



# Betta Fluid Control Co Ltd

## PRODUCT APPRAISAL REPORT PA 1817 Issue 3

BETTA Hydrant and Air Valve Isolator Valves

**NZS 4522:2010 Underground fire hydrants**

Issue 1 Published: 17 July 2018

Issue 2 Published: 21 November 2019

Issue 3 Published: 11 July 2020

## Document History

The following information indicates the changes made to this document.

Date	Version
4 June 2018	Issue 1 Client Review
29 June 2018	Issue 1 Peer Review
17 July 2018	Issue 1 Published
20 November 2019	Issue 2 Client Review
21 November 2019	Issue 2 Published
10 July 2020	Issue 3 Client Review
11 July 2020	Issue 3 Published

## Peer Reviewers

Name/Title	Organisation	Date
Product Appraisal Technical Advisory Group	WSAA	29 June 2018
WSAA Expert Panel	WSAA	29 June 2018
Peter Pittard, WSAA Consultant	WSAA	30 May 2018
Carl Radford, Product Appraisal Manager	WSAA	17 July 2018
Peter Pittard, WSAA Consultant	WSAA	12 November 2019
Carl Radford, Product Appraisal Manager	WSAA	21 November
Peter Pittard, WSAA Consultant	WSAA	9 July 2020
Carl Radford, Product Appraisal Manager	WSAA	11 July 2020

## 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.

## Copyright

This document is copyrighted. Apart from any use as permitted under the Copyright Act 1968, no part of this document may be reproduced or transmitted in any form or by any means, electronically or mechanical, for any purpose, without the express written permission of Water Services Association of Australia Limited.

© Copyright 2020 by WATER SERVICES ASSOCIATION of Australia Limited **All rights reserved.**

## CONTENTS

1 EXECUTIVE SUMMARY .....	5
1.1 Recommendations.....	5
2 THE APPLICANT .....	5
2.1 The Supplier .....	5
2.2 The Manufacturer .....	5
3 THE PRODUCT .....	6
4 SCOPE OF THE APPRAISAL .....	6
5 APPRAISAL CRITERIA .....	6
5.1 Quality Assurance Requirements .....	6
5.2 Performance Requirements.....	7
6 COMPLIANCE WITH APPRAISAL CRITERIA.....	7
6.1 Compliance with Quality Assurance Requirements .....	7
6.2 Compliance with Performance Requirements .....	7
6.2.1 Components material list.....	7
6.2.2 Flanges .....	8
6.2.3 Polymeric thermal bonded coatings .....	8
6.2.4 Type tests .....	8
6.2.5 Contact with drinking water .....	8
7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION .....	9
8 PRODUCT MARKING.....	9
9 PACKAGING AND TRANSPORTATION .....	9
10 PRODUCT WARRANTY .....	9
11 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD TESTING REPORT .....	9
12 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW.....	9
13 FUTURE WORKS.....	9
14 DISCLAIMER .....	10
14.1 Issue of Report .....	10
14.2 Limits on Reliance on Information and Recommendations.....	10
14.2.1 Disclaimer of liability .....	10
14.2.2 Intellectual Property and other rights .....	10
14.2.3 Need for independent assessment .....	11
14.3 No Updating.....	11
14.4 No Warranty .....	11
APPENDIX A PRODUCT LITERATURE.....	12
APPENDIX B - QUALITY CERTIFICATIONS .....	13
APPENDIX C – WSA PRODUCT SPECIFICATION .....	<b>Error! Bookmark not defined.</b>
APPENDIX D – SUPPLIER CONTACTS .....	17

## 1 EXECUTIVE SUMMARY

Betta Fluid Control Co Ltd is a privately-owned joint venture, originally incorporated in 2007 as Betta Fluid Machinery Manufacturing Co Ltd, with four Chinese and two Australian partners. Appointed stocking agents distribute the Betta range of products within Australia.

Betta in Wuxi, Jiangsu Province, Peoples Republic of China, manufactures the BETTA Hydrant and Air Valve Isolator Valves to NZS 4522:2010 *Underground fire hydrants*.

This Issue 3 is to include an additional outlet option for a yoke.

