



# The Dobbie Dico Meter Co (WA) Pty Ltd

## **PRODUCT APPRAISAL REPORT 1315 Issue 2**

Ductile Iron Pipe Fittings DN 100 – DN 250

**AS/NZS 2280:2014 Ductile iron pipes and fittings**

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7 May 2020	Updated ISO 9001 certificate for MIL

## Peer Reviewers

Name/Title	Organisation	Date
Product Appraisal Technical Advisory Group	WSAA	11 June 2014
WSAA Expert Panel	WSAA	11 June 2014
Peter Pittard, WSAA Consultant	WSAA	20 May 2014
Carl Radford, Product Appraisal Manager	WSAA	4 August 2014
Peter Pittard, WSAA Consultant	WSAA	29 October 2019
Carl Radford, Product Appraisal Manager	WSAA	3 April 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.

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## 1 EXECUTIVE SUMMARY

The Dobbie Dico Meter Company (W.A.) Pty Limited (Dobbie) is a manufacturer and supplier of fittings and valves for pressure pipelines. 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 1940.

This Issue 2 is to replace the previous Appraisal that had reached its expiry date.

This Appraisal applies to a range of polymeric coated and lined ductile iron fittings manufactured to AS/NZS 2280:2014 *Ductile iron pipes and fittings*. It includes traditional PN16 and PN35 fittings in sizes DN 80 to DN 250 (denoted as Series G1) and PN16 and PN20 lightweight fittings in sizes DN 100 and DN 150 (denoted as Series G2).

The sockets are T-type and flanges comply with AS/NZS 4087.

The ductile iron fittings are sourced from Amma Alloy (India) Pvt Ltd and the polymeric coatings are applied by Mil Industries Ltd, both located in Tamil Nadu, India.

The range of products is detailed in Section 5 of this Appraisal and included in the StandardsMark product schedule in Appendix B.

The fittings are covered by ISO Type 5 StandardsMark Product Certification to AS/NZS 2280:2014.

Dobbie and their suppliers all hold ISO 9001:2015 Quality Management System licences.

The Dobbie ductile iron fittings described within this appraisal meet the requirements of WSA PS 201 *Ductile Iron Fittings (CIOD) for Pressure and Non-Pressure Applications - Water Supply and Sewerage* and are therefore deemed as 'fit for purpose'.

### 1.1 Recommendations

It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise the range of Dobbie DI fittings in sizes from DN 80 to DN 250, as detailed in this report, for use in water supply and sewerage pressure pipelines, provided they are installed in accordance with applicable WSAA Codes and the manufacturer's requirements, where specified.

## 2 THE APPLICANT

The applicant is The Dobbie Dico Meter Co (WA) Pty Ltd.

### 2.1 The Supplier

The Dobbie Dico Meter Company (W.A.) Pty Limited is a manufacturer and supplier of fittings and valves for pressure pipelines. 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 1940. The ductile iron fittings included in this Appraisal are manufactured to the design requirements of Dobbie.

### 2.2 The Manufacturer

Amma Alloy (India) Pvt Ltd is a manufacturer of grey and ductile iron castings located in Coimbatore, Tamil Nadu, India. The facility, which covers approximately 16,000 square metres, includes a foundry equipped with PLC operated high pressure moulding machines and a fully integrated machine shop with state-of-the-art machining centres. The foundry division has been in operation since 2008 and has a current output of approximately 14,000 tonnes per annum. Amma has certifications to ISO 9001 and ISO 14001 and services sectors including automotive, pumps, textiles, valves, railways and general engineering.

Mil Industries Ltd, located in Chennai, Tamil Nadu, India specialises in manufacture and application of corrosion and abrasion resistant coatings. Mil has ISO Type 5 StandardsMark product certification to AS/NZS 4158:2003 *Thermal-bonded polymeric coatings on valves*

and fittings for water industry purposes. The ductile iron castings manufactured by Amma are delivered to Mil for application of the FBE coatings.

### 3 THE PRODUCT

This Appraisal applies to a range of polymeric coated and lined ductile iron fittings manufactured to AS/NZS 2280 *Ductile iron pipes and fittings*. It includes traditional PN16 and PN35 fittings in sizes DN 80 to DN 250 (denoted as Series G1) and PN16 and PN20 lightweight fittings in sizes DN 100 and DN 150 (denoted as Series G2).

The sockets are T-type supplied with dual hardness EPDM gaskets and flanges comply with AS/NZS 4087 Figure B5 PN16. The fittings are coated and lined with fusion bonded epoxy applied by the fluidised bed technique.

### 4 SCOPE OF THE APPRAISAL

The scope of this Appraisal includes a range of polymeric coated ductile iron fittings including tees, bends, tapers, caps and connectors in sizes from DN 80 to DN 250 detailed in Table 1 and included in the ISO Type 5 StandardsMark product certification product schedule in Appendix B.

**TABLE 1 RANGE OF DOBBIE DI FITTINGS**

Fitting Type:	Series G2 Lightweight		Series G1 Traditional					
	DN:	100	150	80	100	150	200	250
<b>Soc-Soc Bend</b>								
90	✓	✓		✓	✓	✓	✓	✓
45	✓	✓		✓	✓	✓	✓	✓
22	✓	✓		✓	✓	✓	✓	✓
11	✓	✓		✓	✓	✓	✓	✓
<b>FI-FI Bend</b>								
90	✓	✓		✓	✓	✓	✓	✓
45	✓	✓		✓	✓	✓	✓	✓
<b>Soc x FI Bend, x 90</b>		✓			✓			
<b>Soc x FI Washout Bend, 90</b>	✓			✓				
<b>Soc x FI Hydrant Bend, 90</b>	✓			✓				
<b>Cap</b>	✓	✓		✓	✓	✓	✓	✓
<b>Soc x Soc Tee</b>								
x 100	✓	✓		✓	✓	✓	✓	✓
x 150		✓			✓	✓	✓	✓
x 200						✓	✓	
x 250								✓

<b>Soc x FI Tee</b>							
x 80	✓	✓		✓	✓	✓	✓
x 100	✓	✓		✓	✓	✓	✓
x 150		✓			✓	✓	✓
x 200						✓	✓
x 250							✓
<b>FI x FI Tee</b>							
x 100	✓	✓		✓	✓	✓	✓
x 150		✓			✓		✓
x 200					✓	✓	✓
x 250							✓
<b>Soc x FI Scour Tee</b>							
x 80	✓				✓	✓	
x 100							✓
<b>Soc – Soc Taper</b>							
- 100		✓			✓	✓	✓
- 150						✓	✓
- 200							✓
<b>FI – FI Taper</b>							
- 80	✓			✓			
- 100		✓			✓	✓	✓
- 150						✓	✓
- 200							✓
<b>Soc – FI Connector</b>	✓	✓		✓	✓	✓	✓
<b>Hydrant Risers</b>							
x 100			✓	✓			
x 150			✓	✓			
x 225			✓	✓			
x 300			✓	✓			
x 375			✓	✓			
x 450			✓	✓			
x 525			✓	✓			
x 600			✓	✓			

## 5 APPRAISAL CRITERIA

### 5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts ductile iron fittings manufactured in compliance with AS/NZS 2280 *Ductile iron pipes and fittings* 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

The Dobbie range of ductile iron fittings has been appraised for compliance with AS/NZS 2280:2014 *Ductile iron pipes and fittings*.

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 201 - *Ductile Iron Fittings (CIOD) for Pressure and Non-Pressure Applications - Water supply and Sewerage*.

