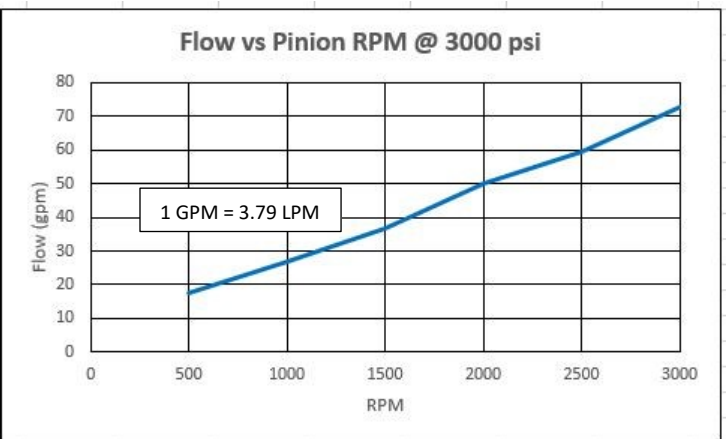


P/N 6-HSCV-360-Z-S (Hydraulic Engine Starter with Integrated Soft Start and ON/OFF Control Valve)

Hydraulic Starter Assembly Specification	
Engine Application	➤ 50 Liter (Cummins, Cat, MTU)
Hydraulic Oil, Supply Pressure	3000 psi (207 bar) - recommended
Hydraulic Oil Flow Required	40-60 GPM (151-227 LPM)
Hydraulic Oil, Specification	Normal operating viscosity range: 80-1000 SUS (16-220 cSt) Maximum startup viscosity should not exceed 4000 SUS (864 cSt)
Max starter torque output at 3000psi (207 bar)	200 ft-lbs (271 Nm)
Operating Temperatures	-40° F to 180° F (-40°C to 82°C)
Pinion characteristics	12 Tooth - 6/8 DP - RH Rotation
Solenoid Valve characteristics	24Vdc - 23w - ISO/Din 43650 Form A 3 pin 60 GPM (227 LPM) - Normally Open - Manual Override
Weight	87 lbs (39.5 kg)

$$\text{Pinion speed} = \text{engine speed} * \frac{\text{ring gear tooth count}}{\text{pinion tooth count}} \quad \text{Engine torque} = \text{starter torque} * \frac{\text{ring gear tooth count}}{\text{pinion tooth count}}$$



Note: Fitting installation torque:
SAE # 12: 88 -> 96 ft-lbs (119 -> 130 Nm)
SAE # 16: 130 -> 143 ft-lbs (176 -> 194 Nm)

