

T1 Pump



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Specifications

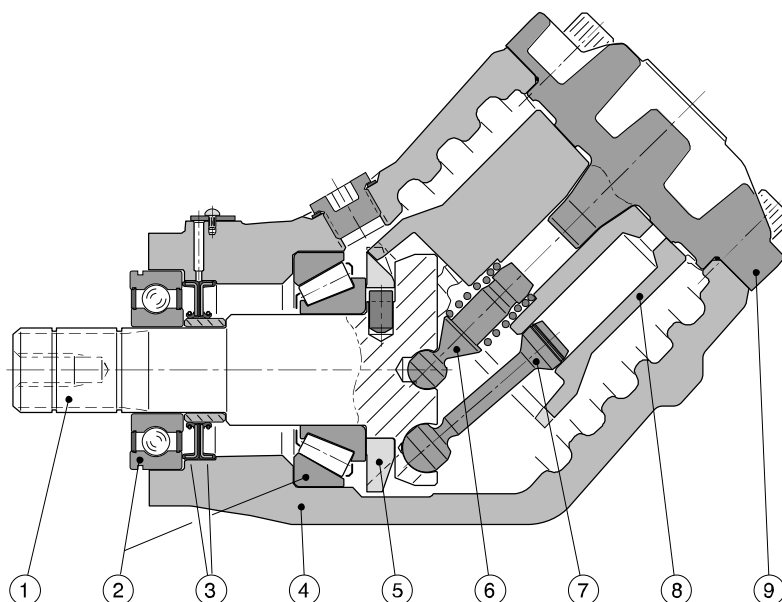
Frame size T1-	81	121
Displacement [cm ³ /rev]	81.5	118.5
Max flow ¹⁾ [l/min]	163 ³⁾	190 ³⁾
Max operating pressure [bar]		
continuous	250	250
intermittent	350	350
Shaft speed [rpm]		
- short circuited pump (low press.)	2300	2300
max speed ²⁾	2000 ³⁾	1600 ³⁾
Torque ¹⁾ [Nm]		
at 200 bar	258	376
at 350 bar	453	658
Input power [kW]		
- continuous	54	71
- intermittent ⁴⁾	67	89
Weight [kg]	8.5	12.5

- 1) Theoretical values
- 2) Valid at an inlet pressure of 1.0 bar (abs.) when operating on mineral oil at a viscosity of 30 mm²/s (cSt).
- 3) Valid with 2 1/2" inlet (suction) line.
With 2" suction line:
T1-81 – max 1400 rpm (Q ≈ 120 l/min);
T1-121 – max 950 rpm (Q ≈ 120 l/min).
- 4) Max 6 seconds in any one minute.

NOTE:
For noise level information, contact Parker Hannifin.

Pump cross section

(T1-121 shown)

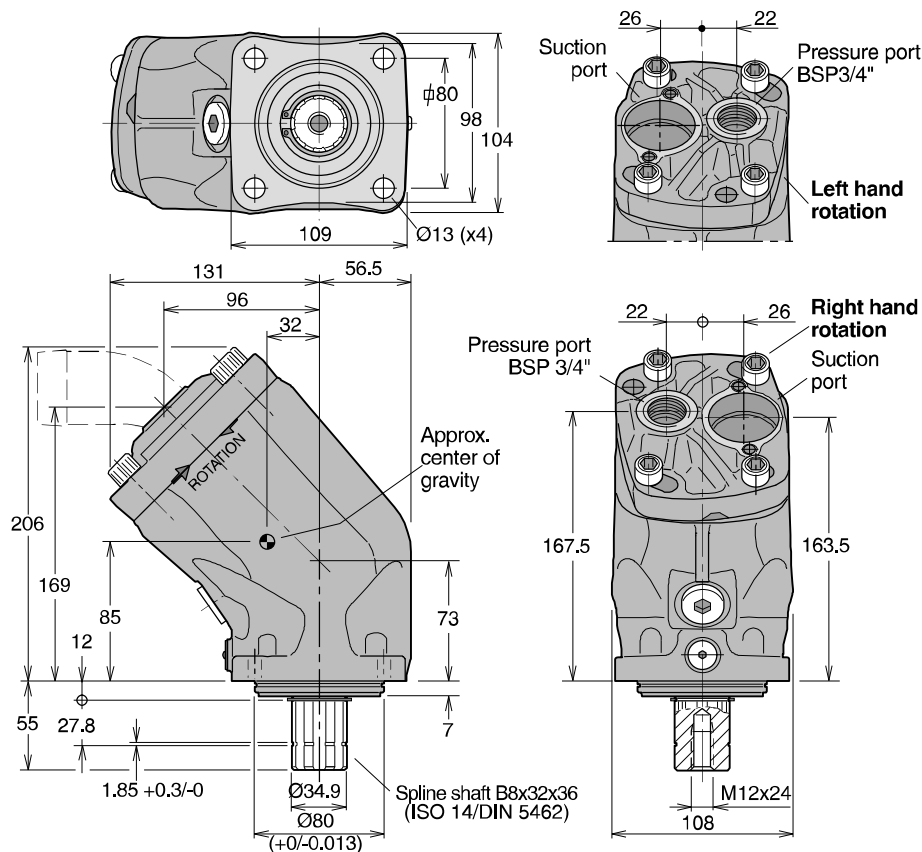


1. Input shaft
2. Bearings
3. Shaft seals

4. Housing
5. Timing gear
6. Barrel support

7. Piston with piston ring
8. Cylinder barrel
9. End cap

T1-81



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Ordering code

Example: **T1 - 81 - R**

T1 frame size
81 or 121

Shaft rotation
R Right hand
L Left hand

Standard versions

Designation	Ordering no.
T1-81-R	378 2180
T1-81-L	378 2181
T1-121-R	378 2120
T1-121-L	378 2121

Port size

T1 frame size	Pressure port ¹⁾
-81	$\frac{3}{4}$ "
-121	1"

1) BSP thread (fitting not included).

NOTE: The pump **does not** include a suction fitting; it must be ordered separately. See chapter 11.

T1 Pump - Fixed Displacement

