



Galvin Engineering Pty Ltd

PRODUCT APPRAISAL REPORT 1819 Issue 3

Galvin DN 20 Metal Bodied Termination Ball Valves

**AS 4796:2016 Water supply – Metal bodied and plastic -
bodied ball valves for property service connection**

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Peer Reviewers

Name/Title	Organisation	Date
Product Appraisal Technical Advisory Group	WSAA	14 August 2018
WSAA Expert Panel	WSAA	14 August 2018
Peter Pittard, WSAA Consultant	WSAA	17 July 2018
Carl Radford, Product Appraisal Manager	WSAA	16 August 2018
Peter Pittard, WSAA Consultant	WSAA	11 December 2018
Carl Radford, Product Appraisal Manager	WSAA	12 December 2018
Peter Pittard, WSAA Consultant	WSAA	19 December 2024
Carl Radford, Product Appraisal Manager	WSAA	20 December 2024

Overview of WSAA

The Water Services Association of Australia (WSAA) is the peak industry body representing the urban water industry. Our members provide water and sewerage services to over 20 million customers in Australia and New Zealand and many of Australia's largest industrial and commercial enterprises.

Based around our vision of 'customer driven, enriching life', WSAA facilitates collaboration, knowledge sharing, networking and cooperation within the urban water industry. We are proud of the collegiate attitude of our members which has led to industry-wide approaches to national water issues.

WSAA can demonstrate success in the standardisation of industry performance monitoring and benchmarking, as well as many research outcomes of national significance. The WSAA Executive retains strong links with policy makers and legislative bodies and their influencers, to monitor emerging issues of importance to the urban water industry.

WSAA was formed in 1995 as a non-profit organisation to foster the exchange of information between industry, government and the community, and to promote sustainable water resource management.

The urban water industry is committed to anchoring its services to customers' values, and to enrich communities where water services have broad economic, environmental and social values. In line with this our main activities focus on four areas:

1. influencing national and state policies on the provision of urban water services and sustainable water resource management
2. promoting debate on environmentally sustainable development and management of water resources and the community health requirements of public water supplies
3. improving industry performance and establishing benchmarks and industry leading practices for water service processes; and
4. fostering the exchange of information on education, training, research, water and wastewater management and treatment and other matters of common interest.

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1 EXECUTIVE SUMMARY

Galvin Engineering Pty Ltd (Galvin) is a diversified manufacturer and supplier of a wide range of products including taps and valves, drains, general plumbing products, firefighting equipment and civil products.

The valves are manufactured in the Peoples Republic of China (PRC) by Zhejiang Unique Copper Industrial Co Ltd.

This appraisal is for DN 20 metal-bodied termination ball valves for property service applications manufactured in conformance with 4796:2016 *Water supply – Metal bodied and plastic bodied ball valves for property service connection*.

This Issue 3 is a replacement for the previous version of the appraisal which had reached its 5-year expiry date.

The ball valves are rated as PN 16 and are operated using a non-lockable lever handle.

The available end configurations are female thread to PE compression joint and male thread to PE compression joint.

The ball valves are manufactured from a dezincification resistant lead-free copper alloy and incorporate a Grade 316 stainless steel ball.

Ball valves with lilac-coloured handles are also available for non-drinking water applications.

Galvin Engineering Pty Ltd and Zhejiang Unique Copper Industrial Co Ltd both hold ISO 9001:2015 Quality Management System Licences.

The termination ball valves have ISO Type 5 StandardsMark product certification to AS 4796:2016 *Water supply – Metal bodied and plastic bodied ball valves for property service connection*.

This Appraisal has determined that Galvin termination ball valves, as detailed in this report, meet the requirements of WSA PS- 274 *Ball Valves for Pressure Applications – Drinking Water and Non-Drinking Water Supply* and are considered as 'fit-for-purpose'.

1.1 Recommendations

It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise DN 20 metal bodied service connection termination ball valves, as detailed in Section 4 of this report, for use in property service connections in above-ground and below-ground water supply applications, provided they are installed in accordance with WSAA Codes and the manufacturer's requirements, where specified.

2 THE APPLICANT

The applicant is Galvin Engineering Pty Ltd.

