



# David Moss Group Pty Ltd

PRODUCT APPRAISAL REPORT 1922 Issue 3

PE100 Spigot Fittings

**AS/NZS 4129:2020 – Fittings for polyethylene (PE) pipes for pressure applications**

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Name/Title	Organisation	Date
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WSAA Expert Panel	WSAA	18 December 2019
Peter Pittard, WSAA Consultant	WSAA	23 November 2019
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Carl Radford, Product Appraisal Manager	WSAA	19 December 2019
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Peter Pittard, WSAA Consultant	WSAA	28 February 2022
Carl Radford, Product Appraisal Manager	WSAA	28 February 2022

## 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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## CONTENTS

1 EXECUTIVE SUMMARY .....	5
1.1 Recommendations .....	5
2 THE APPLICANT.....	5
2.1 The Manufacturer.....	5
3 THE PRODUCT .....	6
4 SCOPE OF THE APPRAISAL.....	8
5 APPRAISAL CRITERIA.....	8
5.1 Quality Assurance Requirements .....	8
5.2 Performance Requirements .....	8
6 COMPLIANCE WITH APPRAISAL CRITERIA.....	8
6.1 Compliance with Quality Assurance Requirements .....	8
6.2 Compliance with Performance Requirements.....	8
6.2.1 Polyethylene Material Composition .....	8
6.2.2 Effect on Water.....	9
6.2.3 Type Testing.....	9
7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION .....	9
8 PRODUCT MARKING .....	10
9 PACKAGING AND TRANSPORTATION.....	10
10 PRODUCT WARRANTY .....	10
11 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD-TESTING REPORT.....	11
12 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW.....	11
13 FUTURE WORKS.....	11
14 DISCLAIMER.....	11
14.1 Issue of Report.....	11
14.2 Limits on Reliance on Information and Recommendations.....	11
14.2.1 Disclaimer of liability .....	11
14.2.2 Intellectual Property and other rights.....	12
14.2.3 Need for independent assessment.....	12
14.3 No Updating .....	12
14.4 No Warranty.....	13
APPENDIX A PRODUCT LITERATURE .....	14
APPENDIX B - QUALITY CERTIFICATIONS.....	29
APPENDIX C - SUPPLIER CONTACTS .....	32

## 1 EXECUTIVE SUMMARY

The David Moss Group Pty Ltd is a privately-owned group of companies that can trace its heritage back to 1936. The Group is predominantly focussed on the manufacture and supply of PE and PVC pipe and fittings and underground ventilation. Other companies within the Group provide specialised piping solutions, crushing and screening products and other specialist products and services.

This appraisal is for a range of DAMOS PE100 and PE100 High Stress Crack Resistant (HSCR) injection moulded and fabricated spigot fittings including pre-formed sweep bends for electrofusion or butt-welding applications. The range includes stub flanges, full face flanges, concentric and eccentric reducers, end caps, valve spacers, sweep bends, tees and junctions in sizes from DN 20 to DN 1200 with pressure classifications from PN6.3 to PN25, depending on product type. The stub flanges and reducers are available with long or short spigots.

See Tables 1 and 2 for details of the product range.

This Issue 3 is to clarify that the complete fittings range is available using either PE100 or PE100 HSCR resins and to include a range of fabricated fittings. Quality certification details have also been updated.

Issue 2 was to include additional approved PE100 resins including high stress crack resistant (HSCR) resins.

The fittings are manufactured by David Moss Pty Ltd at their Neerabup facility in WA. The fabricated fittings are formed using either PE100 or PE100 HSCR pipe manufactured by David Moss to AS/NZS 4130, which is covered by WSAA Product Appraisal No. 1414.

The PE spigot fittings have ISO Type 5 StandardsMark product certification to AS/NZS 4129:2020 *Fittings for polyethylene (PE) pipes for pressure applications*.

David Moss Group Pty Ltd has a quality management system certified to ISO 9001:2015.

The DAMOS PE fittings described within this appraisal meet the requirements of WSA PS 208 *Plastics Fittings for Pressure Applications with PE Pipe – Drinking Water, Non-Drinking 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 DAMOS PE100 and PE100 HSCR injection moulded and fabricated fittings, as detailed in this report, for use in water supply and sewerage, (non-pressure, pressure and vacuum systems) provided the design, installation and acceptance testing are in accordance with the relevant standards, WSAA Codes and the manufacturer's requirements.

## 2 THE APPLICANT

The applicant is David Moss Group Pty Ltd.

### 2.1 The Manufacturer

David Moss Group Pty Ltd is a privately-owned group of companies that can trace its heritage back to 1936. The Group is predominantly focussed on the manufacture and supply of PE and PVC pipe and fittings and underground ventilation products. Other Group companies provide specialised piping solutions, crushing and screening products and other specialist products and services.

David Moss Corporation Pty Ltd was incorporated in Perth in 1960 and currently operates at two manufacturing sites in Australia. The sites, located in Neerabup WA and Geebung Queensland, manufactures PE and PVC pipes and fittings for the water, gas, industrial, mining and agricultural segments.

The Group has HDPE and PVC pipe extrusion fabrication and injection moulding capabilities for the manufacture of associated fittings.

Each site has its own laboratory and testing facilities.

### 3 THE PRODUCT

DAMOS PE100 injection moulded and fabricated fittings are suitable for use with polyethylene (PE) pipes manufactured in accordance with AS/NZS 4130 - *Polyethylene (PE) pipes for pressure applications* for conveyance of drinking water, recycled water and sewage in above ground and below ground applications.

This appraisal is for a range of DAMOS PE100 and PE100 High Stress Crack Resistant (HSCR) injection moulded and fabricated spigot fittings including pre-formed sweep bends for electrofusion or butt-welding applications. The range includes stub flanges, full face flanges, concentric and eccentric reducers, end caps, valve spacers, sweep bends, tees and junctions in sizes from DN 20 to DN 1200 with pressure classifications from PN6.3 to PN25, depending on product type.

