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ASME PTC 9 – 1970

ASME PTC 9 – 1974

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Displacement Compressors, Vacuum Pumps and Blowers

PERFORMANCE TEST CODES

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
United Engineering Center
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Foreword

The Test Code for Displacement Compressors, Vacuum Pumps and Blowers was originally issued in 1915. After further revision and extension, it was printed in tentative form in the January, 1922, issue of Mechanical Engineering, and was presented to the Society for discussion at a public hearing during the Spring Meeting in Atlanta in May, 1922. The revised version was approved by the Standing Test Codes Committee on December 1, 1924 and, on March 25, 1925 was approved and adopted by the Council as a standard practice of the Society. The first edition was exhausted in the Spring of 1927 and, acting under instructions from the Standing Committee, PTC Committee No. 9 made slight corrections and released it for reprinting.

In October, 1935, Council appointed a new Committee to undertake the complete rewriting of the Code. Prepared during the year 1938, the revised draft was approved at the December 9, 1938 meeting of the Standing Test Codes Committee. On May 9, 1939, it was approved and adopted by the Council.

When in 1947, the supply of this second edition, after several reprintings, again approached exhaustion, Committee No. 9 was instructed to draft a further revision primarily to bring the Code into conformity with the requirements as to scope, arrangement, and mandatory provisions summarized in the 1945 Code on General Instructions. The third edition included certain new material, particularly that having to do with gases other than air, but otherwise followed closely the procedures, methods and requirements of the second edition. It was approved by the Standing Committee on December 4, 1953, and approved and adopted by the Council as a standard practice of the Society by action of the Board on Codes and Standards on February 9, 1954.

In March, 1961, Council appointed a new PTC Committee No. 9 to again revise the Test Code for this class of equipment. The new Committee found that major advances in the procedures for indicating compressors made it necessary to completely revise affected paragraphs in the existing Code. Also, the Committee considered it not feasible to include sufficient detailed information on these advances, and decided instead to refer to the Supplement on Instruments and Apparatus, Part 8 on Measurement of Indicated Horsepower.

Where practicable, the same symbols and definitions are used in PTC 9-1970, as in PTC 10-1965. Material on the thermodynamic properties of gases has been eliminated, and instead typical references are given in the Appendix. Another important change is the admission of sharp-edged orifices as well as the standard ASME Flow Nozzle to measure air and gas flow.

The members of PTC Committee No. 9 wish to express sincere appreciation for the assistance of the ASME Headquarters staff, and also for the efforts of Chairman W.K. Newcomb, now retired, Acting Chairman W.F. Hartwick and Mr. Hays C. Mayo, who organized the present Committee and was its Chairman from 1961 to 1964. The cooperation of the organizations employing the the members of the Committee has likewise been of invaluable assitance.

This fourth edition, PTC 9-1970, was approved by the Performance Test Codes Committee on November 7, 1969. It was approved and adopted by the Council as a standard practice of the Society by action of the Policy Board, Codes and Standards on March 10, 1970.

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PERSONNEL OF PERFORMANCE TEST CODE COMMITTEE NO. 9 ON DISPLACEMENT COMPRESSORS, VACUUM PUMPS AND BLOWERS

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