

INSTALLATION SHEET FOR FCR STYLE FLOW CONTROLS KEEP WITH PRODUCT UNTIL INSTALLED

ADDITIONAL SHEETS MAY BE PRINTED OUT FROM OUR WEBSITE 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. The CF port has relief protection.

EX port (Excess Flow) - This port drains the flow from the relief to tank. Flow coming from the EX port is also pressure compensated, but does not have relief protection. Please keep in mind that any back pressure on the EX port increases the relief cracking pressure.

Relief Adjustment - The standard relief setting for all FCR's is 1500 psi, unless model code specifies otherwise. The relief is adjustable from 500 psi to 3000 psi. To increase the pressure, remove the acorn nut and turn the set screw clockwise. To decrease the pressure, remove the acorn nut and turn the set screw counter-clockwise.

WHAT IF I?

Block the CF port - Pressure will build up to the relief setting and then flow will go over the relief that was originally designated to go out the CF port.

Block the EX port - We do not recommend this because your relief will become ineffective. The EX port acts as a drain for the relief.

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.

Note: 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.

