



Fernco Australia Pty Ltd

PRODUCT APPRAISAL REPORT No 1829

Flexseal Metal Banded Flexible Couplings

AS/NZS 4327: 1995 Metal-banded flexible couplings for low pressure applications

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Peter Pittard, WSAA Consultant	WSAA	2 August 2019
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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 Recommendation	5
2 THE APPLICANT	5
2.1 THE MANUFACTURER	6
3 THE PRODUCT	6
3.1 General.....	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	9
6.2.1 Material Requirements.....	9
6.2.1.1 Metal band, shear ring and fasteners	9
6.2.1.2 Sleeve and adapter bush	9
6.2.1.3 Contamination of Drinking Water.....	9
6.2.2 Performance Tests.....	9
7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION	9
8 PRODUCT MARKING	9
9 PACKAGING AND TRANSPORTATION	10
10 PRODUCT WARRANTY.....	10
11 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD TESTING REPORT	10
12 OUTCOMES OF EXPERT PANEL REVIEW	10
13 FUTURE WORKS.....	10
14 DISCLAIMER.....	10
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	11
14.2.3 Need for independent assessment	11
14.3 No Updating	12
14.4 No Warranty	12
APPENDIX A – PRODUCT LITERATURE	13
APPENDIX B - QUALITY CERTIFICATIONS	19
APPENDIX C – WSA PRODUCT SPECIFICATION	38
APPENDIX D - SUPPLIER CONTACTS.....	39

1 EXECUTIVE SUMMARY

Fernco Australia Pty Ltd is a member of the worldwide Fernco group of companies which manufacture and supply an extensive range of flexible couplings for repair and maintenance of non-pressure pipelines in sectors including highways, housing, utilities and construction.

Flexseal Couplings Ltd is Fernco's European manufacturing and operational hub, based in the UK.

This appraisal is for a range of Flexseal standard and extra wide metal-banded flexible couplings with metal shear rings, manufactured to AS/NZS 4327:1995 *Metal-banded flexible couplings for low pressure applications*.

Metal-banded flexible couplings are designed for joining or repairing pipes of various material with the same or similar nominal internal diameters in low-pressure sewerage or drainage pipeline systems. Where the difference between the inside diameter of the coupling and the outside diameter of the pipe to be joined is greater than 16mm, an appropriate adapter bush is required to facilitate leak proof jointing. Flexseal product literature provides details of available adapter bushes. See Appendix A.

The range of nominal diameters covered by this Appraisal is DN 100 to DN 600 and compatible pipe outside diameter ranges are detailed in Section 3.

Flexseal metal-banded couplings are supplied with Grade 316 stainless steel metal bands, shear rings and fasteners. The sleeve and adapter bushes are manufactured from EPDM rubber.

The couplings are not suitable for drinking water applications.

Flexseal metal-banded flexible couplings have ISO Type 5 product certification to AS/NZS 4327:1995.

Flexseal has a quality management system to ISO 9001:2015.

This Appraisal has determined that Flexseal metal-banded flexible couplings as detailed in Section 3, comply with the requirements of WSA PS 235 *Couplings, metal-banded flexible, for non-pressure application-sewer* and are considered as 'fit for purpose'.

1.1 Recommendation

It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise the Flexseal metal banded flexible couplings, as detailed in this report, for joining low pressure sewerage pipelines provided they are installed in accordance with WSAA Codes and the manufacturers requirements, where specified.

2 THE APPLICANT

Fernco Australia Pty Ltd is a member of the worldwide Fernco group of companies which manufacture and supply an extensive range of flexible couplings for repair and maintenance of non-pressure pipelines in sectors including highways, housing, utilities and construction.

The Fernco group of companies operates in 8 countries worldwide, including Fernco Australia Pty Ltd, with distribution partners in many more. Fernco head office is located in Michigan, USA.

Fernco Australia Pty Ltd distributes a full range of products for plumbing, sewerage and drainage applications across Australia and New Zealand utilising the Fernco and Plumbqwik brands.

2.1 THE MANUFACTURER

Flexseal Couplings Ltd was established in Sheffield UK in 1988 as a designer and manufacturer of flexible couplings for the repair of sewer and drainage systems. The company was acquired by Fernco in 2002 and has now grown to be the manufacturer of the most extensive range of flexible couplings in the world.

