

标题: **Air hydraulic pump DGG series**

关键词

high pressure hydraulic pump

high pressure liquid pump

high pressure piston pump

high pressure pneumatic pump

high pressure water pump

air driven hydraulic pump

air driven liquid pump

air driven liquid pumps

air driven water pump

air operated hydraulic pump

compressed air driven hydraulic pump

haskel hydraulic pump

haskel pump

pneumatic driven hydraulic pump



MOQ: ۱ Set

Brand Name: SUNCENTER

Certificate: ISO/CE/SGS

Warranty: ۱۳ Months

Packaging: by Plywood case

Shipping Port: Shenzhen/Hongkong

Payment: T/T, Western Union, Credit card.

Transaction method: EXW, FOB, DDP, CIF, CFR

Place of Origin: Guangdong Province, China (Mainland)



Delivery Time: Within 10-15 working days after received deposit.

Compressed Air Driven Hydraulic Pump-DGG Series

We offer the most complete range of Air driven liquid pump models in the industry measured for:

- A. Capability of ultimate pressure, flow or output horsepower.
- B. Compatibility with a broad variety of liquids, such as oil, water and chemical applications.



SUNCENTER pumps are air driven at a drive air pressure of 1 bar to 1.6 bar (14.5 psi to 23.2 psi) by the normal air compressor. Basically the principle of operation is similar to a reciprocating amplifier where control of the piston at the end position is regulated by a pilot operated 3/2 way valve.

Suncenter pumps feature a large air piston joint to a smaller diameter plunger. The pressure ratio is the difference of these two areas and is the method of determining maximum outlet pressure. Higher pressures obtained by using higher pressure ratios. Suncenter model numbers reflect the pumps nominal pressure ratios, while the technical data indicates exact ratios. The outlet pressure is easily to set through a simple air regulator. By multiplying the pressure ratio by the available shop air pressure, the nominal liquid pressure can be calculated.

SUNCENTER pumps are self priming. In general it is not necessary to use an air line lubricator.

The liquid to be pumped flows into the suction chamber by the up-stroke of the drive piston. By this suction effect, the inlet check valve is opened and the outlet check valve is closed. The down-stroke generates the pressure at the liquid side. The inlet check valve is closed and the outlet check valve is opened by the generated pressure. SUNCENTER liquid pumps cycle automatically, where the pressure is built up the numbers of cycles slow down, the pump stops automatically when the output pressure forces are equal. The pump restarts with a slight drop in the outlet pressure or an increase in the air drive pressure. Pump performance can be affected by a number of conditions, such as freezing of muffler or pilot valves (which is caused by moisture in air lines), inadequate inlet air line sizes and dirty filters. Don't reduce the indicated port sizes and consult SUNCENTER for exact flow conditions not shown in charts.

Applications include:

