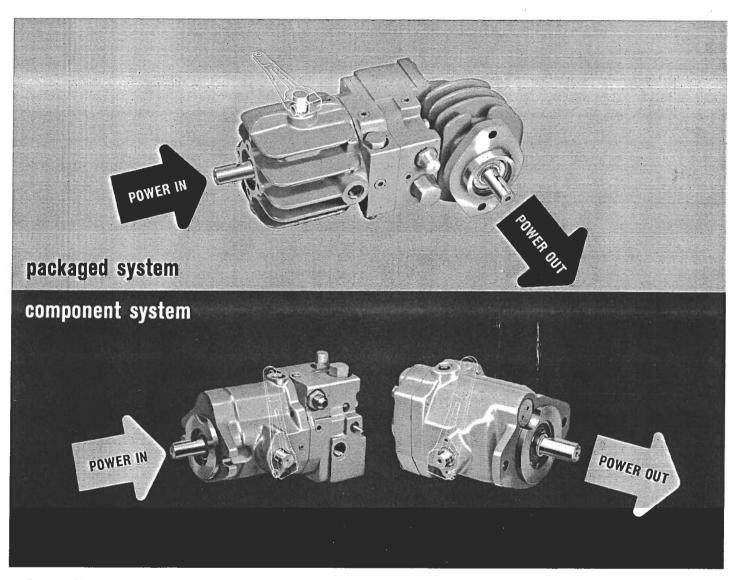




HYDROSTATIC VEHICLE TRANSMISSIONS



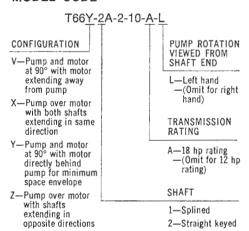
- Capacity to 18 hp
- Stepless speed control
- Reversible output
- Dynamic braking
- Overload protection
- Field serviceable
- Air cooled

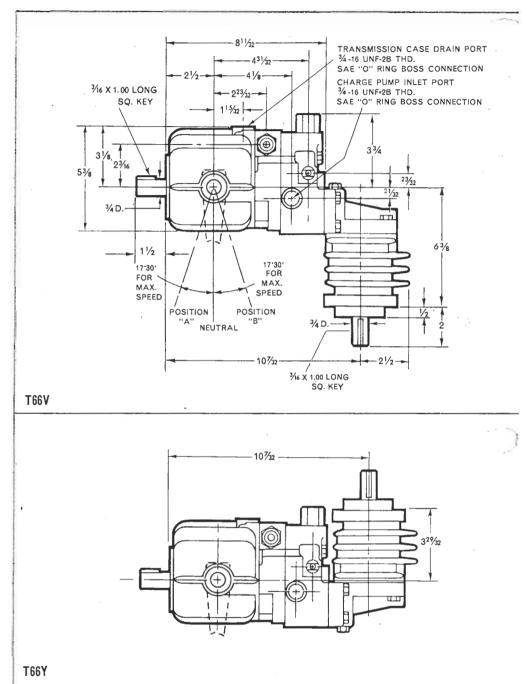
T66 PACKAGED SYSTEM

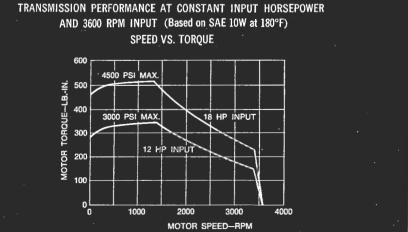
DESCRIPTION

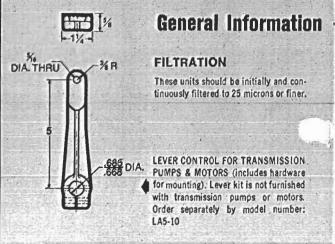
The T66 is a completely packaged, variable speed, reversible hydrostatic vehicle transmission. It consists of a variable displacement pump and a fixed displacement motor, mounted together and connected by a valve block which contains all necessary valving and hydraulic passages. An auxiliary pump for system replenishment and cooling, and for intermittent auxiliary power supply, is also included in the T66 package. Since all circuit components are in one package, external high pressure hoses and connections are eliminated -resulting in higher reliability. Both the pump and motor housings are finned to permit air cooling in most applications. Therefore, separate heat exchangers and the attendant complex circuitry are not required on many applications.

