



# Valve Spring

13-2110



**Sifton Lightweight Valve Spring Kits** include springs, keepers, retainer, and lower collars unless noted.

**74" and 80" Shovelhead, 1966-84**

**VT No. Type**

**13-2110** Has 160 lb seat pressure, up to .600" valve travel. Hard-anodized aluminum retainers. Uses stock lower collars.

**13-2115** Has 160 lb seat pressure up to .600" valve travel. Titanium retainers. Uses stock lower collars.



**Sifton Valve Spring Retainers and Keeper Sets.** Keepers are CNC machined and then heat treated.

**Keeper Set**

**11-2021** Pan/Shovelhead

**Upper Retainer Sets**

**11-2020** Pan/Shovel Titanium Offset 0.70" to allow more installed spring height.

**11-4248** Pan/Shovel aluminum offset 0.70" to allow more installed spring height.

**11-2022** Lower collar set. Pan/Shovelhead machined to work with .562" diameter guide seals and counter Bored for added clearance.



**Sifton Big Twin Valve Spring Set** for high lift cams can be used with stock retainers and lower collars for up to .600" lift. Fits 1948-84.

**VT No. 13-2000**



# Valve Spring



**Manley 1948-79 Valve Spring Kits 74 and 80 FL-FX .495 Lift Kits except Evolution**

VT No.	Collars Top	Combined Loads	Coil Bind	Recommended Cam Lift
11-9229	Titanium	140 @ 1.480 300 @ 1.000	.950	Stock-.500"

The above ".495" lift kits do not require cylinder head machining for installation. These kits are supplied with lower collars that allow additional spring travel as compared to stock collar and provides these kits the ability to accept camshafts up to .495" lift. Note: 11-9229 is for stock stem diameter valves

**Manley Valve Kits. 74 and 80 FL-FX .500"-.600" Lift Kit except Evolution**

VT No.	Combined Loads	Coil Bind	Recommended Cam Lift
11-9612	180 @ 1.600 320 @ 1.100 360 @ 1.000	.930	.500-.600

The above kit features tri-spring (outer-intermediate-inner) interference fit to reduce harmonics and control spring surge. Additional machining is required to lower the height of the valve guide to avoid interference with the top collar. Springs have more pressure than stock but can be used with .500" lift or .600" lift cams. Includes titanium top collars.

**74 and 80 FL-FX .465" Lift Kit except Evolution**

VT No.	Combined Loads	Coil Bind	Recommended Cam Lift
11-9613	150 @ 1.450 300 @ 1.000	.950	Stock .465

The above kit does not require machining for installation. However, do not exceed .465 lift due to the potentially high stress on the springs. The springs are interference fit to help the harmonics. Supplied with steel top collars. Use with stock stem diameter valves only.



11-9621

**FL-FX Upper Collar** for fitment of the double matched springs, color coded, for stock valve stem diameters, fits 1941-84 Big Twin models, in set of 4.

**Red Collars** used most often by combining ease of installation and good spring pressure, which will accommodate most cams. Allows spring to sit .080 higher than green collars.

**VT No. 11-9621**



**Sifton Valve Spring Kits** feature four double matched competition springs. Fits 1941-84 FX-FL, order top colored collars separately from this page. Mfg# 3030.

**VT No. 11-9618**



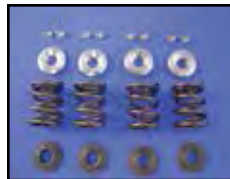
**Valve and Spring Kit by Sifton** for Shovelheads includes two intake and two exhaust valves with nitrated finish, complete spring set and keepers with upper and lower collars. Four piece valve set available separately.

VT No.	Year	Item
11-0794	1966-79	Kit
11-0795	1980-81	Kit
11-0796	1982-84	Kit
11-0679	1966-84	Valve Set



**Sifton Valve Keepers.** 1941-84 FL-FX steel valve keepers fit stock 3/8" valve stems. Sold in sets of four.

**VT No. 11-9623**



**Sifton 74 Pan Valve Spring Set** with 160 lb seat pressure, .600 valve travel and titanium retainers.

**VT No 13-2010**



**S&S Complete Valve Spring Steel Kits** for L1981-84 BT. Each kit includes springs, top collar, lower collar, retainers and shims. Cam to .590" lift

**VT No.11-2063**



**S&S Valve Spring Kits Pan-Shovelhead** 1948-84 Big Twin to be used with stock style guides and lower spring collars, stock 3/8"

diameter valves, and stock keepers. By grinding .060 to .090 off the tops of the valve guides cams with lifts up to .550" may be used. Kit includes four aluminum top collars and four of each inner and outer springs.

**VT No. 13-9226**