Issue 2 was to change the Report Holder name from Betta Fluid Machinery Manufacturing Co. Ltd to Betta Fluid Control Co Ltd and update the quality certification documentation. There has been no change to the manufacturing processes.

This appraisal is for BETTA resilient seated PN 16 Hydrant and Air Valve Isolator Valves. The function of the isolator valves is to provide screw down isolation for outlet devices including a spring hydrant valve, air valve, threaded outlet or a yoke. Squat and tall versions are available.

The isolator valves are manufactured from polymeric coated ductile iron with a flanged inlet incorporating slotted holes to accommodate both DN 80 and DN 100 PN16 flange connections to AS/NZS 4087 Figure B5. The outlet is supplied with stud bolts compatible with either a DN 80 or DN 100 PN 16 Figure B5 flange connection to accommodate a spring hydrant valve, air valve or screwed outlet. There is also a version with a yoke cast in to the body.

BETTA hydrant and air valve isolator valves have ISO Type 5 product certification to NZS 4522:2010 *Underground fire hydrants*.

Betta has a certified Quality Management System in compliance with ISO 9001:2015.

The BETTA hydrant and air valve isolator valves included in this appraisal report have been deemed to comply with the requirements of WSA PS 282 – *Hydrant and Air Valve Isolator Valves – Water Supply* and are therefore considered ‘fit-for-purpose’.

### 1.1 Recommendations

It is recommended that WSAA members and associates, accept/authorise the BETTA Hydrant and Air Valve Isolator Valves, as described in Section 4, for use in water supply pressure pipelines provided they are installed in accordance with applicable WSAA codes and manufacturers requirements, where specified.

## 2 THE APPLICANT

### 2.1 The Supplier

Betta Fluid Control Co Ltd does not hold stocks of BETTA products in Australia. Appointed stocking agents purchase the products directly from the Betta factory in Wuxi and distribute the range of products within Australia. Contact numbers for the stocking agents are listed in Appendix D.

### 2.2 The Manufacturer

Betta Fluid Control Co Ltd is located at Beigongwu Road, Yuqi Industry Park, Huishan District, Wuxi, Jiangsu Province, China.

Betta Fluid Control Co Ltd is a privately-owned joint venture, originally incorporated in 2007 as Betta Fluid Machinery Manufacturing Co Ltd with four Chinese and two Australian partners. Betta currently employs 45 people that include qualified technical engineers, design engineers and mechanical engineers. Betta occupies 3000 square metres of factory with the possibility of adding another 2000 square metres for future expansion.

Betta's current annual capacity is 150,000 units with the possibility to expand, as their product range increases. Betta currently manufactures spring hydrants, fire hydrants, swing check valves, resilient seated gate valves and air release valves.

Betta sources its components locally from ISO 9001 certified suppliers.

The components are inspected and tested for compliance to Betta drawings and specifications in accordance with their quality procedures.

Material certification is documented and receipted with each shipment received from the suppliers.

### 3 THE PRODUCT

This Appraisal is for BETTA hydrant and air valve isolator valves. The isolator valves are manufactured to NZS 4522:2010 *Underground fire hydrants*.

The function of the isolator valves is to provide a screw down isolation for outlet devices including a spring hydrant valve, air valve, threaded outlet and a yoke. Squat and tall versions are available.

The isolator valves are manufactured from polymeric coated ductile iron with a flanged inlet incorporating slotted holes to accommodate both DN 80 and DN 100 PN16 flange connections to AS/NZS 4087 Figure B5. The outlet is supplied with stud bolts compatible with either a DN 80 or DN 100 PN 16 Figure B5 flange connection to accommodate a spring hydrant valve, air valve or screwed outlet. There is also a version with a yoke cast in to the body.

The isolator valves are rated as PN 16 and are available with either clockwise or anti-clockwise closure directions. A stem cap is fitted complying with AS/NZS 2638.2 *Gate valves for waterworks applications-Part 2: Resilient seated* for key operation.

Flanges comply with Figure B5 of AS/NZS 4087 *Metallic flanges for waterworks purposes*.

Polymeric coatings comply with AS/NZS 4158 *Thermal bonded polymeric coating on valves and fittings for water industry purposes*.



