



Document No.	GIS 34-107
Applicability	Group
Date	16 January 2004

Guidance on Industry Standard for API 617 Expander-Compressors

GIS 34-107

**BP GROUP
ENGINEERING TECHNICAL PRACTICES**

Foreword

This is the first issue of Engineering Technical Practice (ETP) BP GIS 34-107. None of the BP heritage companies maintained documents concerning general-purpose couplings so this document was newly created.

Uncontrolled Copy

Copyright © 2004, BP Group. All rights reserved. The information contained in this document is subject to the terms and conditions of the agreement or contract under which the document was supplied to the recipient's organization. None of the information contained in this document shall be disclosed outside the recipient's own organization without the prior written permission of Manager, Standards, BP Group, unless the terms of such agreement or contract expressly allow.



Table of Contents

	Page
Foreword	2
Introduction	4
Chapter 1 General requirements	5
Section 1 – General	5
1.3 Conflicting requirements	5
Section 2 – Basic design	5
2.1 General	5
2.3 Casings	5
2.7 Bearings and bearing housings	5
2.8 Shaft end seals	6
Section 3 – Accessories	6
3.4 Controls and Instrumentation	6
3.5 Piping and appurtenances	6
Section 4 - Inspection, testing, and preparation for shipment	6
4.1 General	6
4.2 Inspection	6
4.3 Testing	6
4.4 Preparation for shipment	7
Annex 1A – Reference list of U.S., ISO, and international standards (Normative)	7
Chapter 4 Expander-compressors	8
Section 1 – General	8
1.1 Scope	8
Section 2 – Basic design	8
2.3 Casings	8
2.4 Inlet guide vanes, variable nozzles, and heat shields	8
2.6 Dynamics	8
2.7 Bearings and bearing housings	9
2.10 Lubrication and sealing systems	9
Section 3 – Accessories	9
3.3 Mounting plates	9
3.6 Special tools	10
Section 4 – Inspection, testing, and preparation for shipment	10
4.4 Preparation for shipment	10
Bibliography	11



Introduction

- a. Guidance for expander compressors is based on API 617, Seventh edition, Chapter 1 “General requirements” and Chapter 4 “Expander-compressors”.
- b. Guidance statements of this GIS are modifications to API 617.
- c. Modifications to API 617 are identified as Add, Modify to Read, or Delete.
- d. Paragraph numbers in this GIS correspond to API 617.
- e. Paragraphs of API 617 chapters 1 and 4 that are not revised remain applicable.

