

ITT Industries, Engineered Valves

Dia-Flo[®] Dualrange Actuator

Disassembly/Assembly Procedure

1. Following the Dia-Flo Actuator Instruction Manual, remove the bonnet/actuator assembly from the valve body. Remove the valve diaphragm. Then, remove the actuator upper cover, springs (if present), diaphragm plates and diaphragm.
2. Loosen the jam nuts (36) and back off the setscrews (28).
3. Withdraw the compressor/stem assembly from the bonnet.
4. Remove the upper spindle (7) and spring nut (6) from the lower spindle (4). These items have been installed using Loctite 271; therefore, extra torque or application of the heat may be required to loosen. Note: the spring (5) will completely relax prior to complete removal of the spring nut.
5. Remove the spring (5) and outer compressor (3).
6. Drive the Spirol pin (33) through the inner compressor (2) and lower spindle (4). The valve internals are now completely disassembled.
7. Inspect and replace adapter busing o-rings are necessary. Use Dow 111 lubricant or equal.
8. Assembly is the reverse of the above. Loctite 271 is recommended for assembly of the spring nut (6) and upper spindle (7). The setscrews (28) must be set so they catch the rim of the outer compressor, yet do not bind on the compressor during stroking.