2.1 The Supplier

Galvin Engineering Pty Ltd is a diversified manufacturer and supplier of a wide range of products including taps and valves, drains, general plumbing products, firefighting equipment and civil products. Its manufacturing facility is located in Malaga, Western Australia and incorporates a ferrous and non-ferrous foundry with design and machining capability. The Company has been in operation since 1930

2.2 The Manufacturer

Zhejiang Unique Copper Industrial Co Ltd was established in 1992 in Zhejiang, China. Zhejiang is a manufacturing and trading company producing cast and forged copper alloy products including automotive components, sanitaryware and valves and fittings for the plumbing and industrial markets. The site has a plant size of more than 50,000 square metres with approximately 400 employees. The manufacturing site incorporates a foundry, machine shop, assembly and testing operations.

3 THE PRODUCT

This appraisal is for DN 20 metal-bodied termination ball valves for property service applications manufactured in conformance with 4796:2016 *Water supply – Metal bodied and plastic bodied ball valves for property service connection*.

The ball valves are rated as PN 16 and are operated using a non-lockable lever handle.

The available end configurations are female thread to PE compression joint and male thread to PE compression joint. For non-drinking water applications, the valve handles are coated with a lilac-coloured thermal bonded polymeric coating.

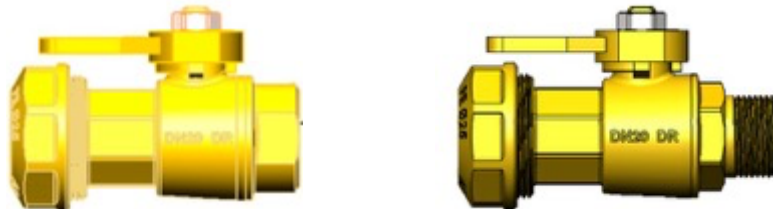


FIGURE 1 TERMINATION BALL VALVES

The PE compression joints are designed and tested to suit DN 25 PN16 polyethylene pipe. The joints are not recommended for PE pipe with lower ratings than PN16.

The ball valves are manufactured from dezincification resistant copper alloy and incorporate a Grade 316 stainless steel ball with a bore diameter of 19 mm.

4 SCOPE OF THE APPRAISAL

The ball valves included in this appraisal are detailed in Table 1.

TABLE 1

SERVICE CONNECTION TERMINATION BALL VALVES

Product Code	DN	End Connections
361515LF	20	Female Thread to 25 PE
361535LF	20	Male Thread to 25 PE
361815LF†	20	Female Thread to 25 PE
361835LF†	20	Male Thread to 25 PE

† Includes lilac-coloured handles for non-drinking water applications

5 APPRAISAL CRITERIA

5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts ball valves manufactured in conformance with AS 4796:2016 *Water supply – Metal bodied and plastic bodied ball valves for property service connection* and duly certified by means of an ISO Type 5 product certification scheme undertaken by a JAS-ANZ accredited Conformity Assessment Body (CAB) or by an international accreditation system recognised by JAS-ANZ.

The manufacturer is generally expected to have a production management and control system that has been duly accredited in accordance with AS/NZS ISO 9001 as a prerequisite to undergoing a product certification audit.

The ISO Type 5 Product Certification Scheme shall meet the criteria described in WSA TN-08.

5.2 Performance Requirements

Galvin ball valves have been appraised for compliance with AS 4796:2016 *Water supply – Metal bodied and plastic bodied ball valves for property service connection*. The following Product Specification is relevant to this application:

WSA PS- 274 *Ball Valves for Pressure Applications – Drinking Water and Non-Drinking Water Supply*.

A copy of the Product Specification is available at the following link:

<https://www.wsaa.asn.au/shop/product/60961>

6 COMPLIANCE WITH APPRAISAL CRITERIA

6.1 Compliance with Quality Assurance Requirements

Galvin has submitted the following quality certificates:

- ISO 9001:2015 Certificate of Registration No. QEC0133 issued to Galvin Engineering Pty Ltd by SAI Global.
- ISO 9001:2015 Certificate of Registration No. U006624Q0134R8M issued to Zhejiang Unique Copper Industrial Co Ltd by China Certification Centre Inc.
- AS 4796:2016 ISO Type 5 StandardsMark Product Certification Licence No. SMK26280 issued to Galvin Engineering Pty Ltd by SAI Global.

Copies of the Quality Assurance and Product Certification licences have been included in Appendix B and are also available from WSAA.

