

HYDROSTATIC TRANSMISSION

HPVMF SERIES

HPVMF-45-L-11

Hydrostatic Transmission(HST) cover a wide range of applications. It has an excellent durability for hydraulic pumps used in agricultural machine, fork-lifter and construction machine, etc.

HST is a hydraulic power transfer unit composed of hydraulic pump and motor in a single body. Pump displacement is varied with the swash plate angle. The pump is equipped with a varying displacement swash plate type piston and the motor is designed as a fixed displacement type. Motor rotation either for clockwise or counterclockwise direction can be changeable from stop to maximum number of rpm according to the change of swash plate angle of pump. The forward, reverse and stop modes of HST are performed using simple lever control and velocity proportional to lever handling range makes an easy use of transporting system for an agricultural machine and a transportation machine.



HST压力使用范围广，耐用性强，根据农业机械、叉车司机、建筑机械的用途，可广范围使用。

HST是把液压泵和电机一体化结构的液压式传动装置。油泵通过操纵斜盘角度实现容积变化的可变容积型斜盘式活塞泵，电机采用固定容积型斜盘式活塞型。依靠变换活塞泵的斜盘角度，可变换电机从静止到最大旋转数，并能正转和反转。

构成HST装置时，可以用简单的操作控制杆进行前进、后退、静止，并能得到在控制杆操作范围成比例的速度，制作成可以在农用机械、搬运机械等运行装置简便使用。



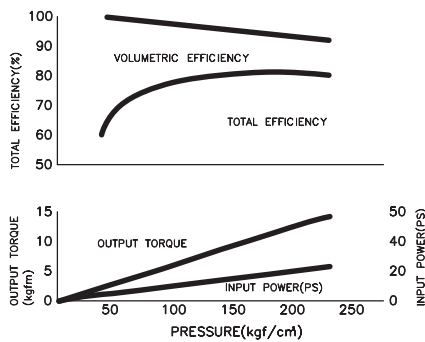
HPVMF-45-L-11



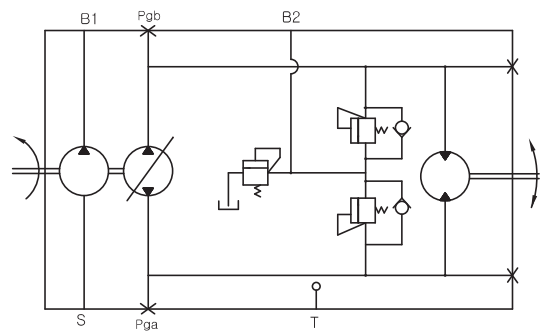
Specification

PUMP DISPLACEMENT (cc/rev)	MOTOR DISPLACEMENT (cc/rev)	MAX INPUT SPEED (rpm)	MAX OUTPUT SPEED (rpm)	MAX PRESSURE (kgf/cm ²)	MAX OUTPUT TORQUE (kgf·m)	CHARGE PUMP DISPLACEMENT (cc/rev)	WEIGHT (kg)
45.51	45.51	3400	3400	350	25.36	8.25	27.3

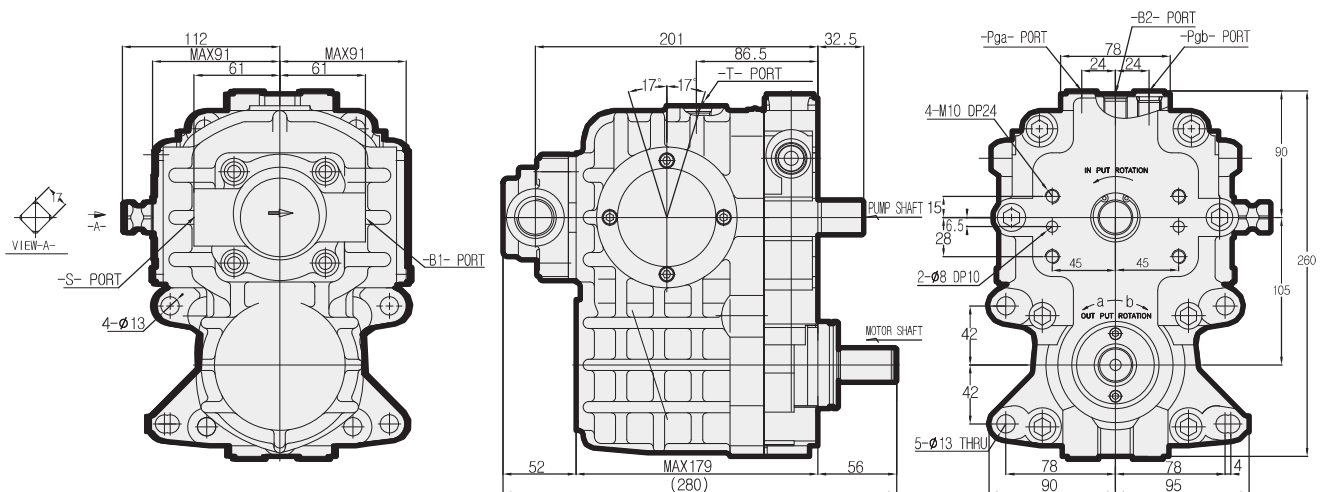
Performance Curve



Circuit



Dimensions



Port Size

CHARGE SUCTION PORT	CHARGE OUTLET PORT	DRAIN PORT	GAGE PORT
PF 3/4(S)	PF 1/2(B1)	PF 1/2(T)	PF 3/8(Pga, Pgb)

Dimensions of Shaft

SHAFT	NO. OF TEETH	PRESSURE ANGLE	MODULE	RULE
SPLINE PUMP	18	20°	1.25	JIS
SPLINE MOTOR	18	20°	1.25	