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

Dobbie has submitted the following quality certificates:

- ISO 9001:2015 Certificate of Registration No. QEC1395 issued to The Dobbie Dico Meter Co (WA) Pty Ltd by SAI-Global.
- ISO 9001:2015 Certificate of Registration No. 99 100 14605 issued to Amma Alloy (India) Pvt Ltd by TUV SUD.
- ISO 9001:2015 Certificate of Registration No. 44 100 094200 issued to Mil Industries Ltd by TUV NORD
- AS/NZS 2280:2014 AS/NZS 2280:2014 *Ductile iron pipes and fittings* ISO Type 5 StandardsMark product certification licence No. SMK2809/1 issued to The Dobbie Dico Meter Co (WA) Pty Ltd by SAI-Global.
- AS/NZS 4158:2003 *Thermal-bonded polymeric coatings on valves and fittings for water industry purposes* ISO Type 5 StandardsMark product certification licence No. SMKP21750 issued to MIL Industries & MIL Trading Private Ltd by SAI-Global.
- AS/NZS 4158:2003 *Thermal-bonded polymeric coatings on valves and fittings for water industry purposes* ISO Type 5 StandardsMark product certification licence No. SMKP20551 issued to Jotun Thailand Limited by SAI-Global.
- AS 1646:2007 *Elastomeric seals for waterworks purposes* ISO Type 5 StandardsMark product certification licence No. SMKP20133 issued to Gulf Rubber Australia Pty Ltd by SAI-Global.



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

Copies of Quality Assurance certificates have also been supplied for the component suppliers and are also available from WSAA members website.

## 6.2 Compliance with Performance Requirements

### 6.2.1 Ductile iron

AS/NZS 2280 specifies that DI fittings shall conform to minimum AS 1831 Grade 400-12. Dobbie has submitted typical material test certificates to demonstrate compliance.

### 6.2.2 Wall thickness

The minimum wall thicknesses of Dobbie PN 35 and PN 20 fittings exceed the minimum requirements specified in AS/NZS 2280.

### 6.2.3 Elastomeric joint

Dobbie fitting sockets are designed as T-type. The sockets are compatible with spigots of AS/NZS 2280 ductile iron pipes and Series 2 PVC pipes manufactured to AS/NZS 1477 (PVC-U), AS/NZS 4441 (PVC-M) and AS/NZS 4765 (PVC-O).

Type test results have been submitted for DN150 seal joints to demonstrate compliance with Clause 4.2 of AS/NZS 2280. This test qualifies all sizes of the same design for sizes DN 100 to DN 300

The depth of engagement for sockets is in excess of AS/NZS 2280 minimum specified requirements as shown in Table 1.

**TABLE 1**  
**DEPTH OF ENTRY BEYOND THE ELASTOMERIC SEAL**

Size DN	AS/NZS 2280 STANDARD PN 35	Dobbie DEEP ENTRY	AS/NZS 2280 Min requirement
100	54	70	42
150	58	80	50
200	65		58
250	72		66

NOTE: Guidelines for use of non-metallic pipes with ductile iron sockets are given in WSA TN2

### 6.2.4 Elastomeric seals

The elastomeric seals supplied by Gulf Rubber are T-type dual hardness EPDM which are covered by ISO Type 5 Product Certification.

### 6.2.5 Angular joint deflection

The maximum elastomeric seal joint deflection recommended by Dobbie is shown in Table 2. These deflections are in excess of the minimum required deflections nominated in AS/NZS 2280.

**TABLE 2**  
**ELASTOMERIC SEAL JOINT DEFLECTION**

Nominal size DN	Maximum joint deflection <sup>1</sup>
100 – 250	4°

<sup>1</sup> Includes DN 100 and DN 150 light weight fittings

### 6.2.6 Polymeric coatings

AS/NZS 2280 requires that thermal bonded polymeric coatings on fittings shall comply with AS/NZS 4158.

All Dobbie fittings are coated and lined with Jotun Jotaguard VA5001 Fusion Bonded Epoxy by MIL Trading Private Ltd, Chennai, India using the fluidised bed method. Both the coating and application are covered by ISO Type 5 StandardsMark product certification. See Section 6.1

### 6.2.7 Flanges

The flanges on Dobbie ductile iron fittings comply with AS/NZS 4087 Figure B5 PN 16.

Dobbie supply PN16 rated solid EPDM gaskets, 3 mm thick, complying with WSA PS 312 *Flanged gasket and O-rings for flanges*. The PN 16 flange gaskets are supplied by Novus Sealing Pty Ltd.

### 6.2.8 Design Verification

Dobbie has previously submitted Type Test reports from Plumbing Testing Laboratory, a NATA Certified laboratory, for their range of lightweight fittings, to demonstrate compliance with Clause 3.4.7 of AS/NZS 2280. Clause 3.4.7 requires that fittings with wall thickness less than those nominated in Appendix H shall be satisfactorily tested to 2.5 times the allowable operating pressure, without distortion.

There are some additional G2 lightweight fittings that have now been included on the StandardsMark schedule that have not been type tested, however the wall thickness of these fittings exceeds the minimum prescriptive thicknesses prescribed in AS/NZS 2280:2020 and are therefore deemed acceptable.

### 6.2.9 Contact with drinking water

Test reports have been submitted by Dobbie as follows:

Jotaguard VA5001 Fusion Bonded Epoxy, Test Report No. 261781 dated 3 October 2019 to AS/NZS 4020:2018.

Gulf Rubber EPDM 5514S, Test Report No.265507 dated 6 September 2019 to AS/NZS 4020:2018.

## 7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

Ductile iron fittings manufactured to AS/NZS 2280 are standard products in the water industry and individual manufacturers fitting instructions and installer training is not regarded as necessary.

## 8 PRODUCT MARKING

Dobbie ductile iron fittings are marked in accordance with AS/NZS 2280 as follows:

- Manufacturer's name or mark: Dobbie
- Nominal size of fitting: e.g. DN100
- Ductile" or "D.I." moulded in raised form on the fitting.
- Where applicable, the angle of the bend cast on the fitting.
- Classification of fittings. e.g. PN16
- The number of the standard: AS/NZS 2280.
- Product certification mark: ✓✓✓✓✓ Lic No 2809/1

## **9 PACKAGING AND TRANSPORTATION**

Dobbie packages the fittings onto pallets using corrugated cardboard as separation to prevent damage during transport. The pallets are then shrink wrapped.

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

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

Ductile iron fittings are well-established products and Dobbie has been supplying DI fittings to the industry for many years. A field test is not considered necessary.

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

There have been no issues raised.

## **13 FUTURE WORKS**

No future works have been 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).

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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.

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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**



*PN20 - Ductile Iron  
Fittings  
DN100 - DN150*



*Series: G2*





## G2 Ductile Iron Fittings

### Product Application

Dobbie have been designing, manufacturing and supplying Ductile Iron Pipe Fittings and associated civil pipe system components since before the turn of the century. Dobbie Fittings are widely used in the construction of civil and industrial pipe systems and have been independently tested and certified to AS/NZS 4020 as suitable for inclusion within potable water systems. Manufactured to exacting standards, Dobbie ductile iron fittings are strong, tough and durable. All Dobbie fittings feature a corrosion resistant polymeric thermal bonded coating to AS/NZS 4158 and are Standardsmark approved to AS/NZS 2280.

Featuring both rubber ring and flanged jointing systems, D.I. fittings are suitable for connection to a wide range of pressurised pipework infrastructures including: Water mains (Potable water); Sewer Pressure Mains and Recycled (Grey) Water systems. Pipelines compatible with socketed and flange fittings include Series 1 & 2 PVC; D.I.; MSCL (Flanged) & PE (Flanged).

### G2 Range

Dobbie are proud to introduce its latest innovation, the new G2 lightweight range of D.I. Fittings.

Dobbie's hydraulic research team has developed a revolutionary, cutting edge design of compact, lighter fittings. This unique range of Dobbie G2 fittings, offered in 100mm & 150mm, is pressure rated to PN16 (flanged fittings) and PN20 (socketed fittings).

This makes Dobbie G2 fittings ideally suited to applications such as potable water mains and sewer rising mains, where high pressure ratings are not required.

The G2 range features deeper sockets for positive connections. Requiring less material to manufacture than traditional fittings, this new design is cost effective & environmentally sustainable. Requiring less physical input to correctly install, this compact and light design, not only saves on installation costs but is also OH & S friendly.