The stub flanges and reducers are available with long or short spigots. Fittings with long spigots are suitable for electrofusion or butt-welding and fittings with short spigots are suitable only for butt welding.

PE100 HSCR material resists crack initiation which may be caused by surface damage during handling and installation or point loads during service. The high resistance to slow crack growth can extend the service life of a pipeline significantly.

See Tables 1 and 2 for details of the product range.

**TABLE 1**

#### **DAMOS MOULDED FITTINGS**

<b>Product</b>	<b>DN</b>	<b>Pressure Class</b>
Stub Flanges Short Spigot and Long Spigot	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000	6.3, 8, 10, 12.5, 16, 20, 25
Full Face Flanges Short Spigot	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200	6.3, 8, 10, 12.5, 16, 20, 25
Reducer, Concentric and Eccentric Short Spigot and Long Spigot	50-32, 50-40, 63-32, 63-40, 63-50, 75-32, 75-40, 75-50, 75-63, 90-40, 90-50, 90-63, 90-75, 110-50, 110-63, 110-75, 110-90, 125-50, 125-63, 125-75, 125-90, 125-110, 140-50, 140-63, 140-75, 140-90, 140-110, 140-125, 160-50, 160-63, 160-75, 160-90, 160-110, 160-125, 160-140, 180-90, 180-110, 180-125, 180-140, 180-160, 200-75, 200-90, 200-110, 200-125, 200-140, 200-160, 200-180, 225-90, 225-110, 225-125, 225-140, 225-160, 225-180, 225-200, 250-90, 250-110, 250-125, 250-140, 250-160, 250-180, 250-200, 250-225, 280-90, 280-110, 280-125, 280-140, 280-160, 280-180, 280-200, 280-225, 280-250, 315-90, 315-110, 315-125, 315-140, 315-160,	6.3, 8, 10, 12.5, 16, 20, 25

Product	DN	Pressure Class
	315-180, 315-200, 315-225, 315-250, 315-280, 355-90, 355-110, 355-125, 355-140, 355-160, 355-180, 355-200, 355-225, 355-250, 355-280, 355-315, 400-160, 400-180, 400-200, 400-225, 400-250, 400-280, 400-315, 400-355, 450-160, 450-180, 450-200, 450-225, 450-250, 450-280, 450-315, 450-400 500-200, 500-225, 500-250, 500-280, 500-315, 500-355, 500-400, 500-450 560-250, 560-280, 560-315, 560-355, 560-400, 560-450, 560-500 630-250, 630-280, 630-315, 630-355, 630-400, 630-450, 630-500, 630-560 710-355, 710-400, 710-450, 710-500, 710-560, 710-630, 800-400, 800-450, 800-500, 800-560, 800-630, 800-710 1000-500, 1000-560, 1000-630, 1000-710, 1000-800. 1200-1000, 1200-630, 1200-710, 1200-800, 1200-900.	
End Caps	20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000	6.3, 8, 10, 12.5, 16, 20, 25
Valve Spacers	110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710.	6.3, 8, 10, 12.5, 16, 20, 25

TABLE 2

## DAMOS FABRICATED FITTINGS

Product	DN	Pressure Class
Sweep Bends 30° 45° 60° 90°	20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000	6.3, 8, 10, 12.5, 16, 20, 25
Equal Tees	110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000	6.3, 8, 10, 12.5, 16, 20, 25
Reducing Tees	630x110, 125, 160, 200, 225, 250, 280, 315, 355, 400, 450, 530 710x 200, 225, 250, 280, 315, 355, 400, 450 800x200, 225, 250, 280, 315, 355, 400, 450, 630 900x280, 315, 355, 400, 450, 630 1000x200, 225, 280, 315, 400, 450, 500, 630 1200x200, 400, 630	10, 12.5, 16, 20, 25
Scour Tees Flange Branch	250x63, 110, 125 280x63, 110, 125 315x63, 110, 125, 160 355x63, 110, 125, 160 400x63, 110, 125, 160, 180, 200 450x63, 110, 125, 160, 180, 200 500x63, 110, 125, 160, 180, 200 560x63, 110, 125, 160, 180, 200, 315 630x63, 110, 125, 160, 180, 200, 315	10, 12.5, 16, 20, 25
Junctions Y 45° 60°	110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000	6.3, 8, 10, 12.5, 16, 20

## 4 SCOPE OF THE APPRAISAL

This Scope of appraisal is for a range of DAMOS PE100 or PE100 High Stress Crack Resistant (HSCR) injection moulded and fabricated fittings for electrofusion or butt-welding application in sizes from DN 20 to DN 1200 with pressure classifications from PN6.3 to PN25, depending on product type, as detailed in Section 3 and included in the product schedule of the ISO Type 5 StandardsMark product certificate. See Appendix B.

## 5 APPRAISAL CRITERIA

### 5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts polyethylene fittings for pressure applications manufactured in compliance with AS/NZS 4129:2020 *Fittings for polyethylene (PE) pipes for pressure applications* and duly certified by means of an ISO Type 5 product certification scheme undertaken by a JAS-ANZ accredited Certification 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

DAMOS PE fittings have been appraised for compliance with AS/NZS 4129:2020 *Fittings for polyethylene (PE) pipes for pressure applications*.

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

The following Product Specification is relevant to this application:

WSA PS 208 *Plastics Fittings for Pressure Applications with PE Pipe – Drinking Water, Non-Drinking Water Supply and Sewerage*.