**FIGURE 1 HYDRANT AND AIR VALVE ISOLATOR VALVE**

### 4 SCOPE OF THE APPRAISAL

The scope of this appraisal covers squat or tall PN 16 hydrant and air valve isolator valves with DN 80 / DN 100 flanged inlet and a studded outlet for compatibility with DN 80 or DN 100 flanges. There is also a version with a yoke cast in to the body. Betta offers a PN 35 variant of this product that has not been considered in the scope of this Appraisal.

### 5 APPRAISAL CRITERIA

#### 5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts hydrant and air valve isolator valves manufactured in compliance with NZS 4522:2010 *Underground fire hydrants* 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

BETTA Hydrant and Air Valve Isolators have been appraised for compliance with NZS 4522:2010 *Underground fire hydrants*.

Appraisal criteria are also determined by the WSAA Product Appraisal Technical Advisory Group and regularly reviewed to ensure that the criteria reflect the requirements of WSAA members.

The following Product Specification is also relevant to this application:

WSA PS-282 –*Hydrant and Air Valve Isolator Valves – Water Supply*

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

<https://www.wsaa.asn.au/shop/product/35716>

## 6 COMPLIANCE WITH APPRAISAL CRITERIA

### 6.1 Compliance with Quality Assurance Requirements

Betta has submitted the following quality certificates:

- ISO 9001:2015 Certificate of Registration No. 12 100 38509 TMS issued to Wuxi Betta Fluid Control Co Ltd by TÜV SÜD Management Service GmbH.
- NZS 4522:2010 ISO Type 5 product certification licence No.30048 issued to Betta Fluid Control Co Ltd by Australian Certification Services Pty Ltd.

Betta has also submitted copies of relevant ISO 9001 Quality Assurance licenses appropriate to their component suppliers. These certifications have not been included in this report due to “commercial in confidence” reasons.

Copies of the Quality Assurance and Product Certification licence have been included in Appendix B and are also available for downloading from the WSAA members’ website.

### 6.2 Compliance with Performance Requirements

#### 6.2.1 Components material list

BETTA valve component materials are detailed in Table 1. Betta has submitted copies of typical material test reports to demonstrate conformance with the minimum requirements of NZS 4522.

**TABLE 1**

**BETTA HYDRANT AND AIR VALVE ISOLATOR COMPONENT MATERIALS**

Item	Material	Standard	Grade
Body	Ductile Iron	AS 1831	GJS/500-7
Bonnet	Ductile Iron	AS 1831	GJS/500-7
Spindle Seal Retainer	Copper Alloy	AS 1568	C48600
Seal Retainer Housing	Stainless Steel	ASTM A251	316
Stopper Core	Cast Carbon Steel <sup>1</sup>	ASTM A216	WCB

Stopper Encapsulation	Synthetic Rubber	AS 1646	EPDM
Stem Nut	Copper Alloy	AS 1568	C48600
Spindle Stem	Stainless Steel	ASTM A276	431
Spindle Cap	Ductile Iron	AS 1831	GJS/500-7
Fasteners	Stainless Steel	ASTM A276	316
Sealing O-rings	Synthetic Rubber	AS 1646	65-75 IRHD NBR
Threaded outlet	Stainless Steel	ASTM A251	316

Note 1: The cast steel stopper core is fully encapsulated in EPDM and is therefore deemed acceptable.

### 6.2.2 Flanges

The inlet flange complies with the dimensions of AS/NZS 4087 Figure B5 except that it incorporates slotted holes to accommodate both DN 80 and DN 100 flange compatibility.

The outlet is supplied with stud bolts compatible with either a DN 80 or DN 100 PN 16 Figure B5 flange connection to accommodate a spring hydrant valve, air valve or screwed outlet. There is also a version with a yoke cast in to the body.

Recommended installation is in accordance with the requirements of AS/NZS 4087.

Note: WSAA recommend flanged joints to be assembled in accordance with Drawing Number WAT-1313 included in the Water Supply Code of Australia – WSA 03 (as amended) and that gasket materials comply with industry standard WSA-109.

