

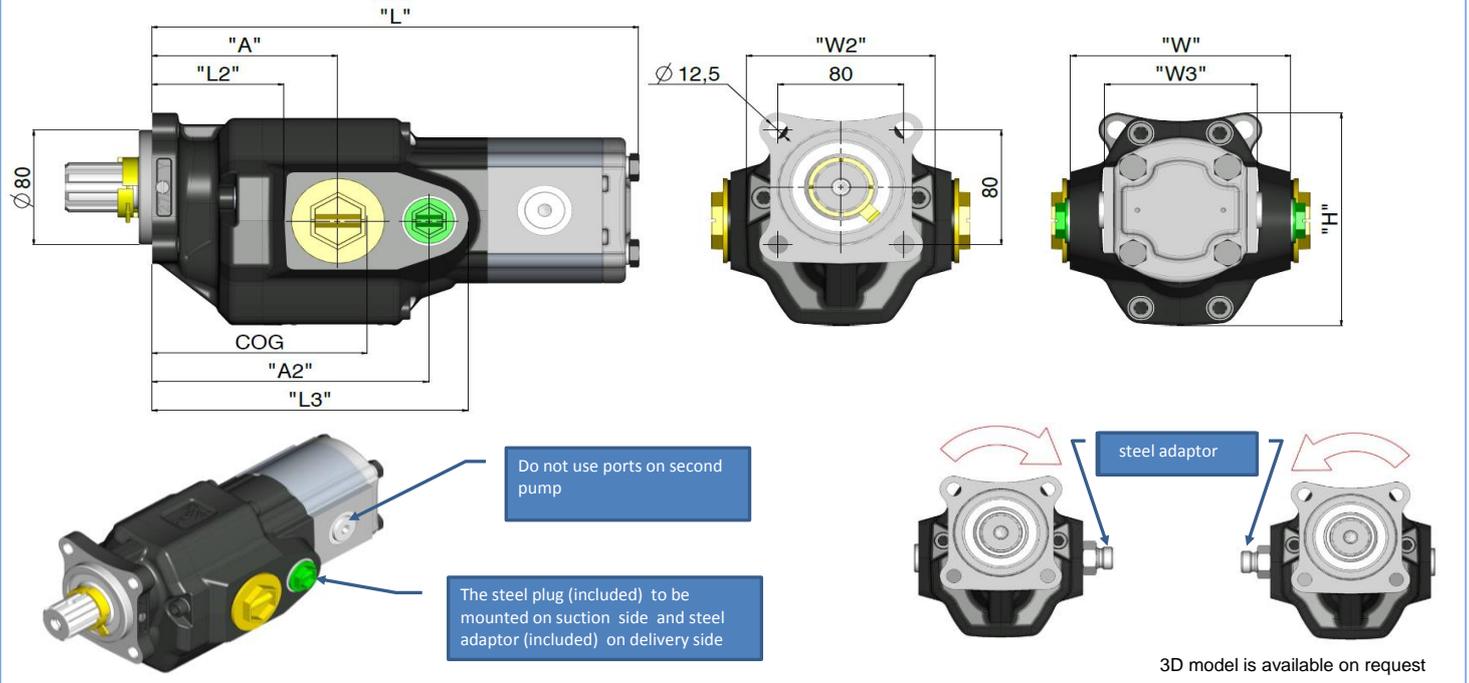
# HYVA GEAR PUMP



ALPHA Double gear pump BI - 4H3

Item no. 14571400

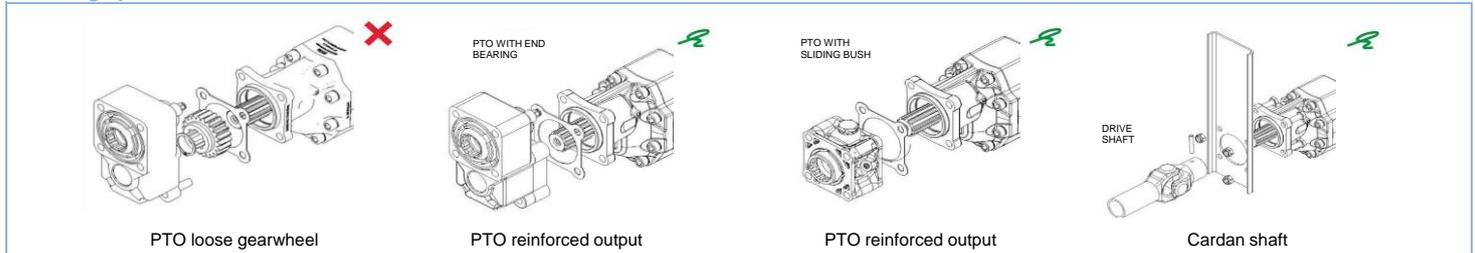
Bi-rotational / Flange ISO 4 holes



## Specifications

Type		105 cc	14571400	19 cc	
Part number			14571400		
Displacement per revolution		104,7		19,1	cc
Port configuration		Side inlets: 1 1/2" common inlet - 1/2" outlet			
Shaft DIN 5462		8*32*36			mm
Inlet - straight internal thread		1 1/2			" BSP
Outlet - straight internal thread		1 1/2		1/2	" BSP
Minimum suction hose diameter		1 3/4			inch
p2: max. pressure for tipping applications		250		220	bar
p3: max. continuous pressure		230		200	bar
p1: max. peak pressure		255		240	bar
Flow at 2000 rpm		193		35	l/m
Max. speed at intermittent pressure		2250			rpm
Min. speed at intermittent pressure		500			rpm
L: Length pump		309,5			mm
L2: Length before ports		81			mm
L3: Length to end of ports		201			mm
W: Width pump		140			mm
W2: Smaller width before ports		120			mm
W3: Width small pump				97	mm
H: Height pump		148,5			mm
A: Position big port		118			mm
A2: Position small port		176			mm
Mass		20			kg
Centre of gravity distance (COG)		125			mm
Oil temperature range	min / max	-40 / 80		-40 / 80	°C
Inlet pressure range (suction side)	min / max	0,7 / 3		0,7 / 3	bar
