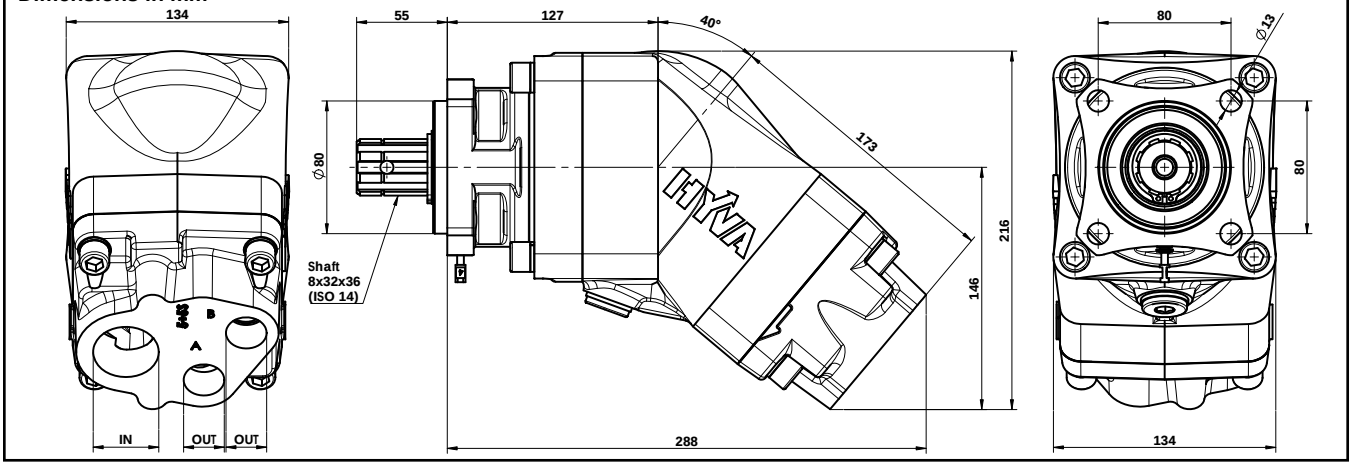
HYVA PISTON PUMPS

BENT AXIS TYPE

Hyva	piston pump type :	piston pump 053L/053L-LH-4H-BH
	part number :	145 69 235
Page 1 / 2	rotation :	anti clock wise seen from front side of pump

Fluid	Mineral or synthetic compatible with the following seals: FKM, FPM, HNBR				
Kinematic viscosity suggested	Average ambient temp. (°C)	< -40	-40÷10	10÷35	> 35
	VG (cSt = mm²/s)	16	22	32	46
Optimale kinematic viscosity			VG= 10 cSt ÷ 100 cSt		
Max kinematic viscosity suggested at the start-up			VG= 750 cSt		
Viscosity index suggested VI > 100		Working temperature	-40°C ÷ 140°C		
Oil filtering			> 200 bar: 10 µm < 200 bar: 25 µm		
Inlet pressure			0,85 ÷ 2 bar absolut		
Pump rotation			Left		
Verify that pump is, at least, 100 mm under the minimum level of the tank. Before starting the pump bleed the air.					

Dimensions in mm



PUMP TYPE	IN ISO 228	OUT ISO 228	WEIGHT
053L/053L-RH-4H-BH-3/4-1 1/4	G 1-1/4	G 3/4	21,5 Kg

SEAL KIT	
Part.no	02410030

TECHNICAL FEATURES

Displacement A	(cc/rev)	**53 curve 1**
Displacement B	(cc/rev)	**55 curve 2**
Max. continuous pressure	(bar)	**350**
Max. peak pressure	(bar)	**400**
Max. speed without load	(rpm)	**2550**
Max. speed with load on A and B outputs	**(*)**	**1800**
Max. speed with load on 1 output only	**(*)**	**2100**
Max. continuous power	(kW)	**111**
Max. intermittent power	(kW)	**127**

Max. continuous pressure (100%)
Max. peak pressure (6 sec.max)

(*) Speed with pipe internal diameter 2,5" minimum.

Pump 53+53 and 70+35: with pipe internal diameter 2"
max. speed 1200rpm.
Pump 70+70: only with pipe internal diameter 2,5".

<<<<<< WARNING >>>>>>
Remove the protection plug and install the leakage system fitting.

WARNING: if oil leaks through the transparent tube the pump should be replaced immediately to avoid gearbox damage.

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BENT AXIS TYPE

Hyva	piston pump type :	piston pump 053L/053L-LH-4H-BH
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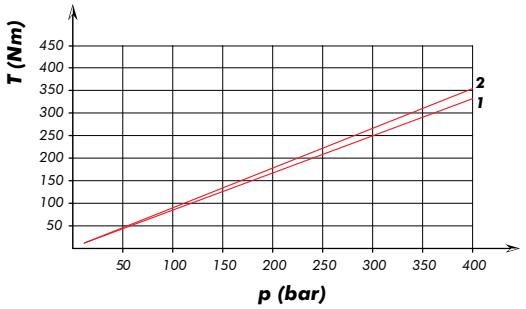
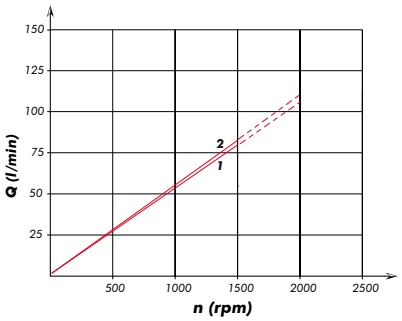
Page 2 / 2	rotation :	anti clock wise seen from front side of pump

THEORETICAL DRIVE TORQUE



The total torque absorbed by the pump is given by the sum of the torques necessary to give pressure to the pressure ports.

THEORETICAL FLOW



The total pump flow is given by the sum of the flow of each pressure port.

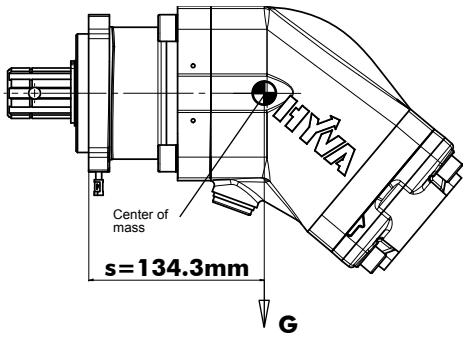
THEORETICAL POWER INPUT

The total power absorbed by the pump is given by the sum of the power required by the two pressure ports.

$$P_{TOT} = P_A + P_B = \frac{(p_A \cdot Q_A + p_B \cdot Q_B)}{612}$$

P [kW]
Q [l/min]
p [bar]

MASS MOMENT $M_{amm.} = s \times G$ (Nm)



G=Weight in N
(Weight in Kg x 9.81)