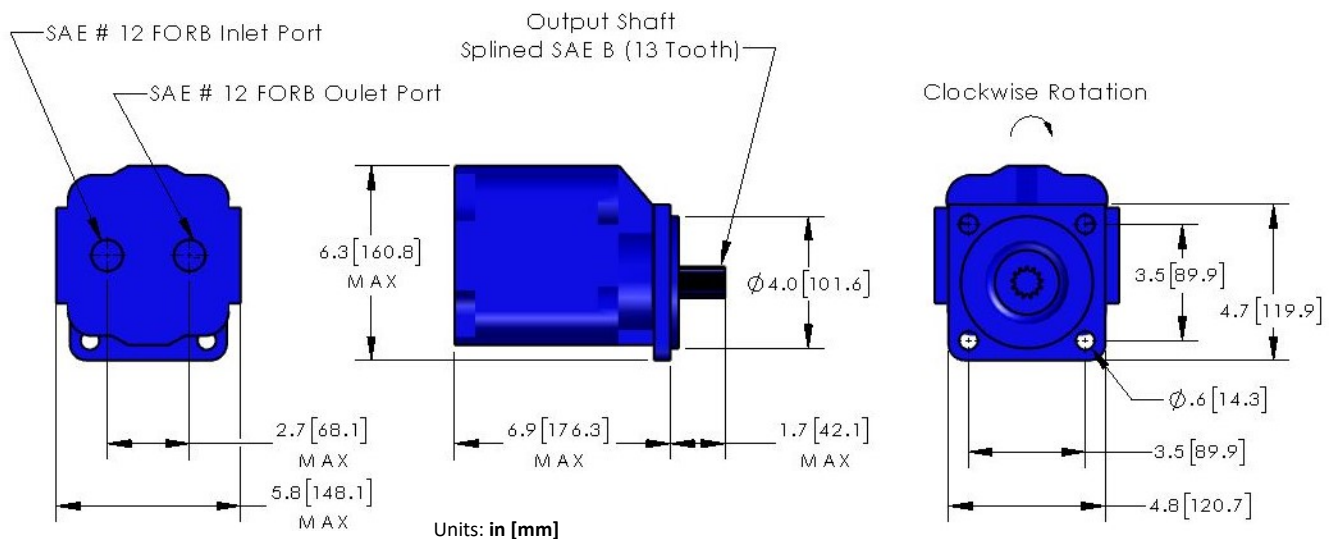
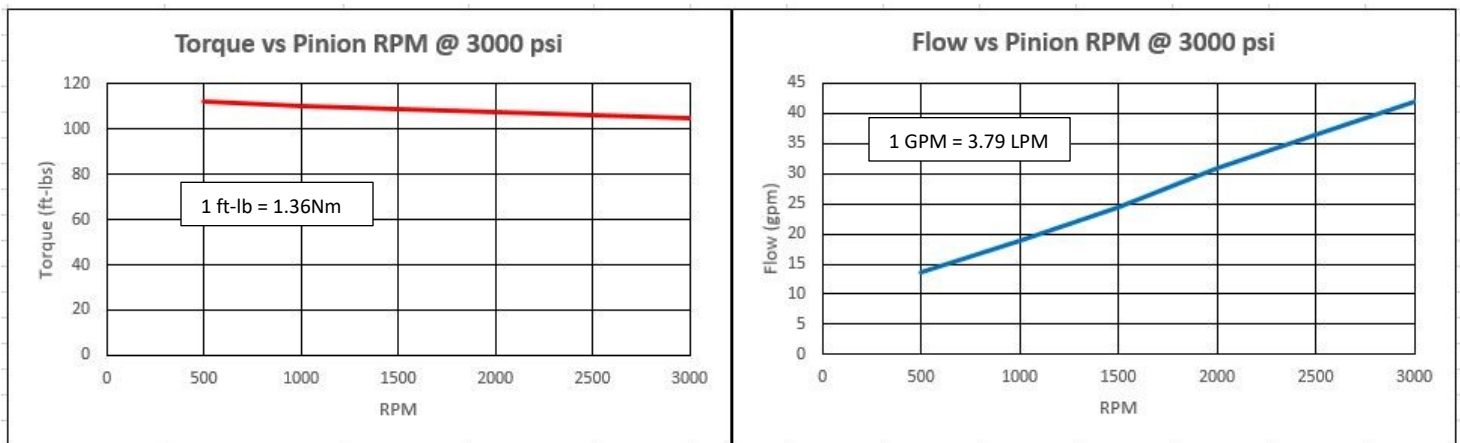


Hydraulic Motor Part Number: 6-HS-224-M-A, 6-HS-224-M-P, 6-HS-224-M-X

Hydraulic Motor Specification (for Hydraulic Starter Application)	
Max Motor torque output at 3000psi (207 BAR)	Max 110 ft-lbs (150 Nm)
Hydraulic Oil, Supply Pressure (max)	3000 psi (207 BAR)
Hydraulic Oil, Flow @ 3000 psi	See Chart Below (Do not exceed 42 gpm [159lpm])
Motor Displacement	3.0 in ³ (49.2 cc)
Hydraulic Oil, Specification	Normal operating viscosity range: 80-1000 SUS (16-220 cSt) Maximum startup viscosity should not exceed 4000 SUS (864 cSt)
Operating Temperatures	-40° F to 180° F (-40°C to 82°C)
Flange Characteristics	SAE B – 4 bolt
Shaft Characteristics	SAE B 13 Tooth (splined)
Weight (approx.)	35 lbs (16 kg)
Hyd. Starter Engine Application (suggested)	<50 Liter (Cat, Cummins, MTU)



Note: Fitting installation torque SAE # 12: 105-> 113 ft-lbs (142 -> 153 Nm)