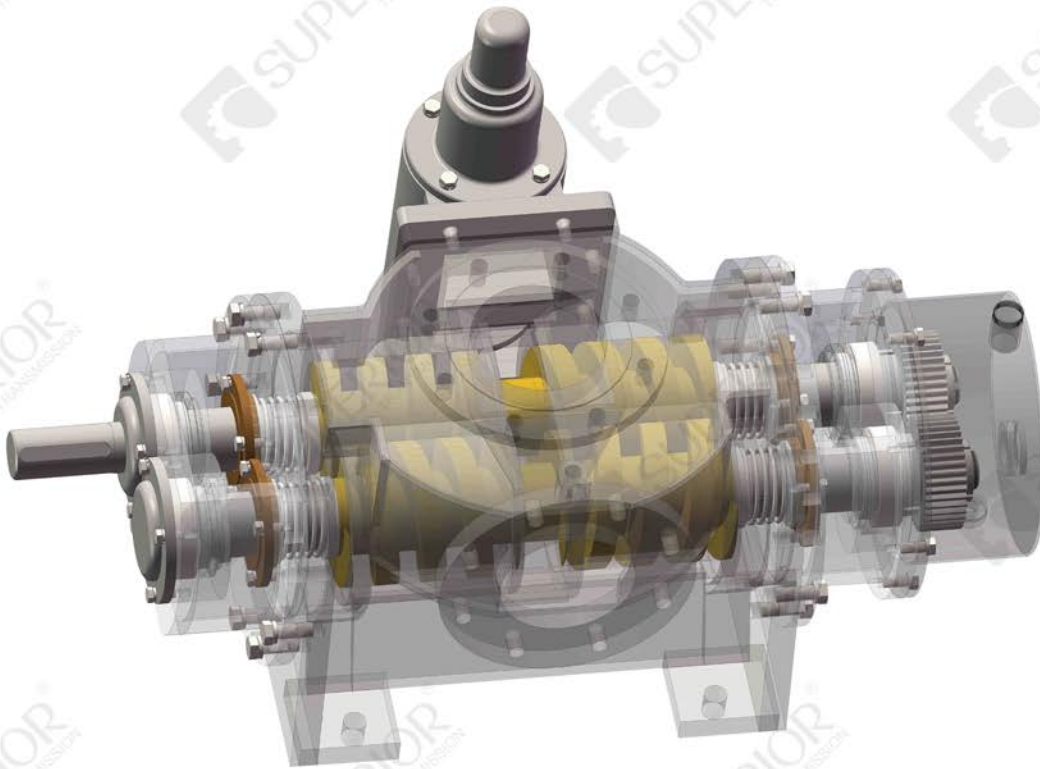




# PRODUCT CATALOGUE

[www.superiortransmission.co.id](http://www.superiortransmission.co.id)



## Pump Instruction

### Application fields of twin screw pump:

1. Oil field: transporting a variety of oil, sewage, sump oil, polymer, crude oil (oil-gas mixture transportation).
2. Ship-building industry: used as marine cargo oil pump, sweeping-cabin pump, marine ballast pump, main engine lubricating oil pump, loading pump and so on.
3. Transportation and storage of petroleum product: used for oil storage, wharf, loading and unloading oil and transferring various oil products.
4. Petrochemical industry: a transportation and ejection pump for all kinds of acid, alkali, saline liquid and resin, pigment, printing ink, paint, glycerol, paraffin and so on.
5. Thermal power plant: as heavy oil and thick oil transfer pump, heavy oil and fuel pump, fuel ejection pump.
6. Food industry: to transport alcohol, honey, syrup, toothpaste, milk, cream, soy, plant oil, animal oil, wine and so on in distillery, food products factory, canning factory and so on.
7. Paint industry: the barrel loading pump and backward pump for coatings, painting and so on.

### Advantages of twin screw pump:

1. Simple structure, high-self-absorbing capacity.
2. No stir, no pulsation, delivery is smooth, no emulsifying shearing for transporting media.
3. High efficiency, long life span.
4. Different models apply to different purpose.
5. Capable to transport the mixture of gas and liquid.
6. Capable to transport volatile oil at high temperature; E.G. gasoline.

### Performance of twin screw pump:

1. Flow rate: 15 ~ 1500m<sup>3</sup>/h
2. Pressure: 0~1.0Mpa
3. Viscosity: 0~1500mm<sup>2</sup>/s

## Types

1. Installation type: horizontal type.
2. Structure type: casting type and welding type.
3. Warming type: according to the demands of media, it can be warmed up.
4. Material: the materials of pump body contain cast-steel, cast-iron, Q235 steel, 304 stainless steel, 316L stainless steel and so on. The materials of the screw cover Cast copper, cast-steel, normal steel, 304 stainless steel, 316L stainless steel and so on, customers can choose appropriate materials based on their different working situation.

## The structure and work principles

1. The pump consist of pump body, driving and driven screws, axle sealing, synchromesh gear and safety valve, etc.
2. There is no thread in the middle of the screw, and there are rectangular curved threads on the left and right sides of the screw in the opposite direction. There are certain gap requirements between the pump body and the main and passive screw to ensure the pump's self-absorption performance and the main and passive screw meshing with each other.
3. The working principle of the pump: Start the prime mover. drive the active screw through the coupling, driver the active screw through the coupling, drive through a air of synchronous gears, so that the main and passive screw generate meshing rotation, so that the suction mouth of the pump cavity produces a vacuum and the medium enters both ends of the cavity. Under the action of the main and passive screw, the medium is inhaled into the middle exit of the pump.
4. Safety valve working principle: The safety valve is installed on the side of the pump body. The normal starting pressure is set to 1.05 ~ 1.1 times the working pressure when the normal starting pressure is delivered. When the working pressure of the pump exceeds this value, the safety valve automatically jumps. When the output line pressure is lower than the starting pressure, The relief valve will be reset and the pump will continue to work normally. When the actual pressure of the pump changes greatly, it can be adjusted according to the operating conditions.



## **Screw pump operation instructions and attention points**

1. Mounting the pump and prime mover on the sufficient strength pedestal that can prevent the component damaged by vibration and ensure the pump work regularly.
2. Requirements for the connection of the pump and power should not lower than government standard.
3. The steering of the pump is generally in the form of facing the input is generally in the form of facing the pump input shaft suction port on the right, the exit is on the top, the rotation directions is clockwise, and the input shaft is right-handed. If you need to order in other forms, you must explain.
4. Necessary to add filter, and the filter's specification is 30 mesh. The filter flow area should be more than 3 ~ 4 times of the input area of pump.
5. The size of pipe must be no difference with that of pump input and output mouth, otherwise, it will effect pump using performance.
6. Clear all pipe and filter before the first time using, to make sure pump work normally.
7. Before pump starting up, all valve on pipe must be open. After Normal working, it can be adjusted according to practical need.
8. After pump starting up, notice the pump vacuum value, if no vacuum after 1 minute, the pump should be stopped and checked.
9. When using pump to sweep cabin, race rotation ran not to exceed 3 minutes, in case of the damaged of seal.
10. The gear oil should use 150# middle load gear oil. Check oil level of gear box frequently to make sure pump working normally. When working normally, the temperature of oil in gear box do not exceed 65°C. When pump work for long time, the temperature do not exceed 75°C.
11. Bearings lubricating oil adopts lithium-based lubricating grease and should be refueled regularly.
12. The pump of the closed shaft cover has a leak hole under the left and right shaft cover. It is used to observe whether the seal is damaged and thus produces leaks. It can not be connected to other pipes or sealed to prevent damage to the bearing. If the leak is found, the pump repair needs to be stopped. Slight leakage can not be overhauled and can be collected in general containers.
13. The pump's flow rate is too large and its pressure is too high, according to different conditions, bearing and gear box is equipped with the water circulating cooling water is about 2m<sup>3</sup>/h.
14. When transporting high viscosity media, it should use the pump equipped with heating system.



## **Common troubles and its solving methods**

1. The pump cannot aspirate oil or displacement was not suit for rating
  - a. May be input pipe laking, the vacuum cannot be formed check the leaking part, and then tighten then bolt or replace the wahser.
  - b. The screw and the pump body could be abraded greatly after using for a long time Replace screw and pump body.
  - c. The vacuum degree of inlet is extra high, and the screw pump vibrates intensively check whether the filter or pipe blocked up.
  - d. The axle seal damaged and the air enter the pump, which make the pump cavity antivacuum replace the damaged axle seal.
  - e. After open the safety valve, please adjust valve or replace spring if the pressure can not reach requirements.
  - f. Safety valve interior has impurities to cause unsealing clean rubbish to reach the sealing requirement.
2. If unusual noise, smoky and stop happen to the pump, the temperature of bearings and gears is higher than the standard.
  - a. Driving screw and driver screw pump against the pump body caused by the damaged bearing replace the bearing.
  - b. The bearing is lack of oil or damaged making the pump stop oiling or replace the bearing.
  - c. The impurities gets into clean the pump cavityand repair it.
  - d. The gearbox is lack of oil or the oil mixed by impurities or water oiling or replace the gearbox oil.
  - e. The damaged gears caused by lack of oil replace the gears; after replace, put the screw gap in the middle place to avoid screw collision when working.



## **Assemble and disassemble of screw pump**

### **1. Disassemble of the pump input axle end**

#### **1.1 Disassemble**

- a. Disassemble the shaft coupling, take down the pain key.
- b. Remove the both end shaft-cup.
- c. Removed the bearing and retaining washer.
- d. Utilize the four screw holes on the shaft bracket forcefully.
- e. When remove the bearing of the shaft bracket, pay attention to adjusting washer under the bearing, and do not misplace it.
- f. Check whether the seal bearing are damaged, replace the damaged unit.
- g. Pull out the screw to check for damage and impurities, it is unnecessary to pull out the screw if there is no impurities in the pump cavity.

#### **1.2 Assemble.**

- h. Assemble the shaft bracket, insert locating pin tightly before tighten the bolt.
- i. Put adjusting washer into the place of disassembled, if framework oil seal on the adjusting washer is damaged, replace it.
- j. Assemble the bearing, retaining washer and bearing nut (assemble bearing with exclusive sleeve tool).
- k. Assemble several coupling of two bearing end shaft-cup.

### **2. Disassemble of the pump gear box end.**

#### **2.1 Disassemble**

- a. Disassemble the gear box
- b. Remove gear compression nut and retaining washer, do not mistake the direction and place of gear.
- c. The rest steps are the same as the above c~f

#### **2.2 Assemble**

- d. The same as the above 1.2 h~i.
- e. According to the direction and place of disassembled, assemble gear, retaining washer and gear compression nut.
- f. Assemble gear box and add gear oil.
- g. After finish assembling, running the screw to check whether it is flexible, if there is no problem, assemble the shaft coupling.