Recommended oil viscosity range	min / max	12 / 100		12 / 100	mm <sup>2</sup> /s
Max. starting viscosity		750		750	mm <sup>2</sup> /s
Min. filtration		25		25	µm

## Mounting options



## 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 • Painted black (RAL9005) • Steel plug and adaptor are included

## Related documentation

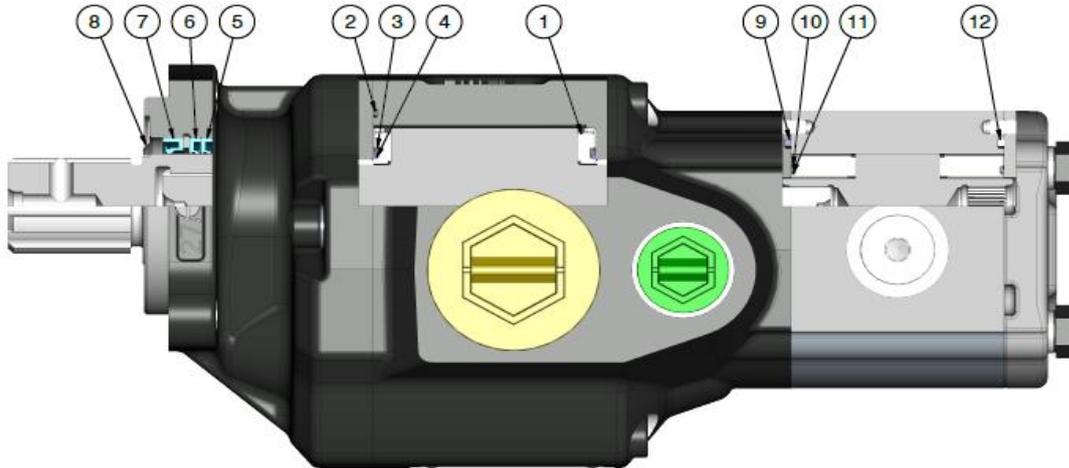
Mounting instructions: included in the box

Oil specifications: OIL-0011

[www.hyva.com](http://www.hyva.com)

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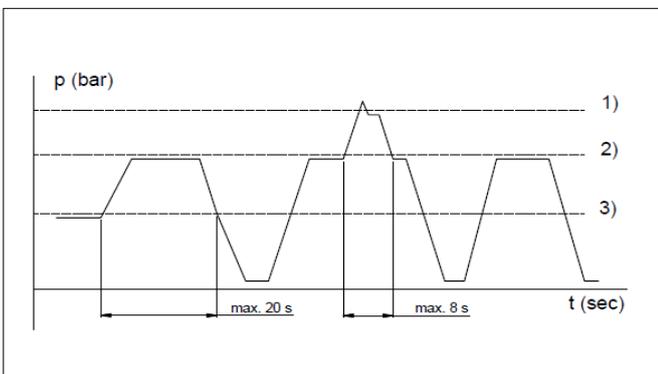
ALPHA Double gear pump BI - 4H3



## Spare parts

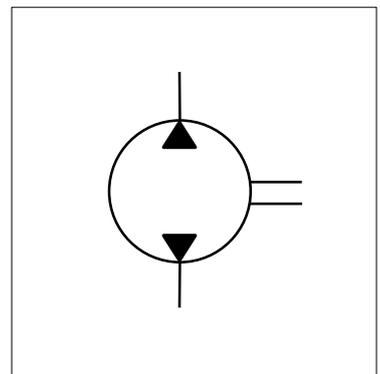
Description		
<b>105 cc pump</b>		
Seal kit (parts: 2, 3, 4, 5, 6 & 7)		02460015
1	Thrust plate	02259408
2	O-ring	n.a; see seal kit
3	Seal thrust plate	n.a; see seal kit
4	Back-up ring thrust plate	n.a; see seal kit
5	Shaft seal	n.a; see seal kit
6	Shaft seal	n.a; see seal kit
7	Shaft seal	n.a; see seal kit
8	Nilos ring	
<b>19 cc pump</b>		
9	Square section seal	
10	Thrust plate seal	
11	Back-up ring thrust plate	
12	Square section seal	
Leak indicator kit		02470180

## Pressure definition



- p 1)** Peak Pressure
- p 2)** Intermittent Pressure  
f.e. tipping applications
- p 3)** Continuous Pressure

## Hydraulic symbol pump



## Torque - Pressure characteristics

