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Guidance on Practice for Product Transfer in Lubricant Blend Plants

GP 82-14

BP GROUP
ENGINEERING TECHNICAL PRACTICES

Foreword

This is the first issue of Engineering Technical Practice (ETP) GP 82-14. This Guidance on Practice (GP) includes reference to parts of heritage documents from the merged BP companies as follows:

British Petroleum

RP 42-1	Process piping
RP 44-7	Site layout
RP 62-1	Valve selection

Revision History		
Rev	Date	Comments
1	31/05/2005	Initial draft issued to Engineering network for comment/approval
2	21/07/2005	Final version issued to ETP after review by Lubricants Engineering Network

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Introduction

Transfer of product (bulk additives, base oils and blended lubricants) is an integral part of the operation of a lubricant blend plant. By its nature, there is a significant risk of spillage if correct equipment and procedures are not used. It is also important that measurement of product being transferred is accurately made to ensure that good management of stock is maintained. Additionally, good design and installation of plant and equipment is important to minimise energy use and simplify maintenance. This Technical Practice gives guidance and specific requirements to ensure that these issues are correctly addressed.



1. Scope

This GP provides guidance for the design, installation, operation and maintenance of equipment for the transfer of bulk liquids within a lubricant blending plant. It does not cover procedures and equipment for bulk loading of materials (such as base oils and bulk additives) into the plant or loading of finished goods into bulk transport (road or rail) for delivery to customers. GP 82-12 describes the requirements for these activities. Similarly, this GP does not cover the transfer of finished products to tanks on customers' premises, which is described in GP 82-13.

2. Normative references

The following normative documents contain requirements that, through reference in this text, constitute requirements of this technical practice. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this technical practice are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies.

BP

GP 42-10	ASME B31.3 Piping Systems
GP 82-11	Vertical and Horizontal Above Ground Atmospheric Storage Tanks
GP 82-12	Bulk Loading and Unloading of Lubricants
GP 82-13	Design, Installation and Operation of Bulk Lubricant Storage Tanks at Customer Sites.
GP 82-21	Drum Decanting in Lubricant Blending Plants
GP 82-32	Specification and Use of IBCs for Delivery of Lubricants
GP 82-57	Lubricant Blend Plant Design and Maintenance
GN 82-302	Lever Action Valves
GN 82-401	Inspection of handrails, ladders, platforms and stairs
GN 82-404	Lever action valve handles
GN 82-501	Specification, installation and maintenance of flexible bellows expansion joints
GN 82-503	Procedure for maintenance operations on pipework containing fluid at elevated temperature or pressure

BS

BS 1710	Identification of Pipelines and Services-AMD 6012
BS 6129	Selection and Application of Bellows Expansion Joints for Use in Pressure Systems Part 1: Metallic Bellows Expansion Joints

API

API Manual of Petroleum Measurement Standards

EEMUA

Supplement to ASME B 31.3, Publication 153/95

NFPA

NFPA 101-2000 Life Safety Code