3 THE PRODUCT

3.1 General

Flexseal standard and extra wide metal-banded flexible couplings are designed for joining or repairing pipes of various materials with the same or similar nominal internal diameters in low pressure sewerage or drainage pipeline systems.

Flexseal metal-banded couplings are supplied with Grade 316 stainless steel metal bands, shear rings and fasteners. The sleeve and adapter bushes are manufactured from EPDM rubber.

The incorporation of a Grade 316 Stainless Steel shear band on the flexible coupling counters the effect of soil or other superimposed load, to ensure rigidity and integrity of the joint.

Each coupling has a designed compatible pipe OD range and is suitable for connection to a wide range of pipe materials including PVC, PE, Vitrified Clay, Asbestos Cement, concrete, galvanised iron and cast or ductile iron.

Where the difference between the inside diameter of the coupling and the outside diameter of the pipe to be joined is greater than 16mm an appropriate adapter bush is required to facilitate leak proof jointing.

Fabricated adaptor bushes are generally cut from an EPDM rubber strip and formed into a ring using a vulcanised joint. The bushes are available with six different thicknesses (4, 8, 12, 16, 24 or 32mm) to accommodate multiple OD variations. Bushes may also be moulded where the OD differences are significant.

Flexseal product literature provides details of their range of adapter bushes. See Appendix A. It is advisable to consult with Fernco when ordering bushes to ensure compatibility with specific pipe OD's.

The couplings are not suitable for use with drinking water.



FIGURE 1 METAL-BANDED FLEXIBLE COUPLING

The available coupling range includes sizes from DN 100 to DN 600 in both standard and extra wide versions. Extra wide couplings are provided for applications where the pipe end to be joined is not square or where an unusually large gap has to be bridged between the adjoining pipes.

The compatible pipe outside diameters for each coupling is given in Table 1.

TABLE 1
FLEXSEAL METAL - BANDED FLEXIBLE COUPLING RANGE

Part No	Pipe OD Range mm		Width mm	
	Min	Max	Standard	Extra Wide
SC115	100	115	120	-
SC120	105	120	120	-
SC137	122	137	120	-
SC150	125	150	136	-
SC165	140	165	136	-
SC175	150	175	136	-
SC185	160	185	136	-
SC200	175	200	150	-
SC215	190	215	150	-
SC225	200	225	150	300
SC250	225	250	150	300
SC265	240	265	150	300
SC275	250	275	150	300
SC290	265	290	150	300
SC310	285	310	190	300
SC320	295	320	190	300
SC335	310	335	190	300
SC345	320	345	190	300
SC360	335	360	190	300
SC385	360	385	190	300
SC410	385	410	190	300
SC425	400	425	190	300
SC430	405	430	190	300
SC445	420	445	190	300
SC465	440	465	190	300
SC475	450	475	190	300
SC490	465	490	190	300
SC510	485	510	190	300
SC525	500	525	190	300
SC540	515	540	190	300
SC550	525	550	190	300
SC560	535	560	190	300
SC580	555	580	190	300
SC600	575	600	190	300

4 SCOPE OF THE APPRAISAL

The scope of this appraisal covers Flexseal DN 100 to DN 600 standard and extra wide metal-banded flexible couplings and associated adapter bushes, as specified in Section 3 and included in the ISO Type 5 OceanaMark Product Schedule in Appendix B.

5 APPRAISAL CRITERIA

5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts metal-banded flexible couplings manufactured in compliance with AS/NZS 4327:1995 *Metal-banded flexible couplings for low pressure applications* 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 Flexseal metal-banded flexible couplings have been appraised for compliance with AS/NZS 4327:1995 *Metal-banded flexible couplings for low pressure applications*.

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 235 *Couplings, metal-banded flexible, for non-pressure application-sewer*

A copy of the above Product Specification can be found in Appendix C or downloaded from the WSAA website.

6 COMPLIANCE WITH APPRAISAL CRITERIA

6.1 Compliance with Quality Assurance Requirements

Fernco has submitted the following quality certificates

- ISO 9001:2015 Certificate of Registration No. FM 91289 issued to Flexseal Couplings Ltd by BSI.
- AS/NZS 4327:1995 ISO Type 5 OceanaMark Product Certification Licence No. OMK22225 issued to Fernco Australia Pty Ltd by IAPMO R & T Oceana
- BS EN 681-1 ISO Type 5 Kitemark Product Certification Licence for the supplier of the EPDM component by BSI.