<https://www.wsaa.asn.au/shop/product/53481>

## 6 COMPLIANCE WITH APPRAISAL CRITERIA

### 6.1 Compliance with Quality Assurance Requirements

David Moss Group has submitted the following quality certificates:

- ISO 9001:2015 Certificate of Registration No. QEC 3125 issued to David Moss Group Pty Ltd by SAI-Global.
- AS/NZS 4129:2020 ISO Type 5 StandardsMark Product Certification Licence No. SMK26269 issued to David Moss Corporation Pty Ltd by SAI-Global.

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

### 6.2 Compliance with Performance Requirements

#### 6.2.1 Polyethylene Material Composition

AS/NZS 4129 requires PE compounds used in the manufacture of PE injection moulded fittings to comply with AS/NZS 4131.



David Moss has provided documentation to indicate that the following black PE100 resins are utilised for the manufacture of the fittings: SCG H1000PC, IRPC P901BK, Lyondell Basell CRP100.

Qenos HCR193B and Lyondell Basell CRP100 RCD are utilised for production of High Stress Crack Resistant (HSCR) fittings.

These PE compounds are all listed in the PIPA Industry Guidelines POP004 *Polyethylene Pipe and Fittings Compounds* as complying with AS/NZS 4131.

### 6.2.2 Effect on Water

The PE compounds used for moulding the fittings, as detailed in 6.2.1, are listed in POP004 and includes confirmation that certification to AS/NZS 4020 is current.

### 6.2.3 Type Testing

David Moss Group has submitted copies of type test reports conducted by Plumbing Testing Laboratory (NATA Accreditation No. 19549) and ExcelPlas (NATA Accreditation No. 19549) to demonstrate compliance with the performance requirements of AS/NZS 4129:2020 as shown in Table 2. The tests were completed on DN 63 and DN 125 stub flanges, end caps and reducers as directed by SAI-Global.

Tests for infiltration, leak-tightness under pressure when subjected to bending and pull-out tests were also completed for the joints and dimensional checks were completed for spigot dimensions of the sweep bends

Please note that AS/NZS 4129 does not nominate specific fittings to be tested to demonstrate compliance.

**TABLE 2: TYPE TEST RESULTS**

Property	Test Method	Test Parameters	Requirements	Results
Hydrostatic strength at 20° C	ISO 1167	12.4 MPa Hoop Stress	≥ 100 hours	Pass
Hydrostatic strength at 80° C	ISO 1167	5.4 MPa Hoop Stress	≥ 165 hours	Pass
Hydrostatic strength at 80° C	ISO 1167	5 MPa Hoop Stress	≥ 1000 hours	Pass
Decohesive strength	ISO 13953	23° C ± 2° C	≤ 33.3% brittle failure	Pass
Thermal stability	ISO TR 10837	200° C	> 20 mins	Pass
Melt Flow Rate	ISO 1133	190°C/5kg	± 20% of compound	Pass

## 7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

Polyethylene pipe systems have been commonly used in the Australian urban water industry for many years.

Electrofusion welding and butt fusion processes may be used for joining pipe-to-pipe or fitting-to-pipe. All welding is required to be performed by welders who have successfully completed training by a Registered Training Organisation, endorsed by the Plastics Industry Pipe Association for the relevant welding method(s).

The Plastics Industry Pipe Association provides technical guidelines for electrofusion welding in the following documents.

- (a) POP001 *Electrofusion Jointing of Pipe and fittings for Pressure Applications*
- (b) POP003 *Butt Fusion Jointing of PE Pipes and Fittings – Recommended Parameters.*

POP001 contains recommendations for equipment required, jointing, maintenance, servicing and calibration procedures, training and records to be kept.

POP003 is a guide to the butt fusion of polyethylene pipe using AS/NZS 4130 material as a basis, recommending the butt fusion procedures and parameters as specified in ISO 21307.

Copies of these documents can be downloaded from the PIPA website at [www.pipa.com.au](http://www.pipa.com.au)

Polyethylene pipe systems should be installed in accordance with AS/NZS 2033:2008 *Installation of polyethylene pipe systems*.

PE fittings should be stored in accordance with the storage requirements of POP005 *Packaging, handling and storage of polyethylene pipe and fittings*.

## 8 PRODUCT MARKING

DAMOS PE spigot fittings are marked in accordance with the requirements of AS/NZS 4129 including the following:


- Manufacturers Name or trademark: DAMOS
- Date or Batch Code:
- Nominal Size: e.g., DN315
- Identification, of material, including grade and type: e.g., PE100 SDR11
- Identification of high stress crack resistant material: HSCR
- PN classification: e.g., PN16
- The number of this standard: AS/NZS 4129
- Product certification mark:  LIC 26269



FIGURE 1 EXAMPLES OF MARKING

## 9 PACKAGING AND TRANSPORTATION

DAMOS PE fittings are packaged in accordance with AS/NZS 2033 and PIPA guidelines. The products are packed onto pallets with cardboard padding prior to strapping before the whole pallet is wrapped in plastic.



FIGURE 2 EXAMPLES OF PACKAGING

## 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 David Moss Group Pty Ltd's warranty is included in their terms and conditions of sale.

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

David Moss has been supplying PE pipe and fittings to Australian Water Agencies for many years.

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

No issues were identified during the peer review process.

## **13 FUTURE WORKS**

No future works items 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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### **14.2.3 Need for independent assessment**

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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. 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.