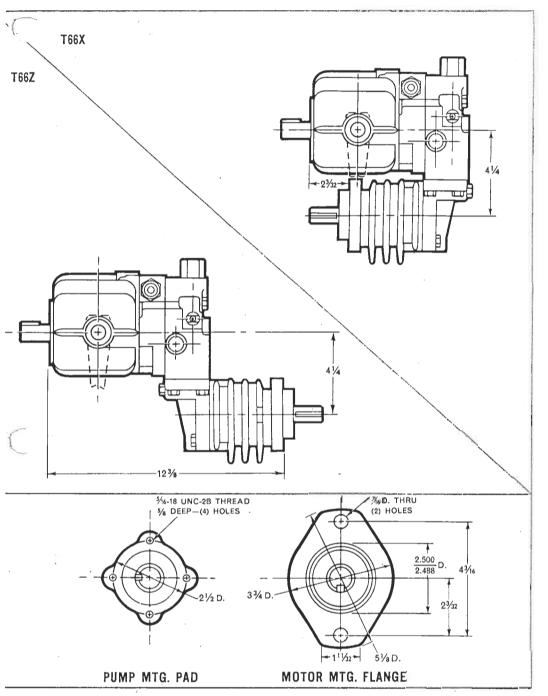
T66 TRANSMISSION MODEL CODE











OPERATION

A lever control governs pump displacement to deliver stepless, variable speeds in forward and reverse, that hold essentially constant regardless of vehicle attitude or load; overloads are prevented by valving in the T66. Smooth power application gained from the transmission gives maximum vehicle traction on any terrain.

T66 TRANSMISSION OPERATING SPECIFICATIONS

Theoretical displacement (primary pump)
Theoretical motor displacementfixed at .843 cu. in./rev.
Auxiliary pump capacity 2.0 gpm @ 3600 rpm
Main relief valve setting 3000 psi and 4500 psi
Maximum auxiliary pump pressure 500 psi
Maximum lever control force 50 in. lb/1000 psi
Maximum input speed
Maximum output speed
Maximum input hp @ 3600 rpm 12 hp and 18 hp
Weight 47 lbs.

ROTATION CONTROL

INPUT SHAFT ROTATION	OUTPUT SHAFT ROTATION	OUTPUT SHAFT ROTATION
Clockwise	Clockwise with control lever in position "A"	C'Clockwise with control lever in position "B"
Counter- Clockwise	Clockwise with control lever in position "B"	C'Clockwise with control lever in position "A"

component and Packaged Systems

FLUID RECOMMENDATIONS

HYDRAULIC SYSTEM OPERATING TEMPERA- TURE RANGE (MINIMUM TO MAXIMUM)	SAE VISCOSITY	API SERVICE CLASSIFICATION
0° F to 180° F	10W	MS
0° F to 210° F	10W-30	MS

 PUMP PERFORMANCE AT CONSTANT INPUT HORSEPOWER
AND 3600 RPM INPUT (Based on SAE 10W at 180°F)

DELIVERY VS. PRESSURE

5000
4500 PSI MAX.

18 HP INPUT
12 HP INPUT
DELIVERY-GPM

TAG-TRANSMISSION PUMP FOR COMPONENT SYSTEM

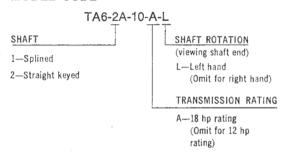
DESCRIPTION

The TA6 pump is designed for use with a hydraulic motor to form a separate component hydrostatic vehicle transmission. A .843 cu. in./rev. (maximum) variable displacement, reversible flow, axial piston pump converts engine power to hydraulic energy. All necessary transmission circuitry components are included as an integral part of the pump. These include a positive displacement auxiliary pump, check valves, high pressure relief valves, soft-ride valve, and "neutral" valve.

OPERATION

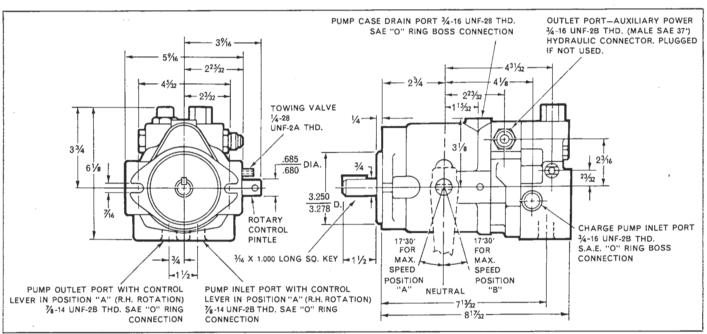
A hydrostatic vehicle transmission is created when the TA6 is connected to a fixed or variable displacement motor. Separate component transmissions operate in essentially the same manner as the packaged units described on preceding pages. They provide stepless, reversible, variable speeds with built-in dynamic braking and overload protection.

TA6 TRANSMISSION PUMP MODEL CODE



OPERATING SPECIFICATIONS TA6 TRANSMISSION PUMP

Theoretical displacement (primary pump)variable to .843 cu. in./rev.
Pump deliverySee curve on preceding page
Auxiliary pump capacity
Main relief valve setting
Maximum auxiliary pump pressure500 psi
Maximum input speed
Maximum input horsepower @ 3600 rpm12 hp and 18 hp
Shaft rotationright hand or left hand (see model code)
Weight



Vickers experience is industry-wide,
Our service is world-wide.

Whatever your application, whether it runs on wheels, tracks or skis, Vickers has the depth of experience needed to analyze your power transmission needs and develop a low cost reliable hydraulic

system that will make your vehicle more attractive to your market. And, wherever your product goes, its Vickers components will always be near one of the Vickers service centers around the world.

For complete list of addresses, write for Address Sheet 5700L



Division of Sperry Rand Corporation

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