HYDRAULIC TORQUE WRENCH PUMP INSTRUCTION MANUAL



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1. Features and Parameters

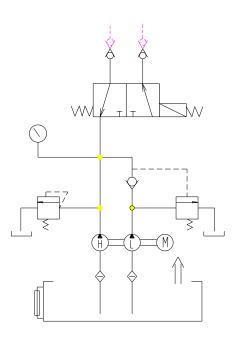
- 1.1 This high pressure torque wrench pump consists of oil pump, control valve, reservoir, motor, and instruments, with characteristics of compact design, low weight, easy structure, convenient operation and high pressure, etc... This pump adopts R-series high pressure radial-direction piston pump with one-way valve and high pressure relief valve, to control the pressure safely.
- 1.2 Main Technical Parameters

Model	
Description	BME-204
Rate Pressure (MPa)	70
Flow Rate (L/min)	6 / 1.1
Oil Cap. (L)	4.5
Power (KW)	1.5
Power Source	220V/50Hz
Control Valve Type	Solenoid
Dimension (cm)	55×32×52
Weight (KG)	34

2. Usage

This pump uses high pressure components, compact and convenient; solenoid valve control, stable and safely; easy to operate. Standard adjustable pressure from 7-70 MPa, automatically exchange of low pressure and high pressure ensure the working output.

3. Hydraulic Diagram



4. Operation

- 4.1 Fill the pump with ISO 32# hydraulic oil fully. If without oil or few oil when working, the pump will suck air which will lead to no pressure rising.
- 4.1 Loosen the pressure regulating valve on the pump.
- 4.3 Start the pump, press the green button, and then the motor start working. If press the red button, the motor stops.
- 4.4 Press the green button on the remote control handle, and the motor starts working; at the same time, observe the pressure shows on the pressure gauge. If the pressure is lower than the working pressure, adjust the pressure regulating valve clockwise slowly until the pressure reaches needed pressure. And then loosen the green button. Repeat several times. If there is no fault, install the tool on the bolt.
- 4.5 This pump is without automatic stop function. If there is no person operates after the pump start, please press the red button to stop the pump. Press the green button to put the pump into work again if needed.

WARNING: Pressure overload is forbidden. (\leq 70MPa)

5 Points for Attention

- 5.1 Please use ISO 46# or ISO 32# hydraulic oil. Use clean oil.
- 5.2Oil level should be up the middle of the level gauge to prevent pump sucking air.
- 5.3 Working temperature of the oil is -10 to 70 °C. If the temperature is too high, use cooler to lower the temperature or stop working until the temperature turns to normal.
- 5.4 Before starting the motor, loose the pressure regulating valve completely to prevent overload of pressure of the pump. Inching start of the pump motor several times to eliminate the air inside the pump for the first time use.

Faults	Main Causes	Trouble-shoot
	1. Safety valve pressure adjusted	1. Adjust safety valve
	too low	2. Inspect cone valve or valve
Low	2. Safety valve cone valve blocked	base
Low	3. O-ring of reversing valve broken	3. Change O-ring
press	4. Leaking at the couplers	4. Check the coupler and valve
ure	5. Pressure gauge no display	block
		5、Change pressure gauge or
		inspect the gauge adaptor
	1. Plunger coupling with the gap	1. Change piston
	wear is too large	2. Change related accessories
Low	2. Piston or piston spring broken	3. Fasten the coupler and change
flow	3. Leakage	seals
	4. Oil tem. Is too low or too high	4、Control oil tem10~+70 $^\circ C$
	5. Low oil level	5、Fill oil

6 Trouble-Shooting