

APPLICABLE STANDARDS – BALL & PLUG VALVES

Australian Pipeline Valve valves are manufactured in accordance with API, ANSI, ASME and BS standards. This list contains the most important related standards for ball and plug valves. Australian Pipeline Valve valves may be designed, manufactured and tested in accordance with other international standards on request. The below standards dictate all facets of design, firesafe testing, wall thickness, testing, end connections, inspection and numerous other associated requirements.

API - American Petroleum Institute

Spec. 6A	Specification for wellhead & christmas tree equipment
Spec. 6D	Specification for Pipeline valves
Spec. RP6F	Recommended practice for fire testing of valves
Spec. 6FA	Specification for fire testing of valves
Std. 598	Valve inspection and test
Std. 605	Large diameter carbon steel flanges
Std. 607	Fire test for soft seated quarter turn valves
Std. 608	Specification for refinery valves

ANSI - American National Standards Institute

ASME - American Society of Mechanical Engineers

B16.11	Forged steel fitting socket-welding and threading
B16.5	Steel pipe flanges and flanged fittings
B16.10	Face to face and end to end dimensions of ferrous valves
B16.25	Butt welding ends.
B16.34	Steel valves – flanged and butt welding ends
B31.3	Chemical plant and petroleum refinery piping systems
B31.4	Liquid petroleum transportation piping systems
B31.8	Gas transmission and distribution piping systems

ASTM - American Society for Testing Materials

01.01	Steel piping, tubing and fittings
01.02	Ferrous castings; Ferro alloys
02.01	Copper and Copper alloys
02.04	Nickel and Nickel alloys
03.01	Metals – mechanical testing; elevated & low temperature test; metallography

NACE - National Association of Corrosion Engineers

MR-01-75	Sulfide stress cracking resistant metallic materials for oilfield equipment
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MSS - Manufacturers Standardisation Society

SP06	Standard finishes for contact faces of pipe flanges and connecting-end flanges of valves and fittings
SP25	Standard marking system for valves fittings, flanges and unions
SP44	Steel pipeline flanges
SP45	By-pass and drain connection standard
SP55	Quality standard for steel castings – visual method
SP61	Hydrostatic testing of steel valves
SP72	Ball valves with flanged or butt-welding ends for general service

ISO - International organisation for Standardisation

ISO 9001	Quality systems – Model for quality assurance in design/development, production, installation and servicing
ISO 5208	Pressure testing of valves - Industrial
ISO 5752	Metal valves for use in flanged pipe systems - Face-to-face and centre-to-face dimensions
ISO 7121	Flanged steel ball valves
ISO 10423 (API 6A)	Wellhead and christmas tree equipment Specification
ISO 10497 (API 607)	Testing of valves - Fire type-test requirements (Fire Test for Soft-Seated Quarter-Turn Valves)
ISO 14313 (API 6D)	Specification for Pipeline Valves
ISO 15156	NACE MR0175, Petroleum and natural gas industries - Materials for use in H2S-containing environments in oil and gas production
ISO 15848-1	Industrial valves - Measurement, test and qualification procedures for fugitive emission Part 1: Classification system and qualification procedures for type testing of valves
ISO 17292	Metal ball valves for petroleum, petrochemical and allied industries

BS - British Standard

BS 1560	Steel pipe flanges and flanged fittings
BS 2080	Face to face, centre to centre, end to end, and centre to end dimensions of flanged and butt-welding end steel valves for the petroleum, petrochemical and allied industries
BS 4504	Flanges and boltings for pipe valves and fittings.
BS 5146	Inspection and test of steel valves for the petroleum, petrochemical and allied industries.
BS 5351	Steel ball valves for the petroleum, petrochemical and allied industries.
BS 6755	Testing of valves

For technical references and ASTM/ASME cross reference information on stainless, duplex, chrome-moly and alloy steel used in valves & piping systems in the petrochemical and refining go to our website: <http://www.australianpipelinevalve.com.au>

MAIN DESIGN STANDARDS BALL & PLUG VALVES

Australian Pipeline Valve pipeline ball and plug valves are manufactured to the following API and ASME Standards which dictate all facets of design, firesafe testing, wall thickness, hydrostatic testing, end connections, etc.

American Petroleum Institute - API



API 6D	API 6FA	API 598
API 608	API 607	API 599

American Society of Mechanical Engineering - ASME

ASME B16.5	ASME B16.10	ASME B16.25
ASME B16.34	ASME B31.3	ASME B31.8

STANDARD MATERIALS

Standard Valve Materials Grades

- A105 N	- AISI 4140	- A 182 F6A	- A564 630	- A182 F53
- A350 LF2	- A694 F60	- A 182 F304	- A182 F44	- A182 F55
- A350 LF3	- API 6A 60K	- A 182 F316	- A182 F51	

For other ANSI, ASME, ISO, API, BS, API valve related technical cross reference charts and tables relating to standards, codes, pressure, temperature, application, suitability, equivalents, body & trim materials, valve manufacturing & test standards, etc., go to the technical section of our website.

We manufacture valves in API 600, API 602, API 6D, BS 1868, API 603, API 6A and numerous other standards including Ball, Butterfly, Check, Gate, Globe, Needle and Plug valves.

~ AUSTRALIAN PIPELINE VALVE IS A VALVE SPECIALIST. WE CAN MANUFACTURE IN SHORT DELIVERY TIME. SELLING WORLD WIDE ~

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ASME API Ball Plug Valves R6 - AS