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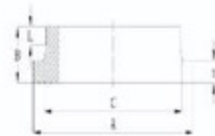
**14.4 No Warranty**

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

### STUB FLANGE SHORT SPIGOT FITTING

SIZE	B	L	t	A	C	PRODUCT CODE
63	60	22	20	102	78	SF63
75	60	22	20	122	92	SF75
90	60	22	20	128	103	SF90
110	60	22	20	160	124	SF110
125	65	23	25	160	128	SF125
140	65	23	25	192	155	SF140
160	65	23	25	217	168	SF160
180	65	23	25	217	180	SF180
200	75	23	30	270	225	SF200
225	80	24	30	270	230	SF225
250	80	24	35	334	276	SF250
280	85	25	35	334	290	SF280
315	90	28	40	380	330	SF315
355	100	30	40	444	364	SF355
400	100	27	40	495	417	SF400
450	110	30	60	545	470	SF450
500	125	30	60	596	520	SF500
560	130	30	60	657	582	SF560
630	130	30	60	710	640	SF630
710	130	30	60	800	735	SF710
800	130	30	60	920	825	SF800
900	130	30	60	1050	940	SF900
1000	130	30	60	1330	1025	SF1000
1200	130	30	60	1330	1245	SF1200



### STUB FLANGE LONG SPIGOT FITTING

SIZE	B	L	t	A	C	PRODUCT CODE
25	73	36	9	54	33	SFLS25
32	73	38	11	65	40	SFLS32
40	79	41	12	73	50	SFLS40
50	88	45	12	84	61	SFLS50
63	98	50	15	95	75	SFLS63
75	107	56	17	108	89	SFLS75
90	121	63	20	128	103	SFLS90
110	126	68	20	160	124	SFLS110
125	137	75	25	160	128	SFLS125
140	142	80	25	192	155	SFLS140
160	147	85	25	217	168	SFLS160
180	167	95	25	217	180	SFLS180
200	174	100	30	270	225	SFLS200
225	179	105	30	270	230	SFLS225
250	183	110	35	334	276	SFLS250
280	199	120	35	334	290	SFLS280
315	196	125	40	380	330	SFLS315
355	214	135	40	444	364	SFLS355
400	242	145	40	495	417	SFLS400



## FULL FACED STUB FLANGE

SIZE	PRODUCT CODE
63	SFFF63
75	SFFF75
90	SFFF90
110	SFFF110
125	SFFF125
140	SFFF140
160	SFFF160
180	SFFF180
200	SFFF200
225	SFFF225
250	SFFF250
280	SFFF280
315	SFFF315
355	SFFF355
400	SFFF400
450	SFFF450
500	SFFF500
560	SFFF560
630	SFFF630
710	SFFF710
800	SFFF800
900	SFFF900
1000	SFFF1000
1200	SFFF1200





**SHORT SPIGOT REDUCER CONCENTRIC - PE100**

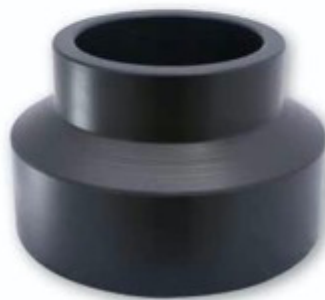
SIZE	L	PRODUCT CODE
63/32	60	R6032C
75/63	85	R7563C
90/63	75	R9063C
90/75	75	R9075C
110/63	105	R11063C
110/75	95	R11075C
110/90	100	R11090C
125/63	120	R12563C
125/75	100	R12575C
125/90	110	R12590C
125/110	102	R125110C
140/75	110	R14075C
140/90	110	R14090C
140/110	110	R140110C
140/125	110	R140125C
160/90	140	R16090C
160/110	128	R160110C
160/125	122	R160125C
160/140	120	R160140C
180/160	130	R180160C
200/140	120	R200140C
200/160	120	R200160C
225/140	115	R225140C
225/160	115	R225160C
225/200	115	R225200C
250/200	115	R250200C
250/225	115	R250225C
280/200	115	R280200C
280/225	115	R280225C
280/250	115	R280250C
315/200	120	R315200C
315/250	120	R315250C
315/280	120	R315280C
355/110	120	R355110C
355/125	120	R355125C
355/140	120	R355140C
355/160	120	R355160C
355/200	120	R355200C
355/225	120	R355225C
355/250	120	R355250C
355/280	120	R355280C
355/315	120	R355315C
400/200	125	R400200C
400/250	125	R400250C
400/280	125	R400280C





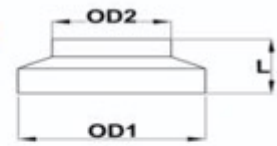
**SHORT SPIGOT REDUCER CONCENTRIC - PE100  
(CONT.)**

SIZE	L	PRODUCT CODE
400/315	125	R400315C
450/315	125	R450315C
450/355	125	R450355C
450/400	125	R450400C
500/355	125	R500355C
500/400	125	R500400C
500/450	125	R500450C
630/400	125	R630400C
630/450	125	R630450C
630/500	125	R630500C
710/500	125	R710500C
710/560	125	R710560C
710/630	125	R710630C
800/560	125	R800560C
800/630	125	R800630C
800/710	125	R800710C
1000/630	125	R1000630C
1000/710	125	R1000710C
1000/800	125	R1000800C
1000/900	125	R1000900C



### LONG SPIGOT REDUCER ECCENTRIC - PE100

SIZE	L	PRODUCT CODE
50/32	100	R5032E
50/40	100	R5040E
63/32	100	R6332E
63/40	100	R6340E
63/50	100	R6350E
75/50	100	R7550E
75/63	100	R7563E
90/63	100	R9063E
90/75	100	R9075E
110/63	100	R11063E
110/90	100	R11090E
125/63	100	R12563E
125/90	100	R12590E
125/110	100	R125110E
140/125	100	R140125E
160/90	110	R16090E
160/110	110	R160110E
160/125	110	R160125E
160/140	110	R160140E
180/90	110	R18090E
180/125	110	R180125E
180/160	110	R180160E
200/160	115	R200160E
200/180	115	R200180E
225/160	115	R225160E
225/180	115	R225180E
225/200	115	R225200E
250/200	120	R250200E
250/225	120	R250225E

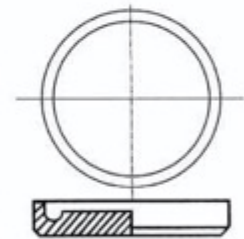


Long spigot fittings for electro fusion and butt welding.