6.2 Compliance with Performance Requirements

6.2.1 Type testing

Galvin has provided type test results for a DN 20 termination ball valve to demonstrate compliance to the performance requirements of AS 4796. Queensland Testing Laboratory Pty Ltd (NATA Accredited Laboratory No. 14783) conducted the tests.

The tests successfully completed for PN16 rated valves were: flow capability, watertightness, strength, torque test for connector nuts, torque test for valve operation.

Type test results conducted by QTL have also been submitted to demonstrate compliance of the DN 25 PE compatible compression joints to AS/NZS 4129. Tests successfully conducted were: hydrostatic pressure, infiltration, pull-out and leak-tightness when subjected to bending.

Galvin has advised that the ball valves are subjected to 100% pressure testing at 2.4 MPa after assembly.

6.2.2 End connections

The Galvin ball valves are offered with end connections including female thread, male thread and PE compatible compression joint.

- Female Thread

These threads are parallel complying with AS ISO 7.1 Series Rp.

- **Male Thread**

These threads are tapered complying with AS ISO 7.1 Series R.

- **PE Compatible Mechanical Compression**

These joints comply with AS/NZS 4129 *Fittings for polyethylene (PE) pipes* and have been type tested by QTL. Galvin advises that the joint design is suitable for PN 16 PE 100 pipe to AS/NZS 4130.

6.2.3 Suitability for contact with drinking water

Galvin has submitted a Test Report from Australian Water Quality Centre (NATA Accreditation No 1115) dated 10th November 2023 for a DN 20 ball valve to demonstrate compliance with AS/NZS 4020:2018 *Testing of products for use in contact with drinking water*, using a scaling factor of 0.01.

6.2.4 Components material list

The material specifications for the components used for Galvin metal bodied ball valves are given in Table 2. Material test reports have been submitted to demonstrate compliance.

Copper alloy components are manufactured from a lead-free alloy, EN 12164 Grade CW511L, equivalent to C27453. A copy of a dezincification test report to AS 2345 has also been submitted

TABLE 2
BALL VALVE COMPONENTS MATERIAL LIST

Component	Material	Standard	Grade
Body	Copper Alloy	EN 12164 / AS/NZS 1567	CuZn38As (CW511L) / C27453
Washers	PTFE	-	-
Ball	Stainless Steel	ASTM A276	316
Spindle	Copper Alloy	EN 12164 / AS/NZS 1567	CuZn38As (CW511L) / C27453
Handle	Copper Alloy	EN 12164 / AS/NZS 1567	CuZn38As (CW511L) / C27453
Retaining Ring	Plastic	-	POM
O-Rings	NBR / EPDM	ASTM D2000	IRHD 70
Compression Nut	Copper Alloy	EN 12164	CuZn36Pb2As (CW602N)

7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

Ball valves are standard water industry products. An assembly guide is provided in Appendix A.

8 PRODUCT MARKING

The Galvin ball valves have the following minimum markings in compliance with AS 4796:

- Manufacturer's name or trademark – Galvin Engineering logo
- Nominal size: e.g., DN 20 DR
- Pressure classification: PN16
- StandardsMark No: SMK26280
- The number of this standard: AS 4796
- Batch marking:

9 PACKAGING AND TRANSPORTATION

Ball valves are fitted with end caps on both ends, packed in individual plastic bags and then packed into cardboard cartons for handling and delivery. The cartons are labelled with the following details:

- Contents (item number and description)
- Number of valves
- Batch number
- Total weight
- Galvin Engineering logo
- 25mm PE connection complies with AS/NZS 2129

10 PRODUCT WARRANTY

The products are covered by the normal commercial and legal requirements of the *Competition and Consumer Act 2010 (Cth)*, which covers manufacture to the relevant standard, and details of Galvin Engineering's warranty is included in their terms and conditions of sale.

11 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD-TESTING REPORT

Ball valves are considered standard products. Field testing was not required as part of this Appraisal.

12 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW

No issues have been raised.

13 FUTURE WORKS

There are no future works requirements.

14 DISCLAIMER

This Product Appraisal Report (Report) is issued by the Water Services Association of Australia Limited on the understanding that:

This Report applies to the product(s) as submitted. Any changes to the product(s) either minor or major shall void this Report.

To maintain the recommendations of this Report any such changes shall be detailed and notified to the Product Appraisal Manager for consideration and review of the Report and appropriate action. Appraisals and their recommendations will be the subject of continuous review dependent upon the satisfactory performance of products.

