

Application Information Release

QTRPAQ High Temperature Retrofit

A power plant in Louisiana was having trouble obtaining a satisfactory service life from any of three different brands of pneumatic actuators used to drive their dampers. After trying to deal with the ongoing problems for sometime and having repaired each of the different brands several times, the power company learned that none of the actuator manufacturers could supply a trim suitable for continuous operation above 350°F. Equally upsetting was the fact that the dampers had been originally designed and/or modified to use three different drive shaft configurations in order to directly attach to the three specific brands of actuator. Determined to resolve their problems, the power company looked around and found that some actuator companies said they could supply higher temperature trims but these would be non-catalog very special products with incredible prices, extremely long lead times and no assurance of spare parts availability. As for the mounting, the dampers would need to be taken out of line and reworked to accept the new, very special, replacement actuators.

The power company felt like they were stuck between a rock and a hot spot until the QTRCO Distributor salesman told them about our ability to do 400°F. The power company said "great" but what about price, mounting to the dampers, delivery and spare parts. The confident salesman replied that the QTRPAQ HT450 option was less than a 15% adder, because of QTRCO' unique output drive design and universal mounting capability the actuators would be made to duplicate each of the old actuator's configurations thus eliminating any need to change the dampers shafts or mounting platforms and he would be back in one week to install the new QTRCO actuators. As for spare parts, they are in stock but suggested that the power company save their money because all QTRPAQ actuators come with a 3 year Performance Warranty.

An order was placed the next day and the actuators, complete with 400°F high temperature trim and an output drive identical to the take off actuators, shipped from QTRCO two days latter.

As promised, the salesman pulled up to the dampers, dropped the old actuators on the ground, knocked off some rust on the damper shaft and bolted on the new QTRPAQ units. Everything was installed and operating when a technician asked if some of the actuators could be changed for reverse operation? Normally this would be a big problem causing the actuators to be disconnected from the dampers, moved to a clean location, disassembled, the pistons extracted and rotated 180°, the actuator reassembled and tested for leaks before reinstalling them on the dampers. However in this case, the salesman simply disconnected the actuators from the dampers, turned them upside down and reconnected them in a matter of minutes to complete the job.

REMINDER:

Standard QTRPAQ actuators are rated for continuous operation up to 180°F (82°C) and optional up to 400°F (204°C).



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