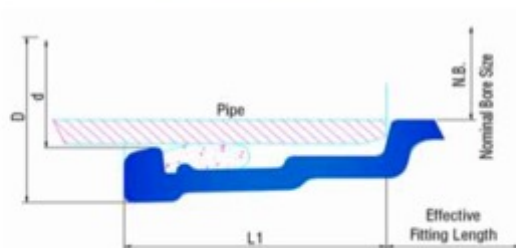
### Product Features

- Design: Compact, Lightweight, Robust
- Material: Strong, durable 400/12 Ductile Iron
- Coating: Polymeric, thermally bonded - AS/NZS 4158
- Sealing Rings: EPDM – AS 1646
- Pipe Deflection: Up to 3.5°

### Technical Specifications

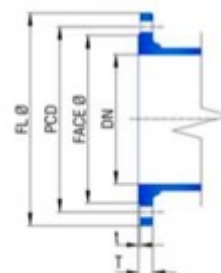
- Size Range: DN100 – DN150
- Joining System: Flange / Rubber ring socket
- AOP: 1600kPa (Flange) & 2000kPa (Socket)
- Manufacturing Standard: AS/NZS 2280
- Potable Water certification: AS/NZS 4020
- Flange Connections: AS 4087
- Product License: SMKP2809
- Accrediting Body: SAI Global

G2 Socket Details



DN	'd'	'D'	L1
100	125	158	110
150	182	217	123

G2 Flange Details



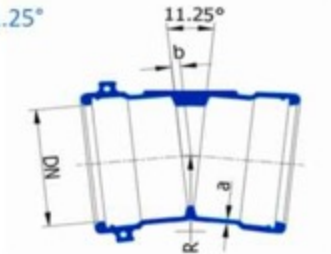
DN	FL Ø	PCD	FACE Ø	T	t	No. of Bolts	Bolt Hole Ø	Bolt Size
100	215	178	154	20	3	4	18	M16
150	280	235	211	23	3	8	18	M16



G2 Ductile Iron Fittings  
Socket-Socket Bends

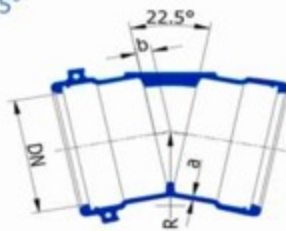
www.dobbie.com.au

BEND: 11.25°



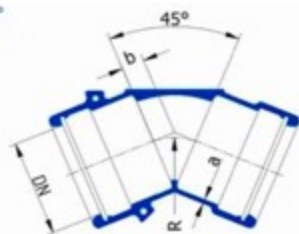
DN	Degree	'a'	'b'	'R'	Product Code
100	11.25	6	10	75	2G2B100S1125
150	11.25	6	12	120	2G2B150S1125

BEND: 22.5°



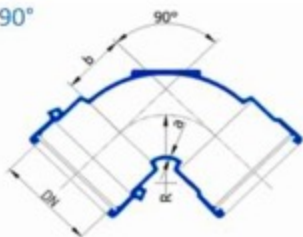
DN	Degree	'a'	'b'	'R'	Product Code
100	22.5	6	15	75	2G2B100S225
150	22.5	6	22	120	2G2B150S225

BEND: 45°



DN	Degree	'a'	'b'	'R'	Product Code
100	45	6	28	75	2G2B100S45
150	45	6	40	120	2G2B150S45

BEND: 90°



DN	Degree	'a'	'b'	'R'	Product Code
100	90	6	70	75	2G2B100S90
150	90	6	120	120	2G2B150S90

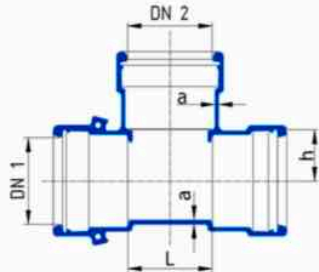
Fittings - G2 - Bends - Socket/Socket





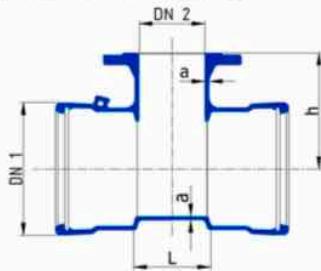
G2 Ductile Iron Fittings  
Tees

TEE: SOCKET-SOCKET-SOCKET



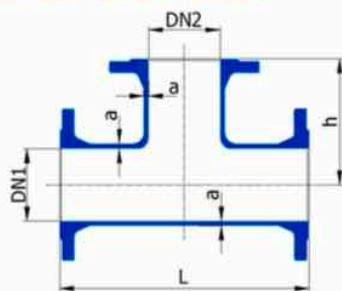
DN1	DN2	'a'	'L'	'h'	Product Code
100	100	6	120	75	2G2T100S100S
150	100	6	120	100	2G2T150S100S
150	150	6	120	100	2G2T150S150S

TEE: SOCKET-SOCKET-FLANGE



DN1	DN2	'a'	'L'	'h'	Product Code
100	80	6	120	155	2G2T100S080F
100	100	6	120	165	2G2T100S100F
150	80	6	120	185	2G2T150S080F
150	100	6	120	190	2G2T150S100F
150	150	6	120	210	2G2T150S150S

TEE: FLANGE-FLANGE-FLANGE

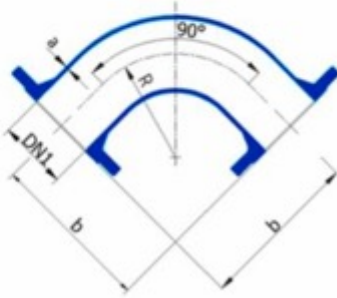


DN1	DN2	'a'	'L'	'h'	Product Code
100	100	7	356	178	2G2T100F100F
150	100	7	406	203	2G2T150F100F
150	150	7	406	203	2G2T150F150F



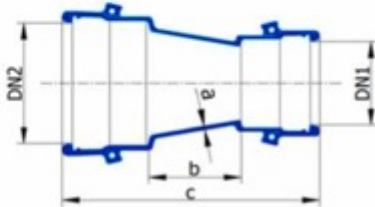
G2 Ductile Iron Fittings  
Flange-Flange Bends &  
Socket-Socket Reducer

BEND: FLANGE-FLANGE 90°



DN	Degree	'a'	'b'	'R'	Product Code
100	90	7	297	152	2G2B100F90

REDUCER: SOCKET-SOCKET

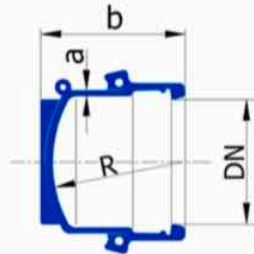


DN1	DN2	'a'	'b'	'c'	Product Code
100	150	6	131	363	2G2R150S100S



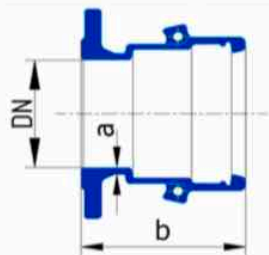
G2 Ductile Iron Fittings  
Caps & Connectors

CAP: SOCKET END



DN	'a'	'b'	'R'	Product Code
100	6	145	130	2G2CAP100S
150	6	161	238	2G2CAP150S

CONNECTOR: SOCKET-FLANGE



DN	'a'	'b'	Product Code
100	6	161	2G2C100FS
150	6	185	2G2C150FS

Note: Other fittings & sizes may be available on request.  
Please speak to our Sales Department for further information.



*PN35 - Ductile Iron  
Fittings  
DN100 - DN250*



*Series: G1*





## G1 Ductile Iron Fittings

### Product Application

Dobbie have been designing, manufacturing and supplying Ductile Iron Pipe Fittings and associated civil pipe system components since before the turn of the century. Dobbie Fittings are widely used in the construction of civil and industrial pipe systems and have been independently tested and certified to AS/NZS 4020 as suitable for inclusion within potable water systems. Manufactured to exacting standards, Dobbie ductile iron fittings are strong, tough and durable. All Dobbie fittings feature a corrosion resistant polymeric thermal bonded coating to AS/NZS 4158 and are Standardsmark approved to AS/NZS 2280.

Featuring both rubber ring and flanged jointing systems D.I. fittings are suitable for connection to a wide range of pressurised pipework infrastructures including: Water mains (Potable water); Sewer Pressure Mains and Recycled (Grey) Water systems. Pipelines compatible with socketed and flange fittings include Series 1 & 2 PVC; D.I.; MSCL (Flanged) & PE (Flanged).