WSAA reserves the right to undertake random audits of product manufacture and installation. Where products fail to maintain appraised performance requirements the appraisal and its recommendations may be modified and reissued. Appraisal reports will be reviewed and reissued at regular intervals not exceeding five (5) years.

The following information explains a number of very important limits on your ability to rely on the information in this Report. Please read it carefully and take it into account when considering the contents of this Report.

Any enquiries regarding this report should be directed to the Program Manager, Carl Radford, email carl.radford@wsaa.asn.au.

14.1 Issue of Report

This Report has been published and/or prepared by the Water Services Association of Australia Limited and nominated Project Manager and peer group of technical specialists (the Publishers).

The Report has been prepared for use within Australia only by technical specialists that have expertise in the function of products such as those appraised in the Report (the Recipients).

By accepting this Report, the Recipient acknowledges and represents to the Publisher(s) and each person involved in the preparation of the Report that the Recipient has understood and accepted the terms of this Disclaimer.

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The information and any recommendation contained (expressly or by implication) in this Report are provided in good faith (and subject to the limitations noted in this Report). However, you should treat the information as indicative only. You should not rely on that information or any such recommendation except to the extent that you reach an agreement to the contrary with the Publisher(s).

This Report does not contain all information that a person might require for the purposes of assessing any product discussed or appraised within it (Product). The product appraisal criteria used in preparing this Report may not address all relevant aspects of the Product.

Recipients should seek independent evidence of any matter which is material to their decisions in connection with an assessment of the Product and consult their own advisers for any technical information required. Any decision to use the Product should take into account the reliability of that independent evidence obtained by the Recipient regarding the Product.

Recipients should also independently verify and assess the appropriateness of any recommendation in the Report, especially given that any recommendation will not take into account a Recipient's particular needs or circumstances.

WSAA has not evaluated the extent of the product liability and professional indemnify insurance that the provider of the product maintains. Recipients should ensure that they evaluate the allocation of liability for product defects and any professional advice obtained in relation to the product or its specification including the requirements for product liability and professional indemnity insurance.

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Neither the Publisher(s) nor any person involved in the preparation of this Report [has] [have] any obligation to notify you of any change in the information contained in this Report or of any new information concerning the Publisher(s) or the Product or any other matter.

14.4 No Warranty

The Publisher(s) do[es] not, in any way, warrant that steps have been taken to verify or audit the accuracy or completeness of the information in this Report, or the accuracy, completeness or reasonableness of any recommendation in this Report.

APPENDIX A – PRODUCT LITERATURE



Product Installation Guidelines

Document No: 001.50.50.00
Version 1, 29 August 2023, Page 1 of 3

Galvin DN20 Lead Safe Ball Valve x 25PE Property Valve (Female)



PRODUCTS	
Item Code	Description
361515LF	BS Lead Safe Property Ball Valve 20mm Female x 25PE
361815LF	BS Lead Safe Property Ball Valve 20mm Female x 25PE (Lilac)

SPECIFICATIONS	
<ul style="list-style-type: none"> - Manufactured using DZR Brass - WaterMarked to AS4796 Lic WMK26280 - Full bore - Must be installed according to associated instructions. - Lead Safe™ brass construction. * 	
IMPORTANT: All items are tested in accordance with AS 4796 and leave our premises in good working order	
<small>*As 'lead free' is not currently defined by law in Australia and New Zealand, we have based our definition of Lead Safe™ on the requirements of Sec. 1417 of the USA's Safe Drinking Water Act (SDWA) and the relevant US standards NSF61 / NSF372. The SDWA defines 'lead free' as 'not more than a weighted average of 0.25% lead when used with respect to the wetted surface of pipes, pipe fittings, plumbing fittings and fixtures'.</small>	
WARNINGS: Special attentions to be paid on notes, photos, images, or drawings of assembly steps marked with the warning symbol.	

TECHNICAL DATA		
Inlet		25PE - Female
Outlet		RP ¼" - Female
Headwork		N/A
Working Pressure Range (kPa)	Max	1600
	Min	-20
Working Temperature Range (°C)	Max	60
	Min	
Construction		Brass
PE Pipe	Min	PN16
NOTE: For use with PE pipe PN16 or above. Use of thinner PE pipe could result in leaks. Galvin Engineering continually strive to improve their products. Specifications may change without notice.		

