

AXIAL PISTON TRAVEL MOTOR

PTM SERIES

PTM-47/27-01-R53

The PTM Series is a hydraulic motor with a planetary reduction gear, which can be controlled from high-speed low torque to low-speed high torque, and vice versa. It is used in various areas, including construction, shipbuilding, and industrial machinery and vehicles with special functions.

- The PTM Series is a two speed control-type axial piston motor in which a double-counter balance valve and a mechanical brake are built.
- The motor of high-pressure and high-capacity has an optimized design at every part in it.
- It combines the hydraulic motor and the planetary reduction gear with various built-in functions.
- The two speed of the motor is properly controlled by adjusting the exterior pilot.
- The double counter balance valve and the shockless, cross over relief valve being built in the motor's main body, the motor is equipped with a brake system which is excellent in the absorption of shocks.
- The mechanical brake is a negative brake and operates together with the counter balance valve. It operates and stops operation automatically as the motor runs and stops running.



PTM系列是附加减速器的液压发动机，广泛适用于建筑机械、船舶机械、特种车辆、工业机械等领域，可变换高速低扭力、低速高扭力的发动机。

- PTM系列是一种双速写盘型轴向柱塞马达，包含制动阀和机械制动器。
- 是把发动机各部分系统最优化的高压、高性能发动机。
- 它最佳地结合了电机和行星齿轮减速器，具有各种内置附加功能的优良特性。
- 双速斜盘式电机的体积变化通过外部先导操作执行适当的体积转换。
- 发动机主机配有Double Counter Balance Valve和Shockless, Cross Over Relief Valve，具有Shock少的Brake功能。
- 机械制动装置时Negative Brake，与Counter Balance Valve连动，当停止时，机械制动自动动作，启动时自动解除。



OUTPUT TORQUE (kgf·m)	OUTPUT SPEED (rpm)	GEAR RATIO	MOTOR						WEIGHT (kg)
			DISPLACEMENT (cc/rev)	MAX SPEED (rpm)	RATED PRESSURE (kgf/cm ²)	TWO SPEED CONTROL PRESSURE (kgf/cm ²)	PARKING TORQUE (kgf·m)	MAX FLOW (l/min)	
1195/705	34/57.6	53.7	46.6/27.5	1824/3091	300	20	9	85	86.0

The graph illustrates the efficiency characteristics of a two-speed compressor. The x-axis represents Pressure in kgf/cm^2 , ranging from 0 to 300. The y-axis represents Efficiency in percentage, ranging from 60 to 100. Three curves are shown: Volumetric Efficiency (top curve), Mechanical Efficiency (middle curve), and Constant efficiency (bottom curve). The 'TWO SPEED' label points to the rightmost curve, which is the Constant efficiency curve.

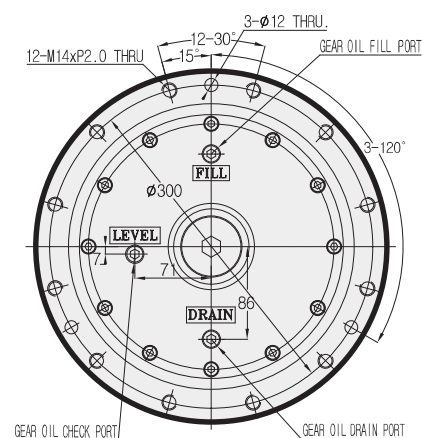
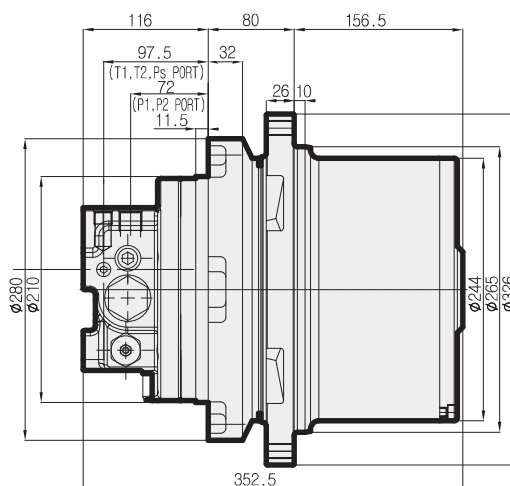
Technical drawing of the DP24/30 pressure transmitter, showing front and top views with dimensions and port labels.

Front View (Top):

- Ports: -P2- PORT, -T2- PORT, -P1- PORT, -T1- PORT, -Ps- PORT.
- Dimensions: 25, 25, 52.5, 52.5.

Top View (Bottom):

- Dimensions: 12-30°, 15°, 12-M16x2P DP24/30, 18.5, 30, 30, 250.



INLET / OUTLET PORT	CASE DRAIN PORT	PRESSURE GAGE PORT	2SPEED CONTROL PORT	GEAR OIL CHECK PORT	GEAR OIL DRAIN PORT	GEAR OIL FILL PORT
PF 1/2(P1, P2)	PF 3/8(T1, T2)	PF 1/4(a1, a2)	PF 1/4(Ps)	PT 3/8	PT 3/8	PT 3/8