### 6.2.3 Polymeric thermal bonded coatings

AS/NZS 2638.2 requires thermal bonded polymeric coating to comply with AS/NZS 4158 - *Thermal-bonded polymeric coatings on valves and fittings for water industry purposes*.

BETTA hydrant and air valve isolators ductile iron components are coated at their Wuxi factory using Jotaguard VA 5001 fusion bonded epoxy powder coloured blue (internally and externally).

Jotaguard VA 5001 has AS/NZS 4158:2003 *Thermal-bonded polymeric coatings on valves and fittings for water industry purposes* product certification, StandardsMark Licence No. SMKP20551, issued by SAI Global.

Jotaguard VA 5001 FBE is applied using the fluidised bed process and testing is carried out in accordance with the requirements of AS/NZS 4158. Australian Certification Services audits application procedures and testing in conjunction with regular ISO Type 5 certification audits.

### 6.2.4 Type tests

Betta has submitted copies of Type Test reports for the hydrant and air valve isolator valve to demonstrate compliance with the performance requirements of NZS 4522.

Plumbing Testing Laboratory (NATA Accreditation No.19549) in Malaga WA carried out the testing.

The report includes tests for minimum required strength of components, body pressure test, maximum closing and operating torques, spindle seal replacement, minimum flow and maximum head loss.

### 6.2.5 Contact with drinking water

Betta has submitted a test report dated December 30 2015 to demonstrate that the isolator valves comply with AS/NZS 4020: 2005 – *Product for use in contact with drinking water*. Tests were completed by Beijing Building Materials Testing Academy Co., Ltd. which is registered by China National Accreditation Service for Conformity Assessment (CNAS), Registration Number L1449.



## 7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

Installation, operation and maintenance are well understood by experienced installers and operators.

## 8 PRODUCT MARKING

The valves have the following markings conforming to NZS 4522:

- (a) Name of Manufacturer: BETTA
- (b) Nominal size: DN 80/100
- (c) Year of manufacture: XXXX
- (d) Pressure rating: PN 16
- (e) Standard No: NZS 4522
- (f) Product Certification Mark: OceanaMark

See Figure 1 for an example of marking details.



FIGURE 1 MARKING DETAILS

## 9 PACKAGING AND TRANSPORTATION

Products are bubble wrapped, placed in individual cardboard cartons and packed in pallet sized 5 ply wooden boxes.

## 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 Betta's warranty is included in their terms and conditions of sale.

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

It is considered that nothing new would be learned from a field test report.

## 12 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW

There are no outstanding requests.

## 13 FUTURE WORKS

There are no future works identified.

## **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, Phone: 03 8605 7601 email [carl.radford@wsaa.asn.au](mailto: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.

### **14.2 Limits on Reliance on Information and Recommendations**

#### **14.2.1 Disclaimer of liability**

Neither the Publisher(s) nor any person involved in the preparation of the Report accept(s) any liability for any loss or damage suffered by any person however caused (including negligence or the omission by any person to do anything) relating in any way to the Report or the product appraisal criteria underlying it. This includes (without limitation) any liability for any recommendation or information in the Report or any errors or omissions.

#### **14.2.2 Intellectual Property and other rights**

The Water Services Association of Australia Limited does not undertake any assessment of whether the importation, manufacture, sale or use of the Product the subject of this Report infringes the intellectual property rights or proprietary rights of any person. Recipients of the report should undertake their own assessment of whether (as relevant) the importation, manufacture, sale or use of the relevant Products infringe the intellectual property rights or other proprietary rights of any person. If the Product infringes intellectual property rights or other proprietary rights there is potential for the supply of the Products to be interrupted.

From time to time the Water Services Association of Australia Limited and the other Publishers may receive notice of allegations that the importation, manufacture, sale or use of the Product infringes intellectual property rights or other proprietary rights. The Water Services Association of Australia Limited's policy is to not refer to such allegations in its

reports or take any other steps to put Recipients on notice of such allegations, unless and until it is aware that the allegations have been admitted or proved in Court. As such, Recipients acknowledge, agree and accept that the Water Services Association of Australia Limited may have information in its possession about intellectual property rights infringement allegations or other infringement allegations in relation to the Product which are not referred to or disclosed in this Report and which are not otherwise communicated to Recipients.