**PE END CAPS**

OD	PRODUCT CODE
20	EC20
25	EC25
32	EC32
40	EC40
50	EC50
63	EC63
75	EC75
90	EC90
110	EC110
125	EC125
140	EC140
160	EC160
180	EC180
200	EC200
225	EC225
250	EC250
280	EC280
315	EC315
355	EC355
400	EC400
450	EC450
500	EC500
560	EC560
630	EC630
710	EC710
800	EC800
900	EC900
1000	EC1000
1200	EC1200



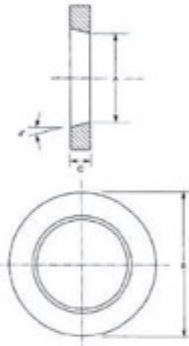
Short spigot fittings for butt welding.

Available in SDR 11 & 17.



### PE BUTTERFLY VALVE SPACERS

BUTTERFLY VALVE NB	PIPE OD	SDR9				SDR11				PRODUCT CODE
		A	B	C	D°	A	B	C	D°	
100	110	84	160	14	30	89	160	14	20	SPACER110
125	125	96	192	25	30	102	192	25	25	SPACER125
125	140	106	192	25	25	114	192	25	20	SPACER140
150	160	123	213	25	30	130	213	25	25	SPACER160
200	200	154	270	40	35	163	270	40	30	SPACER200
200	225	173	270	40	25	183	270	25	25	SPACER225
250	250	192	334	60	30	203	334	60	25	SPACER250
250	280	215	334	40	30	228	334	30	30	SPACER280
300	315	242	380	60	35	256	380	60	30	SPACER315
350	355	273	444	100	25	289	444	60	30	SPACER355
400	400	308	495	100	25	325	492	100	25	SPACER400
450	450	346	545	100	30	366	545	100	25	SPACER450
500	500	385	602	100	30	407	602	100	25	SPACER500
600	630	-	-	-	-	513	708	55	20	SPACER630
700	710	-	-	-	-	-	-	-	-	SPACER710
800	800	-	-	-	-	-	-	-	-	SPACER800
1000	1000	-	-	-	-	-	-	-	-	SPACER1000



Butterfly valve nominal bore size.

Pipe outside diameter, PN and SDR rating to be specified when ordering.



### PE BUTTERFLY VALVE SPACERS

BUTTERFLY VALVE NB	PIPE OD	SDR13.6				SDR17				PRODUCT CODE
		A	B	C	D°	A	B	C	D°	
100	110	-	-	-	-	-	-	-	-	SPACER110
125	125	106	192	25	25	110	192	25	25	SPACER125
125	140	106	192	25	25	-	-	-	-	SPACER140
150	160	119	192	25	15	141	213	25	20	SPACER160
200	200	136	213	25	20	176	270	25	30	SPACER200
200	225	170	270	40	25	-	-	-	-	SPACER225
250	250	191	270	25	20	220	334	30	30	SPACER250
250	280	212	334	30	35	246	334	30	20	SPACER280
300	315	238	334	30	25	277	380	30	30	SPACER315
350	355	268	380	40	30	312	444	40	30	SPACER355
400	400	302	444	60	25	352	495	40	30	SPACER400
450	450	340	495	60	30	396	545	60	30	SPACER450
500	500	382	545	60	30	440	602	50	25	SPACER500
600	630	425	602	50	30	-	-	-	-	SPACER630
700	710	535	708	55	25	625	812	100	25	SPACER710
800	800	603	812	100	35	704	948	100	30	SPACER800
900	1000	680	948	140	30	880	1136	140	30	SPACER900
1000	1000	904	1156	140	30	924	1136	100	30	SPACER1000



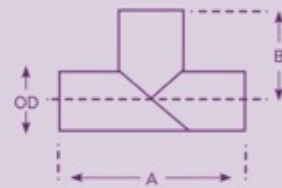
BUTTERFLY VALVE NB	PIPE OD	SDR21				SDR26				PRODUCT CODE
		A	B	C	D°	A	B	C	D°	
100	110	-	-	-	-	-	-	-	-	SPACER110
125	125	112	192	25	20	-	-	-	-	SPACER125
125	140	-	-	-	-	-	-	-	-	SPACER140
150	160	-	-	-	-	-	-	-	-	SPACER160
200	200	180	270	25	25	185	270	25	25	SPACER200
200	225	-	-	-	-	-	-	-	-	SPACER225
250	250	225	334	30	25	231	334	30	25	SPACER250

BUTTERFLY VALVE NB	PIPE OD	SDR33				PRODUCT CODE
		A	B	C	D°	
100	110	-	-	-	-	SPACER110
125	125	-	-	-	-	SPACER125
125	140	-	-	-	-	SPACER140
150	160	-	-	-	-	SPACER160
200	200	188	270	25	20	SPACER200
200	225	-	-	-	-	SPACER225
250	250	235	334	30	25	SPACER250
250	280	-	-	-	-	SPACER280
300	315	-	-	-	-	SPACER315
350	355	334	444	40	20	SPACER355
400	400	376	495	40	20	SPACER400
450	450	423	545	40	20	SPACER450
500	500	-	-	-	-	SPACER500
600	630	-	-	-	-	SPACER630
700	710	667	812	60	20	SPACER710
800	800	752	948	60	30	SPACER800
1000	1000	940	1136	100	25	SPACER1000



