4-WAY REVERSING VALVE SERIES SHF INSTRUCTIONS

SHF series four-way reversing valves are applicable for heat pump systems to switch between cooling mode and heating mode by changing the flow path of refrigerant. Sanhua reversing valves cover a wide application range suitable for capacities from 1 ton to 120 tons and refrigerants such as R-22, R-134a, R-404A, R-407C, R-410A and R-507C.

GENERAL SPECIFICATIONS

Applicable to fluids and refrigerants of GROUP 2 according to Directive 97/23/CE (29 May 1997) or GROUP A1 according to ANSI-ASHRAE 34-2010.

Temperature Range: -22°F to +275°F*
Maximum Operating Pressure: 650 psi

*Dependent on model used.

INSTALLATION INSTRUCTIONS: 4-WAY REVERSING VALVE SERIES SHF

1. ATTENTION: Don’t connect power supply to the electrical coil when it is not mounted into the valve.

2. Clear dust or foreign material from inside of piping, using a clean rag. Keep pipes dry to avoid moisture into the valve. It is suggested to install an 80 to 100 mesh strainer at the valve inlet.

3. COOLING CYCLE: 4-way valve must be installed in the refrigerating circuit as shown in the picture.
4 Install the electrical coil on the valve body and use a screwdriver to tighten the threaded screw to the torque rate shown in Table 1.

5 Connect the 4-way valve to the refrigerating circuit respecting the right function of the valve pipes (like shown in the picture):
   1) DISCHARGE CONNECTION
   2) CONNECTION TO CONDENSER
   3) SUCTION CONNECTION
   4) CONNECTION TO EVAPORATOR (when coil is de-energized)

6 Install the valve following the mounting position shown in the picture. Able to install in any position with the body axis held horizontally (from 0° to 360° is possible).

7 In vertical position the valve can be installed in any orientation as long as the coil stem position is up.

8 Respect the minimum required space for maintenance above coil.

9 Connect the 4-way valve per manufacturer’s design. The discharge and suction connections must be connected to the common discharge and suction respectively. Do not heat up the body to a temperature higher than 248°F when soldering the joints.

Table 1

<table>
<thead>
<tr>
<th>Torque (Nm)</th>
<th>Torque (lbf.ft)</th>
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<td>3.2 ± 0.8</td>
<td>2.4 ± 0.6</td>
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3.2 ± 0.8 (Nm) Torque (lbf.ft) 2.4 ± 0.6

10 Min. 100 mm

Max. 248°F (120°C)

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