#### **14.2.3 Need for independent assessment**

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 indemnity 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.

#### **14.3 No Updating**

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**

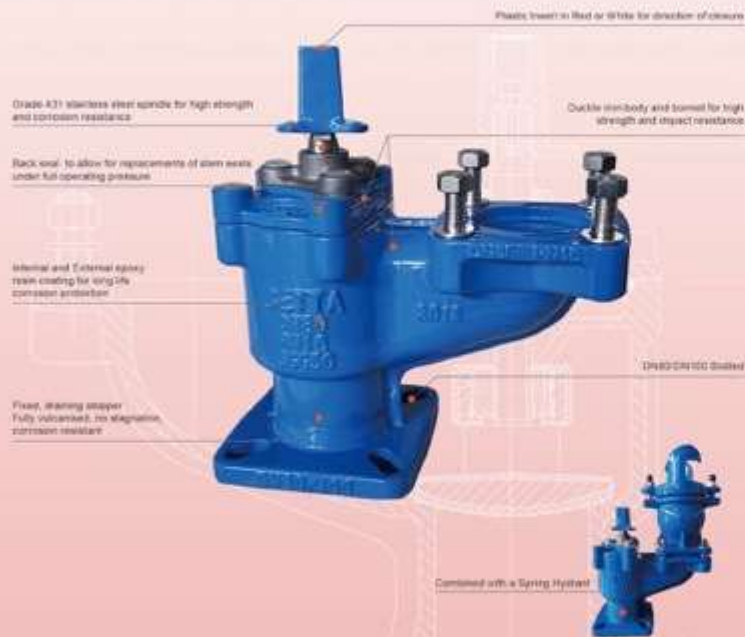
The Publisher(s) do[es] not, in any way, warrant that steps have been taken to verify or audit the accuracy or completeness of the information in this Report, or the accuracy, completeness or reasonableness of any recommendation in this Report.



Betta Water  
Betta for Life

# SCREW-DOWN TYPE ISOLATION VALVE

ISOLATION VALVE PN16/35  
BIV42X1 Series



We Reserve The Right To Make Technical Changes And Use Similar Or Higher quality Materials.

### STANDARD SPECIFICATIONS

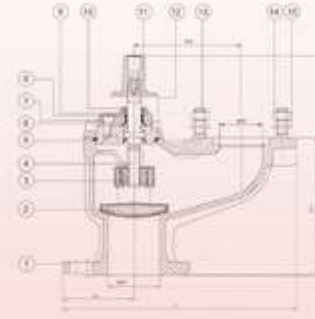
Outlet range to AS4087 Figure B5 or B6  
Inlet range to AS2029 Table D  
DN65-DN150 outlet

### APPROVALS

Certified to AS4020 - suitable for contact with drinking water  
AS/NZS 4155 for drinking water  
EPDM rubber Certified to AS 1566

### OPTIONAL EXTRAS

Spring Hysteresis  
Double orifice air release valve

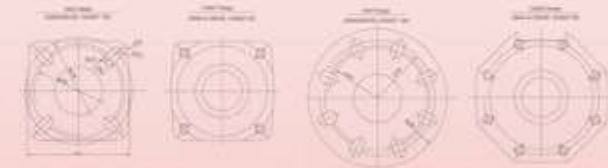


### TECHNICAL SPECIFICATIONS

Size Range	DN65 - DN150
Allowable Working Pressure	16-35Bar
Seat test to AS 2618.2	17.618 MPa
Body test to AS 2618.2	24.52 MPa
Maximum Temperature	AS4220 45°C
Operating Direction	Close on Air

### GENERAL APPLICATIONS

Ductile iron screw-down type isolation valve for water and neutral liquid applications.