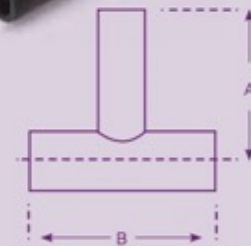


FABRICATED TEE			
SIZE	A	B	PRODUCT CODE
90	400	200	FT90
110	500	250	FT110
125	500	250	FT125
140	500	500	FT140
160	600	500	FT160
200	650	500	FT200
225	650	550	FT225
250	700	650	FT250
280	700	650	FT280
315	800	700	FT315
355	800	700	FT355
400	1000	1100	FT400
450	1000	1100	FT450
500	1200	1200	FT500
560	1200	1200	FT560
630	1200	1200	FT630
710	1500	1700	FT710
800	1600	1700	FT800
900	1700	1700	FT900
1000	1800	1700	FT1000
1200	2400	2100	FT1200



SDR rating to be specified

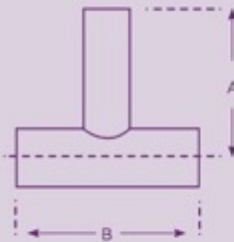
FABRICATED MOULDED REDUCING TEE			
SIZE	A	B	PRODUCT CODE
200/75	355	710	FTP20075
200/90	550	600	FTP20090
200/110	550	600	FTP200110
200/125	550	600	FTP200125
200/140	550	600	FTP200140
200/160	550	600	FTP200160
225/75	550	600	FTP22575
225/90	550	600	FTP22590
225/110	550	600	FTP225110
225/140	550	600	FTP225140
225/160	550	600	FTP225160
250/90	650	600	FTP25090
250/110	650	600	FTP250110
250/125	650	600	FTP250125
250/140	650	600	FTP250140
250/160	650	600	FTP250160
250/200	650	600	FTP250200



SDR rating to be specified

<b>FABRICATED MOULDED REDUCING TEE (CONT.)</b>			
<b>SIZE</b>	<b>A</b>	<b>B</b>	<b>PRODUCT CODE</b>
280/110	650	600	FTP280110
280/125	650	600	FTP280125
280/140	650	600	FTP280140
280/160	650	600	FTP280160
280/200	650	600	FTP280200
280/225	650	600	FTP280225
315/110	700	600	FTP315110
315/90	700	600	FTP31590
315/125	700	600	FTP315125
315/140	700	600	FTP315140
315/160	700	650	FTP315160
315/200	700	650	FTP315200
315/225	700	650	FTP315225
315/250	700	650	FTP315250
355/90	700	650	FTP35590
355/110	700	650	FTP355110
355/125	700	650	FTP355125
355/140	700	650	FTP355140
355/160	700	650	FTP355160
355/200	700	700	FTP355200
355/225	700	700	FTP355225
355/250	700	700	FTP355250
355/280	700	700	FTP355280
400/90	750	800	FTP400090
400/110	750	800	FTP400125
400/125	750	800	FTP400125
400/140	750	800	FTP400140
400/160	750	800	FTP400160
400/200	750	900	FTP400200
400/225	750	900	FTP400225
400/250	750	900	FTP400250
400/280	750	900	FTP400280
400/315	750	900	FTP400315
450/90	750	900	FTP450090
450/110	750	900	FTP450140
450/140	750	900	FTP450140
450/160	750	900	FTP450160
450/200	750	1000	FTP450200
450/225	750	1000	FTP450225
450/250	800	1000	FTP450250
450/280	800	1000	FTP450280
500/315	900	1000	FTP500315
500/355	900	1000	FTP500355
500/400	900	1000	FTP500400
560/200	900	1000	FTP560200
560/225	900	1000	FTP560225
560/250	900	1000	FTP560250

FABRICATED MOULDED REDUCING TEE (CONT.)			
SIZE	A	B	PRODUCT CODE
560/280	1200	1000	FTP560280
560/315	1200	1000	FTP560315
560/355	1200	1000	FTP560355
560/400	1200	1000	FTP560400
630/200	1200	1000	FTP630200
630/225	1200	1000	FTP630225
630/250	1200	1000	FTP630250
630/280	1200	1000	FTP630280
630/315	1200	1100	FTP630315
630/355	1200	1100	FTP630355
630/400	1200	1200	FTP630400
630/450	1200	1200	FTP630450
710/200	1100	1200	FTP710200
710/225	1100	1200	FTP710225
710/250	1100	1200	FTP710250
710/280	1200	1200	FTP710280
710/315	1200	1200	FTP710315
710/355	1200	1200	FTP710355
710/400	1300	1500	FTP710400
710/450	1300	1500	FTP710450
710/500	1300	1500	FTP710500
800/200	1100	1200	FTP800200
800/225	1100	1200	FTP800225
800/250	1200	1200	FTP800250
800/280	1200	1200	FTP800280
800/315	1200	1200	FTP800315
800/355	1300	1200	FTP800355
800/400	1300	1600	FTP800400
800/450	1400	1600	FTP800450
800/500	1400	1600	FTP800500
800/560	1500	1600	FTP800560
800/630	1500	1600	FTP800630
1000/200	1400	1200	FTP1000200
1000/225	1400	1200	FTP1000225
1000/250	1400	1200	FTP1000250
1000/280	1400	1200	FTP1000280
1000/315	1500	1200	FTP1000315
1000/355	1500	1200	FTP1000355
1000/400	1500	1700	FTP1000400
1000/450	1600	1700	FTP1000450
1000/500	1600	1700	FTP1000500
1000/560	1700	1700	FTP1000560
1000/630	1700	1700	FTP1000630
1200/250	1500	1300	FTP1200250
1200/280	1500	1300	FTP1200280
1200/315	1600	1300	FTP1200315
1200/355	1600	1300	FTP1200355
1200/400	1700	1800	FTP1200400
1200/450	1700	1800	FTP1200450
1200/500	1800	1800	FTP1200500
1200/560	1800	1800	FTP1200560
1200/630	1800	1800	FTP1200630



