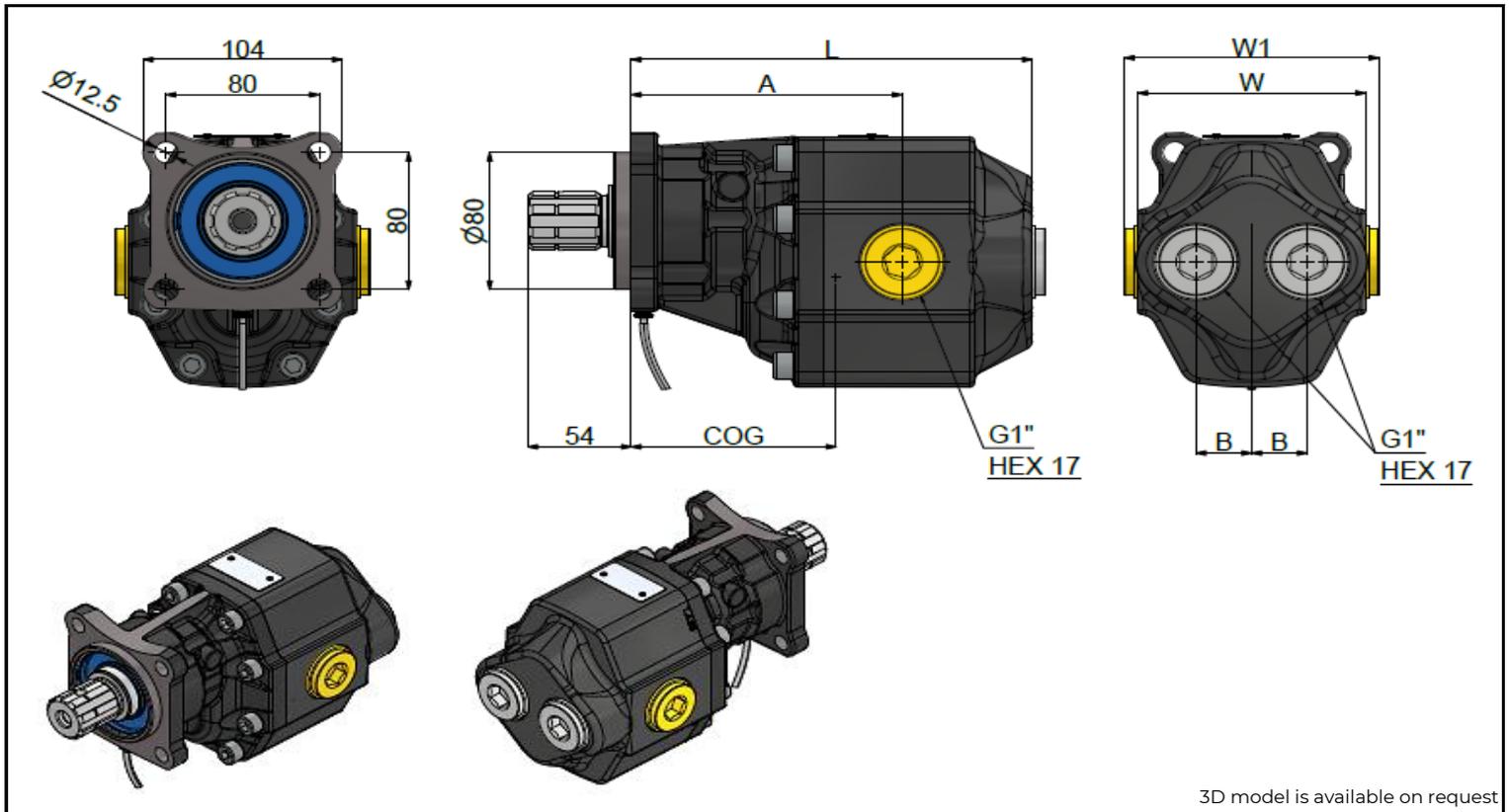


Gear pump 082L-BI-4H5-4P-16BSP16


3D model is available on request

Specifications

Type	82 cc	
Part number	14570840	
Displacement	81.08	cc/rev
Port configuration	2 side/ 2 rear	
Shaft DIN 5462	8*32*36	mm
Inlet - straight internal thread	1"	BSP
Outlet - straight internal thread	1"	BSP
Recommended suction hose diameter	1 3/4"	inch
Torque at 225bar	304	Nm
p2 : Max. pressure for tipping application	225	bar
p3 : Max. continuous pressure	205	bar
p1 : Max. peak pressure	230	bar
L : Length of pump	209.5	mm
W : Width before ports	119	mm
W1 : Width of pump	132.7	mm
H : Height pump	146	mm
A : Position side port	141.5	mm
B : Position rear port	29	mm
Mass	15.7	kg
Centre of gravity distance (COG)	107	mm

