

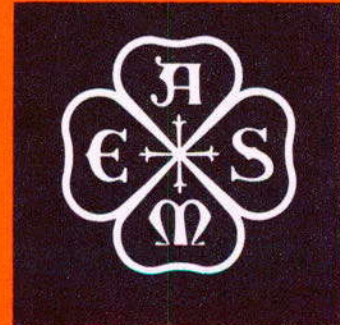
ASME PTC 9 – 1970

ASME PTC 9 – 1974

REAFFIRMED 1997

FOR CURRENT COMMITTEE PERSONNEL
PLEASE SEE ASME MANUAL AS-11

Displacement Compressors, Vacuum Pumps and Blowers



**PERFORMANCE
TEST
CODES**

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
United Engineering Center
345 East 47th Street New York, N.Y. 10017

Displacement Compressors, Vacuum Pumps and Blowers

**PERFORMANCE
TEST
CODES**

Copyright, 1970 by
The American Society of Mechanical Engineers

Printed in the United States of America

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 assistance.

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.

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

W. K. Newcomb, *Chairman*
W. F. Hartwick, *Acting Chairman*

E. E. Ambrosius, (ret.), formerly Professor, Department of Mechanical Engineering, College of Engineering and Architecture, The Pennsylvania State University
Home address: 711 Sunset Road, State College, Pennsylvania 16801

R. M. Crawford, Associate Director of Engineering, Chemical and Plastic's Operating Division, Union Carbide Corporation, Box 8361, South Charleston, West Virginia 25303

Hunt Davis, Manager of Research and Development, Compressor and Engine Division, Worthington Corporation, Box 69, Buffalo, New York 14240

William F. Hartwick, Chief Designer — Cylinders, Reciprocating Machinery Engineering, The Cooper-Bessemer Company, Mount Vernon, Ohio 43050

Kenneth J. Moser, Associate Professor, Department of Mechanical Engineering, Stevens Institute of Technology, Hoboken, New Jersey 07030

W. K. Newcomb, (ret.), formerly Director of Research, Ingersoll-Rand Company. Home address: 122 Grace Boulevard, Painted Post, New York 14870

James L. Phillips, Jr., Assistant Chief Engineer, Lehigh Power House, Bethlehem Steel Corporation, Bethlehem, Pennsylvania 18015

Jack M. Ranck, Ranck Engineering Company, 324 North Central Expressway, Richardson, Texas 75080

Henry D. Schoenwetter, Chief Engineer, Systems Analysis Department, Burns and Roe, Inc., 320 Fulton Avenue, Hempstead, New York 11550

Lyn E. Sturdevant, Jr., Chief Engineer, Franklin Plant, Chicago Pneumatic Tool Company, 191 Howard Street, Franklin, Pennsylvania 16323

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-