Note: Fernco has requested that the EPDM supplier identification remains "commercial-in-confidence".

Copies of the Quality Assurance and Product Certification licences have been included in Appendix B and all certificates are available for downloading from the WSAA Members Website.

6.2 Compliance with Performance Requirements

6.2.1 Material Requirements

AS/NZS 4327 provides allowable material requirements for the coupling components.

6.2.1.1 Metal band, shear ring and fasteners

The coupling metal band, shear ring and fasteners are Grade 316 in accordance with ASTM A240. Material test certificates have been supplied to confirm compliance to the specification.

6.2.1.2 Sleeve and adapter bush

The coupling sleeves and adapter bushes are manufactured from EPDM, complying with AS 1646/EN681-1.

The supplier of the EPDM components has an ISO Type 5 KiteMark certification for BS EN 81-1 *Elastomeric seals - Material requirements for pipe joint seals used in water and drainage applications*.

6.2.1.3 Contamination of Drinking Water

The couplings are not suitable for use with drinking water applications.

6.2.2 Performance Tests

Fernco has submitted copies of Type Test reports to demonstrate conformance to the requirements of AS/NZS 4327.

Australian National Testing Laboratories Pty Ltd (NATA Accreditation No 15698) and Queensland Testing Laboratory Pty Ltd (NATA Accreditation No 14783) successfully completed the type tests specified in AS/NZS 4327. Tests for tensile strength, weld strength, watertightness and shear strength were successfully completed on SC125, SC165, SC225, SC320 and SC620 couplings. These tests qualified the range from DN 100 to DN 600 in accordance with AS/NZS 4327 requirements.

7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

Metal banded couplings are in common use within the industry and installation training is not considered to be necessary. Recommended bolt tightening torques are provided in the Fernco literature in Appendix A.

8 PRODUCT MARKING

The couplings include the following markings.

- Name of Manufacturer: Flexseal
- The product code: e.g. SC275
- Pipe outside diameter range: e.g.250-275
- Type of coupling: Type B
- The number of this standard: AS/NZS 4327
- Specified torque: e.g. 13Nm
- Elastomeric material: EPDM
- Metal material: Stainless Steel Grade 316
- OceanaMark

See Figure 2 for an example of the marking.



FIGURE 2 EXAMPLE OF MARKING

9 PACKAGING AND TRANSPORTATION

The couplings are packed in cartons for transportation. Multiple cartons are packed onto a pallet and shrink wrapped.

10 PRODUCT WARRANTY

The products are covered by the normal commercial and legal requirements of Competition and Consumer Act 2010, which covers manufacture to the relevant standard. Details of Fernco's warranty is included in their terms and conditions of sale

11 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD TESTING REPORT

Metal-banded flexible couplings are considered standard products and installation trials were not required as part of this Appraisal.

12 OUTCOMES OF EXPERT PANEL REVIEW

There are no outstanding items resulting from the expert panel review.

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.

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

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

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

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product appraisal criteria used in preparing this Report may not address all relevant aspects of the Product.

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APPENDIX A – PRODUCT LITERATURE

Global leaders in flexible couplings,
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Flexible Couplings

Standard Coupling



The Standard Coupling range Type B - SC115 to SC620 is WMKT22225 approved to AS/NZS 4327 suitable for private and public sewers.

Flexseal provides the most extensive range of Standard Couplings available in the marketplace and has revolutionised traditional pipe repair methods over the years.

Flexseal Standard Couplings are specifically designed to connect and repair pipes of different materials or sizes used in sewerage, drainage and other underground applications.

When excavation work is required to repair a damaged pipe, Flexseal Standard Couplings will reduce the amount of time required and minor differences in pipe diameter can be accommodated. The combination of a durable design and excellent sealing properties when tightened to the correct torque enable the Flexseal Standard Coupling to provide a reliable seal on rough pipe surfaces e.g. concrete, as well as on smooth surfaces e.g. PVC.

Standard Couplings can be combined with Flexseal Bushes in order to act as an adaptor between pipelines of differing outside diameters. Standard Couplings are made from EN681-1 EPDM rubber and have Grade 1.4401 (316) stainless steel clamps and shearbands.