**SUPERIOR**  
TRANSMISSION



| speed n=960r/min                                       |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |
|--------------------------------------------------------|-----------------------|-----------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| size                                                   | Delivery pressure MPa | Viscosity mm²/s |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |
|                                                        |                       | 1               |          | 10        |          | 20        |          | 40        |          | 75        |          | 150       |          | 300       |          | 750       |          | 1500      |          |
|                                                        |                       | flow m³/h       | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW |
| 2GC 2LB/6                                              | 0.2                   | 6.2             | 2.1      | 6.3       | 2.6      | 6.4       | 2.8      | 6.5       | 3.4      | 6.6       | 3.9      | 6.7       | 4.7      | 6.8       | 5.8      | 7.0       | 7.7      | 7.1       | 8.7      |
|                                                        | 0.4                   | 5.9             | 2.8      | 6.0       | 3.0      | 6.1       | 3.5      | 6.3       | 3.9      | 6.4       | 4.4      | 6.5       | 5.3      | 6.6       | 6.4      | 6.8       | 8.2      | 6.9       | 9.3      |
|                                                        | 0.6                   | 5.5             | 3.4      | 5.6       | 3.7      | 5.8       | 4.1      | 6.1       | 4.4      | 6.2       | 5.1      | 6.3       | 6.0      | 6.4       | 7.0      | 6.6       | 8.9      | 6.7       | 9.9      |
|                                                        | 0.8                   | 5.1             | 3.9      | 5.2       | 4.3      | 5.5       | 4.6      | 5.8       | 5.1      | 6.0       | 5.7      | 6.1       | 6.5      | 6.2       | 7.7      | 6.4       | 9.5      | 6.5       | 10.4     |
|                                                        | 1.0                   | 4.8             | 4.6      | 4.9       | 4.9      | 5.2       | 5.3      | 5.5       | 5.7      | 5.8       | 6.3      | 5.9       | 7.1      | 6.0       | 8.2      | 6.2       | 10.0     | 6.3       | 11.1     |
| 2GC 2LB/12                                             | 0.2                   | 12.7            | 2.9      | 12.9      | 3.4      | 13.1      | 3.7      | 13.3      | 4.3      | 13.5      | 5.0      | 13.6      | 5.9      | 13.7      | 8.2      | 13.8      | 9.3      | 14.0      | 10.6     |
|                                                        | 0.4                   | 12.1            | 4.2      | 12.4      | 4.5      | 12.6      | 5.0      | 12.8      | 5.6      | 13.0      | 6.1      | 13.1      | 7.0      | 13.2      | 8.4      | 13.3      | 10.6     | 13.5      | 11.6     |
|                                                        | 0.6                   | 11.4            | 5.5      | 11.8      | 5.8      | 12.1      | 6.1      | 12.3      | 12.6     | 12.6      | 7.4      | 12.6      | 8.3      | 12.8      | 9.6      | 12.9      | 11.6     | 13.1      | 13.0     |
|                                                        | 0.8                   | 10.7            | 6.7      | 11.2      | 7.1      | 11.6      | 7.4      | 11.8      | 7.9      | 12.0      | 8.6      | 12.1      | 9.6      | 12.3      | 10.9     | 12.5      | 13.0     | 12.7      | 14.3     |
|                                                        | 1.0                   | 10.1            | 7.7      | 10.6      | 8.2      | 11.1      | 8.6      | 11.2      | 9.2      | 11.4      | 10.3     | 11.6      | 10.9     | 11.5      | 12.1     | 12.1      | 14.3     | 12.1      | 15.3     |
| 2GC 2LB/15                                             | 0.2                   | 16.5            | 3.4      | 16.7      | 3.9      | 17.0      | 4.2      | 17.2      | 4.7      | 17.4      | 5.6      | 17.6      | 6.6      | 17.8      | 7.8      | 18.0      | 10.2     | 18.2      | 11.4     |
|                                                        | 0.4                   | 16.0            | 4.9      | 16.2      | 5.3      | 16.5      | 5.7      | 16.7      | 6.3      | 16.9      | 7.0      | 17.2      | 8.1      | 17.3      | 9.3      | 17.5      | 11.6     | 17.8      | 12.8     |
|                                                        | 0.6                   | 15.4            | 6.4      | 15.7      | 6.8      | 16.0      | 7.3      | 16.1      | 7.8      | 16.2      | 8.5      | 16.7      | 9.6      | 16.8      | 10.9     | 17.0      | 13.1     | 17.5      | 14.4     |
|                                                        | 0.8                   | 14.8            | 7.8      | 15.2      | 8.4      | 15.3      | 8.8      | 15.4      | 9.3      | 15.4      | 10.0     | 16.2      | 11.1     | 16.3      | 12.4     | 16.6      | 14.6     | 17.1      | 15.9     |
|                                                        | 1.0                   | 14.3            | 8.7      | 14.4      | 9.6      | 14.5      | 10.3     | 14.6      | 10.9     | 14.6      | 11.6     | 15.7      | 12.5     | 15.8      | 13.9     | 16.2      | 16.1     | 16.7      | 17.4     |
| 2GC 2LB/25                                             | 0.2                   | 26.5            | 6.7      | 27.2      | 7.7      | 27.9      | 8.6      | 28.6      | 9.9      | 29.5      | 11.7     | 30.2      | 14.0     | 30.9      | 17.2     | 31.7      | 22.4     | 32.5      | 25.3     |
|                                                        | 0.4                   | 25.0            | 8.9      | 25.8      | 10.1     | 26.5      | 10.9     | 27.3      | 12.3     | 28.2      | 13.9     | 28.9      | 16.4     | 29.6      | 19.4     | 30.4      | 24.6     | 31.1      | 27.6     |
|                                                        | 0.6                   | 23.5            | 11.1     | 24.3      | 12.3     | 25.1      | 13.2     | 25.9      | 14.3     | 26.7      | 16.2     | 27.6      | 18.7     | 28.3      | 21.7     | 29.1      | 27.0     | 29.9      | 30.0     |
|                                                        | 0.8                   | 22.0            | 13.4     | 22.8      | 14.6     | 23.6      | 15.4     | 24.5      | 16.8     | 25.5      | 18.4     | 26.2      | 20.1     | 26.9      | 23.9     | 27.7      | 29.2     | 28.5      | 32.1     |
|                                                        | 1.0                   | 20.4            | 15.9     | 21.3      | 16.8     | 22.0      | 17.6     | 24.1      | 19.0     | 24.3      | 20.7     | 25.0      | 23.2     | 25.7      | 26.3     | 26.4      | 31.6     | 27.1      | 34.5     |
| 2GC 2LB/35                                             | 0.2                   | 37.6            | 10.5     | 38.8      | 11.7     | 40.4      | 12.5     | 40.7      | 13.1     | 41.1      | 15.3     | 41.6      | 17.9     | 42.1      | 20.8     | 42.7      | 25.8     | 43.2      | 28.5     |
|                                                        | 0.4                   | 36.2            | 13.9     | 37.0      | 14.8     | 39.5      | 15.8     | 38.9      | 16.9     | 39.6      | 18.7     | 40.2      | 21.0     | 40.8      | 23.9     | 41.5      | 29.0     | 42.1      | 31.8     |
|                                                        | 0.6                   | 34.6            | 17.2     | 35.2      | 18.1     | 37.5      | 18.9     | 37.0      | 20.3     | 38.1      | 21.8     | 38.7      | 24.2     | 39.4      | 27.1     | 40.2      | 32.2     | 41.0      | 34.9     |
|                                                        | 0.8                   | 32.9            | 20.3     | 33.5      | 21.3     | 35.4      | 22.3     | 35.0      | 23.5     | 36.5      | 25.0     | 37.2      | 27.4     | 38.0      | 30.4     | 38.8      | 35.5     | 39.8      | 38.3     |
|                                                        | 1.0                   | 31.2            | 23.5     | 32.0      | 24.6     | 33.3      | 25.5     | 33.4      | 26.7     | 35.0      | 28.4     | 35.5      | 30.6     | 36.4      | 33.5     | 37.3      | 38.7     | 38.6      | 41.5     |
| 2GC 2LB/50                                             | 0.2                   | 53.0            | 12.6     | 53.5      | 13.8     | 54.7      | 14.6     | 54.9      | 16.0     | 55.8      | 17.9     | 56.7      | 20.2     | 57.7      | 23.4     | 58.8      | 28.8     | 60.0      | 31.8     |
|                                                        | 0.4                   | 50.7            | 16.7     | 51.4      | 17.9     | 52.1      | 18.8     | 53.0      | 20.2     | 54.0      | 21.8     | 54.8      | 24.4     | 55.7      | 27.4     | 56.7      | 32.8     | 57.7      | 35.7     |
|                                                        | 0.6                   | 48.4            | 20.9     | 49.2      | 21.9     | 50.0      | 22.9     | 51.1      | 24.2     | 52.1      | 25.9     | 52.9      | 28.4     | 53.6      | 31.6     | 54.5      | 37.0     | 55.4      | 39.9     |
|                                                        | 0.8                   | 46.0            | 24.9     | 47.0      | 26.0     | 48.0      | 27.0     | 49.1      | 28.4     | 50.2      | 30.0     | 50.9      | 26.0     | 51.6      | 35.6     | 52.3      | 41.1     | 53.0      | 44.0     |
|                                                        | 1.0                   | 43.6            | 29.1     | 44.8      | 30.1     | 45.9      | 31.1     | 47.0      | 32.4     | 48.1      | 34.1     | 48.8      | 36.7     | 49.8      | 39.8     | 50.6      | 45.2     | 51.4      | 48.1     |
| 2GC 2LB/80                                             | 0.2                   | 92.0            | 13.0     | 93.0      | 14.4     | 93.9      | 15.4     | 94.0      | 17.3     | 94.5      | 19.5     | 95.0      | 22.5     | 96.0      | 26.6     | 97.0      | 33.5     | 98.0      | 37.5     |
|                                                        | 0.4                   | 86.5            | 20.0     | 87.8      | 21.5     | 88.7      | 22.7     | 89.8      | 24.4     | 91.0      | 26.6     | 91.8      | 29.8     | 93.0      | 33.9     | 94.2      | 40.8     | 95.4      | 44.5     |
|                                                        | 0.6                   | 81.0            | 27.3     | 82.7      | 26.0     | 84.2      | 29.8     | 85.7      | 31.6     | 87.5      | 33.6     | 88.7      | 37.0     | 90.0      | 41.1     | 91.4      | 47.9     | 92.7      | 51.7     |
|                                                        | 0.8                   | 75.0            | 34.6     | 77.5      | 36.0     | 79.5      | 37.0     | 81.5      | 38.9     | 84.0      | 41.1     | 88.5      | 44.1     | 87.0      | 48.3     | 88.5      | 55.1     | 90.0      | 58.9     |
|                                                        | 1.0                   | 70.0            | 41.6     | 73.0      | 43.0     | 74.2      | 44.3     | 77.8      | 45.9     | 80.0      | 48.3     | 82.0      | 54.6     | 84.0      | 55.4     | 85.5      | 62.4     | 87.0      | 66.1     |
| 0.04MPa The above values is at vacuum value of 0.04MPa |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |

| speed n=960r/min                                       |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |
|--------------------------------------------------------|-----------------------|-----------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| size                                                   | Delivery pressure MPa | Viscosity mm²/s |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |
|                                                        |                       | 1               |          | 10        |          | 20        |          | 40        |          | 75        |          | 150       |          | 300       |          | 750       |          | 1500      |          |
|                                                        |                       | flow m³/h       | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW |
| 2GC 2LB/ 100                                           | 0.2                   | 105.0           | 14.0     | 108.0     | 15.5     | 110.0     | 16.8     | 112.0     | 18.7     | 114.0     | 21.0     | 116.0     | 24.4     | 118.0     | 28.5     | 120.0     | 35.7     | 122.0     | 39.8     |
|                                                        | 0.4                   | 102.0           | 22.3     | 104.0     | 23.7     | 106.0     | 24.9     | 108.0     | 26.7     | 110.0     | 29.9     | 113.0     | 32.5     | 114.0     | 36.2     | 116.0     | 43.8     | 118.0     | 47.9     |
|                                                        | 0.6                   | 98.0            | 30.4     | 100.0     | 31.9     | 102.0     | 32.9     | 104.0     | 34.9     | 106.0     | 37.1     | 110.0     | 40.5     | 110.0     | 44.7     | 112.0     | 52.1     | 114.0     | 55.9     |
|                                                        | 0.8                   | 93.0            | 38.4     | 96.0      | 39.9     | 98.0      | 41.2     | 100.0     | 43.0     | 102.0     | 46.1     | 106.0     | 48.7     | 106.0     | 52.9     | 108.0     | 60.0     | 110.0     | 64.1     |
|                                                        | 1.0                   | 88.0            | 45.5     | 92.0      | 48.0     | 94.0      | 49.3     | 96.0      | 51.2     | 98.0      | 53.5     | 102.0     | 56.7     | 102.0     | 60.0     | 104.0     | 68.2     | 106.0     | 72.3     |
| 2GC 2LB/ 120                                           | 0.2                   | 131.0           | 21.5     | 132.0     | 21.7     | 133.0     | 22.3     | 134.0     | 23.4     | 135.0     | 25.5     | 136.0     | 27.8     | 137.0     | 31.7     | 138.0     | 35.8     | 138.0     | 41.6     |
|                                                        | 0.4                   | 125.0           | 27.3     | 127.0     | 28.3     | 128.0     | 29.1     | 129.0     | 30.2     | 130.0     | 32.6     | 132.0     | 36.3     | 133.0     | 39.6     | 135.0     | 44.2     | 135.0     | 47.6     |
|                                                        | 0.6                   | 118.0           | 34.3     | 121.0     | 36.0     | 123.0     | 36.1     | 124.0     | 38.4     | 125.0     | 40.6     | 126.0     | 45.0     | 129.0     | 47.8     | 131.0     | 52.5     | 131.0     | 55.6     |
|                                                        | 0.8                   | 113.0           | 43.4     | 115.0     | 44.1     | 117.0     | 45.0     | 119.0     | 47.3     | 121.0     | 48.8     | 123.0     | 52.7     | 125.0     | 56.3     | 127.0     | 59.7     | 129.0     | 63.7     |
|                                                        | 1.0                   | 108.0           | 52.2     | 110.0     | 52.9     | 112.0     | 53.9     | 114.0     | 56.3     | 116.0     | 57.9     | 119.0     | 61.7     | 121.0     | 65.5     | 123.0     | 68.8     | 125.0     | 72.8     |
| 2GC 2LB/ 150                                           | 0.2                   | 152.0           | 24.8     | 155.0     | 25.4     | 158.0     | 26.4     | 161.0     | 28.1     | 164.0     | 31.0     | 166.0     | 34.2     | 169.0     | 38.3     | 172.0     | 44.1     | 175.0     | 49.9     |
|                                                        | 0.4                   | 148.0           | 32.2     | 151.0     | 32.9     | 154.0     | 34.9     | 157.0     | 36.7     | 160.0     | 40.0     | 162.0     | 42.3     | 165.0     | 46.5     | 168.0     | 53.8     | 171.0     | 58.6     |
|                                                        | 0.6                   | 143.0           | 40.5     | 146.0     | 41.4     | 149.0     | 43.9     | 152.0     | 45.4     | 155.0     | 49.2     | 158.0     | 51.9     | 161.0     | 56.7     | 164.0     | 62.9     | 167.0     | 68.4     |
|                                                        | 0.8                   | 138.0           | 49.5     | 141.0     | 50.7     | 144.0     | 52.7     | 147.0     | 55.2     | 150.0     | 59.7     | 153.0     | 52.4     | 156.0     | 67.7     | 159.0     | 73.1     | 162.0     | 79.9     |
|                                                        | 1.0                   | 133.0           | 59.9     | 136.0     | 61.1     | 139.0     | 62.9     | 142.0     | 66.1     | 145.0     | 71.0     | 148.0     | 73.8     | 151.0     | 79.3     | 155.0     | 84.9     | 158.0     | 92.0     |
| 2GC 2LB/ 200                                           | 0.2                   | 209.0           | 34.2     | 209.0     | 34.6     | 210.0     | 36.2     | 211.0     | 38.0     | 212.0     | 40.0     | 213.0     | 43.8     | 214.0     | 48.4     | 215.0     | 55.1     | 216.0     | 61.6     |
|                                                        | 0.4                   | 205.0           | 44.7     | 205.0     | 44.2     | 206.0     | 46.6     | 207.0     | 47.8     | 209.0     | 50.1     | 210.0     | 54.3     | 211.0     | 58.2     | 212.0     | 67.5     | 218.0     | 73.0     |
|                                                        | 0.6                   | 201.0           | 56.3     | 202.0     | 57.1     | 203.0     | 58.1     | 203.0     | 59.3     | 205.0     | 62.6     | 206.0     | 65.6     | 207.0     | 71.7     | 208.0     | 79.7     | 209.0     | 85.6     |
|                                                        | 0.8                   | 196.0           | 69.6     | 198.0     | 70.5     | 199.0     | 71.7     | 199.0     | 72.9     | 200.0     | 75.7     | 201.0     | 79.6     | 202.0     | 85.6     | 203.0     | 94.2     | 204.0     | 101.0    |
|                                                        | 1.0                   | 191.0           | 83.8     | 194.0     | 84.7     | 196.0     | 85.8     | 196.0     | 87.1     | 197.0     | 89.1     | 198.0     | 93.4     | 199.0     | 99.8     | 200.0     | 108.0    | 201.0     | 115.0    |
| 2GC 2LB/ 250                                           | 0.2                   | 260.0           | 41.5     | 262.0     | 42.9     | 264.0     | 44.1     | 266.0     | 47.9     | 268.0     | 50.0     | 269.0     | 53.2     | 270.0     | 56.7     | 271.0     | 64.5     | 273.0     | 72.0     |
|                                                        | 0.4                   | 256.0           | 47.0     | 258.0     | 48.8     | 260.0     | 50.8     | 262.0     | 53.4     | 264.0     | 56.8     | 265.0     | 62.6     | 266.0     | 69.8     | 267.0     | 81.9     | 269.0     | 88.9     |
|                                                        | 0.6                   | 252.0           | 57.8     | 254.0     | 62.3     | 256.0     | 66.7     | 258.0     | 70.8     | 260.0     | 74.8     | 261.0     | 79.9     | 262.0     | 87.1     | 263.0     | 99.5     | 265.0     | 106.0    |
|                                                        | 0.8                   | 248.0           | 69.0     | 250.0     | 75.5     | 252.0     | 81.4     | 254.0     | 87.6     | 256.0     | 93.8     | 257.0     | 97.3     | 257.0     | 105.0    | 258.0     | 116.0    | 260.0     | 121.0    |
|                                                        | 1.0                   | 244.0           | 82.4     | 246.0     | 88.7     | 248.0     | 95.7     | 250.0     | 104.0    | 251.0     | 110.0    | 255.0     | 114.0    | 254.0     | 122.0    | 255.0     | 134.0    | 256.0     | 137.0    |
| 2GC 2LB/ 300                                           | 0.2                   | 316.0           | 47.3     | 320.0     | 49.9     | 320.0     | 52.3     | 321.0     | 55.9     | 322.0     | 59.2     | 323.0     | 63.5     | 324.0     | 67.9     | 325.0     | 77.3     | 326.0     | 85.5     |
|                                                        | 0.4                   | 310.0           | 57.0     | 312.0     | 60.3     | 313.0     | 63.8     | 314.0     | 66.2     | 315.0     | 69.7     | 317.0     | 76.2     | 318.0     | 84.3     | 320.0     | 97.9     | 322.0     | 106.0    |
|                                                        | 0.6                   | 303.0           | 73.1     | 305.0     | 77.5     | 306.0     | 81.8     | 307.0     | 84.3     | 308.0     | 89.1     | 310.0     | 95.0     | 312.0     | 104.0    | 315.0     | 118.0    | 317.0     | 125.0    |
|                                                        | 0.8                   | 296.0           | 83.5     | 298.0     | 88.7     | 292.0     | 95.7     | 299.0     | 101.0    | 300.0     | 109.0    | 303.0     | 115.0    | 306.0     | 123.0    | 309.0     | 137.0    | 312.0     | 144.0    |
|                                                        | 1.0                   | 290.0           | 98.6     | 291.0     | 102.0    | 291.0     | 110.0    | 293.0     | 120.0    | 294.0     | 129.0    | 297.0     | 138.0    | 300.0     | 142.0    | 303.0     | 160.0    | 307.0     | 168.0    |
| 2GC 2LB/ 350                                           | 0.2                   | 368.0           | 55.1     | 370.0     | 58.0     | 371.0     | 619.0    | 371.0     | 64.6     | 372.0     | 68.3     | 373.0     | 41.6     | 374.0     | 78.8     | 375.0     | 89.1     | 376.0     | 115.0    |
|                                                        | 0.4                   | 361.0           | 66.4     | 363.0     | 70.6     | 365.0     | 74.6     | 366.0     | 77.3     | 367.0     | 81.3     | 368.0     | 88.5     | 369.0     | 97.9     | 370.0     | 109.0    | 371.0     | 122.0    |
|                                                        | 0.6                   | 353.0           | 81.0     | 356.0     | 85.8     | 358.0     | 96.3     | 360.0     | 98.9     | 361.0     | 104.0    | 363.0     | 111.0    | 364.0     | 121.0    | 366.0     | 131.0    | 367.0     | 144.0    |
|                                                        | 0.8                   | 345.0           | 95.9     | 348.0     | 104.0    | 351.0     | 113.0    | 353.0     | 122.0    | 355.0     | 128.0    | 357.0     | 135.0    | 359.0     | 144.0    | 361.0     | 155.0    | 362.0     | 168.0    |
|                                                        | 1.0                   | 338.0           | 111.0    | 341.0     | 126.0    | 344.0     | 135.0    | 346.0     | 145.0    | 350.0     | 153.0    | 352.0     | 161.0    | 355.0     | 172.0    | 357.0     | 183.0    | 358.0     | 197.0    |
| 0.04MPa The above values is at vacuum value of 0.04MPa |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |

| speed n=960r/min                                       |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |
|--------------------------------------------------------|-----------------------|-----------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| size                                                   | Delivery pressure MPa | Viscosity mm²/s |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |
|                                                        |                       | 1               |          | 10        |          | 20        |          | 40        |          | 75        |          | 150       |          | 300       |          | 750       |          | 1500      |          |
|                                                        |                       | flow m³/h       | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW |
| 2GC 2LB/ 400                                           | 0.2                   | 414.0           | 61.9     | 416.0     | 65.2     | 417.0     | 69.6     | 418.0     | 72.7     | 419.0     | 76.9     | 420.0     | 82.4     | 421.0     | 88.6     | 422.0     | 229.0    | 424.0     | 114.0    |
|                                                        | 0.4                   | 408.0           | 77.3     | 411.0     | 82.6     | 413.0     | 87.1     | 414.0     | 86.1     | 415.0     | 101.0    | 416.0     | 107.0    | 417.0     | 120.0    | 418.0     | 100.0    | 420.0     | 154.0    |
|                                                        | 0.6                   | 402.0           | 109.0    | 406.0     | 113.0    | 409.0     | 116.0    | 409.0     | 121.0    | 410.0     | 128.0    | 410.0     | 134.0    | 412.0     | 147.0    | 419.0     | 142.0    | 416.0     | 180.0    |
|                                                        | 0.8                   | 396.0           | 142.0    | 401.0     | 144.0    | 405.0     | 146.0    | 405.0     | 150.0    | 406.0     | 155.0    | 406.0     | 161.0    | 407.0     | 173.0    | 410.0     | 169.0    | 411.0     | 206.0    |
|                                                        | 1.0                   | 392.0           | 176.0    | 396.0     | 179.0    | 400.0     | 182.0    | 401.0     | 186.0    | 401.0     | 193.0    | 402.0     | 199.0    | 403.0     | 211.0    | 405.0     | 194.0    | 408.0     | 240.0    |
| 2GC 2LB/ 440                                           | 0.2                   | 465.0           | 69.5     | 466.0     | 73.6     | 468.0     | 78.1     | 469.0     | 81.5     | 470.0     | 86.2     | 471.0     | 92.3     | 471.0     | 99.4     | 472.0     | 112.0    | 473.0     | 124.0    |
|                                                        | 0.4                   | 458.0           | 86.8     | 460.0     | 92.8     | 472.0     | 99.8     | 473.0     | 114.0    | 474.0     | 116.0    | 465.0     | 120.0    | 466.0     | 134.0    | 466.0     | 159.0    | 467.0     | 172.0    |
|                                                        | 0.6                   | 451.0           | 122.0    | 453.0     | 126.0    | 463.0     | 132.0    | 466.0     | 151.0    | 467.0     | 146.0    | 458.0     | 151.0    | 459.0     | 164.0    | 460.0     | 189.0    | 461.0     | 202.0    |
|                                                        | 0.8                   | 444.0           | 159.0    | 446.0     | 161.0    | 448.0     | 163.0    | 449.0     | 186.0    | 450.0     | 174.0    | 451.0     | 181.0    | 452.0     | 193.0    | 453.0     | 217.0    | 454.0     | 230.0    |
|                                                        | 1.0                   | 436.0           | 202.0    | 438.0     | 204.0    | 439.0     | 208.0    | 440.0     | 226.0    | 441.0     | 213.0    | 443.0     | 215.0    | 445.0     | 229.0    | 447.0     | 253.0    | 448.0     | 265.0    |
| 2GC 2LB/ 500                                           | 0.2                   | 515.0           | 68.4     | 518.0     | 74.2     | 520.0     | 80.0     | 521.0     | 87.0     | 522.0     | 99.8     | 522.0     | 102.0    | 522.0     | 110.0    | 522.0     | 123.0    | 523.0     | 137.0    |
|                                                        | 0.4                   | 508.0           | 96.3     | 511.0     | 103.0    | 513.0     | 108.0    | 514.0     | 114.0    | 515.0     | 125.0    | 516.0     | 133.0    | 517.0     | 149.0    | 518.0     | 177.0    | 519.0     | 191.0    |
|                                                        | 0.6                   | 501.0           | 136.0    | 504.0     | 140.0    | 506.0     | 144.0    | 507.0     | 151.0    | 509.0     | 159.0    | 509.0     | 167.0    | 510.0     | 182.0    | 514.0     | 210.0    | 512.0     | 224.0    |
|                                                        | 0.8                   | 493.0           | 169.0    | 496.0     | 174.0    | 498.0     | 178.0    | 499.0     | 186.0    | 503.0     | 194.0    | 503.0     | 200.0    | 504.0     | 215.0    | 505.0     | 240.0    | 506.0     | 255.0    |
|                                                        | 1.0                   | 486.0           | 209.0    | 489.0     | 213.0    | 491.0     | 217.0    | 492.0     | 226.0    | 496.0     | 234.0    | 497.0     | 241.0    | 501.0     | 255.0    | 502.0     | 270.0    | 503.0     | 297.0    |
| 2GC 2LB/ 600                                           | 0.2                   | 612.0           | 77.1     | 617.0     | 81.2     | 622.0     | 87.0     | 626.0     | 90.5     | 630.0     | 104.0    | 633.0     | 115.0    | 637.0     | 134.0    | 641.0     | 165.0    | 646.0     | 186.0    |
|                                                        | 0.4                   | 603.0           | 111.0    | 608.0     | 117.0    | 613.0     | 121.0    | 617.0     | 130.0    | 622.0     | 142.0    | 622.0     | 155.0    | 631.0     | 175.0    | 636.0     | 209.0    | 641.0     | 227.0    |
|                                                        | 0.6                   | 593.0           | 157.0    | 599.0     | 161.0    | 604.0     | 165.0    | 608.0     | 173.0    | 614.0     | 183.0    | 615.0     | 196.0    | 625.0     | 217.0    | 630.0     | 250.0    | 635.0     | 268.0    |
|                                                        | 0.8                   | 582.0           | 202.0    | 588.0     | 205.0    | 594.0     | 208.0    | 598.0     | 215.0    | 605.0     | 225.0    | 605.0     | 237.0    | 618.0     | 258.0    | 624.0     | 290.0    | 628.0     | 307.0    |
|                                                        | 1.0                   | 570.0           | 248.0    | 577.0     | 248.0    | 583.0     | 251.0    | 587.0     | 255.0    | 596.0     | 266.0    | 604.0     | 280.0    | 611.0     | 298.0    | 617.0     | 329.0    | 621.0     | 347.0    |
| 2GC 2LB/ 650                                           | 0.2                   | 668.0           | 74.2     | 673.0     | 87.2     | 678.0     | 90.5     | 683.0     | 95.1     | 687.0     | 109.0    | 690.0     | 123.0    | 693.0     | 144.0    | 696.0     | 181.0    | 700.0     | 202.0    |
|                                                        | 0.4                   | 657.0           | 122.0    | 663.0     | 128.0    | 669.0     | 133.0    | 674.0     | 142.0    | 678.0     | 154.0    | 682.0     | 170.0    | 686.0     | 190.0    | 690.0     | 226.0    | 695.0     | 246.0    |
|                                                        | 0.6                   | 645.0           | 171.0    | 652.0     | 175.0    | 659.0     | 180.0    | 665.0     | 188.0    | 669.0     | 200.0    | 676.0     | 216.0    | 679.0     | 235.0    | 683.0     | 270.0    | 689.0     | 290.0    |
|                                                        | 0.8                   | 633.0           | 220.0    | 641.0     | 223.0    | 648.0     | 228.0    | 654.0     | 234.0    | 660.0     | 246.0    | 665.0     | 260.0    | 671.0     | 280.0    | 676.0     | 314.0    | 683.0     | 347.0    |
|                                                        | 1.0                   | 620.0           | 270.0    | 629.0     | 270.0    | 636.0     | 274.0    | 643.0     | 280.0    | 650.0     | 290.0    | 656.0     | 304.0    | 662.0     | 322.0    | 669.0     | 357.0    | 676.0     | 377.0    |
| 2GC 2LB/ 700                                           | 0.2                   | 721.0           | 80.0     | 727.0     | 87.0     | 732.0     | 94.0     | 737.0     | 103.0    | 741.0     | 117.0    | 745.0     | 135.0    | 747.0     | 155.0    | 749.0     | 195.0    | 753.0     | 216.0    |
|                                                        | 0.4                   | 709.0           | 131.0    | 715.0     | 137.0    | 721.0     | 143.0    | 727.0     | 153.0    | 732.0     | 167.0    | 736.0     | 183.0    | 740.0     | 205.0    | 743.0     | 244.0    | 748.0     | 264.0    |
|                                                        | 0.6                   | 696.0           | 184.0    | 703.0     | 189.0    | 710.0     | 194.0    | 717.0     | 203.0    | 723.0     | 216.0    | 726.0     | 232.0    | 732.0     | 253.0    | 737.0     | 291.0    | 743.0     | 313.0    |
|                                                        | 0.8                   | 683.0           | 238.0    | 690.0     | 240.0    | 698.0     | 245.0    | 706.0     | 253.0    | 713.0     | 266.0    | 713.0     | 278.0    | 724.0     | 302.0    | 731.0     | 340.0    | 738.0     | 362.0    |
|                                                        | 1.0                   | 668.0           | 291.0    | 677.0     | 291.0    | 686.0     | 296.0    | 694.0     | 302.0    | 702.0     | 313.0    | 709.0     | 328.0    | 716.0     | 348.0    | 724.0     | 386.0    | 732.0     | 408.0    |
| 0.04MPa The above values is at vacuum value of 0.04MPa |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |

| speed n=960r/min                                       |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |
|--------------------------------------------------------|-----------------------|-----------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| size                                                   | Delivery pressure MPa | Viscosity mm²/s |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |
|                                                        |                       | 1               |          | 10        |          | 20        |          | 40        |          | 75        |          | 150       |          | 300       |          | 750       |          | 1500      |          |
|                                                        |                       | flow m³/h       | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW |
| 2GC 2LB/750                                            | 0.2                   | 770             | 86       | 777       | 93       | 783       | 100      | 787       | 110      | 790       | 124      | 793       | 143      | 797       | 166      | 800       | 208      | 803       | 230      |
|                                                        | 0.4                   | 755             | 129      | 763       | 146      | 770       | 153      | 775       | 162      | 780       | 177      | 784       | 196      | 789       | 218      | 794       | 260      | 798       | 282      |
|                                                        | 0.6                   | 740             | 196      | 749       | 201      | 757       | 206      | 763       | 216      | 769       | 229      | 775       | 247      | 781       | 270      | 787       | 312      | 793       | 334      |
|                                                        | 0.8                   | 725             | 252      | 734       | 255      | 744       | 261      | 751       | 269      | 758       | 282      | 765       | 299      | 772       | 321      | 780       | 360      | 787       | 385      |
|                                                        | 1.0                   | 708             | 307      | 719       | 310      | 729       | 313      | 738       | 321      | 747       | 333      | 755       | 350      | 763       | 371      | 772       | 415      | 781       | 435      |
| 2GC 2LB/800                                            | 0.2                   | 820             | 93       | 830       | 97       | 836       | 104      | 843       | 115      | 848       | 124      | 850       | 147      | 857       | 172      | 860       | 209      | 865       | 235      |
|                                                        | 0.4                   | 805             | 151      | 815       | 159      | 823       | 164      | 830       | 174      | 835       | 187      | 841       | 205      | 850       | 269      | 854       | 269      | 860       | 295      |
|                                                        | 0.6                   | 790             | 210      | 805       | 216      | 808       | 222      | 815       | 230      | 825       | 240      | 830       | 261      | 842       | 320      | 848       | 320      | 854       | 353      |
|                                                        | 0.8                   | 765             | 281      | 780       | 285      | 795       | 292      | 800       | 302      | 815       | 312      | 819       | 331      | 834       | 380      | 838       | 280      | 850       | 409      |
|                                                        | 1.0                   | 760             | 398      | 770       | 400      | 785       | 495      | 790       | 414      | 800       | 420      | 810       | 429      | 825       | 461      | 831       | 513      | 840       | 528      |
| 2GC 2LB/900                                            | 0.2                   | 924             | 103      | 937       | 113      | 937       | 118      | 944       | 131      | 950       | 139      | 952       | 171      | 955       | 198      | 958       | 209      | 961       | 248      |
|                                                        | 0.4                   | 908             | 169      | 916       | 176      | 923       | 183      | 931       | 195      | 939       | 204      | 942       | 234      | 947       | 261      | 952       | 278      | 957       | 320      |
|                                                        | 0.6                   | 892             | 237      | 901       | 241      | 909       | 248      | 918       | 259      | 927       | 275      | 932       | 297      | 938       | 326      | 947       | 342      | 952       | 391      |
|                                                        | 0.8                   | 875             | 304      | 885       | 307      | 895       | 429      | 905       | 324      | 925       | 339      | 922       | 360      | 929       | 389      | 940       | 414      | 947       | 461      |
|                                                        | 1.0                   | 856             | 438      | 868       | 442      | 880       | 447      | 891       | 452      | 902       | 465      | 911       | 475      | 920       | 514      | 931       | 546      | 941       | 594      |
| 2GC 2LB/1000                                           | 0.2                   | 1017            | 114      | 1026      | 123      | 1035      | 130      | 1043      | 145      | 1051      | 154      | 1055      | 189      | 1058      | 222      | 1061      | 231      | 1065      | 275      |
|                                                        | 0.4                   | 998             | 186      | 1007      | 194      | 1018      | 203      | 1027      | 215      | 1036      | 225      | 1042      | 259      | 1048      | 289      | 1053      | 307      | 1058      | 354      |
|                                                        | 0.6                   | 978             | 259      | 988       | 264      | 1001      | 274      | 1011      | 284      | 1021      | 303      | 1030      | 331      | 1037      | 361      | 1045      | 382      | 1051      | 433      |
|                                                        | 0.8                   | 957             | 332      | 969       | 336      | 983       | 345      | 995       | 355      | 1006      | 372      | 1017      | 397      | 1026      | 422      | 1036      | 457      | 1044      | 508      |
|                                                        | 1.0                   | 936             | 461      | 949       | 483      | 965       | 509      | 978       | 492      | 992       | 509      | 1002      | 530      | 1014      | 568      | 1025      | 608      | 1036      | 611      |
| 2GC 2LB/1200                                           | 0.2                   | 1215            | 137      | 1224      | 148      | 1235      | 157      | 1244      | 157      | 1253      | 187      | 1257      | 227      | 1260      | 267      | 1263      | 277      | 1268      | 331      |
|                                                        | 0.4                   | 1195            | 223      | 1207      | 233      | 1217      | 244      | 1226      | 258      | 1235      | 270      | 1240      | 311      | 1246      | 347      | 1250      | 369      | 1257      | 425      |
|                                                        | 0.6                   | 1180            | 311      | 1190      | 318      | 1205      | 328      | 1215      | 341      | 1225      | 364      | 1234      | 397      | 1241      | 434      | 1245      | 458      | 1251      | 520      |
|                                                        | 0.8                   | 1161            | 399      | 1172      | 404      | 1185      | 414      | 1197      | 427      | 1208      | 448      | 1218      | 477      | 1227      | 507      | 1237      | 549      | 1244      | 610      |
|                                                        | 1.0                   | 1140            | 577      | 1151      | 580      | 1164      | 586      | 1179      | 592      | 1193      | 610      | 1203      | 637      | 1215      | 674      | 1225      | 730      | 1236      | 796      |
| 2GC 2LB/1500                                           | 0.2                   | 1518            | 172      | 1527      | 186      | 1536      | 196      | 1544      | 218      | 1552      | 232      | 1557      | 285      | 1560      | 334      | 1564      | 347      | 1569      | 414      |
|                                                        | 0.4                   | 1495            | 278      | 1504      | 292      | 1515      | 305      | 1523      | 322      | 1532      | 339      | 1538      | 389      | 1544      | 434      | 1550      | 462      | 1555      | 531      |
|                                                        | 0.6                   | 1475            | 389      | 1485      | 398      | 1502      | 411      | 1512      | 427      | 1522      | 456      | 1529      | 496      | 1536      | 543      | 1544      | 573      | 1550      | 650      |
|                                                        | 0.8                   | 1455            | 499      | 1467      | 505      | 1481      | 519      | 1493      | 534      | 1504      | 560      | 1512      | 596      | 1521      | 635      | 1531      | 687      | 1540      | 763      |
|                                                        | 1.0                   | 1435            | 969      | 1448      | 712      | 1464      | 725      | 1471      | 738      | 1491      | 762      | 1501      | 796      | 1513      | 846      | 1524      | 911      | 1536      | 988      |
| 0.04MPa The above values is at vacuum value of 0.04MPa |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |

| speed n=1450r/min                                      |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |
|--------------------------------------------------------|-----------------------|-----------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| size                                                   | Delivery pressure MPa | Viscosity mm²/s |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |
|                                                        |                       | 1               |          | 10        |          | 20        |          | 40        |          | 75        |          | 150       |          | 300       |          | 750       |          | 1500      |          |
|                                                        |                       | flow m³/h       | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW |
| 2GC 2LB/ 6                                             | 0.2                   | 6.2             | 1.8      | 6.3       | 2.2      | 6.4       | 2.4      | 6.5       | 2.9      | 6.6       | 3.4      | 6.7       | 4.1      | 6.8       | 5.0      | 7.0       | 6.6      | 7.1       | 7.5      |
|                                                        | 0.4                   | 5.9             | 2.4      | 6.0       | 2.6      | 6.1       | 3.0      | 6.3       | 3.4      | 6.4       | 3.8      | 6.5       | 4.6      | 6.6       | 5.5      | 6.8       | 7.1      | 6.9       | 8.0      |
|                                                        | 0.6                   | 5.5             | 2.9      | 5.6       | 3.2      | 5.8       | 3.5      | 6.1       | 3.8      | 6.2       | 4.4      | 6.3       | 5.2      | 6.4       | 6.0      | 6.6       | 7.7      | 6.7       | 8.5      |
|                                                        | 0.8                   | 5.1             | 3.4      | 5.2       | 3.7      | 5.5       | 4.0      | 5.8       | 4.4      | 6.0       | 4.9      | 6.1       | 5.6      | 6.2       | 6.6      | 6.4       | 8.2      | 6.5       | 9.0      |
|                                                        | 1.0                   | 4.8             | 4.0      | 4.9       | 4.2      | 5.2       | 4.6      | 5.5       | 4.9      | 5.8       | 5.4      | 5.9       | 6.1      | 6.0       | 7.1      | 6.2       | 8.6      | 6.3       | 9.6      |
| 2GC 2LB/ 12                                            | 0.2                   | 12.7            | 2.5      | 12.9      | 2.9      | 13.1      | 3.2      | 13.3      | 3.7      | 13.5      | 4.3      | 13.6      | 5.1      | 13.7      | 6.2      | 13.8      | 8.0      | 14.0      | 9.1      |
|                                                        | 0.4                   | 12.1            | 3.6      | 12.4      | 3.9      | 12.6      | 4.3      | 12.8      | 4.8      | 13.0      | 5.3      | 13.1      | 6.2      | 13.2      | 7.2      | 13.3      | 9.1      | 13.5      | 10.0     |
|                                                        | 0.6                   | 11.4            | 4.7      | 11.8      | 5.0      | 12.1      | 5.3      | 12.3      | 5.8      | 12.6      | 6.4      | 12.6      | 7.2      | 12.8      | 8.3      | 12.9      | 10.0     | 13.1      | 11.2     |
|                                                        | 0.8                   | 10.7            | 5.8      | 11.2      | 6.1      | 11.6      | 6.4      | 11.8      | 6.8      | 12.0      | 7.4      | 12.1      | 8.3      | 12.3      | 9.4      | 12.5      | 11.2     | 12.7      | 12.3     |
|                                                        | 1.0                   | 10.1            | 6.6      | 10.6      | 7.1      | 11.1      | 7.4      | 11.2      | 7.9      | 11.4      | 8.9      | 11.6      | 9.4      | 11.5      | 10.4     | 12.1      | 12.3     | 12.2      | 13.2     |
| 2GC 2LB/ 15                                            | 0.2                   | 16.5            | 2.9      | 16.7      | 3.4      | 17.0      | 3.6      | 17.2      | 4.1      | 17.4      | 4.8      | 17.6      | 5.7      | 17.8      | 6.7      | 18.0      | 8.8      | 18.2      | 9.8      |
|                                                        | 0.4                   | 16.0            | 4.2      | 16.2      | 4.6      | 16.5      | 4.9      | 16.7      | 5.4      | 16.9      | 6.0      | 17.2      | 7.0      | 17.3      | 8.0      | 17.5      | 10.0     | 17.8      | 11.0     |
|                                                        | 0.6                   | 15.4            | 5.5      | 15.7      | 5.9      | 16.0      | 6.3      | 16.1      | 6.7      | 16.2      | 7.3      | 16.7      | 8.3      | 16.8      | 9.4      | 17.0      | 11.3     | 17.5      | 12.4     |
|                                                        | 0.8                   | 14.8            | 6.7      | 15.2      | 7.2      | 15.3      | 7.6      | 15.4      | 8.0      | 15.4      | 8.6      | 16.2      | 9.6      | 16.3      | 10.7     | 16.6      | 12.6     | 17.1      | 13.7     |
|                                                        | 1.0                   | 14.3            | 7.5      | 14.4      | 8.3      | 14.5      | 8.9      | 14.6      | 9.4      | 14.6      | 10.0     | 15.7      | 10.8     | 15.8      | 12.0     | 16.2      | 13.9     | 16.7      | 15.0     |
| 2GC 2LB/ 25                                            | 0.2                   | 26.5            | 5.8      | 27.2      | 6.6      | 27.9      | 7.4      | 28.6      | 8.5      | 29.5      | 10.1     | 30.2      | 12.1     | 30.9      | 14.8     | 31.7      | 19.3     | 32.5      | 21.8     |
|                                                        | 0.4                   | 25.0            | 7.7      | 25.8      | 8.7      | 26.5      | 9.4      | 27.3      | 10.6     | 28.2      | 12.0     | 28.9      | 14.1     | 29.6      | 16.7     | 30.7      | 21.2     | 31.1      | 23.8     |
|                                                        | 0.6                   | 23.5            | 9.6      | 24.3      | 10.6     | 25.1      | 11.4     | 25.9      | 12.5     | 26.7      | 14.0     | 27.6      | 16.1     | 28.3      | 18.7     | 29.1      | 23.3     | 29.9      | 25.8     |
|                                                        | 0.8                   | 22.0            | 11.6     | 22.8      | 12.6     | 23.6      | 13.3     | 24.5      | 14.5     | 25.5      | 15.9     | 26.2      | 18.0     | 26.9      | 20.6     | 27.7      | 25.2     | 28.5      | 27.7     |
|                                                        | 1.0                   | 20.4            | 13.7     | 21.3      | 14.5     | 22.0      | 15.2     | 24.1      | 16.4     | 24.3      | 17.9     | 25.0      | 20.0     | 25.7      | 22.7     | 26.4      | 27.2     | 27.1      | 29.7     |
| 2GC 2LB/ 35                                            | 0.2                   | 37.6            | 9.1      | 38.8      | 10.1     | 40.4      | 10.8     | 40.7      | 11.9     | 41.1      | 13.2     | 41.6      | 15.4     | 42.1      | 17.9     | 42.7      | 22.2     | 43.2      | 24.6     |
|                                                        | 0.4                   | 36.2            | 12.0     | 37.0      | 12.8     | 39.5      | 13.6     | 38.9      | 14.6     | 39.6      | 16.0     | 40.2      | 18.1     | 40.8      | 20.6     | 41.5      | 25.0     | 42.1      | 27.4     |
|                                                        | 0.6                   | 34.6            | 14.8     | 35.2      | 15.6     | 37.5      | 16.3     | 37.0      | 17.5     | 38.1      | 18.8     | 38.7      | 20.9     | 39.4      | 23.4     | 40.2      | 27.8     | 41.0      | 30.1     |
|                                                        | 0.8                   | 32.9            | 17.5     | 33.5      | 18.4     | 35.4      | 19.2     | 35.0      | 20.3     | 36.5      | 21.6     | 37.2      | 23.6     | 38.0      | 26.2     | 38.8      | 30.6     | 39.8      | 33.0     |
|                                                        | 1.0                   | 31.2            | 20.3     | 32.0      | 21.2     | 33.3      | 22.0     | 33.4      | 23.0     | 35.0      | 24.5     | 35.5      | 26.4     | 36.4      | 28.9     | 37.3      | 33.4     | 38.6      | 35.8     |
| 2GC 2LB/ 50                                            | 0.2                   | 53.0            | 10.9     | 53.5      | 11.9     | 54.7      | 12.6     | 54.9      | 13.8     | 55.8      | 15.4     | 56.7      | 17.4     | 57.7      | 20.2     | 58.8      | 24.8     | 60.0      | 27.4     |
|                                                        | 0.4                   | 50.7            | 14.4     | 51.4      | 15.4     | 52.1      | 16.2     | 53.0      | 17.4     | 54.0      | 15.8     | 54.8      | 21.0     | 55.7      | 23.6     | 56.7      | 28.3     | 57.7      | 30.8     |
|                                                        | 0.6                   | 48.4            | 18.0     | 49.2      | 18.9     | 50.0      | 19.7     | 51.1      | 20.9     | 52.1      | 22.3     | 52.9      | 24.5     | 53.6      | 27.2     | 54.5      | 31.9     | 55.4      | 34.4     |
|                                                        | 0.8                   | 46.0            | 21.5     | 47.0      | 22.4     | 48.0      | 23.3     | 49.1      | 24.5     | 50.2      | 25.9     | 50.9      | 28.1     | 51.6      | 30.7     | 52.3      | 35.4     | 53.0      | 37.9     |
|                                                        | 1.0                   | 43.6            | 25.1     | 44.8      | 26.0     | 45.9      | 26.8     | 47.0      | 28.0     | 48.1      | 29.4     | 48.8      | 31.6     | 49.8      | 34.4     | 50.6      | 39.0     | 51.4      | 41.5     |
| 2GC 2LB/ 80                                            | 0.2                   | 92.0            | 11.2     | 93.0      | 12.4     | 93.9      | 13.3     | 94.0      | 14.9     | 94.5      | 16.8     | 95.0      | 19.4     | 96.0      | 22.9     | 97.0      | 28.9     | 98.0      | 32.3     |
|                                                        | 0.4                   | 86.4            | 17.3     | 87.8      | 18.5     | 88.7      | 19.6     | 89.8      | 21.0     | 91.0      | 22.9     | 91.4      | 25.7     | 93.0      | 29.2     | 94.2      | 35.2     | 95.4      | 38.4     |
|                                                        | 0.6                   | 81.0            | 23.5     | 82.7      | 24.7     | 84.2      | 25.7     | 85.7      | 27.2     | 87.5      | 29.0     | 88.7      | 31.9     | 90.0      | 35.4     | 91.4      | 41.3     | 92.7      | 44.6     |
|                                                        | 0.8                   | 75.0            | 29.8     | 77.5      | 31.0     | 79.5      | 31.9     | 81.5      | 33.5     | 84.0      | 35.4     | 85.5      | 38.0     | 87.0      | 41.6     | 88.5      | 47.5     | 90.0      | 50.8     |
|                                                        | 1.0                   | 70.0            | 35.9     | 73.0      | 37.1     | 74.2      | 38.2     | 77.8      | 39.6     | 80.0      | 41.6     | 82.0      | 44.5     | 84.0      | 47.8     | 85.5      | 53.8     | 87.0      | 57.0     |
| 0.04MPa The above values is at vacuum value of 0.04MPa |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |

| speed n=1450r/min                                      |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |  |
|--------------------------------------------------------|-----------------------|-----------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|--|
| size                                                   | Delivery pressure MPa | Viscosity mm²/s |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |  |
|                                                        |                       | 1               |          | 10        |          | 20        |          | 40        |          | 75        |          | 150       |          | 300       |          | 750       |          | 1500      |          |  |
|                                                        |                       | flow m³/h       | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW |  |
| 2GC 2LB/ 100                                           | 0.2                   | 105.0           | 12.1     | 108.0     | 13.4     | 110.0     | 14.5     | 112.0     | 16.0     | 114.0     | 18.1     | 116.0     | 21.0     | 118.0     | 24.6     | 120.0     | 30.8     | 122.0     | 34.3     |  |
|                                                        | 0.4                   | 102.0           | 19.2     | 104.0     | 20.4     | 106.0     | 21.5     | 108.0     | 23.0     | 110.0     | 25.8     | 113.0     | 28.0     | 114.0     | 31.2     | 116.0     | 37.8     | 118.0     | 41.3     |  |
|                                                        | 0.6                   | 98.0            | 26.2     | 100.0     | 27.5     | 102.0     | 28.4     | 104.0     | 30.1     | 106.0     | 32.0     | 110.0     | 34.9     | 110.0     | 38.5     | 112.0     | 44.9     | 114.0     | 48.2     |  |
|                                                        | 0.8                   | 93.0            | 33.1     | 96.0      | 34.4     | 98.0      | 35.5     | 100.0     | 37.1     | 102.0     | 39.7     | 106.0     | 42.0     | 108.0     | 45.6     | 106.0     | 51.8     | 108.0     | 55.3     |  |
|                                                        | 1.0                   | 88.0            | 39.2     | 92.0      | 41.4     | 94.0      | 42.5     | 96.0      | 44.1     | 98.0      | 46.1     | 102.0     | 48.9     | 104.0     | 52.6     | 108.0     | 58.8     | 106.0     | 62.3     |  |
| 2GC 2LB/ 120                                           | 0.2                   | 131.0           | 18.5     | 132.0     | 18.7     | 133.0     | 19.2     | 134.0     | 20.2     | 135.0     | 22.0     | 136.0     | 24.2     | 137.0     | 27.3     | 138.0     | 30.9     | 138.0     | 35.9     |  |
|                                                        | 0.4                   | 125.0           | 23.5     | 127.0     | 24.4     | 128.0     | 25.1     | 129.0     | 26.0     | 130.0     | 28.1     | 132.0     | 31.3     | 133.0     | 34.1     | 135.0     | 38.1     | 135.0     | 41.0     |  |
|                                                        | 0.6                   | 118.0           | 29.6     | 121.0     | 31.0     | 123.0     | 31.1     | 124.0     | 33.1     | 125.0     | 35.0     | 126.0     | 38.8     | 129.0     | 41.2     | 131.0     | 45.3     | 131.0     | 47.9     |  |
|                                                        | 0.8                   | 113.0           | 37.4     | 115.0     | 38.0     | 117.0     | 38.8     | 119.0     | 40.8     | 121.0     | 42.1     | 123.0     | 45.4     | 125.0     | 48.5     | 127.0     | 51.5     | 129.0     | 54.9     |  |
|                                                        | 1.0                   | 108.0           | 45.0     | 110.0     | 45.6     | 112.0     | 46.5     | 114.0     | 48.5     | 116.0     | 49.9     | 119.0     | 53.2     | 121.0     | 56.5     | 123.0     | 59.3     | 125.0     | 62.8     |  |
| 2GC 2LB/ 150                                           | 0.2                   | 152.0           | 21.4     | 155.0     | 21.9     | 158.0     | 22.8     | 161.0     | 24.2     | 164.0     | 26.7     | 166.0     | 29.5     | 169.0     | 33.0     | 172.0     | 38.0     | 175.0     | 43.0     |  |
|                                                        | 0.4                   | 148.0           | 27.8     | 151.0     | 28.4     | 154.0     | 30.1     | 157.0     | 31.6     | 160.0     | 34.5     | 162.0     | 36.5     | 165.0     | 40.1     | 168.0     | 46.1     | 171.0     | 50.5     |  |
|                                                        | 0.6                   | 143.0           | 34.8     | 146.0     | 35.7     | 149.0     | 37.9     | 152.0     | 39.1     | 155.0     | 42.4     | 158.0     | 44.8     | 161.0     | 48.9     | 164.0     | 54.2     | 167.0     | 59.0     |  |
|                                                        | 0.8                   | 138.0           | 42.7     | 141.0     | 43.7     | 144.0     | 45.4     | 147.0     | 47.6     | 150.0     | 51.5     | 153.0     | 53.8     | 156.0     | 58.4     | 159.0     | 63.0     | 162.0     | 68.9     |  |
|                                                        | 1.0                   | 133.0           | 51.6     | 136.0     | 52.7     | 139.0     | 54.2     | 142.0     | 57.0     | 145.0     | 61.2     | 148.0     | 63.6     | 151.0     | 68.4     | 155.0     | 73.2     | 158.0     | 79.3     |  |
| 2GC 2LB/ 200                                           | 0.2                   | 209.0           | 29.5     | 209.0     | 29.8     | 210.0     | 31.2     | 211.0     | 32.8     | 212.0     | 34.5     | 213.0     | 37.8     | 214.0     | 41.7     | 215.0     | 47.5     | 216.0     | 53.1     |  |
|                                                        | 0.4                   | 205.0           | 38.5     | 205.0     | 38.6     | 206.0     | 40.2     | 207.0     | 41.2     | 209.0     | 43.2     | 210.0     | 46.8     | 211.0     | 50.2     | 212.0     | 58.2     | 218.0     | 62.9     |  |
|                                                        | 0.6                   | 201.0           | 48.5     | 202.0     | 49.2     | 203.0     | 50.1     | 203.0     | 51.1     | 205.0     | 54.0     | 206.0     | 56.5     | 207.0     | 61.8     | 208.0     | 68.7     | 209.0     | 73.8     |  |
|                                                        | 0.8                   | 196.0           | 60.0     | 198.0     | 60.8     | 199.0     | 61.8     | 199.0     | 62.9     | 200.0     | 65.3     | 201.0     | 68.6     | 202.0     | 73.8     | 203.0     | 81.2     | 204.0     | 86.7     |  |
|                                                        | 1.0                   | 191.0           | 72.2     | 194.0     | 73.0     | 196.0     | 74.0     | 196.0     | 75.1     | 197.0     | 76.8     | 198.0     | 80.5     | 199.0     | 86.0     | 200.0     | 93.0     | 201.0     | 99.0     |  |
| 2GC 2LB/ 250                                           | 0.2                   | 260.0           | 35.8     | 262.0     | 37.0     | 264.0     | 39.0     | 266.0     | 41.3     | 268.0     | 43.1     | 269.0     | 45.9     | 270.0     | 48.9     | 271.0     | 55.6     | 273.0     | 62.1     |  |
|                                                        | 0.4                   | 256.0           | 40.5     | 258.0     | 42.1     | 260.0     | 43.8     | 262.0     | 46.0     | 264.0     | 49.0     | 265.0     | 54.0     | 266.0     | 60.2     | 267.0     | 70.6     | 269.0     | 76.6     |  |
|                                                        | 0.6                   | 252.0           | 49.8     | 254.0     | 53.7     | 256.0     | 57.5     | 258.0     | 61.0     | 260.0     | 64.5     | 261.0     | 68.9     | 262.0     | 75.1     | 263.0     | 85.8     | 265.0     | 91.4     |  |
|                                                        | 0.8                   | 248.0           | 59.5     | 250.0     | 65.1     | 252.0     | 70.2     | 254.0     | 75.5     | 256.0     | 80.9     | 257.0     | 83.9     | 257.0     | 90.1     | 258.0     | 99.7     | 260.0     | 104.0    |  |
|                                                        | 1.0                   | 244.0           | 71.0     | 246.0     | 76.5     | 248.0     | 82.5     | 250.0     | 89.5     | 251.0     | 95.0     | 253.0     | 98.0     | 254.0     | 105.0    | 255.0     | 115.0    | 256.0     | 118.0    |  |
| 2GC 2LB/ 300                                           | 0.2                   | 316.0           | 40.8     | 318.0     | 43.0     | 320.0     | 45.1     | 321.0     | 48.2     | 322.0     | 51.0     | 323.0     | 54.7     | 324.0     | 58.8     | 325.0     | 66.6     | 326.0     | 73.7     |  |
|                                                        | 0.4                   | 310.0           | 49.1     | 312.0     | 52.0     | 313.0     | 55.0     | 314.0     | 57.1     | 315.0     | 60.1     | 317.0     | 65.7     | 318.0     | 72.7     | 320.0     | 84.4     | 322.0     | 91.5     |  |
|                                                        | 0.6                   | 303.0           | 63.0     | 305.0     | 66.8     | 306.0     | 70.5     | 307.0     | 72.7     | 308.0     | 76.8     | 310.0     | 81.9     | 312.0     | 89.2     | 315.0     | 101.6    | 317.0     | 108.0    |  |
|                                                        | 0.8                   | 296.0           | 72.0     | 298.0     | 76.5     | 297.0     | 82.5     | 299.0     | 87.0     | 300.0     | 93.8     | 303.0     | 99.1     | 306.0     | 106.0    | 309.0     | 118.0    | 312.0     | 124.0    |  |
|                                                        | 1.0                   | 290.0           | 85.0     | 291.0     | 88.0     | 291.0     | 95.0     | 293.0     | 103.0    | 294.0     | 112.0    | 297.0     | 119.0    | 300.0     | 122.0    | 303.0     | 138.0    | 307.0     | 145.0    |  |
| 2GC 2LB/ 350                                           | 0.2                   | 368.0           | 47.5     | 370.0     | 50.0     | 371.0     | 53.4     | 371.0     | 55.7     | 372.0     | 58.9     | 373.0     | 66.1     | 374.0     | 67.9     | 375.0     | 76.8     | 376.0     | 85.0     |  |
|                                                        | 0.4                   | 361.0           | 57.2     | 363.0     | 60.9     | 365.0     | 64.3     | 366.0     | 66.6     | 367.0     | 70.1     | 368.0     | 76.3     | 369.0     | 84.4     | 370.0     | 93.6     | 371.0     | 105.0    |  |
|                                                        | 0.6                   | 353.0           | 69.8     | 356.0     | 74.0     | 358.0     | 83.0     | 360.0     | 85.3     | 361.0     | 90.0     | 363.0     | 95.9     | 364.0     | 104.0    | 366.0     | 114.0    | 367.0     | 124.0    |  |
|                                                        | 0.8                   | 345.0           | 82.7     | 348.0     | 90.0     | 351.0     | 97.8     | 353.0     | 105.0    | 355.0     | 110.0    | 357.0     | 117.0    | 359.0     | 124.0    | 361.0     | 134.0    | 362.0     | 145.0    |  |
|                                                        | 1.0                   | 338.0           | 96.0     | 341.0     | 109.0    | 344.0     | 116.0    | 346.0     | 125.0    | 350.0     | 132.0    | 352.0     | 139.0    | 355.0     | 148.0    | 357.0     | 158.0    | 358.0     | 170.0    |  |
| 0.04MPa The above values is at vacuum value of 0.04MPa |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |  |