### COMPONENTS LIST

No.	Part Description	Material	Grade Of Material	Standard Ref.
1	BODY	DUCTILE IRON	GGGG	AS1521
2	DISC	STEEL	WCB	ASTM A216
3	DISC RUBBER	SYNTHETIC ELASTOMER	EPDM	AS 1546
4	STEM NUT	BRASS	C46000	AS 1593
5	STEM	STAINLESS STEEL	1Cr17Ni43Ti	ASTM A276
6	SPRING	SYNTHETIC ELASTOMER	MBR	AS 1546
7	BODY BONNET BOLT	STAINLESS STEEL	A307 (A307-316)	ASTM A376
8	TOP BONNET BOLT	STAINLESS STEEL	A307 (A307-316)	ASTM A376
9	STEM & BUSHING	MBR CARBON	MBR	AS 1546
10	THRUST COLLAR	STAINLESS STEEL	A307 (A307-316)	ASTM A376
11	DUSTPROOF COVER	SYNTHETIC ELASTOMER	EPDM	AS 1546
12	STEM CAP	DUCTILE IRON	GGGG	AS 1521
13	BONNET	DUCTILE IRON	GGGG	AS 1521
14	STEM BOLTS	STAINLESS STEEL	A307 (A307-316)	ASTM A376
15	HEXAGON NUT	STAINLESS STEEL	A307 (A307-316)	ASTM A376
16	WASHER	STAINLESS STEEL	A307 (A307-316)	ASTM A376

### DIMENSIONS TABLE ( AS4087 Figure B5 & B6, 1996 )

	L1	L	H1	H	kg
DN65 PN16	86	223	210	238	18
DN100 PN16	86	236	210	238	20
DN65 PN35	101	250	235	258	22.5
DN100 PN35	113	265	235	258	27

## APPENDIX B - QUALITY CERTIFICATIONS

Copies of the following Quality Certification Certificates are available for downloading from the WSAA members Website.

### TABLE B1

#### BETTA FLUID CONTROL CO LTD – MANAGEMENT SYSTEMS

Beigongwu Road, Yuqi Industry Park, Huishan District, Wuxi, Jiangsu Province, China	
Quality Systems Standard	ISO 9001:2015
Certification licence no.	12 100 38509 TMS
Certifying agency	TÜV SÜD Management Services GmbH
Current date of certification	15 July 2019
Expiry date of certification	17 June 2022

### TABLE B2

#### BETTA FLUID CONTROL CO LTD – PRODUCT CERTIFICATION

Beigongwu Road, Yuqi Industry Park, Huishan District, Wuxi, Jiangsu Province, China	
Product Standard/Spec.	NZS 4522:2010
Certificate No.	30048
Certifying agency	Australian Certification Services Pty Ltd
First date of certification	5 July 2019
Current date of certification	1 July 2020
Expiry date of certification	13 June 2024







**PRODUCT CONFORMITY SCHEME – FULL CERTIFICATION**

## Certification Licence

Australian Certification Services Pty Ltd grants to:

**Betta Fluid Control Co., Ltd.**

Trading as Betta Fluid Control Co., Ltd.

the right to use the Certification Mark as shown above in conjunction with the Certificate No. on product/s as identified in the Schedule and as listed on the Australian Certification Services Website [www.certificationservices.com.au](http://www.certificationservices.com.au) and have been shown to comply with the relevant Standard/s referred to below. The Licensee is granted a licence to use the Certification Mark subject to the rules governing the use.

Product Type: Fire Hydrant Valves  
 Brand: BETTA  
 Evaluated to: NZS 4522:2010 Amdt 1 2014 Underground fire hydrants

Issue Date: 1<sup>st</sup> July 2020  
 Initial Issue Date: 5<sup>th</sup> July 2019  
 Expiry Date: 13<sup>th</sup> June 2024

Paul Greig  
 General Manager

Certificate No.: 30048

This certificate remains the property of Australian Certification Services Pty Ltd

The Product Conformity Scheme (PCS) – Full Certification is a conformity assessment scheme based on ISO/IEC 17067 (Scheme Type 5) and SA HB 18.28

Page 1 of 2



Australian Certification Services Pty Ltd ABN 37 121 022 366  
 PO Box 627 Jannali, NSW 2226 AUSTRALIA  
 Phone: +61 2 8521 0726 Email: [admin@certificationservices.com.au](mailto:admin@certificationservices.com.au)  
[www.certificationservices.com.au](http://www.certificationservices.com.au)



Certificate Number: 30048  
 Issue Date: 1<sup>st</sup> July 2020  
 Issue: 01 Revision: 01



