



# Betta Fluid Control Co Ltd

## PRODUCT APPRAISAL REPORT PA 1817 Issue 5

BETTA Hydrant and Air Valve Isolator Valves

**NZS 4522:2010 Underground fire hydrants**

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Name/Title	Organisation	Date
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Carl Radford, Product Appraisal Manager	WSAA	1 February 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

Betta Fluid Control Co Ltd is a privately-owned joint venture, originally incorporated in 2007 as Betta Fluid Machinery Manufacturing Co Ltd, with two 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 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.

This Issue 5 is to close out a Future Work Item that requires a current AS/NZS 4020:2018 test to be completed.

Issue 4 was a replacement for the previous version of the appraisal which had reached its 5-year expiry date.

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 Fluid Control Co Ltd holds an ISO 9001:2015 Quality Management System Licence.

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

This Appraisal has determined that BETTA hydrant and air valve isolator valves, as detailed in this report, meet the requirements of WSA PS-282 –*Hydrant and Air Valve Isolator Valves – Water Supply* and are considered as ‘fit-for-purpose’.

### 1.1 Recommendations

It is recommended that WSAA members and associates, subject to any specific requirements of the member, accept or 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

The Applicant is Betta Fluid Control Co Ltd.

### 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 C.

### 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 included 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/60961>

## 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.

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

Betta has also submitted copies of relevant ISO 9001 Quality Assurance licenses appropriate to their component suppliers.

### 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	CF8M (Grade 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 AS/NZS 4087.

### 6.2.3 Polymeric thermal bonded coatings

Thermal bonded polymeric coatings 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 Qingdao Jindapeng JDP fusion bonded epoxy powder coloured blue.

JDP has AS/NZS 4158:2003 StandardsMark Product Certification. A copy of the licence is held on file by WSAA.

The FBE coating is applied in accordance with the requirements of AS/NZS 4158. ACS (now Pro-Switch) 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

A AS/NZS 4020:2005 test report dated December 30 2015 was submitted for the previous issue of this appraisal and has now expired. Betta has advised that an updated test is now in progress. The requirement to provide a current test report to demonstrate compliance with AS/NZS 4020:2018 is included as a future work requirement.

## 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 2 for an example of marking details.



**FIGURE 2 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

Betta has been supplying hydrant and air valve isolator valves into the Australian market for many years.

## **12 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW**

There are no outstanding requests.

## **13 FUTURE WORKS**

There are no future work items.

## **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](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**

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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**

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#### **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



Betta Valves  
Better for Life

# SCREW-DOWN TYPE ISOLATION VALVE

ISOLATION VALVE PN16/35

BIV42X1 Series

## STANDARD SPECIFICATIONS

Outlet flange to AS4087 Figure B5 or B6  
Inlet flange to AS2129 Table D,  
DN80/DN100 slotted

## APPROVALS

Certified to AS4020 – suitable  
for contact with drinking water  
AS/NZS 4158 for drinking water  
EPDM rubber Certified to AS 1646

## OPTIONAL EXTRAS

Spring Hydrant  
Double orifice air release valve

## TECHNICAL SPECIFICATIONS

Size Range	DN80–DN100
Allowable Working Pressure	16/35Bar
Seat test to AS 2638.2	17.6/36.5Bar
Body test to AS 2638.2	24/52.5Bar
Maximum Temperature	AS4020 40°C
Operating Direction	Clockwise or Anti

## 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	GGG50	AS1831
2	DISC	STEEL	WCB	ASTM A216
3	DISC RUBBER	SYNTHETIC ELASTOMER	EPDM	AS1646
4	STEM NUT	BRASS	C48600	AS1585
5	STEM	STAINLESS STEEL	1Cr17Ni2(431)	ASTM A276
6	"O"RING	SYNTHETIC ELASTOMER	NBR	AS1646
7	BODY BONNET BOLT	STAINLESS STEEL	0Cr17Ni12Mo2(316)	ASTM A276
8	TOP BONNET BOLT	STAINLESS STEEL	0Cr17Ni12Mo2(316)	ASTM A276
9	"O"RING & BUSHING	NBR/C48600	NBR	AS1646
10	THRUST COLLAR	STAINLESS STEEL	0Cr18Ni9(304)	ASTM A276
11	DUSTPROOF COVER	SYNTHETIC ELASTOMER	EPDM	AS1646
12	STEM CAP	DUCTILE IRON	GGG50	AS1831
13	BONNET	DUCTILE IRON	GGG50	AS1831
14	STUD BOLTS	STAINLESS STEEL	0Cr17Ni12Mo2(316)	ASTM A276
15	HEXAGON NUT	STAINLESS STEEL	0Cr17Ni12Mo2(316)	ASTM A276
16	WASHER	STAINLESS STEEL	0Cr17Ni12Mo2(316)	ASTM A276

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

	L1	L	H1	H	kg
DN80 PN16	86	323	210	336	18
DN100 PN16	86	336	210	336	20
DN80 PN35	103	370	210	336	22.5
DN100 PN35	115	395	210	336	27

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## APPENDIX B - QUALITY CERTIFICATIONS

Copies of the following Quality Certificates are available from WSAA.

### 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	18 June 2022
Expiry Date of Certification	17 June 2025

### 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
Issuing Certification Body	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



CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

認證證書

CERTIFICATE

ZERTIFIKAT



Management Service

# CERTIFICATE

The Certification Body  
of TÜV SÜD Management Service GmbH  
certifies that

## Wuxi Betta Fluid Control Co., LTD.

Beigong Wu Road, Yuqi Area, Economic Development Huishan District  
Wuxi City, Jiangsu Province, P.R. China  
Post Code: 214183

Unified social credit code: 91320206MA1T6YJ95K

has established and applies  
a Quality Management System for

**Design, Manufacture and Sales of Water Supply Gate Valves, Hydrant Valve,  
Check Valve, Butterfly Valve and Fittings Used for Water Pipes.**

An audit was performed, Order No. **7482219061**.

Proof has been furnished that the requirements  
according to

### ISO 9001:2015

are fulfilled.

The certificate is valid from **2022-06-18** until **2025-06-17**.

The certified organization shall undergo and pass  
the regular surveillance audit to maintain the validity of this certificate.

Certificate Registration No.: **12 100 38509 TMS**.

Information about this certificate can be inquired at the official website  
of Certification and Accreditation Administration of the People's Republic of China ([www.cnca.gov.cn](http://www.cnca.gov.cn)).

Head of Certification Body  
Munich, 2022-05-24





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





## 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

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