

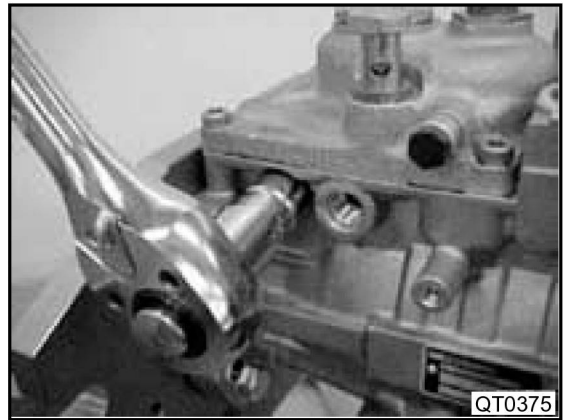
- (26) Install a new gasket, delivery valve, and delivery valve holder.

Tightening torque: 88.2 - 100.0 N·m (9.0 - 10.2 kgf·m)



- (27) After replacing the O-ring with a new part, install the regulator valve.

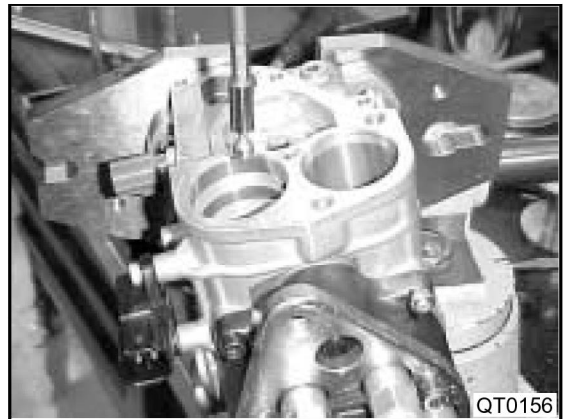
Tightening torque: 13.7 - 17.6 N·m (1.4 - 1.8 kgf·m)



- (28) Adjust the air gap of the solenoid spill valve.
1) Install the needle valve.

Note:

At this time, do not install the needle valve spring.



- 2) Install the adjustment shim.

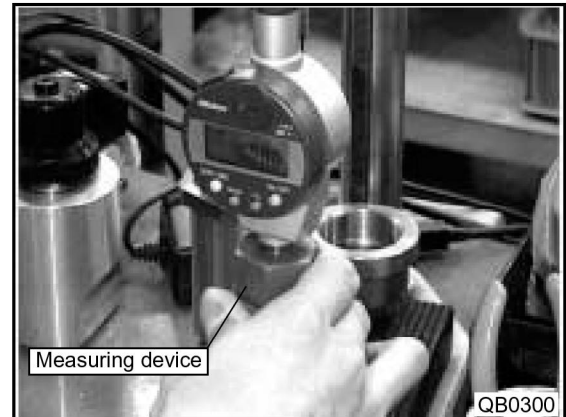


- 3) Attach the measuring device to the dial gauge, and with the gauge pressed against the precision measurement base plate, set the dial to "0".

Dial gauge: 95800-10270

Measuring device: 95096-10570

Connecting rod: 95800-20050

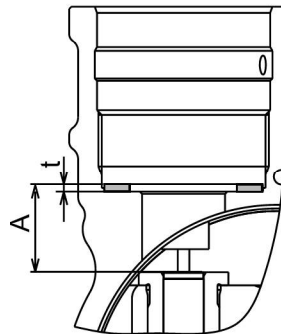


- 4) With the air gap adjusting shim in place, attach the gauge to the pump housing and use the locknut wrench head to tighten it to the specified torque.

Tightening torque: 98.1 - 109.8 N·m (10.0 - 11.2 kgf·m)



- 5) At this time, read measurement value "A" from the gauge.



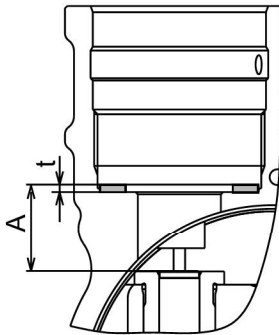
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- 6) Remove the dial gauge. Then, reset it to "0" with the measuring device.

