

The Power of Excellence

PRESTOLITE ELECTRIC HEAVY DUTY SYSTEMS
A DIVISION OF PRESTOLITE ELECTRIC INC.

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The Handraulic® Starting System



The Starting System that requires no external power source

The Global Power

The Handraulic® Starting System

Description

The Prestolite “Handraulic” is a hydraulic starting system for diesel engines of 70-160mm bore size, usually irrespective of the number of cylinders. The system operates by way of the free end of the engine crankshaft as an emergency back up to the electric start system or as a prime means of starting in a hazardous environment.

Only two models, B35 and B50, are required to cover the engine bore size range.

Operation

Fluid is pumped from a feed tank to the underside of a piston in a pre-charged nitrogen filled accumulator until the working pressure of 293 bar is achieved. Operation of the lever releases the pressurised fluid to the rack and pinion operated starter unit. The pinion engages with an engine dog and rotates the crankshaft at high speed to enable engine starting.

Design Features

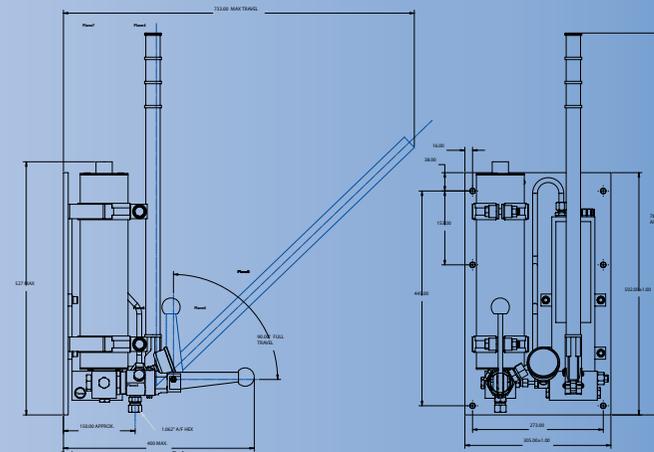
Working pressure – Nominal	293 bar (4250 PSI)
Rotation	Clockwise (viewed from front cover)
Mounting	*By way of free end of engine
Drive	Pinion and engine dog
Working pressure – Max	345 bar (5000 PSI)
Lock Torque – Max	2264 Nm
System Weight – Max	60 kg
Temperature range	-30°C to + 50°C

Mounting

A dog is attached to the engine crankshaft using an adaptor*. The starter is mounted on a bracket,* attached to the engine or its bearers.

The hand pump, accumulator, feed tank, pressure gauge and relay valve are all supplied mounted to a panel. Sufficient pipework is supplied to connect starter and panel.

* For details of typical dimensions, separate technical data sheets are available.



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Again**