



Installation Instructions

18SP339—Install Oil Filter Bypass Valve Components

Valve and spring replacement is most conveniently performed at time of normal engine oil and filter change.

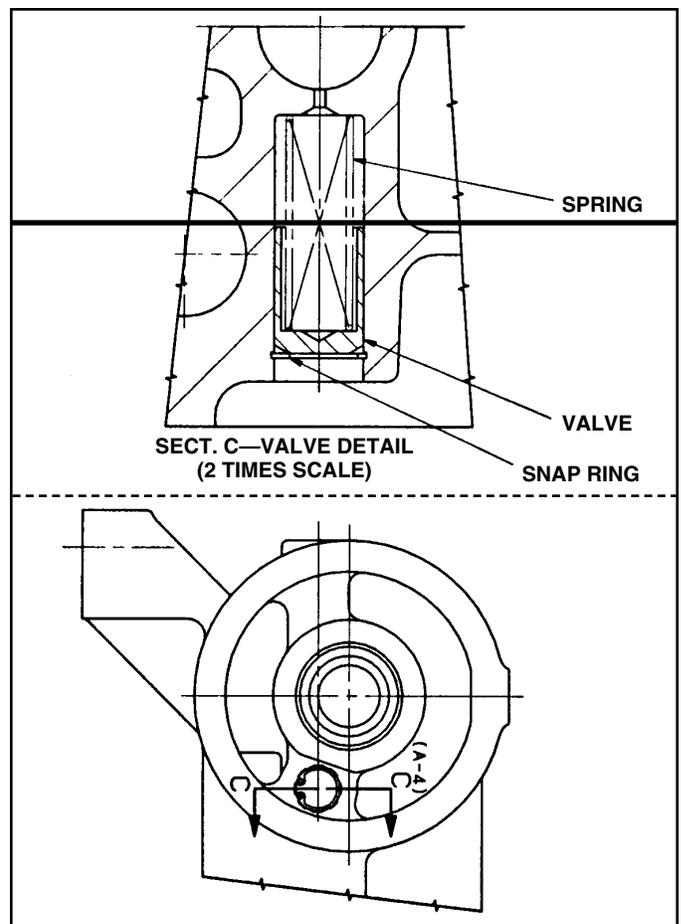
NOTE: This kit contains two sets of oil filter bypass valve components. Included are a 5/8" diameter valve and spring set plus a 3/4" diameter valve and spring set. Only one valve and spring set will be used in your engine. Discard the unused components.

Install valve components as follows:

1. Clean the oil cooler/oil filter adapter area on the side of the engine.
2. Drain the oil from the engine and dispose of it in an environmentally responsible manner, according to state and/or federal (EPA) recommendations.
3. Remove the spin-on oil filters from the adapter to expose the bypass valve in the left-side filter head. Dispose of filters in an environmentally responsible manner.
4. Using a pair of snap ring pliers, remove the valve retaining snap ring from the valve bore.
5. Withdraw the valve and spring. Discard used parts.
6. Measure the diameter of the valve bore and select the required components (5/8" or 3/4" diameter). Install the new valve, spring, and snap ring.
7. Fill (2) PF-2100 filters with clean lubricating oil, making sure gaskets are also lubricated.
8. Install filters onto adapter inserts and tighten 2/3 to 3/4 extra turn after filter gaskets contact adapter.

NOTICE: Mechanical tightening is not required and may distort or crack the adapter head.

9. Install 38 quarts of clean lubricating oil, start the engine, and check for leaks.
10. Stop the engine, wait 20 minutes, and check the oil level. Add oil as required to bring the level to the "Full" mark on the dipstick.



Bypass Valve Location on Left-Side Filter Head

