

## INSTALLATION SHEET FOR FC STYLE FLOW CONTROLS KEEP WITH PRODUCT UNTIL INSTALLED

ADDITIONAL SHEETS MAY BE PRINTED OUT FROM OUR WEBSITE [WWW.BRAND-HYD.COM](http://WWW.BRAND-HYD.COM) UNDER PRODUCT CATALOG SECTION

CF port (Controlled Flow) - flow coming from the CF port is pressure compensated and proportional to the side lever rotation. Flow can vary from closed to wide open.

EX port (Excess Flow) - Flow coming from the EX port is also pressure compensated.

### WHAT IF I?

Block the CF port – Compensator spool will shift over and close off the EX port. Do not block the CF port.

Block the EX port – to do this a pressure compensated or load sense pump must be used. We also offer a special compensator spool (C9A-2P) to help reduce instability issues.

Mounting Surface – The valve must be mounted on a flat surface, with a recessed area for the side lever spool. It is important not to bend or twist the casting when mounting because this may cause the comp spool to bind. On rigid surfaces we recommend washers between casting and mounting surface.

Have Instability Issues – Most instability issues can be resolved by using a different compensator spool or spring. The following parts can be substituted for the C9A compensator spool: C9AS, C9A-093, C9A-2P AND XDC609, spring: P1652.

Instability generally occurs when a motor is turning something that can free wheel (fan) or has a shaking force (vibration). When this occurs the FC51 compensator spool tries to compensate for all the changes in load. The reaction to each other becomes unstable and leads to chatter & noises.

Other Information – Valves are available in NPT, SAE and British pipe thread, however, we do recommend SAE porting.

Pipe thread sealant – Warranty is void when Teflon tape is used to seal pipe threads. This is because Teflon tape is a friction reducing agent which allows customers to over-torque fittings. We recommend using a sealant that does not include friction reducing agents i.e. Lead Plate.

All FC's are built with stainless steel (416) side lever spools to help prevent the side lever spools from locking up when they are in a corrosive environment. We recommend using 316 stainless steel for highly corrosive environments (i.e. marine applications). To order a valve with 316 stainless steel simply add "SS" to the end of the model code.

Fittings not included.