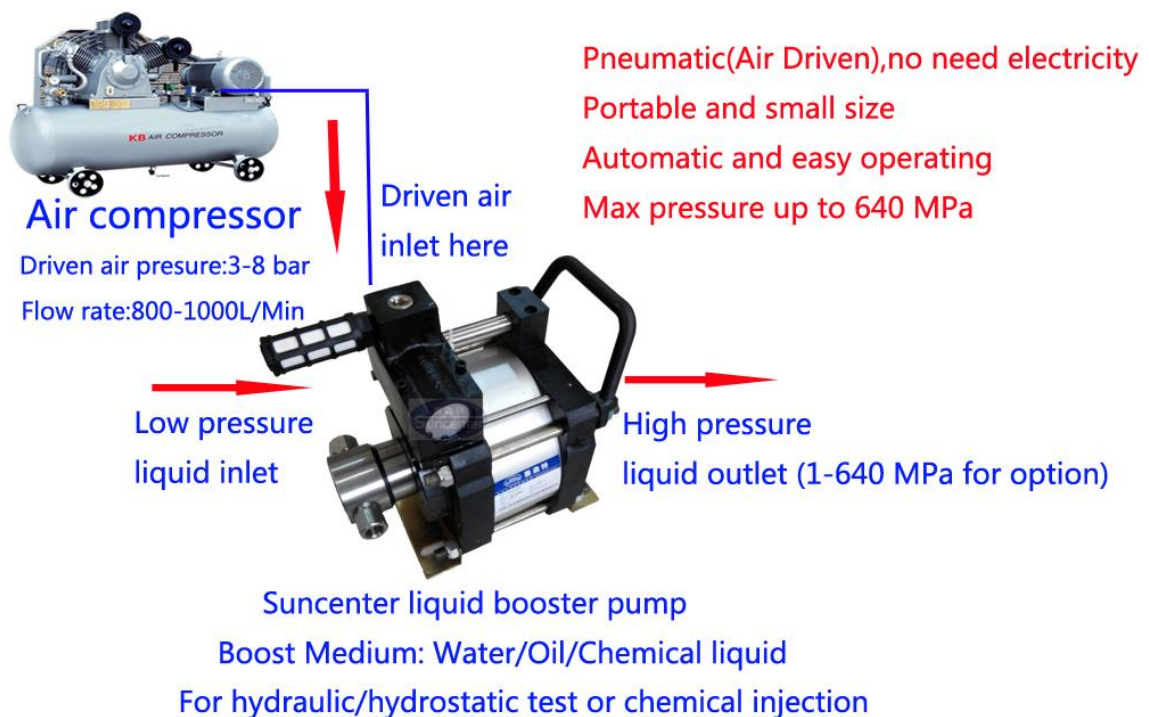
- Pressure testing
- Burst(Hydrostatic) testing
- Work holding/power clamping
- Jacking/lifting
- Valve actuator control
- Hydraulic cylinder actuation
- Press safety overload devices
- Roller tensioning
- Metering
- Precision lubrication and spraying
- Liquefied gas transfer

Key features include:

- Compressed Air driven - no electricity required (connect to normal air compressor)
- In order to extend the lifetime of the pump, the driving air pressure should not be higher than \wedge bar
- No airline lubricator required
- Pressures to ٦٤٠ Mpa (٦٤٠٠ bar)
- Wide range of models with different ratios
- Built-in-cooling on most models
- Easy to install, operate and maintain
- Best price / performance ratio

- No heat, flame or spark risk and explosion proof
- Automatic pressure holding, whatever the cause of the pressure drop, the Suncenter pump will automatically start, keep the loop pressure constant

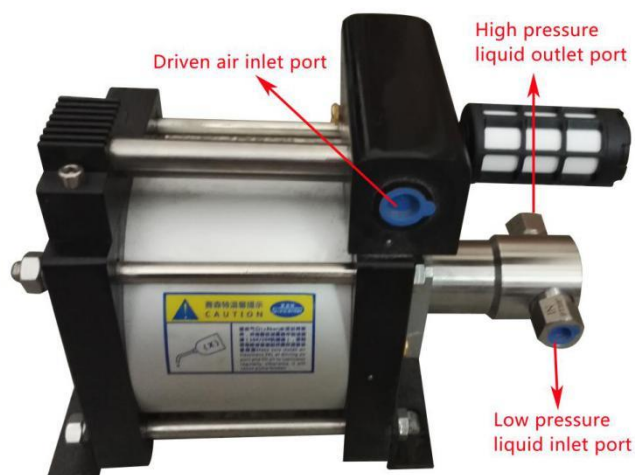
Suncenter liquid booster pump working circuit



DGG Series Liquid Pumps (Single acting, single air drive head)

- DGG pumps have aluminum bodies and wetted materials of stainless steel or carbon steel, which

depends on different service liquid. Materials of stainless steel, make them an excellent choice of water application. High quality seals, long service life available.