| speed n=1450r/min                                      |                       |                 |          |            |          |            |          |            |          |            |          |            |          |            |          |            |          |            |          |
|--------------------------------------------------------|-----------------------|-----------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|
| size                                                   | Delivery pressure MPa | Viscosity mm²/s |          |            |          |            |          |            |          |            |          |            |          |            |          |            |          |            |          |
|                                                        |                       | 1               |          | 10         |          | 20         |          | 40         |          | 75         |          | 150        |          | 300        |          | 750        |          | 1500       |          |
|                                                        |                       | flow m³ /h      | power kW | flow m³ /h | power kW | flow m³ /h | power kW | flow m³ /h | power kW | flow m³ /h | power kW | flow m³ /h | power kW | flow m³ /h | power kW | flow m³ /h | power kW | flow m³ /h | power kW |
| 2GC 2LB/ 400                                           | 0.2                   | 414.0           | 53.4     | 416.0      | 56.2     | 417.0      | 60.0     | 418.0      | 62.7     | 419.0      | 66.3     | 420.0      | 71.0     | 421.0      | 76.4     | 422.0      | 86.2     | 424.0      | 98.4     |
|                                                        | 0.4                   | 408.0           | 66.6     | 411.0      | 71.2     | 413.0      | 75.1     | 414.0      | 74.2     | 415.0      | 87.1     | 416.0      | 92.5     | 417.0      | 104.0    | 418.0      | 130.0    | 420.0      | 133.0    |
|                                                        | 0.6                   | 402.0           | 93.8     | 404.0      | 97.0     | 409.0      | 99.7     | 409.0      | 104.0    | 407.0      | 110.0    | 410.0      | 116.0    | 412.0      | 126.0    | 419.0      | 145.0    | 416.0      | 155.0    |
|                                                        | 0.8                   | 396.0           | 122.0    | 401.0      | 124.0    | 405.0      | 125.0    | 405.0      | 129.0    | 404.0      | 135.0    | 409.0      | 139.0    | 407.0      | 149.0    | 410.0      | 167.0    | 411.0      | 177.0    |
|                                                        | 1.0                   | 392.0           | 152.0    | 396.0      | 154.0    | 398.0      | 157.0    | 400.0      | 161.0    | 401.0      | 166.0    | 402.0      | 172.0    | 403.0      | 182.0    | 405.0      | 197.0    | 408.0      | 207.0    |
| 2GC 2LB/ 440                                           | 0.2                   | 465.0           | 59.9     | 466.0      | 62.9     | 468.0      | 67.3     | 469.0      | 70.3     | 470.0      | 74.3     | 471.0      | 79.6     | 471.0      | 85.7     | 472.0      | 96.4     | 473.0      | 107.0    |
|                                                        | 0.4                   | 458.0           | 74.8     | 460.0      | 80.0     | 463.0      | 86.0     | 465.0      | 98.0     | 474.0      | 99.7     | 465.0      | 104.0    | 466.0      | 116.0    | 466.0      | 138.0    | 467.0      | 149.0    |
|                                                        | 0.6                   | 451.0           | 105.0    | 453.0      | 109.0    | 454.0      | 114.0    | 455.0      | 130.0    | 467.0      | 126.0    | 458.0      | 130.0    | 459.0      | 142.0    | 460.0      | 163.0    | 461.0      | 174.0    |
|                                                        | 0.8                   | 444.0           | 137.0    | 446.0      | 139.0    | 448.0      | 140.0    | 449.0      | 160.0    | 450.0      | 151.0    | 451.0      | 155.0    | 452.0      | 167.0    | 453.0      | 187.0    | 454.0      | 198.0    |
|                                                        | 1.0                   | 436.0           | 174.0    | 438.0      | 177.0    | 439.0      | 179.0    | 440.0      | 195.0    | 441.0      | 184.0    | 443.0      | 185.0    | 445.0      | 197.0    | 447.0      | 218.0    | 448.0      | 228.0    |
| 2GC 2LB/ 500                                           | 0.2                   | 515.0           | 61.0     | 518.0      | 64.0     | 520.0      | 69.0     | 521.0      | 75.0     | 522.0      | 86.0     | 522.0      | 88.0     | 522.0      | 95.0     | 522.0      | 106.0    | 523.0      | 118.0    |
|                                                        | 0.4                   | 508.0           | 83.0     | 511.0      | 89.0     | 513.0      | 93.0     | 514.0      | 98.0     | 516.0      | 108.0    | 516.0      | 115.0    | 517.0      | 128.0    | 518.0      | 153.0    | 519.0      | 165.0    |
|                                                        | 0.6                   | 501.0           | 117.0    | 504.0      | 121.0    | 506.0      | 124.0    | 507.0      | 130.0    | 509.0      | 137.0    | 509.0      | 144.0    | 510.0      | 157.0    | 511.0      | 181.0    | 512.0      | 193.0    |
|                                                        | 0.8                   | 493.0           | 146.0    | 496.0      | 150.0    | 498.0      | 153.0    | 499.0      | 160.0    | 503.0      | 167.0    | 503.0      | 173.0    | 504.0      | 185.0    | 505.0      | 207.0    | 506.0      | 220.0    |
|                                                        | 1.0                   | 486.0           | 180.0    | 489.0      | 184.0    | 491.0      | 187.0    | 492.0      | 195.0    | 496.0      | 202.0    | 497.0      | 208.0    | 501.0      | 220.0    | 502.0      | 233.0    | 503.0      | 256.0    |
| 2GC 2LB/ 600                                           | 0.2                   | 612.0           | 66.5     | 617.0      | 69.0     | 622.0      | 75.0     | 626.0      | 78.0     | 630.0      | 86.0     | 633.0      | 99.0     | 637.0      | 115.0    | 641.0      | 142.0    | 646.0      | 160.0    |
|                                                        | 0.4                   | 603.0           | 96.0     | 608.0      | 101.0    | 613.0      | 104.0    | 617.0      | 112.0    | 622.0      | 122.0    | 622.0      | 134.0    | 631.0      | 151.0    | 636.0      | 180.0    | 641.0      | 196.0    |
|                                                        | 0.6                   | 593.0           | 135.0    | 599.0      | 139.0    | 604.0      | 142.0    | 608.0      | 149.0    | 614.0      | 158.0    | 615.0      | 169.0    | 625.0      | 187.0    | 630.0      | 215.0    | 635.0      | 231.0    |
|                                                        | 0.8                   | 582.0           | 174.0    | 588.0      | 176.0    | 594.0      | 179.0    | 598.0      | 185.0    | 605.0      | 194.0    | 605.0      | 204.0    | 618.0      | 222.0    | 624.0      | 250.0    | 628.0      | 265.0    |
|                                                        | 1.0                   | 570.0           | 214.0    | 577.0      | 214.0    | 583.0      | 216.0    | 587.0      | 220.0    | 596.0      | 229.0    | 604.0      | 241.0    | 611.0      | 257.0    | 617.0      | 284.0    | 621.0      | 299.0    |
| 2GC 2LB/ 650                                           | 0.2                   | 668.0           | 68.0     | 673.0      | 71.0     | 678.0      | 75.0     | 683.0      | 82.0     | 687.0      | 94.0     | 690.0      | 106.0    | 693.0      | 124.0    | 696.0      | 156.0    | 700.0      | 174.0    |
|                                                        | 0.4                   | 657.0           | 105.0    | 663.0      | 110.0    | 669.0      | 115.0    | 674.0      | 122.0    | 678.0      | 133.0    | 682.0      | 147.0    | 686.0      | 164.0    | 690.0      | 195.0    | 695.0      | 212.0    |
|                                                        | 0.6                   | 645.0           | 147.0    | 652.0      | 151.0    | 659.0      | 155.0    | 665.0      | 162.0    | 669.0      | 172.0    | 676.0      | 186.0    | 679.0      | 203.0    | 683.0      | 233.0    | 689.0      | 250.0    |
|                                                        | 0.8                   | 633.0           | 190.0    | 641.0      | 192.0    | 648.0      | 196.0    | 654.0      | 202.0    | 660.0      | 212.0    | 665.0      | 224.0    | 671.0      | 241.0    | 676.0      | 271.0    | 683.0      | 288.0    |
|                                                        | 1.0                   | 620.0           | 233.0    | 629.0      | 233.0    | 636.0      | 236.0    | 643.0      | 241.0    | 650.0      | 250.0    | 656.0      | 262.0    | 662.0      | 278.0    | 669.0      | 308.0    | 676.0      | 325.0    |
| 2GC 2LB/ 700                                           | 0.2                   | 721.0           | 69.0     | 727.0      | 75.0     | 732.0      | 81.0     | 737.0      | 89.0     | 741.0      | 101.0    | 745.0      | 116.0    | 747.0      | 134.0    | 749.0      | 168.0    | 753.0      | 186.0    |
|                                                        | 0.4                   | 709.0           | 113.0    | 715.0      | 118.0    | 721.0      | 123.0    | 727.0      | 132.0    | 732.0      | 144.0    | 736.0      | 158.0    | 740.0      | 177.0    | 743.0      | 210.0    | 748.0      | 228.0    |
|                                                        | 0.6                   | 696.0           | 159.0    | 703.0      | 163.0    | 710.0      | 167.0    | 717.0      | 175.0    | 723.0      | 186.0    | 726.0      | 200.0    | 732.0      | 218.0    | 737.0      | 251.0    | 743.0      | 270.0    |
|                                                        | 0.8                   | 683.0           | 205.0    | 690.0      | 207.0    | 698.0      | 211.0    | 706.0      | 218.0    | 713.0      | 229.0    | 713.0      | 240.0    | 724.0      | 260.0    | 731.0      | 293.0    | 738.0      | 312.0    |
|                                                        | 1.0                   | 668.0           | 251.0    | 677.0      | 251.0    | 686.0      | 255.0    | 694.0      | 260.0    | 702.0      | 270.0    | 709.0      | 283.0    | 716.0      | 300.0    | 724.0      | 333.0    | 732.0      | 352.0    |
| 0.04MPa The above values is at vacuum value of 0.04MPa |                       |                 |          |            |          |            |          |            |          |            |          |            |          |            |          |            |          |            |          |

