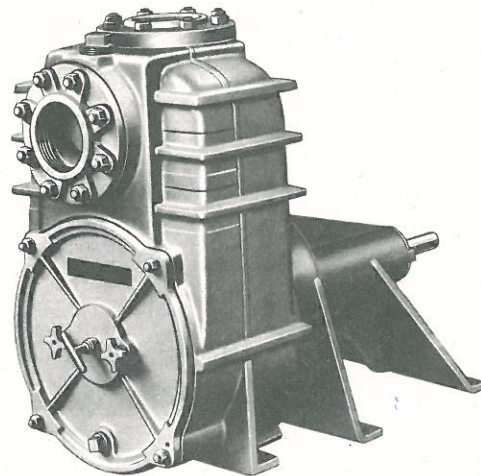
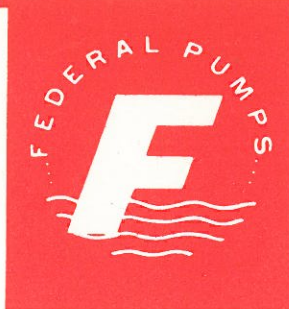


**TYPE**  
**TCU**

**SELF-PRIMING  
SEWAGE PUMPS**



### FEATURES

TYPE TCU SELF-PRIMING SEWAGE PUMPS ARE DESIGNED FOR EFFICIENT PUMPING OF SEWAGE AND TRASH. A VENTURI IN THE VOLUTE SUPPLIES WATER TO THE IMPELLER DURING THE PRIMING CYCLE FOR INSTANT AIR PURGING, PRODUCING FAST PRIMING WITH MINIMUM LIQUID WITHOUT THE NEED FOR AUXILIARY VALVES. REVERSE FLUSHING DURING THE PUMPING CYCLE ASSURES CLOG-FREE OPERATION.

THE PRIMARY QUICK-ACCESS END COVER EXPOSES THE REMOVABLE VOLUTE AND IMPELLER, ENABLING THE PUMP TO BE COMPLETELY DISASSEMBLED WITHOUT DISTURBING SUCTION OR DISCHARGE LINES. A SMALLER SECONDARY HANDHOLE PERMITS QUICK REMOVAL OF TANGLED SOLIDS.

THE DUCTILE IRON IMPELLERS ARE TWO-VANE SEMI-OPEN NON-CLOG TYPE WITH INTEGRALLY CAST PUMP-OUT VANES ON THE BACK SIDE, THREADED ON SHAFT FOR EASY REMOVAL.

TCU PUMPS HAVE DOUBLE MECHANICAL SHAFT SEALS OPERATING IN OIL-FILLED SEAL CHAMBERS FOR MAXIMUM COOLING AND LUBRICATING OF SEAL FACES AND PREVENTING SEAL DAMAGE EVEN IF THE PUMP IS RUN DRY. THE CAST IRON BEARING FRAMES HAVE TWO GREASE LUBRICATED BALL BEARINGS.

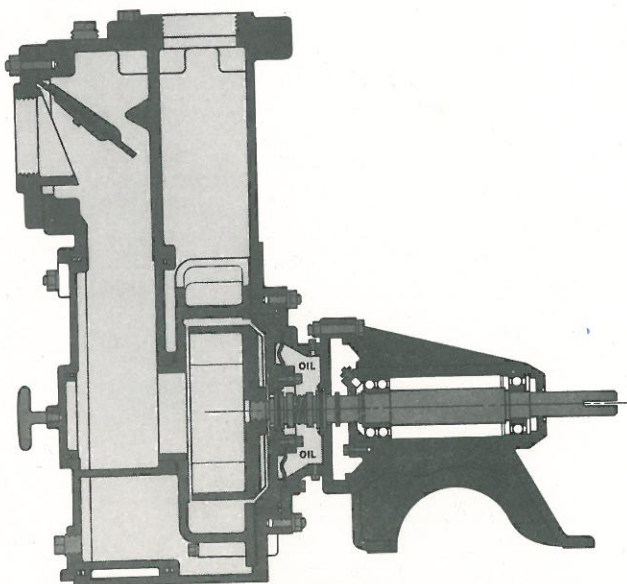
PUMPS ARE DRIVEN BY STANDARD HORIZONTAL BALL BEARING MOTORS OPERATING AT 1750 R.P.M. OR 1150 R.P.M. PUMP AND MOTOR ARE CONNECTED BY FLEXIBLE COUPLING AND MOUNTED ON STEEL BEDPLATE.

### SUGGESTED SPEC.

FURNISH AND INSTALL AS SHOWN ON PLANS FEDERAL TYPE TCU HORIZONTAL SELF-PRIMING SEWAGE PUMP, MODEL \_\_\_\_\_, RATED \_\_\_\_\_ G.P.M. AT \_\_\_\_\_ FT. TOTAL DYNAMIC HEAD.

PUMP SHALL HAVE PRIMING VENTURI, PRIMARY AND SECONDARY ACCESS PORTS, TWO-VANE SEMI-OPEN DUCTILE IRON IMPELLERS WITH PUMP-OUT VANES ON BACK SIDE, CAST IRON VOLUTE AND PRIMING CHAMBER, HEAVY CAST IRON BEARING FRAME WITH TWO GREASE LUBRICATED BALL BEARINGS, AND DOUBLE MECHANICAL SHAFT SEAL IN OIL FILLED SEAL CHAMBER.

PUMP SHALL BE FLEXIBLY COUPLED TO A HORIZONTAL BALL BEARING MOTOR, \_\_\_\_\_ H.P., \_\_\_\_\_ PHASE, \_\_\_\_\_ CYCLES, \_\_\_\_\_ VOLTS, \_\_\_\_\_ R.P.M. PUMP AND MOTOR SHALL BE MOUNTED ON A FORMED STEEL BED-PLATE.



**TCU CROSS-SECTION**