TOOLS REQUIRED	
<ul style="list-style-type: none"> - Saw - Deburring Tool - Spanner or Wrench 	

Product Installation Guidelines

Document No: 001.50.50.01
Version 1, 29 August 2023, Page 1 of 3

Galvin DN20 Lead Safe Ball Valve x 25PE Property Valve (Male)

PRODUCT CODES:



PRODUCTS

Item Code	Description
361535LF	BS Lead Safe Property Ball Valve 20mm Male x 25PE
361835LF	BS Lead Safe Property Ball Valve 20mm Male x 25PE (Lilac)

SPECIFICATIONS

- Manufactured using DZR Brass
- WaterMarked to AS4796 Lic WMK26280
- Full bore
- Must be installed according to associated instructions.
- Lead Safe™ brass construction. *

IMPORTANT: All items are tested in accordance with AS 4796 and leave our premises in good working order

*As 'lead free' is not currently defined by law in Australia and New Zealand, we have based our definition of Lead Safe™ on the requirements of Sec. 1417 of the USA's Safe Drinking Water Act (SDWA) and the relevant US standards NSF61 / NSF372. The SDWA defines 'lead free' as 'not more than a weighted average of 0.25% lead when used with respect to the wetted surface of pipes, pipe fittings, plumbing fittings and fixtures'.

WARNINGS: Special attentions to be paid on notes, photos, images, or drawings of assembly steps marked with the warning symbol.



TECHNICAL DATA

Inlet	25PE - Female	
Outlet	RP 1/4" - Male	
Headwork	N/A	
Working Pressure Range (kPa)	Max	1600
	Min	-20
Working Temperature Range (°C)	Max	60
	Min	PN16
Construction	Brass	
PE Pipe	Min	PN16

NOTE: For use with PE pipe PN16 or above. Use of thinner PE pipe could result in leaks.
Galvin Engineering continually strive to improve their products. Specifications may change without notice.

TOOLS REQUIRED

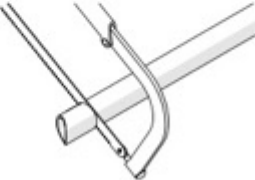


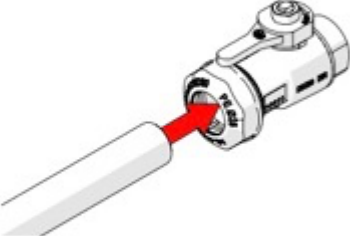
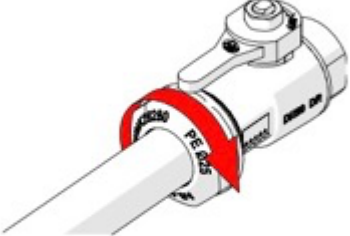
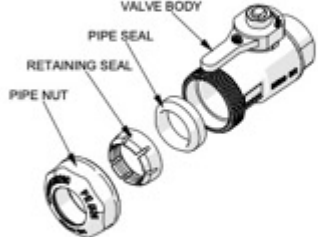
- Saw
- Deburring Tool
- Spanner or Wrench

Product Installation Guidelines

Document No: 001.50.50.01
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PIPE PREPARATION

INSTALLATION COMPLIANCE: Galvin Engineering products must be installed in accordance with these installation instructions and in accordance with AS/NZS 3500, the PCA and your local regulatory requirements. Water and/or electrical supply conditions must also comply to the applicable national and/or state standards. Failing to comply with these provisions shall void the product warranty and may affect the performance of the product.

 <p>1. Inspect PE Pipe has Square Ends</p> <ul style="list-style-type: none"> Ensure pipe to be fitted has square ends, if end is not squared then re-cut. 	 <p>2. Deburr Edges</p> <ul style="list-style-type: none"> The inside and outside of the end of the pipe should be free from any burrs or sharp edges that could damage the seal. Clean outside of PE pipe any debris can damage the seal or PE pipe. 	 <p>3. Loosen Nut</p> <ul style="list-style-type: none"> Ensure the locking nut is loose on the valve.
 <p>4. Push the Pipe into Valve</p> <ul style="list-style-type: none"> Push the Pipe fully into valve until it contacts the pipe stop (approximately 40mm from the front of the nut) 	 <p>5. Fasten the nut</p> <ul style="list-style-type: none"> Fasten the nut by hand and then using a spanner or wrench tighten further ½ to 1 turn. Do not over tighten as this could damage the valve or PE pipe. 	 <p>Exploded View</p>

APPENDIX B - QUALITY CERTIFICATIONS

Copies of the following Quality certificates are available from WSAA.

