
| 34      | Stuffing box body       | GC 200   | 2    | 73      | Drain plug               | BC       | 5    |
| 35      | Gland packing           | PTFE     | 2    | 74      | Lower chamber            | GC 200   | 1    |
| 36      | Packing retainer        | BC       | 2    | 75      | Stud bolt/nut            | SS 400   | 4    |
| 37      | End cover               | BC       | 2    | 76      | V-belt cover             | SS 400   | 1    |
| 38      | Piston rod              | STS 304  | 2    | 77      | V-belt                   | RUBBER   | 2    |

2021.08 VER-0



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