Flexseal can also supply the product with nitrile sleeves for use with effluent which may be contaminated with hydrocarbons.

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Product specification for SC

Product Code	SC
Description	Flexseal Standard Coupling
Material	EPDM Rubber / Nitrile Rubber
Steel	1,4401 (316) Stainless Steel
Pressure Rating	2.5bar, 36.25psi
Temperature Range	-50°C to 80°C constant, 100°C intermittent
Tightening Torque	SC115-SC200 (6Nm), SC225-SC600 (13Nm)
Standards	AS/NZS 4327 Type B Watermark licence No WMKT 22225 EN681-1
Jetting Pressure	120 bar

Benefits

- Withstands an internal pressure of up to 2.5 bar
- A proven, tested and durable coupling design ensuring a high performance and a reliable connection
- Stainless steel shear band provides excellent resistance to heavy loads and shear forces
- Reduces excavation work
- Shear band ensures joint integrity and pipe alignment under load

Applications

When used individually or combined with bushes, Flexseal Standard Couplings have many applications in the construction, repair and maintenance of pipe systems:

- As a joint for plain ended pipes
- Repair and maintenance of existing pipelines
- Connecting short and cut lengths of pipe
- Making post construction connections to an existing pipeline
- Reconnection of laterals on renovated sewers
- Introducing a rocker pipe outside manholes or structures
- When used with bushes can accommodate differing pipe diameters



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Product Range

Reference No.	Size (mm)	Width (mm)	Thickness (mm)
SC65	50 - 65	90	6
SC75	60 - 75	108	6.5
SC85	70 - 85	70	7
SC95	80 - 95	110	7
SC100	85 - 100	120	7
SC115	100 - 115	120	7
SC120	105 - 120	120	7
SC137	122 - 137	120	7
SC150	125 - 150	136	7
SC165	140 - 165	136	7
SC175	150 - 175	136	7
SC185	160 - 185	136	7
SC200	175 - 200	150	7.5
SC215	190 - 215	150	7.5
SC225	200 - 225	150	7.5
SC250	225 - 250	150	7.5
SC265	240 - 265	150	7.5
SC275	250 - 275	150	7.5
SC290	265 - 290	150	7.5
SC305	280 - 305	190	9
SC310	285 - 310	190	9
SC320	295 - 320	190	9
SC335	310 - 335	190	9
SC345	320 - 345	190	9
SC360	335 - 360	190	9
SC385	360 - 385	190	9
SC410	385 - 410	190	9
SC425	400 - 425	190	9
SC430	405 - 430	190	9
SC445	420 - 445	190	9
SC465	440 - 465	190	9
SC475	450 - 475	190	9
SC490	465 - 490	190	9
SC510	485 - 510	190	9
SC525	500 - 525	190	9
SC540	515 - 540	190	9
SC550	525 - 550	190	9
SC560	535 - 560	190	9
SC580	555 - 580	190	9
SC600	575 - 600	190	9



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Flexible Couplings

Extra Wide Coupling



Flexseal Extra Wide Couplings are used principally for connecting large diameter pipes of size DN1000 and greater, however they are available to suit pipes of size DN200 and above.

Flexseal Extra Wide Couplings are 300mm wide, which allows for greater tolerance in the cutting of the ends of the pipe as well as providing for the movement of pipes due to settlement or thermal effects. They are available in sizes ranging from 200mm to over 3000mm in outside diameter, or larger to suit specific requirements.

Flexseal Extra Wide Couplings are manufactured to meet the specific requirements of the contractor onsite and can be produced to suit any pipe outside diameter.

Extra Wide Couplings are made from EN681-1 EPDM rubber and have Grade 1.4401 (316) stainless steel clamps and shearbands.

Flexseal can also supply this Coupling with nitrile sleeves for use with effluent which may be contaminated with hydrocarbons.