## Product Conformity Scheme (PCS)-FULL Certification Licence Schedule

Certificate Holder/s:	Betta Fluid Control Co., Ltd. BeiGongWu Road YuQi Industry Park HuiShan District WuXi 214183 JiangSu Province China Website: <a href="http://www.bettaindustries.com">www.bettaindustries.com</a>
Certificate Number	30048
Certification Standard/s:	NZS 4522:2010 Amdt 1 2014 Underground fire hydrants

### Product Listing

Model Identification	Brand Name	Product Description
80BFH41X1-16Q-1	BETTA	DN80 PN16 Screw Down Underground Fire Hydrant Valve (Fixed Stopper) Tall Flange Inlet (AS 4087) x Round Threaded (2 1/2") Outlet Coated with Blue Thermosetting Polymeric Material
80BFH41X1-16Q-2	BETTA	DN80 PN16 Screw Down Underground Fire Hydrant Valve (Fixed Stopper) Squat Flange Inlet (AS 4087) x Round Threaded (2 1/2") Outlet Coated with Blue Thermosetting Polymeric Material
80BFH41X1-16Q-SA	BETTA	DN80 PN16 Screw Down Underground Fire Hydrant Valve (Fixed Stopper) Tall Flange Inlet (AS 4087) x Yoke (SA) Coated with Blue Thermosetting Polymeric Material
80BFH41X1-16Q-WA	BETTA	DN80 PN16 Screw Down Underground Fire Hydrant Valve (Loose Stopper) Squat Flange Inlet (AS 4087) x Yoke (WA SPS292) Coated with Blue Thermosetting Polymeric Material
80BFH41X1-16Q-NT	BETTA	DN80 PN16 Screw Down Underground Fire Hydrant Valve (Loose Stopper) Squat Flange Inlet (AS 4087) x Round Threaded (2 1/2") Outlet (NT) Coated with Blue Thermosetting Polymeric Material





## APPENDIX C – SUPPLIER CONTACTS

### Australian Office

Betta Fluid Control Co. Ltd  
45 Cyperus Crescent Carseldine, QLD 4034  
Tony Iskra Mobile: 0417 500132  
Paul Chesterfield Mobile: 0407 736526  
Email: sales@bettavalves.com  
Website: www.bettaindustries.com

### China Factory and Head Office

Betta Fluid Control Co. Ltd  
BeiGongwu Road, YuQi Industry Park,  
HuiShan District, WuXi, China. P.C. 214183  
  
Mr James Ren  
Tel: +86-510-83881123  
Fax: +86-510-83881217

### CLOVER (AUSTRALIAN DISTRIBUTOR)

**Melbourne – Head Office (Victoria, South Australia & Tasmania)**  
237 Rex Road, Campbellfield VIC 3061  
Phone: (03) 8373 8000  
Email: [vic@cloverpipe.com.au](mailto:vic@cloverpipe.com.au)

**Sydney (New South Wales & Australian Capital Territory)**  
49-53 Newton Road, Wetherill Park NSW 2164  
Phone: (02) 8279 8000  
Email: [nsw@cloverpipe.com.au](mailto:nsw@cloverpipe.com.au)

**Brisbane (Queensland & Northern Territory)**  
8/17 Boniface Street, Archerfield QLD 4108  
Phone: (07) 3073 7000  
Email: [qld@cloverpipe.com.au](mailto:qld@cloverpipe.com.au)

**Perth (Western Australia)**  
10 Radich Close, Wangara WA 6065  
Phone: (08) 6166 6800  
Email: [wa@cloverpipe.com.au](mailto:wa@cloverpipe.com.au)

**International Enquiries**  
Phone: +613 8373 8000



**Melbourne Office**

Level 8, Suite 8.02  
401 Docklands Drive  
Docklands VIC 3008

**Sydney Office**

Level 9 420 George Street  
Sydney NSW 2000  
GPO Box 915  
Sydney NSW 2001

P +61 (0) 3 8605 7666  
email: [info@wsaa.asn.au](mailto:info@wsaa.asn.au)

[www.wsaa.asn.au](http://www.wsaa.asn.au)