

## Oversized Pump Flow Control Valve

**Part No.**  
**33510N-01**



**NOTE:** Fits '07-later units only.

## Tool Kit

**Part No.**  
**F-33510N-TL**



- Reamer
- Reamer Jig
- Guide Pin

**NOTE:** Sonnax “F-Tool” kits designed to service a specific bore require the VB-FIX, a self-aligning valve body reaming fixture. More information and instructions can be found online at [www.sonnax.com](http://www.sonnax.com).

## Jatco/Nissan JF011E (REOF10A), JF015E (REOF11A), JF016E (REOF10D), JF017E (REOF10E)



### 1. Disassembly

- Remove OE valve train from the pump flow control valve bore.
- Save the OE spring and threaded end cap for reuse.
- Discard OE valve.

### 2. Bore Reaming

Ream pump flow control bore (for reaming instructions/reamer care, please visit [www.sonnax.com](http://www.sonnax.com)). Sonnax reaming tool kit **F-33510N-TL** and **VB-FIX** are required for this operation.

### 3. Installation & Assembly

- Insert Sonnax valve into bore with projecting stem inboard as shown above.
- Check for free movement of the valve in the bore.
- Reinstall OE spring into bore.
- Reinstall and tighten OE threaded end cap.

### 4. Final Testing

Vacuum testing at the port(s) indicated holds the recommended minimum 14 in.-Hg.

