



TX1166253-UN: Auxiliary Flow Rate Control Valve (control operation)

LEGEND:

- 16 - From Pump 2
- 107 - To Auxiliary Spool
- 108 - Auxiliary Flow Rate Control Valve
- 156 - From Flow Rate Select Solenoid Valve
- 300 - Check Valve
- 301 - Poppet
- 302 - Switch Valve
- 600 - High-Pressure Oil
- 602 - Low-Pressure Oil
- 604 - Return Oil
- 606 - Trapped Oil
- 609 - Pilot Oil
- DY - To Solenoid Manifold Valve (port DY)

Control Operation— Auxiliary flow rate valve is shifted by pilot oil from flow rate select solenoid valve (156) when combined with one of the following operations:

- Arm out
- Boom up
- Swing
- Travel

See [Flow Rate Select Solenoid Valve Operation](#) and see [Two Pump Combined Flow Kit Operation](#) . (Group 9025-05.)

Pilot oil (609) from flow rate select solenoid valve shifts switch valve (302), creating trapped oil (606) on the backside of poppet (301). The poppet now restricts the flow of supply oil from pump 2 (16) to auxiliary spool (107). Supply oil from pump 2 flows to arm, boom, and swing spools to ensure priority flow of supply oil to these functions.

Go to [Section_9025:Group_05](#)

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