Type	82cc	
Flow at 2500 rpm	190	l/min
Max. speed at intermittent pressure*	2500	rpm
Min. speed at intermittent pressure	300	rpm
Oil temperature range	min / max -15 / 100	°C
Inlet pressure range (suction side)	min / max 0.3 / 2	bar
Recommended oil viscosity range	min / max 12 / 100	mm ² /s
Max. starting viscosity**	750	mm ² /s
Min. filtration	25	µm
Leak indicator included with the pump	Yes	
Gasket included with the pump	No	

* Volumetric efficiency of 90%.

** 2500 rpm for oil viscosity up to 100 cSt. 800 rpm for cold start (750 cSt).

Technical notes

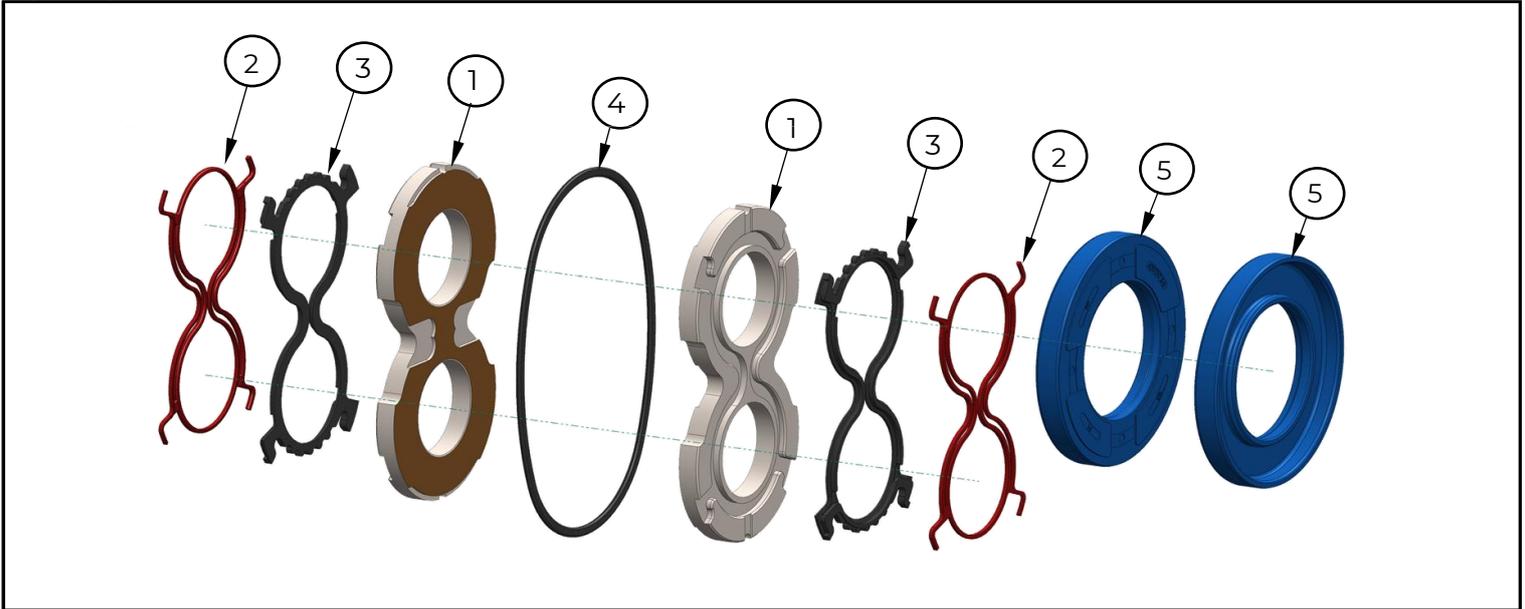
- Recommended oil is mineral based; for other fluids contact our engineering department
- Mentioned filtration is for tipper applications only.
- To avoid cavitation, suction hose must be kept as short and straight as possible and oil viscosity should be respected at all operating temperatures.
- To avoid damaging the steel plugs when changing the port configuration, make sure to use hex key size 12 and the tool is fully inserted.
- Painted black (RAL9005)
- Leak indicator kit included and to be fitted with hose opening facing side or down.
- Verify that pump is at least 100mm under the minimum level of the tank. Before starting the pump bleed the air.

