



DP 50 HYDRAULIC TOYO

The unit is based on the actual Toyo model DP-50 hydraulic drive with specifications as follows;

Flange Size	: 6" (150mm)
Pump Power	: 50HP
Pump Speed	: 1200 rpm
Discharge Flow	: 3.2 m ³ /min
Discharge Head	: 25m
Max solids size	: 60mm diameter
Hydraulic Drive	: Gear Motor
Oil Flow Rate	: 270 liter/min
Oil Pressure	: 140 kg/cm ²

POWERPACK

- a). The flow rate will effect the pump speed. We recommend 240ltr/min for pump speed of 1,200 rpm.
- b). The hydraulic pressure will effect the Horsepower of the Toyo pump. We recommend running at 138Bar which provides power output of 60HP. This is more than sufficient for the size of the pump.

If turning up the pressure to 180 Bar this will give 79HP. This will be useful when pumping heavy slurries or when you need the extra head capacity.

To summarize; recommended operation at following;

Flow Rate	: 240 ltr/min	=	1,200 rpm (Toyo pump speed)
Pressure	: 138 Bar	=	60 Horsepower

Below attached 2 print-outs of variations of flow rate / pressure / power / speed

1. 240 ltr/min / 138 Bar / 1,200 rpm / 60 HP
2. 240 ltr/min / 180 Bar / 1,200 rpm / 79 HP

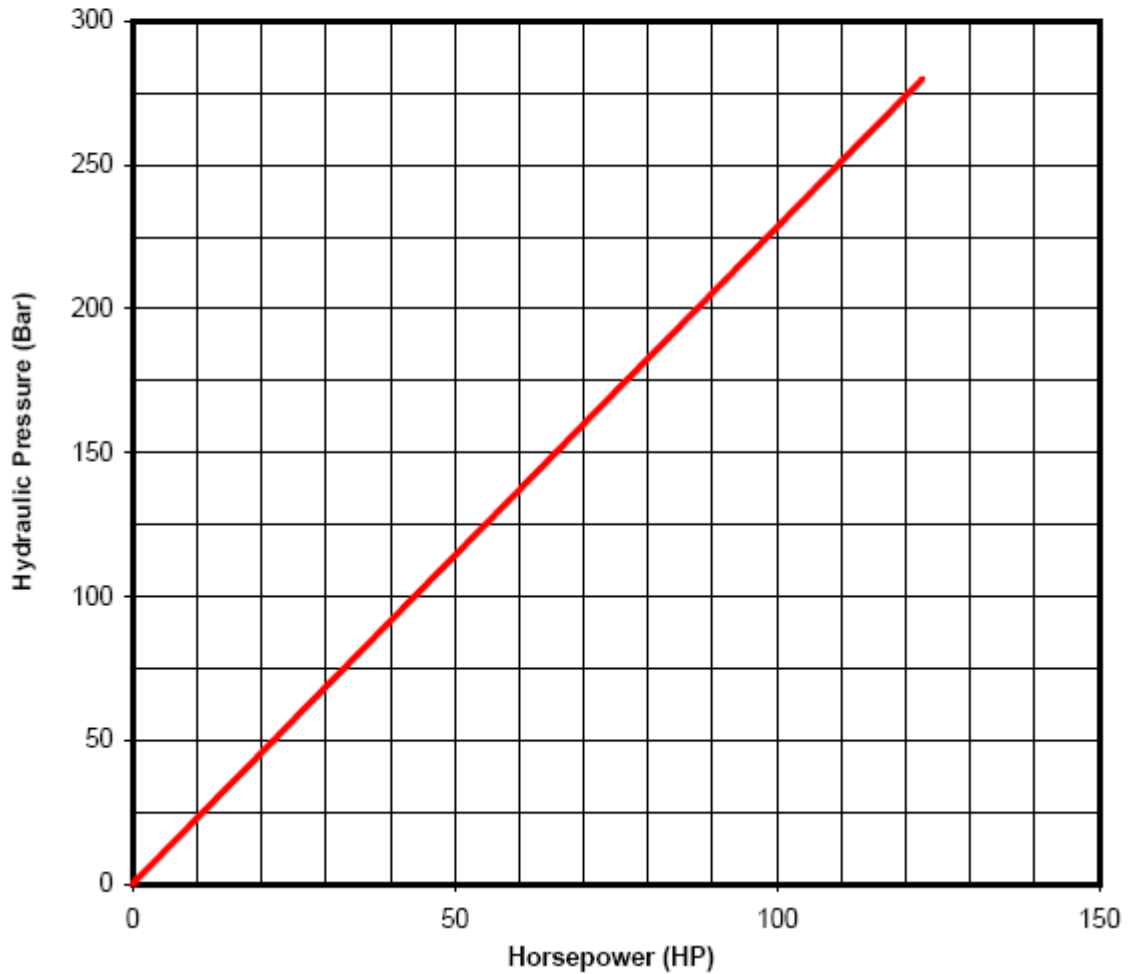




Toyo performance ratings are based on pumping water at specific gravity of 1.0 - if intending pumping slurries then there is need to multiply the horsepower requirement by the S.G of fluid to get the same performance. This is where the hydraulic drive comes in useful because hyd. pressure can be turned up to maintain output flow performance for the heavy slurries.

HYDRAULIC PRESSURE - POWER CURVE 90%

HydroMotor Size	180 cc/rev	Pump Model	DP-50
Hydraulic Oil Flow Rate	240 ltr/min	Pump Speed	1200 rpm
Design Point	138 Bar	Rated Power	60 HP



HYDRAULIC PRESSURE - POWER CURVE 90%

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Hydraulic Oil Flow Rate	240 ltr/min	Pump Speed	1200 rpm
Design Point	180 Bar	Rated Power	79 HP

