

HYVA PISTON PUMPS



BENT AXIS TYPE

Hyva

piston pump type :

piston pump 070L/035L-RH-4H-BH

part number :

145 69 240

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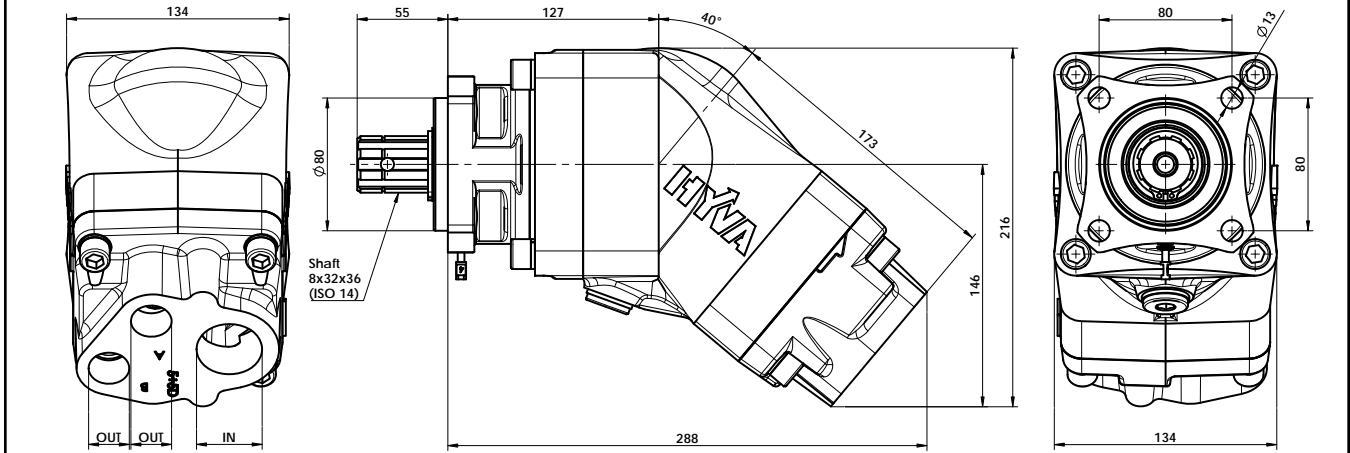
rotation :

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			Right		
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	OUT	WEIGHT
070L/035L-RH-4H-BH-3/4-1 1/4	ISO 228 G 1-1/4	ISO 228 G 3/4	22 Kg

SEAL KIT	
Part.no	02410030

TECHNICAL FEATURES		
Displacement A	(cc/rev)	36,5 curve 3
Displacement B	(cc/rev)	68,3 curve 4
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)	108
Max. intermittent power	(kW)	123



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

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".

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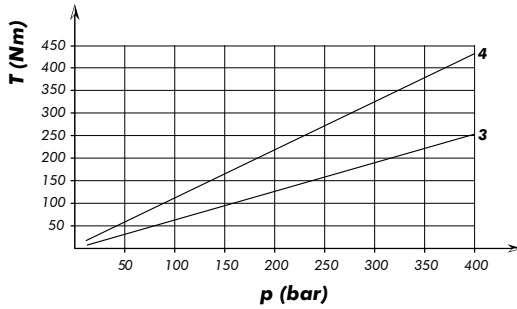
145 69 240

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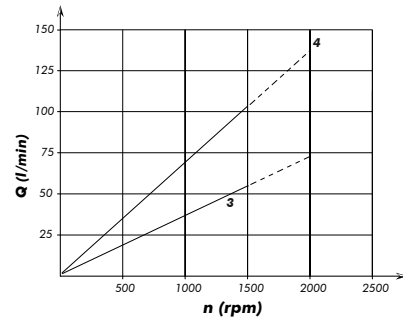
clock wise seen from front side of pump

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)

