

# 6" SUREPRIME Open Trash/Sewage Pump 6TS-DJDST-4045D-MC

Thompson open trash/sewage pumps with the *SurePrime* self-priming centrifugal pump end are ideal for construction dewatering and sewer bypass applications. Specified for handling large solids and/or abrasive material at high heads, the 6TS-DJDST-4045D-MC outperforms other centrifugal trash pumps on the market and costs less to operate. The quality and dependability engineered into each Thompson heavy-duty trash pump provides the high performance needed to get the job done efficiently and effectively.

## Features

- Standard engine – John Deere 4045D Available with a variety of diesel engines
- Fully automatic, dry priming to 28 feet
- Moderate heads to 125 feet; Maximum flows to 1,600 gpm
- Solids handling to 3"
- Modular frame included with removable drop-on Silent Knight® sound enclosure
- Maximum operating time is 45 hours @ 1,800 rpm

**SUREPRIME**  
SELF-PRIMING CENTRIFUGAL PUMP END

## Working Principle

The impeller rotates and creates a vacuum drawing air into the pump where it is mixed with the liquid contained in the pump casing. The air/liquid mixture is driven into the priming chamber where the air separates and is expelled through the delivery port while the liquid, due to its higher density, falls back and is re-circulated.

When the suction line has evacuated the air, the pump is primed and operates as a standard centrifugal pump. The check valve mounted in the pump suction port ensures that sufficient liquid remains in the pump casing for re-priming. In addition, the check valve prevents the liquid from draining out of the suction line, so at restart no time is lost for re-priming.