### G1 Range

Dobbie's G1 range of fittings is manufactured utilising resilient ductile iron with a minimum tensile strength of 4000kPa. This material features a minimum elongation of 12% with a maximum Brinell hardness of 250HB. G1 fittings are pressure rated to PN16 (flanged fittings) & PN35 (socketed fittings). This heavy duty range of fittings is offered in a size range from 80mm to 250mm. Dobbie G1 fittings are best suited to applications where high pressure ratings, up to 3500kPa are mandated.

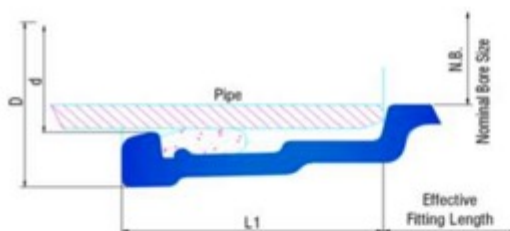
### Product Features

Design: Heavy Duty, Robust, High Pressure rated (PN35)  
 Material: Strong, durable 400/12 Ductile Iron (AS 1831)  
 Coating: Polymeric, thermally bonded - AS/NZS 4158  
 Sealing Rings: EPDM – AS 1646  
 Pipe Deflection: Up to 3.5°

### Technical Specifications

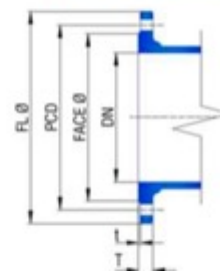
Size Range: DN80 – DN250  
 Jointing System: Flange / Rubber ring socket  
 AOP: 1600kPa (Flange) & 3500kPa (Socket)  
 Manufacturing Standard: AS/NZS 2280  
 Potable Water certification: AS/NZS 4020  
 Flange Connections: AS 4087  
 Product License: SMKP2809  
 Accrediting Body: SAI Global

G1 Socket Details



DN	'd'	'D'	L1
100	125	170	95
150	180	227	98
200	234	284	113
250	289	340	123

G1 Flange Details



DN	FL Ø	PCD	FACE Ø	T	t	No. of Bolts	Bolt Hole Ø	Bolt Size
100	215	178	154	20	3	4	18	M16
150	280	235	211	23	3	8	18	M16
200	335	292	268	23	3	8	18	M16
250	405	356	328	24	3	8	22	M20



G1 Ductile Iron Fittings  
Socket-Socket Bends

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BEND: 11.25°



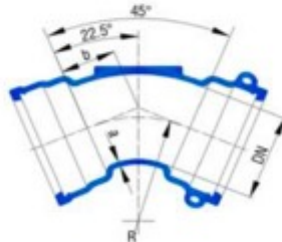
DN	Degree	'a'	'b'	'R'	Product Code
100	11.25	8	30	152	2B100S1125
150	11.25	9	35	190	2B150S1125
200	11.25	10	35	203	2B200S1125
250	11.25	10	45	254	2B250S1125

BEND: 22.5°



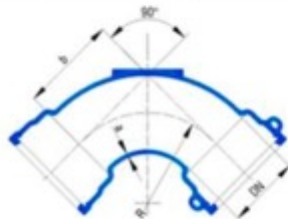
DN	Degree	'a'	'b'	'R'	Product Code
100	22.5	8	45	152	2B100S225
150	22.5	9	55	190	2B150S225
200	22.5	10	55	203	2B200S225
250	22.5	10	70	254	2B250S225

BEND: 45°



DN	Degree	'a'	'b'	'R'	Product Code
100	45	8	80	152	2B100S45
150	45	9	95	190	2B150S45
200	45	10	100	203	2B200S45
250	45	10	125	254	2B250S45

BEND: 90°



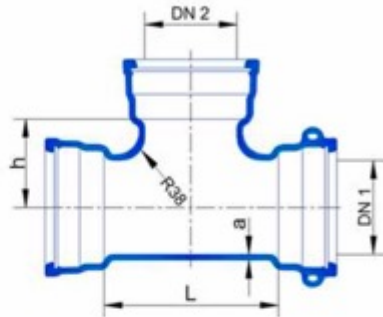
DN	Degree	'a'	'b'	'R'	Product Code
100	90	8	165	152	2B100S90
150	90	9	205	190	2B150S90
200	90	10	220	203	2B200S90
250	90	10	275	254	2B250S90

Fittings - G1 - Bends - Socket/Socket



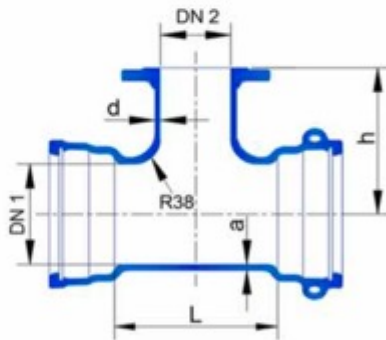
G1 Ductile Iron Fittings  
Socket-Socket Tees &  
Socket-Flange Tees

TEE: SOCKET-SOCKET-SOCKET



DN1	DN2	'a'	'L'	'h'	Product Code
100	100	8	230	115	2T100S100S
150	100	9	230	145	2T150S100S
150	150	9	290	145	2T150S150S
200	100	10	230	170	2T200S100S
200	150	10	290	170	2T200S150S
200	200	10	340	170	2T200S200S
250	100	10	240	200	2T250S100S
250	150	10	300	200	2T250S150S
250	200	10	350	200	2T250S200S
250	250	10	410	205	2T250S250S

TEE: SOCKET-SOCKET-FLANGE

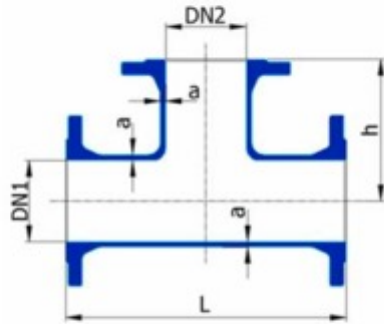


DN1	DN2	'a'	'L'	'h'	Product Code
100	80	8	210	195	2T100S080F
100	100	8	210	195	2T100S100F
150	80	9	210	225	2T150S080F
150	100	9	230	225	2T150S100F
200	80	10	210	250	2T200S080F
200	100	10	230	250	2T200S100F
200	150	10	290	275	2T200S150F
250	80	10	220	280	2T250S080F
250	100	10	240	280	2T250S100F
250	150	10	300	305	2T250S150F



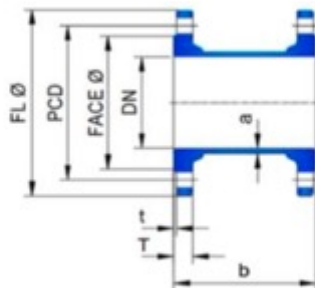
G1 Ductile Iron Fittings  
Flange-Flange Tees &  
Hydrant Risers

TEE: FLANGE-FLANGE-FLANGE



DN1	DN2	'a'	'L'	'h'	Product Code
100	100	8	356	178	2T100F100F
150	100	9	406	203	2T150F100F
150	150	9	406	203	2T150F150F
200	100	10	484	241	2T200F100F
200	150	10	484	241	2T200F150F
200	200	10	484	241	2T200F200F
250	100	10	534	267	2T250F100F
250	150	10	534	267	2T250F150F
250	200	10	534	267	2T250F200F
250	250	10	534	267	2T250F250F

HYDRANT RISER



DN	'a'	'b'	'FL Ø'	'PCD'	'Face Ø'	'T'	't'	No. of Bolts	Bolt Hole Ø	Bolt Size	Product Code
80	8	100	185	146	121	20	3	4	18	M16	2C080FF100
	8	150	185	146	121	20	3	4	18	M16	2C080FF150
	8	225	185	146	121	20	3	4	18	M16	2C080FF225
	8	300	185	146	121	20	3	4	18	M16	2C080FF300
	8	375	185	146	121	20	3	4	18	M16	2C080FF375
	8	450	185	146	121	20	3	4	18	M16	2C080FF450
100	8	100	215	178	154	22	3	4	18	M16	2C100FF100
	8	150	215	178	154	22	3	4	18	M16	2C100FF150
	8	225	215	178	154	22	3	4	18	M16	2C100FF225
	8	300	215	178	154	22	3	4	18	M16	2C100FF300
	8	450	215	178	154	22	3	4	18	M16	2C100FF450