Technical specification

Model	Pressure Boost Ratio	Driven air pressure P _L	Formula to calculate outlet pressure	MAX Outlet Pressure(bar)*	Liquid inlet Connection	Liquid outlet Connection	MAX Flow (L/min)
DGG۶	۶:۱	۲-۸ bar	۶XP _L	۴۸	NPT ۱/۲	NPT ۱/۲	۲۹,۹۱
DGG۱۰	۱۰:۱	۲-۸ bar	۱۰XP _L	۸۰	NPT ۱/۲	NPT ۱/۲	۱۸,۸۴
DGG۱۶	۱۶:۱	۲-۸ bar	۱۶XP _L	۱۲۸	NPT ۱/۲	NPT ۱/۲	۱۲,۴۲
DGG۲۸	۲۸:۱	۲-۸ bar	۲۸XP _L	۲۲۴	NPT ۱/۲	NPT ۱/۲	۷,۱۱
DGG۴۰	۴۰:۱	۲-۸ bar	۴۰XP _L	۳۲۰	NPT ۱/۲	NPT ۱/۲	۴,۸۹
DGG۶۴	۶۴:۱	۲-۸ bar	۶۴XP _L	۵۱۲	NPT ۱/۲	NPT ۳/۸	۳,۰۸
DGG۸۰	۸۰:۱	۲-۸ bar	۸۰XP _L	۶۴۰	NPT ۱/۲	NPT ۳/۸	۲,۴۴
DGG۱۰۰	۱۰۰:۱	۲-۸ bar	۱۰۰XP _L	۸۰۰	NPT ۱/۲	NPT ۳/۸	۱,۹۲
DGG۱۳۰	۱۳۰:۱	۲-۸ bar	۱۳۰XP _L	۱۰۴۰	NPT ۱/۲	M ۱/۴ X ۱,۰	۱,۴۷
DGG۱۷۰	۱۷۰:۱	۲-۸ bar	۱۷۰XP _L	۱۴۰۰	NPT ۳/۸	M ۱/۴ X ۱,۰	۱,۱۴
DGG۲۰۰	۲۰۰:۱	۲-۸ bar	۲۰۰XP _L	۲۰۴۰	NPT ۱/۴	M ۱/۴ X ۱,۰	۰,۷۵
DGG۴۰۰	۴۰۰:۱	۲-۸ bar	۴۰۰XP _L	۳۲۰۰	NPT ۱/۴	M ۱/۴ X ۱,۰	۰,۴۸
DGG۵۱۰	۵۱۰:۱	۲-۸ bar	۵۱۰XP _L	۴۰۸۰	NPT ۱/۴	M ۱/۴ X ۱,۰	۰,۳۵
DGG۸۰۰	۸۰۰:۱	۲-۸ bar	۸۰۰XP _L	۶۴۰۰	NPT ۱/۴	M ۱/۴ X ۱,۰	۰,۴۲

The outlet liquid pressure=Driven air pressure*boost ratio

In order to extend the lifetime of the pump, the driving air pressure should not be higher than Δ bar

Suncenter DLS Series Pneumatic (Air driven) Liquid Booster System

Suncenter- DLS Series Pneumatic(Air driven) Hydraulic Power Packs

SUNCENTER- Hydraulic power packs(Liquid pump system) are compact and delicacy solution tailored to customer specific requirements with air driven liquid pumps as well as all accessories to be fitted and installed on the frame or in closed cabinet.

To operate this system, the pressure gauges, valves and pressure regulators have to be fitted on panels. The outlet pressure is easily to be set through a simple air regulator. The pump stops automatically when this end pressure is reached and restarts with a slight drop in the outlet pressure or an increase in the air drive pressure. SUNCENTER Hydraulic power packs are available with wide range of pressure ratios make these series of pumps ideal for powering a variety of oil/hydraulic operations. **The maximum operating pressure up to ۶۴۰ MPa.**

As the pressure will be generated by means of a pneumatically operated pump, the electric connection will not be necessary. To operate this system, the air driven liquid pump have to be equipped with the air control unit combined filter and water separator, pressure-regulating valve, pressure control gauge as well as manual relieve valve. In this operation, the pump will be mounted to the stainless steel tank in the closed cabinet in a compact and space saving manner. Pressure gauges, valves and pressure regulators will be fitted on panel.

The desired operating pressure can be attained by adjusting the driving air pressure. When the driving air pressure and the output pressure reach the balance, the pump stops filling pressure and the output pressure stays at the preset value. This hydraulic unit can be used for all kinds of pressure testing and test tools for research and test institutes or for other functions requiring a determined pressure.