**TABLE B1
GALVIN ENGINEERING PTY LTD – MANAGEMENT SYSTEMS**

410 Victoria Road Malaga WA 6090	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	QEC0133
Certifying Agency	SAI Global
First Date of Certification	24 January 1991
Current Date of Certification	30 March 2022
Expiry Date of Certification	16 May 2025

**TABLE B2
ZHEJIANG UNIQUE COPPER INDUSTRIAL CO LTD – MANAGEMENT SYSTEMS**

Qinggang Industrial Zone, Yuhuan County, Zhejiang, China	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	U006624Q0134R8M
Certifying Agency	China Certification Centre Inc
First Date of Certification	24 April 2024
Current Date of Certification	24 April 2027

**TABLE B3
GALVIN ENGINEERING PTY LTD – PRODUCT CERTIFICATION**

410 Victoria Road Malaga WA 6090	
Product Standard/Spec.	AS 4796:2016
Certificate No.	SMK26280
Issuing Certification Body	SAI Global
First Date of Certification	23 November 2018
Current Date of Certification	13 February 2024
Expiry Date of Certification	22 November 2028



CERTIFICATE OF REGISTRATION

This is to certify that:

Galvin Engineering Pty Ltd

ABN 78 008 719 382

410 Victoria Road Malaga WA 6090 AUSTRALIA

operates a

QUALITY MANAGEMENT SYSTEM

which complies with the requirements of

ISO 9001:2015

for the following scope

The design, procurement, manufacture, assembly and testing of plumbing fittings and fire-fighting equipment for commercial and industrial applications. The manufacture and procurement of ferrous and non-ferrous castings and machining services – including NC automatic and conventional machinery; fabrication – assembly, welding, soldering and testing.

Certificate No: QEC0133

Issued: 30 March 2022

Originally Certified: 24 January 1991

Expires: 16 May 2025

Current Certification: 30 March 2022

Calin Moldovean
President, Business Assurance
SAI Global Assurance



WWW.IAS-ANZ.ORG/REGISTER

Registered by:
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QUALITY MANAGEMENT SYSTEM CERTIFICATE

Registration No. U006624Q0134R8M

Zhejiang Unique Copper Industrial Co., Ltd.

social credit code : 91331021148383300F
 Registration/Office/Production Address:Qinggang Industrial Zone, Yuhuan Science & Technology Industrial Park, Yuhuan City, Zhejiang

is in conformity with

ISO 9001:2015


This certificate is valid for the following scope:

The production of plumbing, conduit saddle

This certificate is valid to April 24, 2027

The applicability of the standard are detailed in the organization's Quality Manual.
 The scope which needs administrative permission shall be in accordance with valid license.
 In the case that the organization regularly receives surveillance assessments, the certificate shall be valid when used together with the Notice for Maintenance of Use of Certificates and Logos.
 Information about the certificate can be queried on the official website of CNCA (www.cnca.gov.cn)

China Certification Center, Inc.
 At: Taiji Commercial Building, No.211 Beisihuan Zhonglu,
 Haidian District, Beijing, P.R. China
<http://www.ccci.com.cn>

General Manager: 
 Date of Issue: April 24, 2024





STANDARDSMARK LICENCE

SAI Global hereby grants

Galvin Engineering Pty Ltd

ABN 78 008 719 382

410 Victoria Road, Malaga, WA 6090, Australia

StandardsMark Licence

Manufactured to: **AS 4796-2016 - Water supply - Metal bodied and plastic bodied ball valves for property service connection**

"the StandardsMark Licensee" the right to use the STANDARDSMARK as shown below only in respect of the goods described and detailed in the Schedule which are produced by the Licensee or on behalf of the Licensee* and which comply with the appropriate Standard referred to above as from time to time amended. The Licence is granted subject to the rules governing the use of the STANDARDSMARK and the Terms and Conditions for certification and licence. The Licensee covenants to comply with all the Rules and Terms and Conditions.