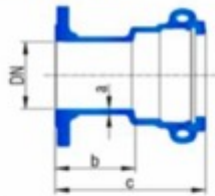
G1 Ductile Iron Fittings  
Caps, Connectors & Reducers

CAP: SOCKET END



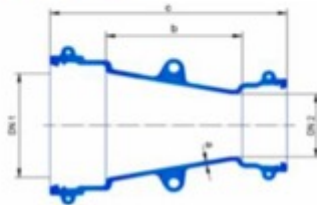
DN	'a'	'b'	Product Code
100	98	18	2CAP100S
150	98	18	2CAP150S
200	120	20	2CAP200S
250	123	22	2CAP250S

CONNECTOR: SOCKET-FLANGE



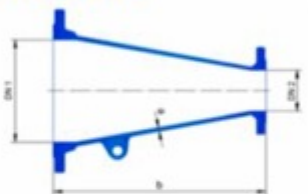
DN	'a'	'b'	'c'	Product Code
100	8	110	205	2C100FS
150	9	135	233	2C150FS
200	10	135	249	2C200FS
250	10	155	278	2C250FS

REDUCER: SOCKET-SOCKET



DN1	DN2	'a'	'b'	'c'	Product Code
150	100	9	170	363	2R150S100S
200	100	10	295	504	2R200S100S
200	150	10	170	382	2R200S150S
250	100	10	425	643	2R250S100S
250	150	10	300	521	2R250S150S
250	200	10	175	412	2R250S200S

REDUCER: FLANGE-FLANGE



DN1	DN2	'a'	'b'	Product Code
150	100	9	235	2R150F100F
200	100	10	368	2R200F100F
200	150	10	248	2R200F150F
250	100	10	495	2R250F100F
250	200	10	254	2R250F200F



G1 Ductile Iron Fittings  
Specialty Bends & Deadplates

www.dobbie.com.au

BEND: WASHOUT



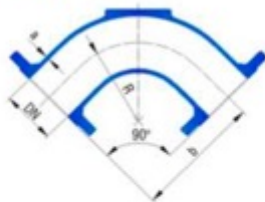
DN1	DN2	'a'	'b'	'c'	'd'	Product Code
100	102	9	213	298	305	2B100W90

BEND: HYDRANT



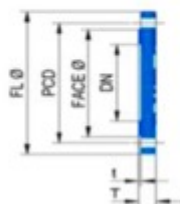
DN1	DN2	'a'	'b'	'c'	'd'	Product Code
80	102	9	213	298	290	2B100H90

BEND: FLANGE-FLANGE



DN	Degree	'a'	'b'	'R'	Product Code
100	90	8	241	152	2B100F90
150	90	9	279	190	2B150F90
200	90	10	305	203	2B200F90
250	90	10	356	254	2B250F90

DEADPLATE



DN	FL Ø	PCD	FACE Ø	T	t	No. of Bolts	Bolt Hole Ø	Bolt Size
100	215	178	154	21	3.5	4	18	M16
150	280	235	211	24	3.5	8	18	M16
200	335	292	268	24	3.5	8	18	M16
250	405	356	328	25	3.5	8	22	M20

\*Deadplates are available with a drilled & tapped BSP (f) connection to a nominated size.

Note: Other fittings & sizes are available on request.  
Please speak to our Sales Department for further information.

Fittings - G1 - Specialty Bends & Deadplates

## APPENDIX B - QUALITY CERTIFICATIONS

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

**TABLE B1 THE DOBBIE DICO METER CO (WA) PTY LTD – MANAGEMENT SYSTEMS**

430 Victoria Road, Malaga WA 6090	
Quality Systems Standard	ISO9001:2015
Certification licence no.	QEC1395
Certifying agency	SAI-Global
First date of certification	29 November 1993
Current date of certification	25 October 2017
Expiry date of certification	28 November 2020

**TABLE B2 AMMA ALLOY (INDIA) PVT LTD – MANAGEMENT SYSTEMS**

369/3, Appanaickenpattipudar, Papampatti (Via) Colmbatore - 641 402, Tamil Nadu, India	
Quality Systems Standard	ISO9001:2015
Certification licence no.	99 100 14605
Certifying agency	TUV SUD
First date of certification	16 May 2013
Current date of certification	4 May 2018
Expiry date of certification	3 May 2021

**TABLE B3 MIL INDUSTRIES LTD – MANAGEMENT SYSTEMS**

25-A, Industrial Estate, Ambattur, Chennai – 600 098, Tamil Nadu, India	
Quality Systems Standard	ISO9001:2015
Certification licence no.	444 100 094200
Certifying agency	TUV NORD
First date of certification	14 July 2009
Current date of certification	26February 2020
Expiry date of certification	8 February 2023

**TABLE B4**  
**THE DOBBIE DICO METER CO (WA) PTY LTD – PRODUCT CERTIFICATION**

Manufacturing Plant Address (Attach all QA system certificates in full including schedules)	
Product Standard/Spec.	AS/NZS 2280:2014
Certificate No.	SMK02809/1
Issuing certification body	SAI-Global
First date of certification	22 November 2010
Current date of certification	15 August 2019
Expiry date of certification	21 November 2021

**TABLE B5**  
**MIL INDUSTRIES & MIL TRADING PVT LTD – PRODUCT CERTIFICATION**

25-A, Industrial Estate, Ambattur, Chennai – 600 098, Tamil Nadu, India	
Product Standard/Spec.	AS/NZS 4158:2003
Certificate No.	SMKP21750
Issuing certification body	SAI-Global
First date of certification	23 July 2009
Current date of certification	28 February 2020
Expiry date of certification	22 July 2024



# CERTIFICATE OF REGISTRATION

This is to certify that:

**The Dobbie Dico Meter Co (WA) Pty Ltd**

ABN 32 008 671 332

430 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 registration covers the Quality Management System for the design, manufacture, procurement and sale of cast products in ferrous and non-ferrous materials and associated ancillary merchandise.

**Certificate No: QEC1395**

Issued: 30 October 2017

Originally Certified: 29 November 1993

Expires: 28 November 2020

Current Certification: 25 October 2017

Nicole Grantham  
General Manager SAI Global Certification Services



**Registered by:**  
SAI Global Certification Services Pty Ltd (ACN 108 716 669) 680 George Street Sydney NSW 2000 Australia with SAI Global Pty Limited 680 George Street Sydney NSW 2000 Australia ("SAI Global") and subject to the SAI Global Terms and Conditions for Certification. While all due care and skill was exercised in carrying out this assessment, SAI Global accepts responsibility only for proven negligence. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. To verify that this certificate is current please refer to SAI Global On-Line Certification register at <http://www.sai-global.com>



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ZERTIFIKAT ♦ CERTIFICATE ♦ 認証証書 ♦ CERTIFICADO ♦ CERTIFICAT



South Asia

# CERTIFICATE

The Certification Body  
of TÜV SÜD South Asia Private Limited

certifies that

**Amma Alloy (India) Pvt Ltd.**  
369/3, Appanaickenpattipudur, Papampatti (Via),  
Coimbatore – 641 402, Tamil Nadu, INDIA

has implemented a Quality Management System  
in accordance with ISO 9001:2015

For Scope of

**MANUFACTURING & SUPPLY OF GREY IRON AND SG IRON CASTINGS.  
MACHINING & SUPPLY OF GREY IRON AND SG IRON CASTINGS**

The certificate is valid From **2018-05-04** until **2021-05-03**

Subject to successful completion of annual periodic audits

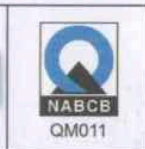
The present status of this Certificate can be obtained on [www.tuv-sud.in](http://www.tuv-sud.in)

Further clarifications regarding the scope of this certificate may be obtained by consulting the certification body

Certificate Registration No. **99 100 14605**

Date of Initial certification : **2013-05-16**

Certification Body  
of TÜV SÜD South Asia Private Limited, **Mumbai**  
Member of TÜV SÜD Group