For the hydraulic test station(liquid booster station), we have three different cabinet design for choosing



Model A
closed type with
carbon steel material



Model B
closed type with
stainless steel material

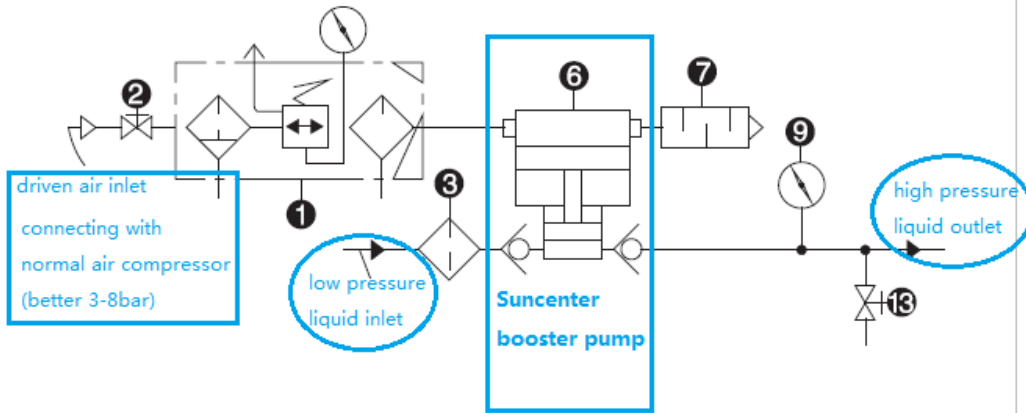


Model C
frame type with
stainless steel material



DLS Liquid (hydraulic) booster system = Liquid pump+ following valves, gages, and parts

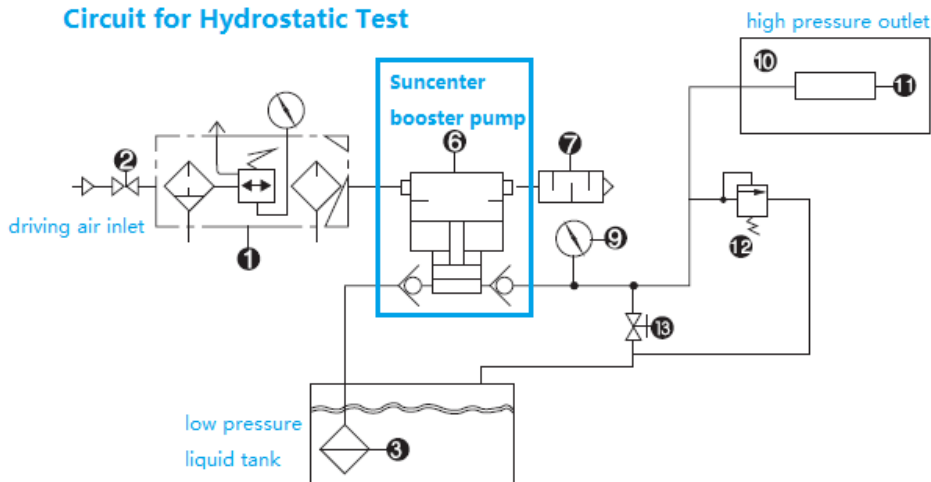
Typical circuit diagram for Air driving liquid booster pump



Number explanation

- ① F.R.L combination
- ② Driving air switch
- ③ Liquid filter
- ⑥ Booster pump
- ⑦ Muffler
- ⑨ Pressure gage
- ⑩ Testing cabinet
- ⑪ Tested part
- ⑫ Safety relief valve
- ⑬ unloading valve

Circuit for Hydrostatic Test





The standard liquid pump system including following parts:

Air –driven liquid booster pump (DGM/DGG/DGGD Three series for choosing)

Stainless steel (carbon steel) material cabinet (Three models for choosing)

F.R.L combination for driven air (adjusts air pressure, add lubricating oil and water filter)

Driven air switch (Pump starting switch), driven air pressure gauge, water tank

Liquid inlet/outlet switch, high pressure liquid guage, unloading valve, interconnecting pipes etc.

And we could also customize it according to clients' special requirement.

DLS series Liquid Pressure Booster Pump System-The hottest selling Model C cabinet



How to Select Suncenter Air Driven Liquid Boosters/Systems?

In order to choose suitable liquid booster pump or systems for you,



please kindly reply us the following questions:

۱. What is the liquid you want to booster?

۲. What outlet liquid pressure do you want?()bar

**۳. What driven air pressure (of your air compressor) can you offer?()bar,
Because our booster is completely air operated and no need any electricity**

۴. What outlet liquid flow rate do you need?()L/min