Case 3057
Alternative Set Pressure Testing of Pilot Operated Pressure Relief Valves
Section XIII; Section VIII, Division 1; Section VIII, Division 2; Section X

Inquiry: Section XIII, 3.6.3.1(a) requires that each valve be tested to demonstrate its set pressure. In lieu of testing a fully assembled pilot operated pressure relief valve (POPRV), under what conditions may the pilot be tested separately to demonstrate the POPRV’s set pressure?

Reply: It is the opinion of the Committee that in lieu of demonstrating the set pressure of a fully assembled POPRV per 3.6.3.1(a) the set pressure may be demonstrated by testing the pilot separately provided the following requirements are met:

1. The pilot shall meet the set pressure requirements of 3.6.3.1(b) through (e).
2. The fully assembled valve shall then be tested to verify that all components are properly connected, leak tight, and the pilot actuates the main valve. For liquid or steam service this test may be conducted on air or other suitable gas.
3. This Case number shall be shown on the Manufacturer’s Certificate of Conformance.