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Guidance on Industry Standard for ISO 17292 (API 608) Metal Ball Valves - DN 8 (NPS 1/4) to DN 500 (NPS 20) up to Class 800 and PN 100

GIS 62-012

BP GROUP
ENGINEERING TECHNICAL PRACTICES

Foreword

This is the first issue of Engineering Technical Practice (ETP) GIS 62-012. This Guidance on Practice (GP) 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 ball valves is based on ISO 17292, Metal ball valves for the petroleum, petrochemical and allied industries. ISO 17292 is adopted as EN ISO 17292 and, as such, replaces BS 5351. ISO 17292 is intended to be adopted as API 608.
- b. Guidance statements of this GIS are modifications to ISO 17292.
- c. Modifications to ISO 17292 are identified as Add, Modify to Read, or Delete.
- d. Clause numbers in this GIS correspond to ISO 17292.
- e. Clauses of ISO 17292 that are not revised remain applicable.



1 Scope

Add

— end entry, top entry, or welded construction.

— PN rated valves to PN100

- The scope is also intended to cover special ball valve designs such as 'Orbit' and 'Konosphaera' type.

2 Normative references

Add

API Standard 6FA, Specification for Fire Test for Valves.

API Standard 607, Fire Test for Soft-Seated Quarter-Turn Valves.

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

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

ASME CODE Section VIII, Division 2.

BS 6755-2, Testing of valves — Part 2; Specification for fire type-testing requirements.

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.

GIS 62-016, Guidance on Industry Standard for Ball, Plug, and Other Quarter-Turn 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 228-1, Pipe threads where pressure tight joints are not made on the threads – Part 1: Dimensions, tolerances and designation.

ISO 10497, Testing of valves fire type-testing requirements.

ISO 14313, Petroleum and natural gas industries - Pipeline transportation systems - Pipeline valves (API 6D).

ISO 15156, Petroleum and natural gas industries—Materials for use in H₂S-containing Environments in oil and gas production. (NACE MR0175).

ISO 15761, Steel gate, globe and check valves for sizes DN 100 and smaller, for the petroleum and natural gas industries

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

NACE MR0103, Materials Resistant to Sulphide Stress Cracking in Corrosive Petroleum Refining Environments.

VDI Recommendation 2440 "Emission control - Mineral oil refineries".