# CERTIFICATE

Management system as per  
**ISO 9001 : 2015**

In accordance with TÜV NORD CERT procedures, it is hereby certified that

**MIL INDUSTRIES LTD.**  
**25-A, Industrial Estate, Ambattur,**  
**Chennai - 600 098, Tamil Nadu,**  
**India**  
**and other location as per sub-certificate**

applies a management system in line with the above standard for the following scope

**Manufacture and Supply of Fabricated & Rubber Lined Equipments,  
Pipe & Fittings, Resilient Seated Gate Valves, Spring Hydrant Valves,  
Mechanical Tapping Bands, Rubber Expansion Joints, Hoses, SS Wire  
Braided High Pressure PTFE Hoses, Fusion Bonded Epoxy, Nylon,  
Polymer Coated Pipes & Fittings and other Associated Rubber Products.**

Certificate Registration No. **44 100 094200**  
Audit Report No. **2.5-4289/2009**

Valid from **26.02.2020**  
Valid until **08.02.2023**  
Initial Certification **14.07.2009**

Certification Body  
at TÜV NORD CERT GmbH

Mumbai, **26.02.2020**

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH

Langemarckstrasse 20

45141 Essen

[www.tuev-nord-cert.com](http://www.tuev-nord-cert.com)

TUV India Pvt. Ltd., 801,

Raheja Plaza – 1, L.B.S. Marg,

Ghatkopar (W), Mumbai - 400 086, India

[www.tuv-nord.com/in](http://www.tuv-nord.com/in)



# STANDARDSMARK LICENCE

SAI Global hereby grants:

## The Dobbie Dico Meter Co (WA) Pty Ltd

ABN 32 008 671 332

430 Victoria Road, Malaga, WA 6090, Australia

### StandardsMark Licence

Manufactured to:

**AS/NZS 2280:2014 - Ductile iron pipes and fittings**

"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:SMK02809/1

Issued: 16 August 2019

Originally Certified: 22 November 2010

Expires: 21 November 2021

Current Certification: 15 August 2019

Heather Mahon  
Head of Global Technical Services  
SAI Global Assurance



\* For details of manufacture, refer to the licensee

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## SCHEDULE TO STANDARDSMARK LICENCE

**SAI Global hereby grants:**

### **The Dobbie Dico Meter Co (WA) Pty Ltd**

430 Victoria Road, Malaga, WA 6090, Australia

StandardsMark Licence

Manufactured to:

**AS/NZS 2280:2014 - Ductile iron pipes and fittings**

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

Nominal Size (DN)	Model Identification	Nominal Pressure (PN)	Joint Designation	Product Type	Product Description	Coating / Lining	Brand Name	Date Endorsed
100	2G2B100S45	20	Soc-Soc	Bend	100mm x 45° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
100	2G2B100S225	20	Soc-Soc	Bend	100mm x 22.5° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
100	2G2B100F90	16	FL-FL	Bend	100mm x 90° F/Fl Bend	Polymeric FBE	Dobbie	1 Nov 2016
100	2G2B100S90	20	Soc-Soc	Bend	100mm x 90° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
100	2G2100FS	16	Soc/FL	Connector	100mm Soc/Fl Connector	Polymeric FBE	Dobbie	1 Nov 2016
100	2G2B100F45	16	FL-FL	Bend	100mm x 45° F/Fl Bend	Polymeric FBE	Dobbie	1 Nov 2016
100	2G2B100S1125	20	Soc-Soc	Bend	100mm x 11.25° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
100	2G2CAP100S	20	Soc	Cap	100mm Socket Cap	Polymeric FBE	Dobbie	1 Nov 2016
100	2B100S1125	35	Soc-Soc	Bend	100mm x 11.25° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016

**Licence No:** SMK02809/1

**Issued Date:** 16 August 2019

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Nominal Size (DN)	Model Identification	Nominal Pressure (PN)	Joint Designation	Product Type	Product Description	Coating / Lining	Brand Name	Date Endorsed
100	2B100S90	35	Soc-Soc	Bend	100mm x 90° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
100	2B100S45	35	Soc-Soc	Bend	100mm x 45° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
100	2B100S225	35	Soc-Soc	Bend	100mm x 22.55° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
100	2B100F45	16	FL-FL	Bend	100mm x 45° FL/FL Bend	Polymeric FBE	Dobbie	1 Nov 2016
100	2B100F90	16	FL-FL	Bend	100mm x 90° FL/FL Bend	Polymeric FBE	Dobbie	1 Nov 2016
100	2CAP100	35	Soc	Cap	100mm Socet Cap	Polymeric FBE	Dobbie	1 Nov 2016
100	2C100FS	16	Soc/FI	Connector	100mm Soc/FI Connector	Polymeric FBE	Dobbie	1 Nov 2016
100-100	2G2T100F100F	16	FL-FL	Tee	100mm x 100mm FI/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
100-100	2T100S100F	16	Soc-Soc-FL	Tee	100mm x 100mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
100-100	2T100S100S	35	Soc-Soc-Soc	Tee	100mm x 100mm Soc/Soc Tee	Polymeric FBE	Dobbie	1 Nov 2016
100-100	2T100F100F	16	FL-FL	Tee	100mm x 100mm FI/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
100-100	2B100W90	16	Soc-FL	Bend	100mm x 90° Soc/FL WO Bend	Polymeric FBE	Dobbie	1 Nov 2016
100-100	2G2B100W90	16	Soc-FL	Bend	100mm x 90° Soc/FI WO Bend	Polymeric FBE	Dobbie	1 Nov 2016
100-100	2G2T100S100S	20	Soc-Soc-Soc	Tee	100mm x 100mm Soc/Soc Tee	Polymeric FBE	Dobbie	1 Nov 2016
100-100	2G2T100S100F	16	Soc-Soc-FL	Tee	100mm x 100mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016

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Nominal Size (DN)	Model Identification	Nominal Pressure (PN)	Joint Designation	Product Type	Product Description	Coating / Lining	Brand Name	Date Endorsed
100-80	2G2T100S080F	16	Soc-Soc-FL	Tee	100mm x 80mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
100-80	2G2B100H90	16	Soc-FL	Hydrant Bend	100mm x 90° Hyd Bend	Polymeric FBE	Dobbie	1 Nov 2016
100-80	2G2R100F080F	16	FL-FL	Taper	100xx x 80mm FI/FI Taper	Polymeric FBE	Dobbie	1 Nov 2016
100-80	2R100F080F	16	FL-FL	Taper	100mm x 80mm FI/FI Taper	Polymeric FBE	Dobbie	1 Nov 2016
100-80	2B100H90	16	Soc-FL	Hydrant Bend	100mm x 90° Soc/FL Hyd Bend	Polymeric FBE	Dobbie	1 Nov 2016
100-80	2T100S080F	16	Soc-Soc-FL	Tee	100mm x 80mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
100x100 Long	2C100FF100	16	FL-FL	Hydrant Riser	100mm x 100mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016
100x150 Long	2C100FF150	16	FL-FL	Hydrant Riser	100mm x 150mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016
100x225 Long	2C100FF225	16	FL-FL	Hydrant Riser	100mm x 225mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016
100x300 Long	2C100FF300	16	FL-FL	Hydrant Riser	100mm x 300mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016
100x375 Long	2C100FF375	16	FL-FL	Hydrant Riser	100mm x 375mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016
100x450 Long	2C100FF450	16	FL-FL	Hydrant Riser	100mm x 450mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016
100x525 Long	2C100FF525	16	FL-FL	Hydrant Riser	100mm x 525mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016

