

Pneumatic conveying

Part 2. Glossary of equipment

ICS 01.040.53; 53.040.30

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Committees responsible for this British Standard

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- British Coal Corporation
- Health and Safety Executive
- Solids Handling and Processing Association Ltd.
- Co-opted members

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Foreword

This Part of BS 7871 has been prepared by Technical Committee MHE/9. It is one of a series of standards being prepared on the subject of pneumatic conveying.

The other published Part of this standard is:

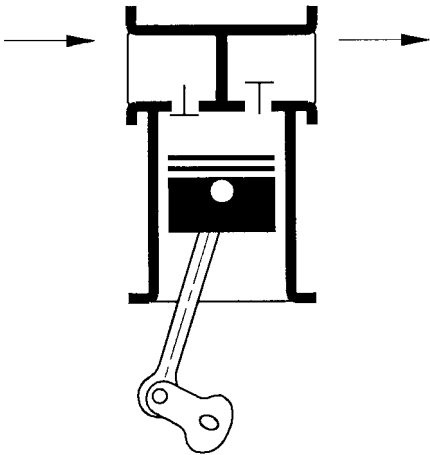
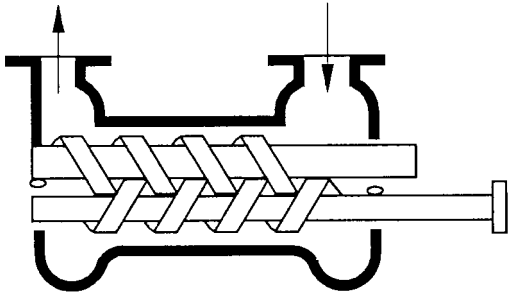
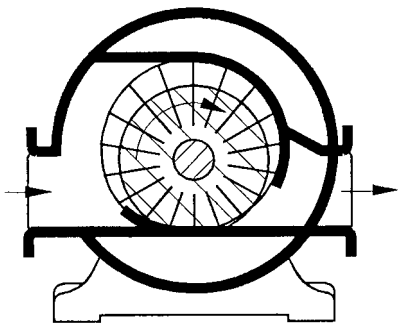
Part 1: Pneumatic conveying — Glossary of terms

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 14, an inside back cover and a back cover.

Section 1. Air and gas movers

1.1 Compressors

No.	Terms and definitions	Figures
1101	reciprocating compressor Compressor with one or more pistons moving in cylinders to compress gas and eject it at a higher pressure.	
1102	screw type compressor Rotary compressor with left hand and right hand screws in close engagement, which entrain the gas and eject it at a higher pressure.	
1103	multi-vane compressor Rotary compressor with sliding vanes capable of creating a positive pressure at the outlet.	

1.2 Blowers/exhausters

No.	Terms and definitions	Figures
1201	roots type blower/exhauster Positive displacement machine with synchronized lobed rotors in a housing, creating either a partial vacuum at the inlet, a pressure at the outlet, or both.	
1202	multi-vane rotary blower/exhauster Rotary machine with sliding vanes in the rotor to create a partial vacuum at the inlet and a positive pressure at the outlet.	
1203	liquid ring-blower/exhauster Multi-bladed rotor in an elliptical housing partially filled with liquid, which forms a seal.	
1204	regenerative blower/exhauster side channel blower/exhauster Externally vaned rotor, which rotates at high speed within an internally vaned housing. Gas entering spirals alternately between rotor and stator vanes and increases in pressure until it discharges through the outlet.	