| speed n=1450r/min                              |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |
|------------------------------------------------|-----------------------|-----------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| size                                           | Delivery pressure MPa | Viscosity mm²/s |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |
|                                                |                       | 1               |          | 10        |          | 20        |          | 40        |          | 75        |          | 150       |          | 300       |          | 750       |          | 1500      |          |
|                                                |                       | flow m³/h       | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW |
| 2GC 2LB/ 750                                   | 0.2                   | 770             | 74       | 777       | 80       | 783       | 86       | 787       | 95       | 790       | 107      | 793       | 123      | 797       | 143      | 800       | 179      | 803       | 198      |
|                                                | 0.4                   | 755             | 111      | 763       | 126      | 770       | 132      | 775       | 140      | 780       | 153      | 784       | 169      | 789       | 188      | 794       | 224      | 798       | 243      |
|                                                | 0.6                   | 740             | 169      | 749       | 173      | 757       | 178      | 763       | 186      | 769       | 197      | 775       | 213      | 781       | 233      | 787       | 269      | 793       | 288      |
|                                                | 0.8                   | 725             | 217      | 734       | 220      | 744       | 225      | 751       | 232      | 758       | 243      | 765       | 258      | 772       | 277      | 780       | 312      | 787       | 332      |
|                                                | 1.0                   | 708             | 265      | 719       | 267      | 729       | 270      | 738       | 277      | 747       | 287      | 755       | 302      | 763       | 320      | 772       | 358      | 781       | 375      |
| 2GC 2LB/ 800                                   | 0.2                   | 820             | 80       | 830       | 84       | 836       | 90       | 843       | 99       | 848       | 107      | 850       | 127      | 857       | 148      | 860       | 180      | 865       | 203      |
|                                                | 0.4                   | 805             | 130      | 815       | 137      | 823       | 143      | 830       | 150      | 835       | 161      | 841       | 177      | 850       | 232      | 854       | 232      | 860       | 254      |
|                                                | 0.6                   | 790             | 181      | 805       | 186      | 808       | 191      | 815       | 198      | 825       | 207      | 830       | 224      | 842       | 276      | 848       | 276      | 854       | 304      |
|                                                | 0.8                   | 765             | 242      | 780       | 246      | 795       | 252      | 800       | 260      | 815       | 269      | 819       | 285      | 834       | 328      | 838       | 328      | 850       | 353      |
|                                                | 1.0                   | 760             | 343      | 770       | 345      | 785       | 349      | 790       | 357      | 800       | 362      | 810       | 370      | 825       | 397      | 831       | 442      | 840       | 455      |
| 2GC 2LB/ 900                                   | 0.2                   | 924             | 89       | 937       | 97       | 937       | 102      | 944       | 113      | 950       | 120      | 952       | 147      | 955       | 171      | 958       | 180      | 961       | 214      |
|                                                | 0.4                   | 908             | 146      | 916       | 152      | 923       | 158      | 931       | 168      | 939       | 176      | 942       | 202      | 947       | 225      | 952       | 240      | 957       | 276      |
|                                                | 0.6                   | 892             | 204      | 901       | 208      | 909       | 214      | 918       | 223      | 927       | 237      | 932       | 256      | 938       | 281      | 947       | 298      | 952       | 337      |
|                                                | 0.8                   | 875             | 262      | 885       | 265      | 895       | 270      | 905       | 279      | 925       | 292      | 922       | 310      | 929       | 335      | 940       | 357      | 947       | 397      |
|                                                | 1.0                   | 856             | 378      | 868       | 381      | 880       | 385      | 891       | 390      | 902       | 401      | 911       | 410      | 920       | 443      | 931       | 471      | 941       | 512      |
| 2GC 2LB/ 1000                                  | 0.2                   | 1017            | 98       | 1026      | 106      | 1035      | 112      | 1043      | 125      | 1051      | 133      | 1055      | 163      | 1058      | 191      | 1061      | 199      | 1065      | 237      |
|                                                | 0.4                   | 998             | 160      | 1007      | 167      | 1018      | 175      | 1027      | 185      | 1036      | 194      | 1042      | 223      | 1048      | 249      | 1053      | 265      | 1058      | 305      |
|                                                | 0.6                   | 978             | 223      | 988       | 228      | 1001      | 236      | 1011      | 245      | 1021      | 261      | 1030      | 285      | 1037      | 311      | 1045      | 329      | 1051      | 373      |
|                                                | 0.8                   | 957             | 286      | 969       | 290      | 983       | 297      | 995       | 306      | 1006      | 321      | 1017      | 342      | 1026      | 364      | 1036      | 394      | 1044      | 438      |
|                                                | 1.0                   | 936             | 397      | 949       | 346      | 965       | 439      | 978       | 424      | 992       | 439      | 1002      | 457      | 1014      | 490      | 1025      | 524      | 1036      | 570      |
| 2GC 2LB/ 1200                                  | 0.2                   | 1215            | 118      | 1224      | 128      | 1235      | 135      | 1244      | 150      | 1253      | 160      | 1257      | 196      | 1260      | 230      | 1263      | 239      | 1268      | 285      |
|                                                | 0.4                   | 1195            | 192      | 1207      | 201      | 1217      | 210      | 1226      | 222      | 1235      | 233      | 1240      | 268      | 1246      | 299      | 1250      | 318      | 1257      | 366      |
|                                                | 0.6                   | 1180            | 268      | 1190      | 274      | 1205      | 284      | 1215      | 294      | 1225      | 314      | 1234      | 342      | 1241      | 374      | 1245      | 395      | 1251      | 448      |
|                                                | 0.8                   | 1161            | 344      | 1172      | 348      | 1185      | 357      | 1197      | 368      | 1208      | 386      | 1218      | 411      | 1227      | 437      | 1237      | 473      | 1244      | 526      |
|                                                | 1.0                   | 1140            | 497      | 1151      | 500      | 1164      | 505      | 1179      | 510      | 1193      | 526      | 1203      | 549      | 1215      | 581      | 1225      | 629      | 1236      | 686      |
| 2GC 2LB/ 1500                                  | 0.2                   | 1518            | 148      | 1527      | 160      | 1536      | 169      | 1544      | 188      | 1552      | 200      | 1557      | 245      | 1560      | 288      | 1564      | 299      | 1569      | 357      |
|                                                | 0.4                   | 1495            | 240      | 1504      | 252      | 1515      | 263      | 1523      | 278      | 1532      | 292      | 1538      | 335      | 1544      | 374      | 1550      | 398      | 1555      | 458      |
|                                                | 0.6                   | 1475            | 335      | 1485      | 343      | 1502      | 355      | 1512      | 368      | 1522      | 393      | 1529      | 428      | 1536      | 468      | 1544      | 494      | 1550      | 560      |
|                                                | 0.8                   | 1455            | 430      | 1467      | 435      | 1481      | 447      | 1493      | 460      | 1504      | 483      | 1512      | 514      | 1521      | 547      | 1531      | 592      | 1540      | 658      |
|                                                | 1.0                   | 1435            | 600      | 1448      | 614      | 1464      | 625      | 1477      | 636      | 1491      | 657      | 1501      | 686      | 1513      | 729      | 1524      | 785      | 1536      | 852      |
| 0.04MPa                                        |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |
| The above values is at vacuum valus of 0.04MPa |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |



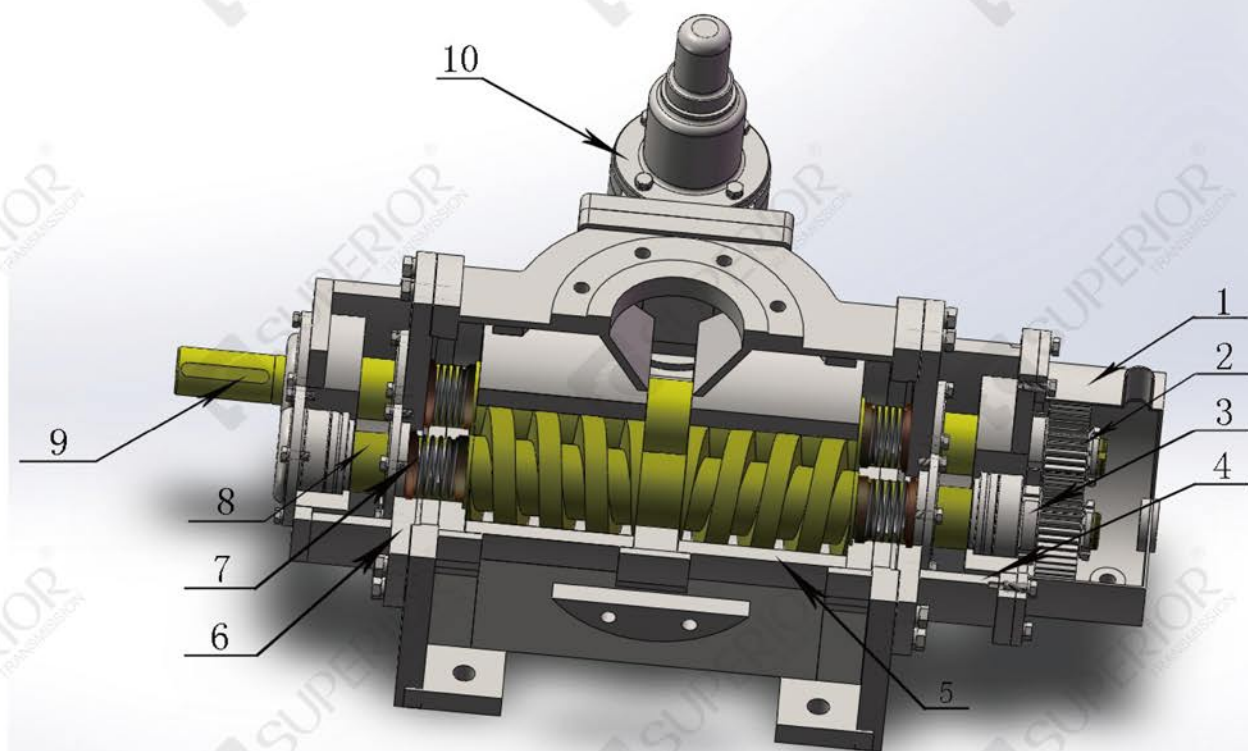


| speed n=1800r/min                                      |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |  |
|--------------------------------------------------------|-----------------------|-----------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|--|
| size                                                   | Delivery pressure MPa | Viscosity mm²/s |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |  |
|                                                        |                       | 1               |          | 10        |          | 20        |          | 40        |          | 75        |          | 150       |          | 300       |          | 750       |          | 1500      |          |  |
|                                                        |                       | flow m³/h       | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW | flow m³/h | power kW |  |
| 2GC 2LB/400                                            | 0.2                   | 414.0           | 51.8     | 416.0     | 54.6     | 417.0     | 58.3     | 418.0     | 60.9     | 419.0     | 64.4     | 420.0     | 74.2     | 421.0     | 74.2     | 422.0     | 83.7     | 424.0     | 95.5     |  |
|                                                        | 0.4                   | 408.0           | 64.7     | 411.0     | 69.1     | 413.0     | 72.9     | 414.0     | 72.0     | 415.0     | 84.6     | 416.0     | 100.0    | 417.0     | 100.0    | 418.0     | 119.0    | 420.0     | 129.0    |  |
|                                                        | 0.6                   | 402.0           | 91.0     | 406.0     | 94.2     | 409.0     | 96.8     | 409.0     | 101.0    | 410.0     | 107.0    | 410.0     | 122.0    | 412.0     | 122.0    | 419.0     | 141.0    | 416.0     | 151.0    |  |
|                                                        | 0.8                   | 396.0           | 118.0    | 401.0     | 120.0    | 405.0     | 122.0    | 405.0     | 125.0    | 406.0     | 131.0    | 407.0     | 145.0    | 409.0     | 145.0    | 410.0     | 162.0    | 411.0     | 172.0    |  |
|                                                        | 1.0                   | 392.0           | 148.0    | 396.0     | 150.0    | 400.0     | 153.0    | 401.0     | 156.0    | 402.0     | 161.0    | 403.0     | 177.0    | 404.0     | 177.0    | 405.0     | 191.0    | 408.0     | 200.0    |  |
| 2GC 2LB/440                                            | 0.2                   | 465.0           | 58.2     | 466.0     | 61.0     | 468.0     | 65.3     | 469.0     | 68.3     | 470.0     | 72.1     | 471.0     | 83.2     | 471.0     | 83.2     | 472.0     | 93.5     | 473.0     | 104.0    |  |
|                                                        | 0.4                   | 458.0           | 72.6     | 460.0     | 77.7     | 472.0     | 83.5     | 473.0     | 95.1     | 474.0     | 96.8     | 466.0     | 113.0    | 466.0     | 113.0    | 466.0     | 133.0    | 467.0     | 144.0    |  |
|                                                        | 0.6                   | 451.0           | 102.0    | 453.0     | 106.0    | 463.0     | 110.0    | 466.0     | 126.0    | 467.0     | 122.0    | 459.0     | 138.0    | 459.0     | 138.0    | 460.0     | 150.0    | 461.0     | 169.0    |  |
|                                                        | 0.8                   | 444.0           | 133.0    | 446.0     | 135.0    | 448.0     | 136.0    | 449.0     | 155.0    | 450.0     | 146.0    | 452.0     | 162.0    | 452.0     | 162.0    | 453.0     | 181.0    | 454.0     | 192.0    |  |
|                                                        | 1.0                   | 436.0           | 169.0    | 438.0     | 172.0    | 439.0     | 174.0    | 440.0     | 176.0    | 441.0     | 179.0    | 445.0     | 191.0    | 445.0     | 191.0    | 447.0     | 212.0    | 448.0     | 221.0    |  |
| 2GC 2LB/500                                            | 0.2                   | 515.0           | 57.3     | 518.0     | 62.1     | 520.0     | 67.0     | 521.0     | 72.8     | 521.0     | 83.4     | 522.0     | 92.2     | 522.0     | 92.2     | 522.0     | 103.0    | 523.0     | 115.0    |  |
|                                                        | 0.4                   | 508.0           | 80.6     | 511.0     | 86.4     | 513.0     | 90.3     | 514.0     | 95.1     | 515.0     | 105.0    | 517.0     | 124.0    | 517.0     | 124.0    | 518.0     | 149.0    | 519.0     | 160.0    |  |
|                                                        | 0.6                   | 501.0           | 114.0    | 504.0     | 117.0    | 506.0     | 120.0    | 507.0     | 126.0    | 509.0     | 133.0    | 510.0     | 150.0    | 510.0     | 152.0    | 511.0     | 176.0    | 512.0     | 187.0    |  |
|                                                        | 0.8                   | 493.0           | 142.0    | 496.0     | 146.0    | 498.0     | 149.0    | 499.0     | 155.0    | 503.0     | 162.0    | 504.0     | 180.0    | 504.0     | 180.0    | 505.0     | 201.0    | 506.0     | 212.0    |  |
|                                                        | 1.0                   | 486.0           | 175.0    | 489.0     | 179.0    | 491.0     | 182.0    | 492.0     | 189.0    | 495.0     | 196.0    | 501.0     | 214.0    | 501.0     | 214.0    | 502.0     | 226.0    | 503.0     | 249.0    |  |
| 2GC 2LB/600                                            | 0.2                   | 612.0           | 64.6     | 617.0     | 67.0     | 622.0     | 72.8     | 626.0     | 75.7     | 630.0     | 83.5     | 637.0     | 112.0    | 637.0     | 112.0    | 641.0     | 138.0    | 646.0     | 155.0    |  |
|                                                        | 0.4                   | 603.0           | 93.2     | 608.0     | 98.0     | 613.0     | 101.0    | 617.0     | 109.0    | 622.0     | 118.0    | 631.0     | 147.0    | 631.0     | 147.0    | 636.0     | 175.0    | 641.0     | 190.0    |  |
|                                                        | 0.6                   | 593.0           | 131.0    | 599.0     | 135.0    | 604.0     | 138.0    | 608.0     | 145.0    | 614.0     | 153.0    | 625.0     | 182.0    | 625.0     | 182.0    | 630.0     | 209.0    | 635.0     | 224.0    |  |
|                                                        | 0.8                   | 582.0           | 169.0    | 588.0     | 171.0    | 594.0     | 174.0    | 598.0     | 180.0    | 605.0     | 188.0    | 618.0     | 212.0    | 618.0     | 212.0    | 624.0     | 243.0    | 628.0     | 257.0    |  |
|                                                        | 1.0                   | 570.0           | 208.0    | 577.0     | 208.0    | 583.0     | 210.0    | 587.0     | 214.0    | 596.0     | 222.0    | 611.0     | 250.0    | 611.0     | 250.0    | 617.0     | 276.0    | 621.0     | 290.0    |  |
| 2GC 2LB/650                                            | 0.2                   | 668.0           | 62.1     | 673.0     | 68.9     | 678.0     | 72.8     | 683.0     | 79.6     | 687.0     | 91.3     | 693.0     | 120.0    | 693.0     | 120.0    | 696.0     | 151.0    | 700.0     | 169.0    |  |
|                                                        | 0.4                   | 657.0           | 102.0    | 663.0     | 107.0    | 669.0     | 112.0    | 674.0     | 118.0    | 678.0     | 129.0    | 686.0     | 159.0    | 686.0     | 159.0    | 690.0     | 189.0    | 695.0     | 206.0    |  |
|                                                        | 0.6                   | 645.0           | 143.0    | 652.0     | 147.0    | 659.0     | 150.0    | 665.0     | 157.0    | 669.0     | 167.0    | 679.0     | 197.0    | 679.0     | 197.0    | 683.0     | 226.0    | 689.0     | 243.0    |  |
|                                                        | 0.8                   | 633.0           | 185.0    | 641.0     | 186.0    | 648.0     | 190.0    | 654.0     | 196.0    | 660.0     | 206.0    | 671.0     | 234.0    | 671.0     | 234.0    | 676.0     | 263.0    | 683.0     | 280.0    |  |
|                                                        | 1.0                   | 620.0           | 226.0    | 629.0     | 226.0    | 636.0     | 229.0    | 643.0     | 234.0    | 650.0     | 243.0    | 662.0     | 270.0    | 662.0     | 270.0    | 669.0     | 299.0    | 676.0     | 316.0    |  |
| 2GC 2LB/700                                            | 0.2                   | 721.0           | 67.0     | 727.0     | 72.8     | 732.0     | 78.6     | 737.0     | 86.4     | 741.0     | 98.1     | 747.0     | 130.0    | 747.0     | 130.0    | 749.0     | 163.0    | 753.0     | 178.0    |  |
|                                                        | 0.4                   | 709.0           | 110.0    | 715.0     | 115.0    | 721.0     | 119.0    | 727.0     | 128.0    | 732.0     | 140.0    | 740.0     | 172.0    | 740.0     | 172.0    | 743.0     | 204.0    | 748.0     | 221.0    |  |
|                                                        | 0.6                   | 696.0           | 154.0    | 703.0     | 158.0    | 710.0     | 162.0    | 717.0     | 170.0    | 723.0     | 181.0    | 732.0     | 212.0    | 732.0     | 212.0    | 737.0     | 244.0    | 743.0     | 262.0    |  |
|                                                        | 0.8                   | 683.0           | 199.0    | 690.0     | 201.0    | 698.0     | 205.0    | 706.0     | 212.0    | 713.0     | 222.0    | 724.0     | 252.0    | 724.0     | 252.0    | 731.0     | 284.0    | 738.0     | 303.0    |  |
|                                                        | 1.0                   | 668.0           | 244.0    | 677.0     | 244.0    | 686.0     | 248.0    | 694.0     | 252.0    | 702.0     | 262.0    | 716.0     | 291.0    | 716.0     | 291.0    | 724.0     | 323.0    | 732.0     | 342.0    |  |
| 0.04MPa The above values is at vacuum valus of 0.04MPa |                       |                 |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |           |          |  |

| speed n=1800r/min                                      |                          |                    |             |               |             |               |             |               |             |               |             |               |             |               |             |               |             |               |             |
|--------------------------------------------------------|--------------------------|--------------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| size                                                   | Delivery pressure<br>MPa | 粘度 Viscosity mm²/s |             |               |             |               |             |               |             |               |             |               |             |               |             |               |             |               |             |
|                                                        |                          | 1                  |             | 10            |             | 20            |             | 40            |             | 75            |             | 150           |             | 300           |             | 750           |             | 1500          |             |
|                                                        |                          | flow<br>m³ /h      | power<br>kW | flow<br>m³ /h | power<br>kW | flow<br>m³ /h | power<br>kW | flow<br>m³ /h | power<br>kW | flow<br>m³ /h | power<br>kW | flow<br>m³ /h | power<br>kW | flow<br>m³ /h | power<br>kW | flow<br>m³ /h | power<br>kW | flow<br>m³ /h | power<br>kW |
| 2GC<br>2LB/<br>750                                     | 0.2                      | 770                | 108         | 777           | 122         | 783           | 128         | 787           | 136         | 790           | 149         | 797           | 183         | 797           | 183         | 800           | 217         | 803           | 236         |
|                                                        | 0.4                      | 755                | 164         | 763           | 168         | 770           | 173         | 775           | 181         | 780           | 191         | 789           | 226         | 789           | 226         | 794           | 261         | 798           | 280         |
|                                                        | 0.6                      | 740                | 211         | 749           | 214         | 757           | 218         | 763           | 225         | 769           | 236         | 781           | 269         | 781           | 269         | 787           | 303         | 793           | 322         |
|                                                        | 0.8                      | 725                | 257         | 734           | 259         | 744           | 262         | 751           | 269         | 758           | 279         | 772           | 311         | 772           | 311         | 780           | 348         | 787           | 364         |
|                                                        | 1.0                      | 708                | 276         | 719           | 281         | 729           | 287         | 738           | 294         | 747           | 301         | 763           | 337         | 763           | 327         | 772           | 368         | 781           | 390         |
| 2GC<br>2LB/<br>800                                     | 0.2                      | 820                | 126         | 830           | 133         | 836           | 139         | 843           | 146         | 848           | 156         | 850           | 172         | 857           | 225         | 860           | 233         | 865           | 247         |
|                                                        | 0.4                      | 805                | 176         | 815           | 181         | 823           | 185         | 830           | 192         | 835           | 201         | 841           | 217         | 850           | 268         | 854           | 274         | 860           | 295         |
|                                                        | 0.6                      | 795                | 235         | 805           | 239         | 808           | 245         | 815           | 252         | 825           | 261         | 830           | 277         | 842           | 318         | 848           | 327         | 854           | 343         |
|                                                        | 0.8                      | 765                | 283         | 780           | 286         | 795           | 291         | 800           | 299         | 815           | 309         | 819           | 325         | 834           | 374         | 838           | 379         | 850           | 396         |
|                                                        | 1.0                      | 760                | 333         | 770           | 335         | 785           | 339         | 790           | 347         | 800           | 351         | 810           | 359         | 825           | 385         | 831           | 429         | 840           | 442         |
| 2GC<br>2LB/<br>900                                     | 0.2                      | 924                | 142         | 937           | 148         | 937           | 153         | 944           | 163         | 950           | 171         | 952           | 196         | 955           | 218         | 958           | 233         | 961           | 268         |
|                                                        | 0.4                      | 908                | 198         | 916           | 202         | 923           | 208         | 931           | 217         | 939           | 230         | 942           | 249         | 947           | 273         | 952           | 289         | 957           | 327         |
|                                                        | 0.6                      | 892                | 254         | 901           | 257         | 909           | 262         | 918           | 271         | 927           | 283         | 932           | 300         | 938           | 325         | 947           | 347         | 952           | 385         |
|                                                        | 0.8                      | 875                | 311         | 885           | 313         | 895           | 317         | 905           | 322         | 925           | 336         | 922           | 353         | 929           | 377         | 940           | 404         | 947           | 445         |
|                                                        | 1.0                      | 856                | 367         | 868           | 370         | 880           | 374         | 891           | 379         | 902           | 389         | 911           | 398         | 920           | 430         | 931           | 457         | 941           | 497         |
| 2GC<br>2LB/<br>1000                                    | 0.2                      | 1017               | 155         | 1026          | 162         | 1035          | 170         | 1043          | 180         | 1051          | 188         | 1055          | 217         | 1058          | 242         | 1061          | 257         | 1065          | 296         |
|                                                        | 0.4                      | 998                | 217         | 1007          | 221         | 1018          | 229         | 1027          | 238         | 1036          | 253         | 1042          | 277         | 1048          | 302         | 1053          | 319         | 1058          | 362         |
|                                                        | 0.6                      | 978                | 278         | 988           | 282         | 1001          | 288         | 1011          | 397         | 1021          | 312         | 1030          | 332         | 1037          | 353         | 1045          | 383         | 1051          | 425         |
|                                                        | 0.8                      | 957                | 340         | 969           | 343         | 983           | 349         | 995           | 354         | 1006          | 369         | 1017          | 388         | 1026          | 415         | 1036          | 446         | 1044          | 490         |
|                                                        | 1.0                      | 936                | 385         | 949           | 404         | 965           | 426         | 978           | 412         | 992           | 426         | 1002          | 444         | 1014          | 476         | 1025          | 509         | 1036          | 553         |
| 2GC<br>2LB/<br>1200                                    | 0.2                      | 1215               | 115         | 1224          | 124         | 1235          | 131         | 1244          | 146         | 1253          | 155         | 1257          | 190         | 1260          | 223         | 1263          | 232         | 1268          | 277         |
|                                                        | 0.4                      | 1195               | 186         | 1207          | 195         | 1217          | 204         | 1226          | 216         | 1235          | 226         | 1240          | 260         | 1246          | 290         | 1250          | 309         | 1257          | 355         |
|                                                        | 0.6                      | 1180               | 260         | 1190          | 266         | 1205          | 276         | 1215          | 285         | 1225          | 305         | 1234          | 332         | 1241          | 363         | 1245          | 384         | 1251          | 435         |
|                                                        | 0.8                      | 1161               | 334         | 1172          | 338         | 1185          | 347         | 1197          | 357         | 1208          | 375         | 1218          | 399         | 1227          | 424         | 1237          | 459         | 1244          | 510         |
|                                                        | 1.0                      | 1140               | 483         | 1151          | 485         | 1164          | 490         | 1179          | 495         | 1193          | 511         | 1203          | 533         | 1215          | 564         | 1225          | 610         | 1236          | 666         |
| 2GC<br>2LB/<br>1500                                    | 0.2                      | 1518               | 144         | 1527          | 155         | 1536          | 164         | 1544          | 183         | 1552          | 194         | 1557          | 238         | 1560          | 280         | 1564          | 290         | 1569          | 347         |
|                                                        | 0.4                      | 1495               | 233         | 1504          | 245         | 1515          | 255         | 1523          | 270         | 1532          | 283         | 1538          | 325         | 1544          | 363         | 1550          | 386         | 1555          | 445         |
|                                                        | 0.6                      | 1475               | 325         | 1485          | 333         | 1502          | 345         | 1512          | 357         | 1522          | 382         | 1529          | 416         | 1536          | 454         | 1544          | 480         | 1550          | 544         |
|                                                        | 0.8                      | 1455               | 417         | 1467          | 422         | 1481          | 434         | 1493          | 447         | 1504          | 469         | 1512          | 499         | 1521          | 531         | 1531          | 575         | 1540          | 639         |
|                                                        | 1.0                      | 1435               | 583         | 1448          | 596         | 1464          | 607         | 1477          | 617         | 1491          | 638         | 1501          | 666         | 1513          | 707         | 1524          | 762         | 1536          | 827         |
| 0.04MPa The above values is at vacuum value of 0.04MPa |                          |                    |             |               |             |               |             |               |             |               |             |               |             |               |             |               |             |               |             |



Horizontal screw pump 1/4 profile attempt



1. gear ox

4. left shafting bracket

7. shafting gland device

10. safety valve device

2. Synchromesh gear

5. pump body

8. driven screw

3. bearing

6. right shafting bracket

9. driving screw



**SUPERIOR<sup>®</sup>**  
TRANSMISSION

Authorized Distributor