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Nominal Size (DN)	Model Identification	Nominal Pressure (PN)	Joint Designation	Product Type	Product Description	Coating / Lining	Brand Name	Date Endorsed
100x600 Long	2C100FF600	16	FL-FL	Hydrant Riser	100mm x 600mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016
150	2B150S1125	35	Soc-Soc	Bend	150mm x 11.25° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
150	2G2100FS	16	Soc/Fl	Connector	150mm Soc/Fl Connector	Polymeric FBE	Dobbie	1 Nov 2016
150	2G2B150F90	16	FL-FL	Bend	150mm x 90° Fl/Fl Bend	Polymeric FBE	Dobbie	1 Nov 2016
150	2G2CAP150S	20	Soc	Cap	150mm Socket Cap	Polymeric FBE	Dobbie	1 Nov 2016
150	2G2B150F45	16	FL-FL	Bend	150mm x 45° Fl/Fl Bend	Polymeric FBE	Dobbie	1 Nov 2016
150	2C150FS	16	Soc/Fl	Connector	150mm Soc/Fl Connector	Polymeric FBE	Dobbie	1 Nov 2016
150	2B150F45	16	FL-FL	Bend	150mm x 45° FL/FL Bend	Polymeric FBE	Dobbie	1 Nov 2016
150	2B150S225	35	Soc-Soc	Bend	150mm x 22.5° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
150	2B150S45	35	Soc-Soc	Bend	150mm x 45° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
150	2B150S90	35	Soc-Soc	Bend	150mm x 90° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
150	2B150F90	16	FL-FL	Bend	150mm x 90° FL/FL Bend	Polymeric FBE	Dobbie	1 Nov 2016
150	2G2B150S1125	20	Soc-Soc	Bend	150mm x 11.25° Soc/Soc Bend	Polymeric FBE	Dobbie	13 Aug 2019
150	2CAP150	35	Soc	Cap	150mm Socet Cap	Polymeric FBE	Dobbie	1 Nov 2016
150	2G2B150S45	20	Soc-Soc	Bend	150mm x 45° Soc/Soc Bend	Polymeric FBE	Dobbie	13 Aug 2019

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Nominal Size (DN)	Model Identification	Nominal Pressure (PN)	Joint Designation	Product Type	Product Description	Coating / Lining	Brand Name	Date Endorsed
150	2G2B150S225	20	Soc-Soc	Bend	150mm x 22.5° Soc/Soc Bend	Polymeric FBE	Dobbie	13 Aug 2019
150	2G2B150S90	20	Soc-Soc	Bend	150mm x 90° Soc/Soc Bend	Polymeric FBE	Dobbie	13 Aug 2019
150-100	2T150S100F	16	Soc-Soc-FL	Tee	150mm x 100mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-100	2R150F100F	16	FL-FL	Taper	150mm x 100mm FI/FI Taper	Polymeric FBE	Dobbie	1 Nov 2016
150-100	2T150S100S	35	Soc-Soc-Soc	Tee	150mm x 100mm Soc/Soc Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-100	2T150F100F	16	FL-FL	Tee	150mm x 100mm FI/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-100	2R150S100S	35	Soc-Soc	Taper	150mm x 100mm Soc/Soc Taper	Polymeric FBE	Dobbie	1 Nov 2016
150-100	2G2R150F100F	16	FL-FL	Taper	150mm x 100mm FI/FI Taper	Polymeric FBE	Dobbie	1 Nov 2016
150-100	2G2T150S100F	16	Soc-Soc-FL	Tee	150mm x 100mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-100	2G2T150F100F	16	FL-FL	Tee	150mm x 100mm FI/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-100	2G2T150S100S	20	Soc-Soc-Soc	Tee	150mm x 100mm Soc/Soc Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-100	2G2R150S100S	20	Soc-Soc	Taper	150mm x 100mm Soc/Soc Taper	Polymeric FBE	Dobbie	1 Nov 2016
150-150	2G2T150S150S	20	Soc-Soc-Soc	Tee	150mm x 150mm Soc/Soc Tee	Polymeric FBE	Dobbie	13 Aug 2019

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Nominal Size (DN)	Model Identification	Nominal Pressure (PN)	Joint Designation	Product Type	Product Description	Coating / Lining	Brand Name	Date Endorsed
150-150	2G2T150S150F	16	Soc-Soc-FL	Tee	150mm x 150mm Soc/Fl Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-150	2G2T150F150F	16	FL-FL	Tee	150mm x 150mm Fl/Fl Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-150	2T150S150S	35	Soc-Soc-Soc	Tee	150mm x 150mm Soc/Soc Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-150	2T150F150F	16	FL-FL	Tee	150mm x 150mm Fl/Fl Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-150	2T150S150F	16	Soc-Soc-FL	Tee	150mm x 150mm Soc/Fl Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-80	2G2T150S080X	16	Soc-Soc-FL	Scour Tee	150mm x 80mm Soc/Fl Scour Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-80	2T150S080F	16	Soc-Soc-FL	Tee	150mm x 80mm Soc/Fl Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-80	2G2T150S080F	16	Soc-Soc-FL	Tee	150mm x 80mm Soc/Fl Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-80	2T150S080X	16	Soc-Soc-FL	Scour Tee	150mm x 80mm Soc/Fl Scour Tee	Polymeric FBE	Dobbie	1 Nov 2016
150-90	2B150S90F	16	Soc-FL	Bend	150mm x 90° Soc/FL Bend	Polymeric FBE	Dobbie	1 Nov 2016
150-90	2G2B150S90F	16	Soc-FL	Bend	150 x 90° Soc/Fl Bend	Polymeric FBE	Dobbie	1 Nov 2016
200	2B200S225	35	Soc-Soc	Bend	200mm x 22.5° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
200	2B200S45	35	Soc-Soc	Bend	200mm x 45° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
200	2CAP200	35	Soc	Cap	200mm Socet Cap	Polymeric FBE	Dobbie	1 Nov 2016

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Nominal Size (DN)	Model Identification	Nominal Pressure (PN)	Joint Designation	Product Type	Product Description	Coating / Lining	Brand Name	Date Endorsed
200	2B200S1125	35	Soc-Soc	Bend	200mm x 11.25° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
200	2B200F90	16	FL-FL	Bend	200mm x 90° FL/FL Bend	Polymeric FBE	Dobbie	1 Nov 2016
200	2C200FS	16	Soc/FI	Connector	200mm Soc/FI Connector	Polymeric FBE	Dobbie	1 Nov 2016
200	2B200S90	35	Soc-Soc	Bend	200mm x 90° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
200	2B200F45	16	FL-FL	Bend	200mm x 45° FL/FL Bend	Polymeric FBE	Dobbie	1 Nov 2016
200-100	2R200S100S	35	Soc-Soc	Taper	220mm x 100mm Soc/Soc Taper	Polymeric FBE	Dobbie	1 Nov 2016
200-100	2T200S100S	35	Soc-Soc-Soc	Tee	200mm x 100mm Soc/Soc Tee	Polymeric FBE	Dobbie	1 Nov 2016
200-100	2R200F100F	16	FL-FL	Taper	200mm x 100mm FI/FI Taper	Polymeric FBE	Dobbie	1 Nov 2016
200-100	2T200F100F	16	FL-FL	Tee	200mm x 100mm FI/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
200-150	2T200S150S	35	Soc-Soc-Soc	Tee	200mm x 150mm Soc/Soc Tee	Polymeric FBE	Dobbie	1 Nov 2016
200-150	2R200S150S	35	Soc-Soc	Taper	200mm x 150mm Soc/Soc Taper	Polymeric FBE	Dobbie	1 Nov 2016
200-150	2T200F150F	16	FL-FL	Tee	200mm x 150mm FI/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
200-150	2R200F150F	16	FL-FL	Taper	200mm x 150mm FI/FI Taper	Polymeric FBE	Dobbie	1 Nov 2016
200-150	2T200S150F	16	Soc-Soc-FL	Tee	200mm x 150mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016