SDR rating to be specified



**SCOUR TEE**

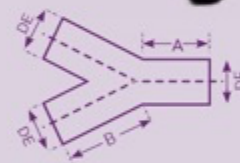
PIPE DN	PIPE BRANCH DN	FITTING LENGTH	BRANCH OFFSET	PRODUCT CODE
125	125	400	200	ST125125
180	125	450	250	ST180125
250	125	600	300	ST250125
315	180	700	600	ST315180
355	180	900	650	ST355180
450	180	900	700	ST450180
560	180	1100	750	ST560180
630	180	1100	800	ST630180
710	225	1100	800	ST710225
800	225	1100	800	ST800225
900	225	1100	800	ST900225
1000	225	1100	800	ST1000225
1200	225	1100	800	ST1200225



SDR rating to be specified.

**BUTT WELDED Y PIECES**

OD	A	B	PRODUCT CODE
90	400	450	FY90
110	400	450	FY110
125	400	450	FY125
140	400	600	FY140
160	400	600	FY160
180	500	750	FY180
200	400	750	FY200
225	400	750	FY225
250	400	900	FY250
280	400	900	FY280
315	400	1050	FY315
355	500	1180	FY355
400	500	1250	FY400
450	600	1300	FY450
500	600	1400	FY500
560	800	1400	FY560
630	800	1400	FY630
710	1700	1500	FY710
800	1700	1500	FY800
900	1700	1500	FY900
1000	1700	1500	FY1000



Made to order fabricated for butt welding.

DE-ratings apply please advise angle.

SDR rating to be specified

BUTT WELDED JUNCTIONS 45°/60°				
SIZE	A	B	C	PRODUCT CODE
90	275	700	425	FJ90
110	275	700	425	FJ110
125	290	745	455	FJ125
140	306	781	475	FJ140
160	330	842	512	FJ160
180	360	950	590	FJ180
200	372	959	587	FJ200
225	425	1080	655	FJ225
250	450	1155	705	FJ250
280	490	1245	755	FJ280
315	525	1340	815	FJ315
355	575	1455	880	FJ355
400	600	1550	950	FJ400
450	625	1625	1000	FJ450
500	650	1700	1050	FJ500
560	800	2200	1400	FJ560
630	800	2300	1500	FJ630
710	900	2600	1700	FJ710
800	1000	2800	1800	FJ800
900	1100	3000	2000	FJ900
1000	1200	3400	2200	FJ1000

Made to order fabricated for butt welding.

DE-ratings apply please advise angle.

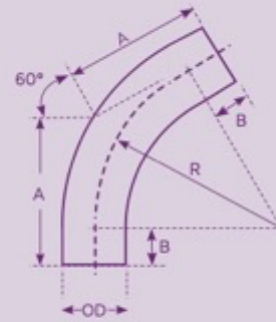
SDR rating to be specified

SWEEP BEND 90°				
OD	A	B	R	PRODUCT CODE
20	170	70	100	FSB2090
25	170	70	100	FSB2590
32	198	70	128	FSB3290
40	230	70	160	FSB4090
50	255	70	175	FSB5090
63	300	75	225	FSB6390
75	405	100	305	FSB7590
90	405	100	305	FSB9090
110	480	100	380	FSB11090
125	530	150	380	FSB12590
140	610	150	460	FSB14090
160	610	160	460	FSB16090
200	735	200	535	FSB20090
225	735	200	535	FSB22590
250	865	200	615	FSB25090
280	865	250	615	FSB28090
315	965	250	715	FSB31590
355	1130	250	780	FSB35590
400	1420	350	1070	FSB40090
450	1450	350	1100	FSB45090
500	1650	400	1250	FSB50090
560	1682	400	1282	FSB56090
630	1715	400	1315	FSB63090
710	2897	710	2100	FSB71090
800	3000	1000	1900	FSB80090
900	3300	1000	2200	FSB90090
1000	3500	1000	2500	FSB100090

SDR rating to be specified

**SWEEP BEND 60°**

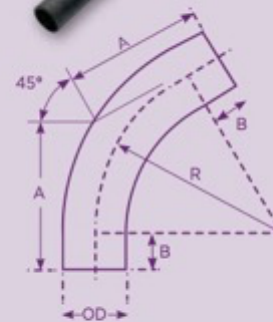
OD	A	B	R	PRODUCT CODE
20	155	100	100	FSB2060
25	155	100	100	FSB2560
32	170	100	128	FSB3260
40	190	100	160	FSB4060
50	200	100	175	FSB5060
63	230	100	225	FSB6360
75	320	150	305	FSB7560
90	320	150	305	FSB9060
110	400	180	380	FSB11060
125	400	180	380	FSB12560
140	465	200	460	FSB14060
160	465	200	460	FSB16060
200	560	250	535	FSB20060
225	560	250	535	FSB22560
250	655	300	615	FSB25060
280	705	350	615	FSB28060
315	810	400	715	FSB31560
355	950	500	780	FSB35560
400	1160	550	1070	FSB40060
450	1185	550	1100	FSB45060
500	1420	700	1250	FSB50060
560	1440	700	1282	FSB56060
630	1460	700	1315	FSB63060
710	1800	900	1562	FSB71060
800	1920	900	1760	FSB80060
900	2140	980	2100	FSB90060
1000	2210	1000	2100	FSB100060



SDR rating to be specified

**SWEEP BEND 45°**

OD	A	B	R	PRODUCT CODE
20	112	70	100	FSB2045
25	112	70	100	FSB2545
32	123	70	128	FSB3245
40	136	70	160	FSB4045
50	153	70	175	FSB5045
63	175	75	225	FSB6345
75	229	100	305	FSB7545
90	229	100	305	FSB9045
110	254	100	380	FSB11045
125	304	150	380	FSB12545
140	343	150	460	FSB14045
160	343	150	460	FSB16045
200	420	200	535	FSB20045
225	420	200	535	FSB22545
250	507	200	615	FSB25045



