

Aligning Coil Housings

Some valves use cast iron explosion-proof housings that are threaded directly to the valve body bonnets. This means that the angular position of the conduit fitting will be random when the housing is tightened down. These NEMA 7 housings are used on the following valve series:

2000, 3000, 4000, 5000, 6000, 7000, 8000, 12,000 (DC only),
14,000 (DC only), 15000, and 16000

When an explosion-proof housing is ordered on any of these valves a set of 4 shims is included with the valve. The part number for this shim kit is 61427 (Atko p/n 229). If the angular alignment of the coil housing is not important the installation of the shims is not required.

Instructions for Installing Shims

1 Unscrew the cast iron coil housing assembly from the valves bonnet or cylinder cap.

Note: If holding the valve in a vise, clamp on it either end to end or on the hex portion. Do NOT clamp across the width of the valve body. This can distort the valve body and prevent proper piston motion.

2 Place the shims over the cylinder cap tube so that they rest on the cylinder cap or bonnet.

3 Screw the cast iron coil housing back onto the bonnet or cylinder cap.

Note: There are 4 shims with thickness of .005, .010, .015, and .020. Use any combination of these that allow the coil housing thread to bottom out such that the conduit fitting is oriented in the desired direction.

4 Repeat steps 2 and 3 as required.

Note: Do not use more than .050 if shims (all those provided) or the explosion-proof feature of the housing will be compromised.

All other valves with any type of coil housing can be aligned by loosening the screw or nut at the top of the coil housing, rotating the housing, then re-tightening the screw.