

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.

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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ISO - International organisation for Standardisation

ISO 9001	Quality systems – Model for quality assurance in design/development, production, installation and servicing.
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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

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.

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 599 API 607 API 608

American Society of Mechanical Engineering - ASME

ASME B 16.5 ASME B 16.10 ASME B 16.25
ASME B 16.34 ASME B 31.3 ASME B 31.8
ASME B 46.1

STANDARD MATERIALS

Standard Valve Materials Grades

- A105 N	- AISI 4140	- A 182 F6A	- A 564 630	- A 182 F53
- A350 LF2	- A694 F60	- A 182 F304	- A 182 F44	- A 182 F55
- A350 LF3	- API 6A 60K	- A 182 F316	- A 182 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 API600, API602, API6D, BS1868, API603, API6A 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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APV Applicable Standards R4 - AS