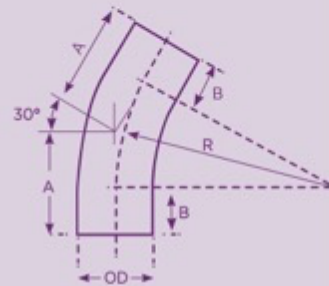
SDR rating to be specified

SWEEP BEND 45° (CONT.)				
OD	A	B	R	PRODUCT CODE
280	507	250	615	FSB28045
315	528	250	715	FSB31545
355	650	250	780	FSB35545
400	690	250	1070	FSB40045
450	750	250	1100	FSB45045
500	830	300	1250	FSB50045
560	860	300	1282	FSB56045
630	920	300	1315	FSB63045
710	1608	797	2100	FSB71045
800	1728	1000	1900	FSB80045
900	1860	1000	2300	FSB90045
1000	1957	1000	2500	FSB100045
1200	2348	1200	3000	FSB120045



SDR rating to be specified

SWEEP BEND 30°				
OD	A	B	R	PRODUCT CODE
20	130	100	100	FSB2030
25	130	100	100	FSB2530
32	134	100	128	FSB3230
40	140	100	160	FSB4030
50	146	100	175	FSB5030
63	160	100	225	FSB6330
75	230	150	305	FSB7530
90	230	150	305	FSB9030
110	280	180	380	FSB11030
125	280	180	380	FSB12530
140	320	200	460	FSB14030
160	320	200	460	FSB16030
200	320	250	535	FSB20030
225	400	250	535	FSB22530
250	460	300	615	FSB25030
280	510	350	615	FSB28030
315	605	400	715	FSB31530
355	710	500	780	FSB35530
400	830	550	1070	FSB40030
450	840	550	1100	FSB45030
500	1030	700	1250	FSB50030
560	1040	700	1282	FSB56030
630	1050	700	1315	FSB63030
710	1310	900	1562	FSB71030
800	1360	900	1760	FSB80030
900	1480	960	2040	FSB90030
1000	1550	1000	2100	FSB100030
1200	1860	1200	2520	FSB120030



SDR rating to be specified

## APPENDIX B - QUALITY CERTIFICATIONS

Copies of the following Quality Certification Certificates are also available from WSAA

### TABLE B1

#### DAVID MOSS GROUP PTY LTD – MANAGEMENT SYSTEMS

26 Turnbull Road Neerabup WA 60 Prosperity Place Geebung QLD	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	QEC 3125
Certifying Agency	SAI-Global
First Date of Certification	11 February 2002
Current Date of Certification	16 April 2021
Expiry Date of Certification	26 April 2024

### TABLE B2

#### DAVID MOSS CORPORATION PTY LTD – PRODUCT CERTIFICATION

26 Turnbull Road Neerabup WA	
Product Standard/Spec.	AS/NZS 4129:2020
Certificate No.	SMK26269
Issuing Certification Body	SAI Global
First Date of Certification	31 May 2019
Current Date of Certification	17 February 2022
Expiry Date of Certification	30 May 2024





# CERTIFICATE OF REGISTRATION

This is to certify that:

**David Moss Group Pty Ltd**

ABN 23 156 543 725

Trading as

**David Moss Corporation Pty Ltd**

ABN 64 009 124 681

26 Turnbull Road Neerabup WA 6031 AUSTRALIA

In association with

**David Moss Queensland Pty Ltd**

ABN 69 159 866 627

60 Prosperity Place Geebung QLD 4034 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 manufacturing and marketing of Polythene and PVC pipes and conduits rubber products for the water supply sewage, drainage electrical mining gas rural and telecommunication industries. The registration also covers the fabrication of Polyethylene pipe fittings and the hire of poly welding equipment.

**Certificate No: QEC3125**

Issued: 16 April 2021

Originally Certified: 11 February 2002

Expires: 26 April 2024

Current Certification: 16 April 2021

Frank Camasta  
Global Head of Technical Services  
SAI Global Assurance



ISO 9001



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

**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://register.saiglobal.com/>



The StandardsMark product schedule contains 24 pages and has therefore not been included in this report. The complete product schedule may be obtained at the following link:

<https://register.saiglobal.com/client/schedule.aspx?setID=SF01&custID=AS012760&appCertNo=SMK26269> or from WSAA.



# STANDARDSMARK LICENCE

**SAI Global hereby grants:**

## David Moss Corporation Pty Ltd

ABN 64 009 124 681

26 Turnbull Road, Neerabup, WA 6031, Australia

### StandardsMark Licence

Manufactured to:

**AS/NZS 4129:2020 - Fittings for polyethylene (PE) pipes for pressure applications**

"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: SMK26269**

**Issued : 17 February 2022**                      **Originally Certified : 31 May 2019**  
**Expires : 30 May 2024**                         **Current Certification : 17 February 2022**



Calin Moldovean  
President, Business Assurance  
SAI Global Assurance

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**Certified Product**  
Australian  
Standard



**JAS-ANZ**  
www.jas-anz.org/register

\* 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 [www.saiglobal.com](http://www.saiglobal.com), for the list of product models.



**SAI GLOBAL**  
INFORM. INSPIRE. IMPROVE.

## **APPENDIX C - SUPPLIER CONTACTS**

### **David Moss Corporation**

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Email: [sales@davidmoss.com.au](mailto:sales@davidmoss.com.au)

### **David Moss Queensland**

60-70 Prosperity Place

Geebung QLD 4034

Phone: 07 3865 8318

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