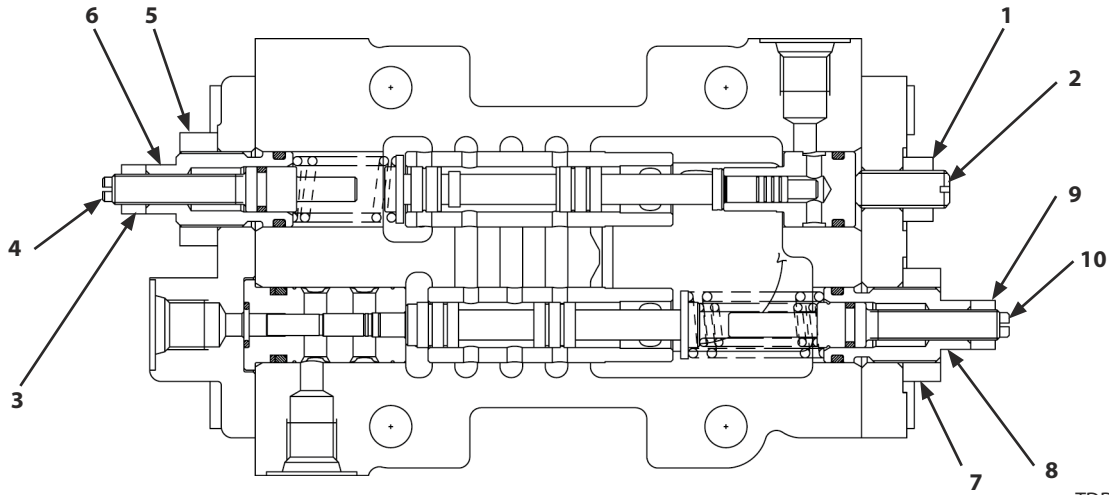


SECTION 4 OPERATIONAL PERFORMANCE TEST

Group 5 Component Test

Regulator Adjustment



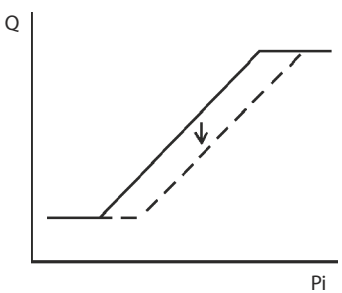


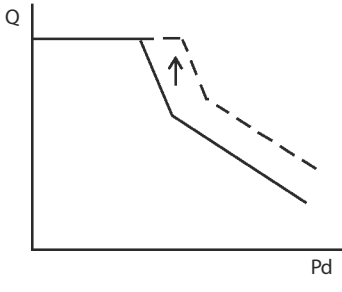


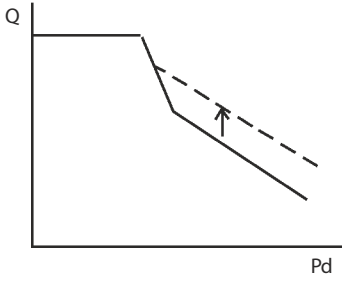


TDDE-03-01-010

- | | | |
|--------------------------------------------|--------------------------------------------------------|---------------------------------------|
| 1- Lock Nut (For Minimum Flow Rate) | 4- Adjusting Screw (For Maximum Flow Rate) | 7- Lock Nut (For P-Q Control) |
| 2- Adjusting Screw (For Minimum Flow Rate) | 5- Lock Nut (For Pilot Pressure Characteristic) | 8- Adjusting Screw (For P-Q Control) |
| 3- Lock Nut (For Maximum Flow Rate) | 6- Adjusting Screw (For Pilot Pressure Characteristic) | 9- Lock Nut (For P-Q Control) |
| | | 10- Adjusting Screw (For P-Q Control) |

Adjustment Item	Adjustment Procedure	Remarks
<p>1. Minimum Flow Rate</p> <p style="text-align: right;">TDAA-04-05-003</p>	<p>Loosen lock nut (1) and turn adjusting screw (2). Rotating the adjusting screw 1/4 turn clockwise increases the minimum pump flow rate by 8.21 cm³/rev. (0.5 in³/rev).</p> <p> : 17 mm : 20 N·m (2 kgf·m, 15 lbf·ft) </p>	<p>Do not turn the adjusting screw more than 1.5 turns. Securely tighten lock nut (1) after adjustment.</p>
<p>2. Maximum Flow Rate</p> <p style="text-align: right;">TDAA-04-05-004</p>	<p>Loosen lock nut (3) and turn adjusting screw (4). Rotating the adjusting screw 1/4 turn clockwise decreases the maximum pump flow rate by 10.0 cm³/rev. (0.6 in³/rev).</p> <p> : 13 mm : 10 N·m (1 kgf·m, 7.4 lbf·ft) </p>	<p>Do not turn the adjusting screw more than 2 turns. Do not increase the maximum flow rate. In other words, do not turn the adjusting screw counterclockwise. Securely tighten lock nut (3) after adjustment.</p>

SECTION 4 OPERATIONAL PERFORMANCE TEST

Group 5 Component Test

Adjustment Item	Adjustment Procedure	Remarks
<p>3. Pilot Pressure Characteristics</p>  <p style="text-align: right;">Pi</p> <p style="text-align: center;">TDAA-04-05-005</p>	<p>Loosen lock nut (5) and turn adjusting screw (6).</p> <p>Rotating adjusting screw (6) 1/4 turn clockwise decreases the flow rate by 15.14 cm³/rev. (0.9 in³/rev).</p> <p> : 30 mm</p> <p> : 30 N·m (3 kgf·m, 22 lbf·ft)</p>	<p>Do not turn the adjusting screw (6) more than one turn.</p> <p>When adjusting screw (6) is turned clockwise, the maximum flow rate will also be decreased. In order to maintain the maximum flow rate unchanged, turn adjusting screw (4) counterclockwise twice adjusting screw (6) is turned.</p> <p>This ratio of 2 (adjusting screw (4) counterclockwise turn) to 1 (adjusting screw (6) clockwise turn) is to counterbalance.</p> <p>Securely tighten lock nut (5) after adjustment.</p>
<p>4. P-Q Control (Torque Adjustment)</p>  <p style="text-align: right;">Pd</p> <p style="text-align: center;">TDAA-04-05-006</p>	<p>Loosen lock nut (7) and turn adjusting screw (8).</p> <p>Rotating the adjusting screw 1/4 turn clockwise increases the flow rate by 19.9 cm³/rev. (1.2 in³/rev).</p> <p> : 30 mm</p> <p> : 30 N·m (3 kgf·m, 22 lbf·ft)</p>	<p>Do not turn the adjusting screw more than one turn.</p> <p>Rotate the adjusting screws watching the engine performance.</p> <p>Securely tighten lock nut (7) after adjustment.</p>
<p>5. P-Q Control (Torque Adjustment)</p>  <p style="text-align: right;">Pd</p> <p style="text-align: center;">TDAA-04-05-007</p>	<p>Loosen lock nut (9) and turn adjusting screw (10).</p> <p>Rotating the adjusting screw 1/4 turn clockwise increases the flow rate by 3.73 cm³/rev. (0.2 in³/rev).</p> <p> : 13 mm</p> <p> : 10 N·m (1 kgf·m, 7.4 lbf·ft)</p>	<p>Do not turn the adjusting screw more than one turn.</p> <p>Rotate the adjusting screws watching the engine performance.</p> <p>Securely tighten lock nut (9) after adjustment.</p>