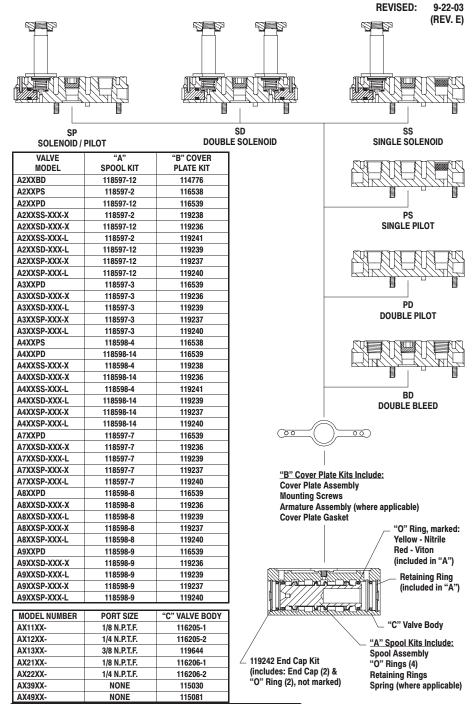
OPERATOR'S MANUAL

ALPHA





GENERAL CONSIDERATIONS

- Remove valve from service and disconnect all lines, inlet, outlet and pilot on side ported and stacking models. On subplate mounted and "Thin" models, remove valve from base.
- 2. Disconnect all electrical connections from coil.
- 3. Remove all fittings from ports and pilot connections.

SINGLE AND DOUBLE SOLENOID VALVE DISASSEMBLY

- Remove nut and washer from top of coil, then lift coil vertically to clear stem. NOTE: Cover plate disassembly is not required beyond this point. If cover plate is defective, replace with appropriate kit.
- Remove the four socket head screws, lift cover plate vertically until locating pins are clear, then remove gasket
- Remove retaining rings from valve body. Caution is to be used on spring return and spring centered valves, as spring or spool may eject.
- 4. Remove end caps from body.
- Remove spool. Spool may require forcible removal, use a wooden or plastic dowel, do not use a metal punch or screwdriver in valve bore, as this could result in damage to body seal lands.
- De-grease body, then inspect i.d. for damage to seal lands. If lands show scratches or burrs, replace body.
 Do not de-grease elastomer components in hot water based solvents, trichloroethylene or methyl ethyl ketone.

SINGLE AND DOUBLE SOLENOID VALVE REASSEMBLY

- Be sure valve body is completely dry both internally and externally.
- Lubricate all seals, o.d. of spool and i.d. of valve body with a light coat of 36460 "O" ring lube or equivalent.
- Install one end cap and retaining ring in body with "O" ring toward bore - on spring return valve, the end opposite the spring should be installed.
- Install spool in body (spring cavity, if so equipped, facing out) be sure spool is centered in bore. Do not cock. While a slight force may be required, do not beat spool into valve.
- After spool is seated, install spring in spring cavity in spool (where applicable). Install end cap, depressing spring, and install retaining ring.
- Install gasket in valve body and assemble cover plate on valve. NOTE: On single solenoid valves, the coil

- stem installs on opposite end to spring.
- Install four socket head cap screws, taking care not to cross thread screw, and torque to 18 - 23 in. lbs (2.0 - 2.6 Nm)
- Install coils over stems, with single horizontal pin closest to valve. Place spring washer over stem, then reinstall nut and hand tighten.

SINGLE AND DOUBLE PILOT VALVE DISASSEMBLY

- Remove the four socket head screws. Lift cover plate vertically until locating pins are clear, then remove gasket.
- Remove retaining rings from valve body. Caution is to be used on spring return and spring centered valves as spring or spool may eject.
- 3. Remove end caps from body.
- Remove spool. Spool may require forcible removal.
 Use a wooden or plastic dowel, do not use a metal
 punch or screwdriver in valve bore, as this could result
 in damage to body seal lands.
- De-grease body, then inspect i.d. for damage to seal lands. If lands show scratches or burrs, replace body.
 Do not de-grease elastomer components in hot water based solvents, trichloroethylene or methylethyl ketone.

SINGLE AND DOUBLE PILOT VALVE REASSEMBLY

- Be sure valve body is completely dry both internally and externally.
- Lubricate all seals, o.d. of spool and i.d. of valve body with a light coat of 36460 "O" ring lube or equivalent.
- Install one end cap and retaining ring in body with "O" ring toward bore - on spring return valve, the end opposite the spring should be installed.
- Install spool in body (spring cavity, if so equipped, facing out) be sure spool is centered in bore. Do not cock. While a slight force may be required, do not beat spool into valve.
- After spool is seated, install spring in spring cavity in spool (where applicable). Install end cap, depressing spring, and install snap ring.
- Install gasket in valve body and assemble cover plate on valve. NOTE: On single pilot valves, the coil stem installs on opposite end to spring.
- Install four socket head cap screws, taking care not to cross thread screw, and torque to 18 - 23 in. lbs (2.0 - 2.6 Nm).

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