Related documentation

Mounting instructions : PUM-0048

Oil specifications: OIL-0011

Spare parts

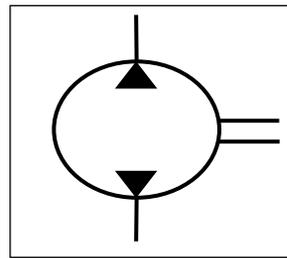


Spare parts

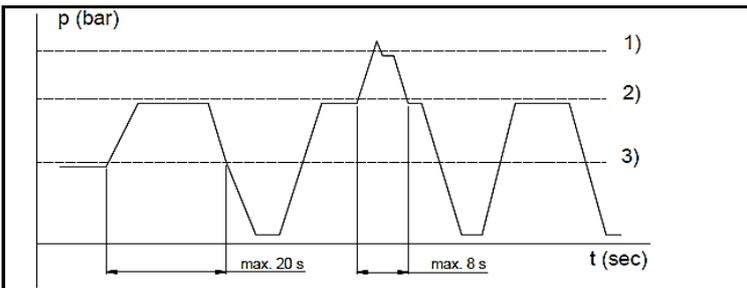
	Type	82cc
	Seal kit (parts : 2, 3, 4, 5)	02410038
1	Thrust plate (x2)	02411002
2	Back-up ring (x2)	see seal kit
3	Thrust plate seal (x2)	see seal kit
4	O-ring	see seal kit
5	Oil seal 72x42x8 (x2)	see seal kit
6	Leak indicator kit	02412515

* Leak indicator included with the pump

Hydraulic symbol pump

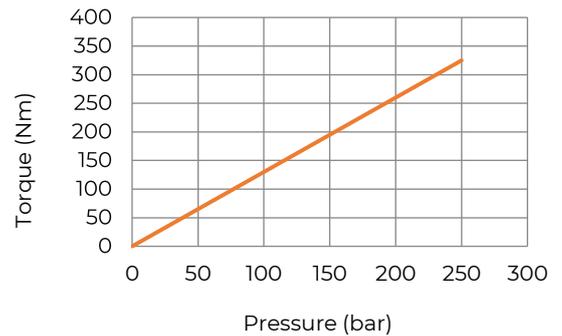


Pressure Definition

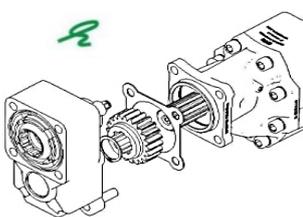


- p 1) Peak pressure
- p 2) Intermittent pressure e.g. tipping applications
- p 3) Continuous Pressure

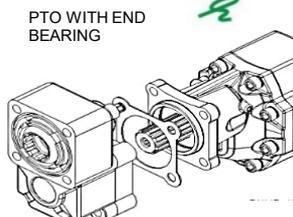
Torque - Pressure characteristics



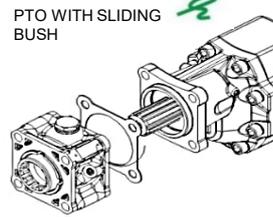
Mounting options



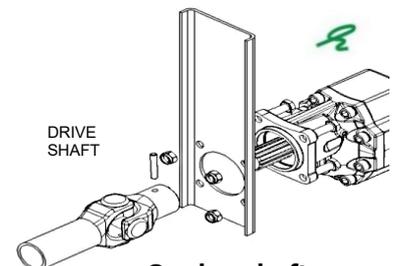
PTO loose gearwheel



PTO reinforced output



PTO reinforced output



Cardan shaft