Certificate No:SMK26280

Issued: 13 February 2024
Expires: 22 November 2028

Originally Certified: 23 November 2018
Current Certification: 12 February 2024

Calin Moldovean
President, Business Assurance
SAI Global Assurance



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*** For details of manufacture, refer to the licensee**

The STANDARDSMARK is a registered certification trademark of SAI Global Pty Limited (A.C.N. 050 644 642) and is issued under licence by SAI Global Certification Services Pty Limited (ACN 108 716 669) ("SAI Global") Level 7 Suite 7.01, 45 Clarence Street, Sydney NSW 2000 Australia. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. Refer to www.saiglobal.com, for the list of product models.



SCHEDULE TO STANDARDSMARK LICENCE

SAI Global hereby grants

Galvin Engineering Pty Ltd

410 Victoria Road, Malaga, WA 6090, Australia

StandardsMark Licence

Manufactured to: **AS 4796-2016 - Water supply - Metal bodied and plastic bodied ball valves for property service connection**

Model identification of the goods on which the STANDARDSMARK may be used:

Model Identification	Model Name	Brand Name	Product Description	Product Type	Nominal Size	Operating Mechanism	Inlet Designation	Outlet Designation	Material Designation	Date Endorsed
361515	BS Watermark ball valve 20mm female x 25PE	Galvin Engineering	BS Watermark ball valve 20mm female x 25PE	Ball Valve	DN20	ST/ST Ball	Rp3/4" BSP	25mm PE (Complies to AS/NZS 4129)	DR Brass	21 Nov 2018
361515LF	BS LEAD SAFE PROPERTY BALL VALVE 20MM FEMALE X 25PE	Galvin Engineering	BS LEAD SAFE PROPERTY BALL VALVE 20MM FEMALE X 25PE	BALL VALVE	DN20	ST/ST Ball	Rp3/4" BSP	25mm PE (Complies to AS/NZS 4129)	LF Brass	9 Feb 2024
361535	BS Watermark ball valve 20mm male x 25PE	Galvin Engineering	BS Watermark ball valve 20mm male x 25PE	Ball Valve	DN20	ST/ST Ball	Rp3/4" BSP	25mm PE (Complies to AS/NZS 4129)	DR Brass	21 Nov 2018
361535LF	BS LEAD SAFE PROPERTY BALL VALVE 20mm MALE x 25PE	Galvin Engineering	BS LEAD SAFE PROPERTY BALL VALVE 20mm MALE x 25PE	BALL VALVE	DN20	ST/ST Ball	Rp3/4" BSP	25mm PE (Complies to AS/NZS 4129)	LF Brass	9 Feb 2024
361815	BS Watermark ball valve 20mm female x 25PE (Lilac)	Galvin Engineering	BS Watermark ball valve 20mm female x 25PE (Lilac)	Ball Valve	DN20	ST/ST Ball	Rp3/4" BSP	25mm PE (Complies to AS/NZS 4129)	DR Brass	21 Nov 2018
361815LF	BS LEAD SAFE PROPERTY BALL VALVE 20MM FEMALE X 25PE (LILAC)	Galvin Engineering	BS LEAD SAFE PROPERTY BALL VALVE 20MM FEMALE X 25PE (LILAC)	BALL VALVE	DN20	ST/ST Ball	Rp3/4" BSP	25mm PE (Complies to AS/NZS 4129)	LF Brass	9 Feb 2024
361835	BS Watermark ball valve 20mm male x 25PE (Lilac)	Galvin Engineering	BS Watermark ball valve 20mm male x 25PE (Lilac)	Ball Valve	DN20	ST/ST Ball	Rp3/4" BSP	25mm PE (Complies to AS/NZS 4129)	DR Brass	21 Nov 2018

Certificate No: SMK26280

Issued Date: 13 February 2024

This schedule supersedes all previously issued schedules

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SCHEDULE TO STANDARDSMARK LICENCE

Model Identification	Model Name	Brand Name	Product Description	Product Type	Nominal Size	Operating Mechanism	Inlet Designation	Outlet Designation	Material Designation	Date Endorsed
361835LF	BS LEAD SAFE PROPERTY BALL VALVE 20MM MALE X 25PE (LILAC)	Galvin Engineering	BS LEAD SAFE PROPERTY BALL VALVE 20MM MALE X 25PE (LILAC)	BALL VALVE	DN20	ST/ST Ball	Rp3/4" BSP	25mm PE (Complies to AS/NZS 4129)	LF Brass	9 Feb 2024

End of Record

Certificate No: SMK26280

Issued Date: 13 February 2024

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APPENDIX C - SUPPLIER CONTACTS

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