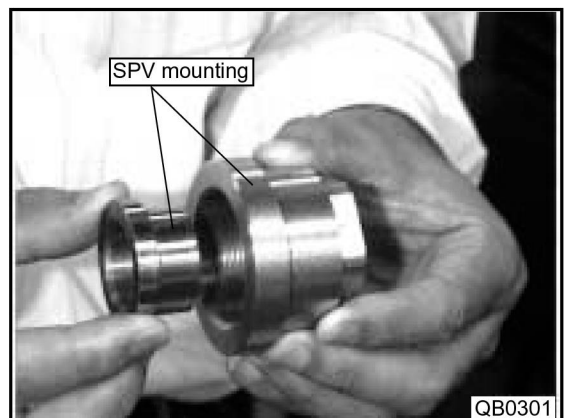


- 7) Remove the installed shim. Place the shim on the base plate, and place the measuring device over the shim to measure the thickness of the shim. At this time, read the value "t" indicated on the gauge.

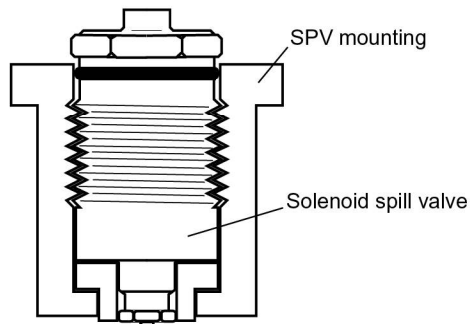


- 8) Have the SPV mounting (STT) ready.

STT: 95096-10580



- 9) Insert the solenoid spill valve into the SPV mounting, and tighten it by hand.



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- 10) Using the check harness, connect the solenoid spill valve to the power supply.

STT: 95096-10590



- 11) Replace the tip of the gauge with the bit attachment for measuring the pushrod stroke.

STT: 95800-20030

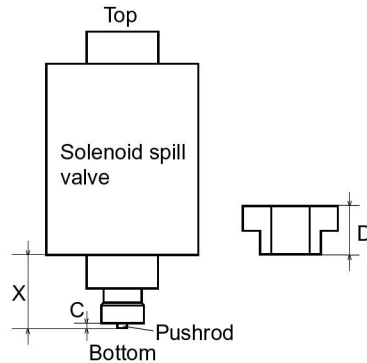


- 12) On the base plate, set the dial to "0".



Note:

"X" is the distance from the bottom of the solenoid portion to the tip of the pushrod of the solenoid spill valve in the energized state.



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- 13) Apply the specified current (1A) to the solenoid spill valve (12V when using the check harness), and press the measuring device to read the measurement value "C" on the gauge.

Note:

The application of current to the solenoid spill valve is limited to 30 seconds.

- 14) Add the measurement value to the attachment height "D" to calculate value "X".

$$X = C + D$$

- (29) Calculate and select the thickness of the air gap adjustment shim.

- 1) Calculation: The value of the air gap must be within the range given in the formula below.

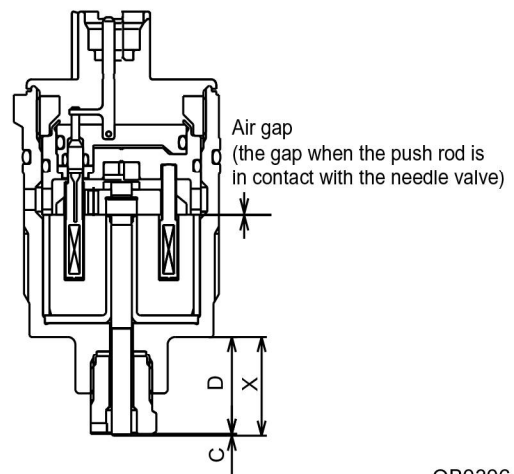
$$X - A = 0.067 \pm 0.005$$

- 2) Shim selection (select the correct thickness based on the original shim thickness and calculation):

- If the calculated value is higher than the standard, select a shim that is thicker than the original shim.
- If the calculated value is lower than the standard, select a shim that is thinner than the original shim.



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Example: $X - A = 0.030$

$$0.067 - 0.030 = 0.037$$

Shim thickness to be selected = B (original shim thickness) - 0.037 ± 0.005