



## INSTALLATION SHEET FOR EFC 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 current received by the coil. 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. 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 EFC compensator spool tries to compensate for all the changes in load. The reaction to each other becomes unstable and leads to chatter & noises.

Manual Override Adjustment - First, remove the 7/16" acorn nut. Next, loosen the 7/16" jam nut. Finally, turn the override screw clockwise with a flat head screwdriver to manually adjust the flow out of the CF port until the motor, or cylinder, begins to move. Then, turn the screw counterclockwise until the motor, or cylinder, stops. Turn the override screw counterclockwise an additional 1/2 turn, secure the jam nut and reinstall the acorn nut.

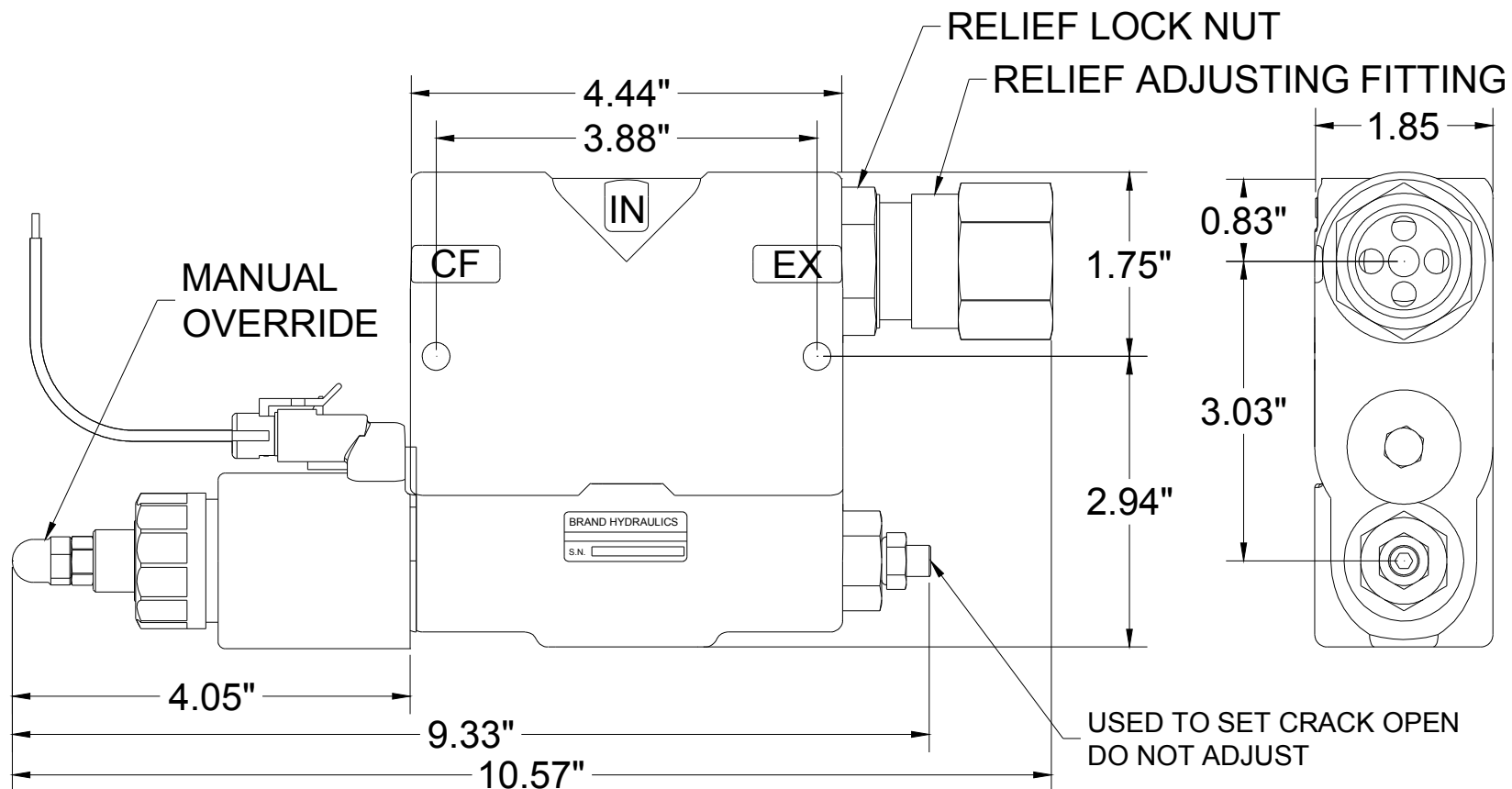
Relief Adjustment - The relief pressure will be preset to customer specifications. In order for the relief to work, the EX port must be plumbed back to tank. To adjust the relief, simply loosen the relief lock nut and then turn the relief adjustment fitting clockwise to increase the pressure setting, see Figure 1 for more information. Both the relief lock nut and relief adjustment fitting accept a 1.375" wrench.

Other Information - EFC valves come standard in #12 SAE. Consult the factory for other possible port sizes, we do, however, recommend SAE porting.



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**Figure 1: Dimensional Data for EFC valves (EFC with relief shown).**