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Nominal Size (DN)	Model Identification	Nominal Pressure (PN)	Joint Designation	Product Type	Product Description	Coating / Lining	Brand Name	Date Endorsed
200-200	2T200S200S	35	Soc-Soc-Soc	Tee	200mm x 200mm Soc/Soc Tee	Polymeric FBE	Dobbie	1 Nov 2016
200-200	2T200S100F	16	Soc-Soc-FL	Tee	200mm x 100mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
200-200	2T200S200F	16	Soc-Soc-FL	Tee	200mm x 200mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
200-200	2T200F200F	16	FL-FL	Tee	200mm x 200mm FI/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
200-80	2T200S080X	16	Soc-Soc-FL	Scour Tee	200mm x 80mm Soc/FI Scour Tee	Polymeric FBE	Dobbie	1 Nov 2016
200-80	2T200S080F	16	Soc-Soc-FL	Tee	200mm x 80mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
250	2B250F45	16	FL-FL	Bend	250mm x 45° FI/FI Bend	Polymeric FBE	Dobbie	1 Nov 2016
250	2C250FS	16	Soc/FI	Connector	250mm Soc/FI Connector	Polymeric FBE	Dobbie	1 Nov 2016
250	2CAP250	35	Soc	Cap	250mm Socet Cap	Polymeric FBE	Dobbie	1 Nov 2016
250	2B250S1125	35	Soc-Soc	Bend	250mm x 11.25° FL/FL Bend	Polymeric FBE	Dobbie	1 Nov 2016
250	2B250F90	16	FI-FL	Bend	250mm x 90° FL/FL Bend	Polymeric FBE	Dobbie	1 Nov 2016
250	2B250S45	35	Soc-Soc	Bend	250mm x 45° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
250	2B250S90	35	Soc-Soc	Bend	250mm x 90° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016
250	2B250S225	35	Soc-Soc	Bend	250mm x 22.5° Soc/Soc Bend	Polymeric FBE	Dobbie	1 Nov 2016

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Nominal Size (DN)	Model Identification	Nominal Pressure (PN)	Joint Designation	Product Type	Product Description	Coating / Lining	Brand Name	Date Endorsed
250-100	2T250S100S	35	Soc-Soc-Soc	Tee	250mm x 100mm Soc/Soc Tee	Polymeric FBE	Dobbie	1 Nov 2016
250-100	2T250F100F	16	FL-FL	Tee	250mm x 100mm FI/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
250-100	2R250F100F	35	FL-FL	Taper	250mm x 100mm FI/FI Taper	Polymeric FBE	Dobbie	1 Nov 2016
250-100	2T250S100F	16	Soc-Soc-FL	Tee	250mm x 100mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
250-100	2T250S100X	16	Soc-Soc-FL	Scour Tee	250mm x 100mm Soc/FI Scour Tee	Polymeric FBE	Dobbie	1 Nov 2016
250-100	2R250S100S	35	Soc-Soc	Taper	250mm x 100mm Soc/Soc Taper	Polymeric FBE	Dobbie	1 Nov 2016
250-150	2R250F150F	16	FL-FL	Taper	250mm x 150mm FI/FI Taper	Polymeric FBE	Dobbie	1 Nov 2016
250-150	2T250S150F	16	Soc-Soc-FL	Tee	250mm x 150mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
250-150	2R250S100S	35	Soc-Soc	Taper	250mm x 150mm Soc/Soc Taper	Polymeric FBE	Dobbie	1 Nov 2016
250-150	2T250F150F	16	FL-FL	Tee	250mm x 150mm FI/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
250-150	2T250S150S	35	Soc-Soc-Soc	Tee	250mm x 150mm Soc/Soc Tee	Polymeric FBE	Dobbie	1 Nov 2016
250-200	2T250S200S	35	Soc-Soc-Soc	Tee	250mm x 200mm Soc/Soc Tee	Polymeric FBE	Dobbie	1 Nov 2016
250-200	2T250F200F	16	FL-FL	Tee	250mm x 200mm FI/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016

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Nominal Size (DN)	Model Identification	Nominal Pressure (PN)	Joint Designation	Product Type	Product Description	Coating / Lining	Brand Name	Date Endorsed
250-200	2R250S200S	35	Soc-Soc	Taper	250mm x 200mm Soc/Soc Taper	Polymeric FBE	Dobbie	1 Nov 2016
250-200	2R250F200F	16	FL-FL	Taper	250mm x 200mm FI/FI Taper	Polymeric FBE	Dobbie	1 Nov 2016
250-200	2T250S200F	16	Soc-Soc-FL	Tee	250mm x 200mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
250-250	2T250S250S	35	Soc-Soc-Soc	Tee	250mm x 250mm Soc/Soc Tee	Polymeric FBE	Dobbie	1 Nov 2016
250-250	2T250S250F	16	Soc-Soc-FL	Tee	250mm x 250mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
250-250	2T250F250F	16	FL-FL	Tee	250mm x 250mm FI/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
250-80	2T250S080F	16	Soc-Soc-FL	Tee	250mm x 80mm Soc/FI Tee	Polymeric FBE	Dobbie	1 Nov 2016
80x100 Long	2C080FF100	16	FL-FL	Hydrant Riser	80mm x 100mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016
80x150 Long	2C080FF150	16	FL-FL	Hydrant Riser	80mm x 150mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016
80x225 Long	2C080FF225	16	FL-FL	Hydrant Riser	80mm x 225mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016
80x300 Long	2C080FF300	16	FL-FL	Hydrant Riser	80mm x 300mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016
80x375 Long	2C080FF375	16	FL-FL	Hydrant Riser	80mm x 375mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016
80x450 Long	2C080FF450	16	FL-FL	Hydrant Riser	80mm x 450mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016

**Licence No:** SMK02809/1

**Issued Date:** 16 August 2019

This schedule supersedes all previously issued schedules



\* 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") 680 George Street, Sydney NSW 2000, GPO Box 5420 Sydney NSW 2001. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. Refer to the Schedule for the list of product models.

## SCHEDULE TO STANDARDSMARK LICENCE

Nominal Size (DN)	Model Identification	Nominal Pressure (PN)	Joint Designation	Product Type	Product Description	Coating / Lining	Brand Name	Date Endorsed
80x525 Long	2C080FF525	16	FL-FL	Hydrant Riser	80mm x 525mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016
80x600 Long	2C080FF600	16	FL-FL	Hydrant Riser	80mm x 600mm Hydrant Riser	Polymeric FBE	Dobbie	1 Nov 2016

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End of Record

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**Licence No:** SMK02809/1

**Issued Date:** 16 August 2019

This schedule supersedes all previously issued schedules



\* 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") 680 George Street, Sydney NSW 2000, GPO Box 5420 Sydney NSW 2001. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. Refer to the Schedule for the list of product models.



# STANDARDSMARK LICENCE

SAI Global hereby grants:

## MIL Industries & MIL Trading Private Ltd

25A Industrial Estate, Ambattur, Chennai, India

### StandardsMark Licence

Manufactured to:

**AS/NZS 4158:2003 - Thermal-bonded polymeric coatings on valves and fittings for water industry purposes**

"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.

**Licence No:** SMKP21750

**Issued :** 29 February 2020

**Expires :** 22 July 2024

**Originally Certified :** 23 July 2009

**Current Certification :** 28 February 2020

Heather Mahon  
General Manager Technical Services  
SAI Global Assurance



Australian  
Standard

JAS-ANZ



[WWW.JAS-ANZ.ORG/REGISTER](http://WWW.JAS-ANZ.ORG/REGISTER)

\* For details of manufacture, refer to the licensee

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## SCHEDULE TO STANDARDSMARK LICENCE

**SAI Global hereby grants:**

### **MIL Industries & MIL Trading Private Ltd**

25A Industrial Estate, Ambattur, Chennai, India

StandardsMark Licence

Manufactured to:

**AS/NZS 4158:2003 - Thermal-bonded polymeric coatings on valves and fittings for water industry purposes**

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

Model Identification	Model Name	Brand Name	Product Description	Product Type	Application	Colour	Date Endorsed
Mil Industries	Mil Industries	Thermal Bonding Polymeric Coatings On Valves And Fittings.	N/A	Requirements For Factory-Applied Coating Only.	Valves And Fittings For Water Industry Purposes	All	28 Feb 2020

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End of Record

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**Licence No:** SMKP21750

**Issued Date:** 29 February 2020

This schedule supersedes all previously issued schedules



\* For details of manufacture, refer to the licensee

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## **APPENDIX C - SUPPLIER CONTACTS**

### **The Dobbie Dico Meter Co. (WA) Pty. Ltd.**

430 Victoria Road

Malaga, W.A. 6090

Phone: 08 9249 7000

Email: Phil Bardon – [philb@dobbie.com.au](mailto:philb@dobbie.com.au)

Web site: [www.dobbie.com.au](http://www.dobbie.com.au)



**WATER SERVICES**  
ASSOCIATION OF AUSTRALIA

**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)