

GEAR PUMP

SWG series Gear Pump can be used at max. 24.5 MPa {250kgf/cm²} continually and designed to be operated at low noise and high efficiency.

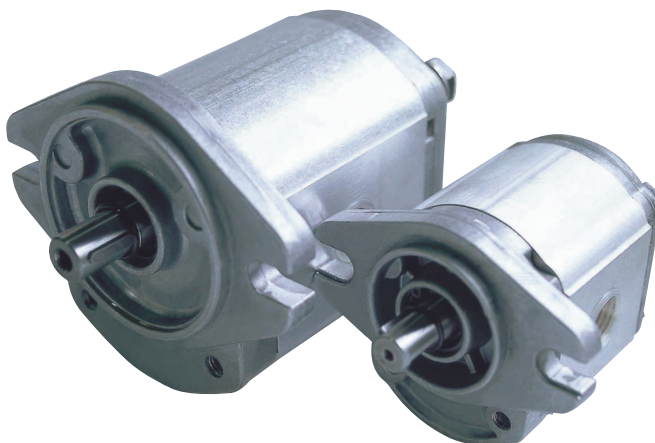
Structure and Characteristics

1. Before and after the high-precision gravity aluminum castings are covered, as the central body portion consists of high-strength extruded harsh operating conditions and environments have the durability to withstand.
2. Free movement of the gear side and the pressure balance bushings to maintain proper spacing efficiency (98%) and available capacity "DU" bushing as standard to ensure durability and reliability.
3. Special sealing technology
4. Durable "DU" bushing teflon line

Features of oil use

1. Oil Temperature : -15°C~80°C
2. Viscosity : Allowed Range 12cSt~800cSt
Recomended Range 20cSt~100cSt
Start up conditions 1600cSt
3. Filtration : Pumps and systems for the durability of ISO 16/13 cleanliness of the fluid is required.
Suction side 60 μ m
Pressure side 10~25 μ m Please use the filter below

Equipped with adequate liquidity wear as an incompressible fluid, non-oxidizing, non-corrosive lubricant as it must be good enough. Except in special circumstances, typically oil-based fluids are used.



GEAR PUMP

Pump Suction Pressure

Allow the suction side of the low absolute pressure is 0.07MPa {0.7kgf/cm²}

Suction flow rate should not exceed 2 ~ 3 m/sec

Minimum rotation speed

Pump rotation speed of the minimum recommended is as follows

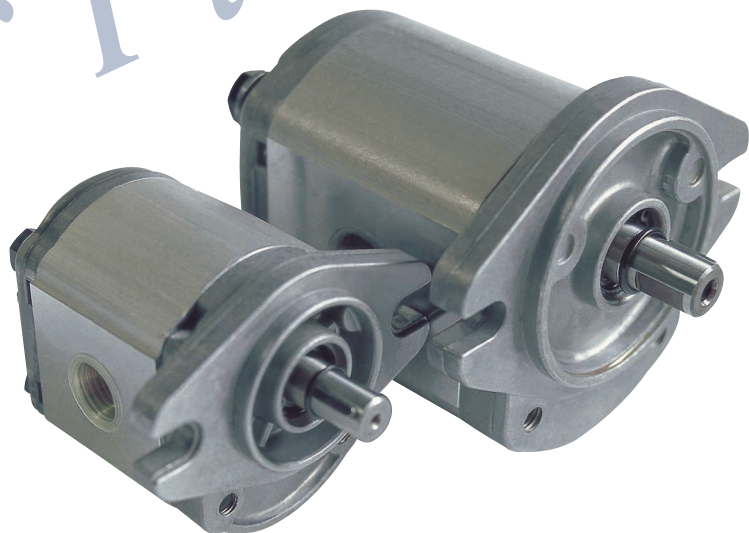
SWG1~2 500rpm

SWG3 400rpm

Precautions of connecting

Axial thrust load on the shaft and the shaft is not to be affected by the TIR 0.18mm should be within.

