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Guidance on Industry Standard for ISO 14313 (API 6D) Slab and Expanding Gate Valves (All Sizes), Wedge Gate Valves Greater than DN 600 (NPS 24)

GIS 62-020

**BP GROUP
ENGINEERING TECHNICAL PRACTICES**

Foreword

This is the first issue of Engineering Technical Practice (ETP) GIS 62-020. This Guidance on Industry Standard (GIS) is based on parts of heritage documents from the merged BP companies as follows:

Amoco (ACES)

A PN-VA-GS-E	Piping—Valves—General Service—Selection Specification.
A PN-VA-GS-G	Piping—Valves—General Service—Selection Guide.

ARCO (APCES)

ES 203-98	Ball Valve Procurement Specification.
ES 206-98	Valve Procurement Specification.

BP Oil US (Refining Practices)

RP 5-3-1	Valve Design and Selection Criteria.
RP 5-3-10	Ball Valves.

British Petroleum (RPSE)

RP 62-1	Guide to Valve Selection.
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Introduction

- a. Guidance for gate valves is based on ISO 14313, Pipeline Valves, 1999 (API Specification 6D, Twenty-second Edition, January 2002).
- b. Guidance statements of this GIS are modifications to ISO 14313.
- c. Modifications to ISO 14313 are identified as Add, Modify to Read, or Delete.
- d. Clause numbers in this GIS correspond to ISO 14313.
- e. Clauses of ISO 14313 that are not revised remain applicable.



1 Scope

Modify to Read

Slab gate valves and expanding gate valves greater than or equal to DN 50 (NPS 2) and wedge gate valves larger than DN 600 (NPS 24) for piping systems designed to ASME B31.3.

PN rated valves.

Valves of higher pressure rating than are covered in the reference standard.

The reference Standard (ISO 14313) contains material specifically relating to ball valves/plug valves/check valves that is not relevant to this GIS and should be ignored.

2 Normative references

Add

ASME B16.11, Forged Fittings, Socket-Welding and Threaded.

ASME B16.20, Metallic Gaskets for Pipe Flanges Ring-Joint, Spiral Wound, and Jacketed.

ASME B16.34, Valves – Flanged, Threaded and Welding End.

ASME B31.3, Process Piping.

BSI PD 5500, Unfired fusion welded pressure vessels.

EN 1092-1, Flanges and their joints – Circular flanges for pipes, valves, fittings and accessories, PN designated- Part 1: Steel flanges.

EN 12516, Parts 1 to 3 Valve shell strength

EN 12982, Industrial valves end to end and centre to end dimensions for butt-welding end valves.

EN 13445, Unfired pressure vessels.

GIS 62-017, Guidance on Industry Standard for Rising Stem (Gate and Globe) Valves – Common Material.

GIS 62-021 Guidance on Industry Standard for EEMUA 182 Integral Block and Bleed Valve Manifolds.

ISA 93.00.01, Standard Method for the Evaluation of External Leakage of Manual and Automated On-Off Valves.

ISO 5208, Industrial valves - Pressure testing of valves.

ISO 5752, Metal valves for use in flanged pipe systems – Face to face and centre to face dimensions.

ISO 15848-1, Industrial valves - Fugitive emissions - Measurement, test and qualification procedures - Part 1: Classification system and qualification procedures for type testing of valves.

VDI Recommendation 2440 “Emission control - Mineral oil refineries”.

3 Terms and definitions

Add

Double Isolation valve