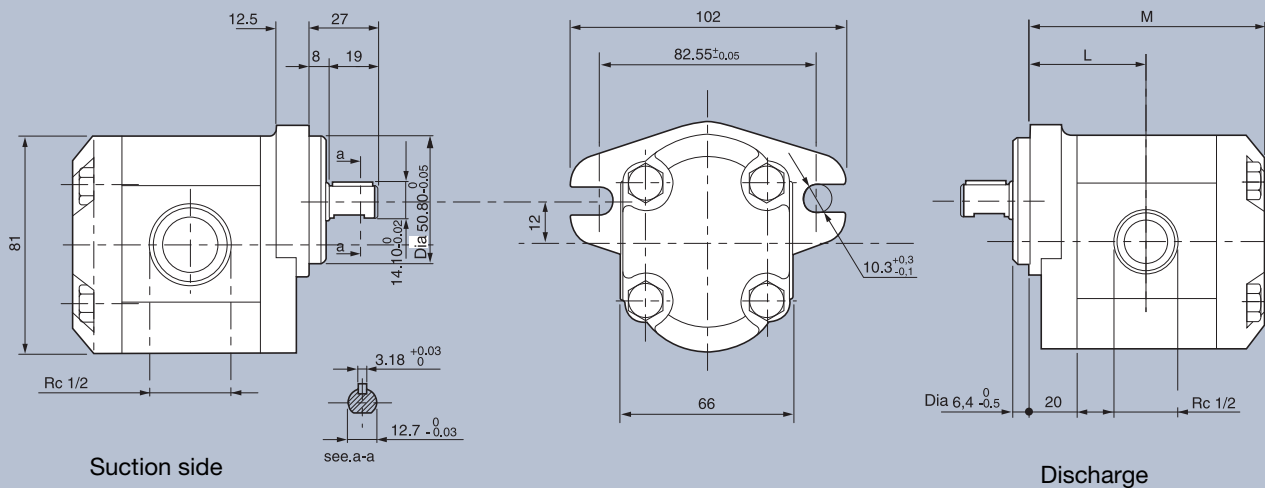
Gear Pump





Single Gear Pump

SWG1

Key type of equilibrium



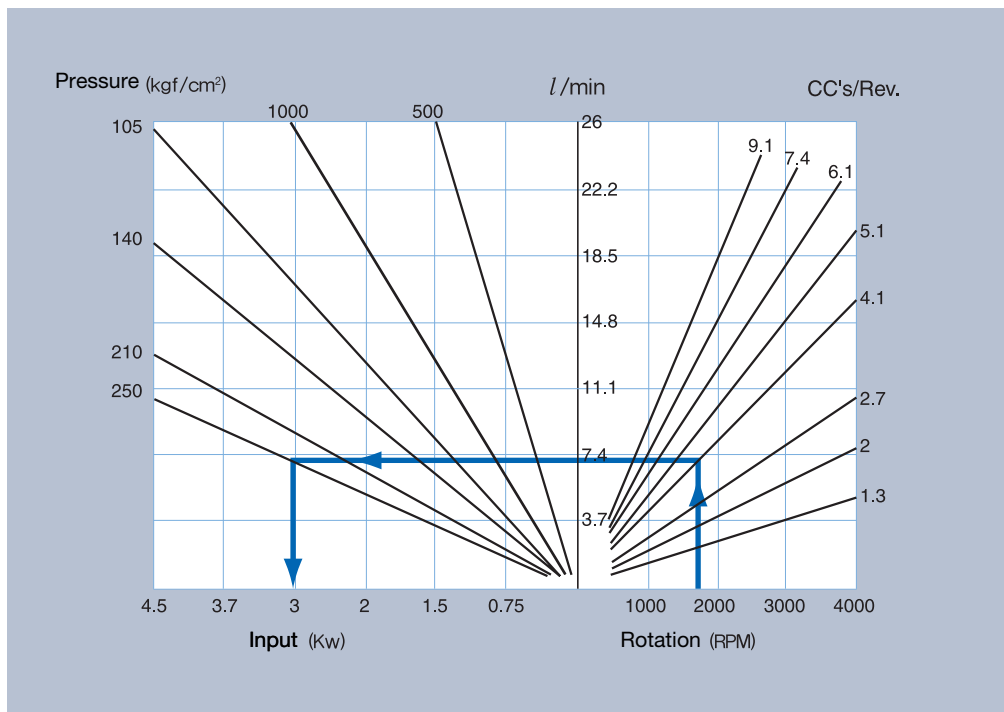
Direction of rotation		Volume cm ³ /r.	Discharge (ℓ /min) 1500r.p.m.	Rated pressure (bar) 1500r.p.m.	Max. Press. (bar) 1500r.p.m.	Maximum rotation r.p.m.	Specifications	
 R	 L						L	M
SWG1-1.3-R	SWG1-1.3-L	1.3	2.0	250	275	6000	42	82
SWG1-2-R	SWG1-2-L	2.0	3.1	250	275	6000	43	84
SWG1-2.7-R	SWG1-2.7-L	2.7	4.1	250	275	5000	44	86
SWG1-4.1-R	SWG1-4.1-L	4.1	6.1	250	275	4000	46	90
SWG1-6.1-R	SWG1-6.1-L	6.1	9.1	210	275	4000	49	96
SWG1-7.4-R	SWG1-7.4-L	7.4	11.1	210	230	3500	51	100
SWG1-9.1-R	SWG1-9.1-L	9.1	13.6	190	210	3500	53.5	105

Single Gear Pump

Pump Selection

1. RPM and the pump volume and the point of intersection of the discharge (l / min) to confirm.
2. Use and discharge pressure and the point of intersection of the axis input (Kw) sought.

Example) 4.1cc volume pump at about 1,750 rpm rotation 7 l / min and a discharge,
24.5MPa {250kgf/cm²} of the 3.7Kw electric motor is required.



Single Pump