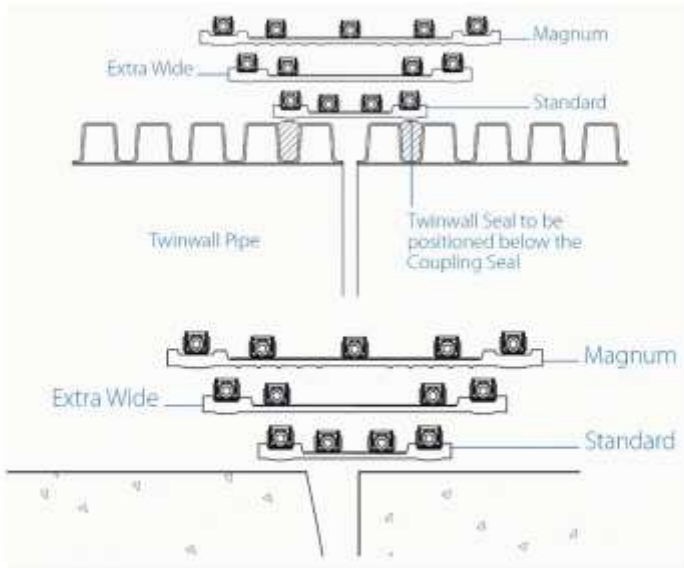
Benefits

- Can be used with all common pipe materials (clay, concrete, cast and ductile iron, asbestos/ cement, plastic or fibreglass)
- Easy to install
- Provide a watertight connection
- Available in any size to meet site requirements
- Unique bolting system on Large Diameter Standard Coupling range

Applications

- Extra Wide couplings are suitable for the connection of pipes of any material, and any outside diameter above 200mm
- SC Extra Wide Couplings are suitable for pipes from 200mm to 620mm OD
- LC Extra Wide couplings over 600mm diameter are manufactured to exact customer requirements

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Product Range

Reference No.	Size (mm)	Width (mm)	Thickness (mm)
SC225W	200 - 225	300	75
SC290W	265 - 290	300	75
SC305W	280 - 305	300	9
SC310W	285 - 310	300	9
SC320W	295 - 320	300	9
SC335W	310 - 335	300	9
SC345W	320-345	300	9
SC360W	335 - 360	300	9
SC370W	345 - 370	300	9
SC385W	360 - 385	300	9
SC395W	370 - 395	300	9
SC410W	385 - 410	300	9
SC425W	400 - 425	300	9
SC430W	405 - 430	300	9
SC445W	420 - 445	300	9
SC450W	425 - 450	300	9
SC465W	440 - 465	300	9
SC470W	445 - 470	300	9
SC475W	450 - 475	300	9
SC490W	465 - 490	300	9
SC510W	485 - 510	300	9
SC525W	500 - 525	300	9
SC540W	515 - 540	300	9
SC550W	525 - 550	300	9
SC560W	535 - 560	300	9
SC570W	545 - 570	300	9
SC580W	555 - 580	300	9
SC600W	575 - 600	300	9
SC620W	595 - 620	300	9
LC600W	600 - 699	300	75
LC700W	700 - 799	300	75
LC800W	800 - 899	300	9
LC900W	900 - 999	300	9
LC1000W	1000 - 1099	300	9
LC1100W	1100 - 1199	300	9
LC1200W	1200 - 1299	300	9
LC1300W	1300 - 1399	300	9
LC1400W	1400 - 1499	300	9
LC1500W	1500 - 1599	300	9
LC1600W	1600 - 1699	300	9
LC1700W	1700 - 1799	300	9
LC1800W	1800 - 1899	300	9
LC1900W	1900 - 1999	300	9
LC2000W	2000 - 2099	300	9

When should I use a wider coupling?

- When a pipe has been badly cut and the end is uneven or not square to the axis of the pipe
- When an unusually large gap has to be bridged between the pipe ends
- For use with larger pipes to bridge gaps created by deflection across the joint
- If the pipe diameter is greater than 1000mm



VE01AUG09

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Flexseal Bushes



Designed for use with couplings when connecting pipes of significantly different outside diameters.

Designed to be used with Flexseal Standard Couplings, Bushes are used when connecting pipes of significantly different outside diameter. Flexseal Bushes can also be used when a reduction or increase in the pipe size is required by the user. The product is available in a range of sizes and thicknesses.

Fabricated Bushes are manufactured from an EN681-1 EPDM rubber strip which is cut and formed into a ring using a vulcanised joint. This extruded strip is stocked in six different thicknesses and can be manufactured to suit specific pipe sizes.

Utilising Flexseal's advanced production processes and techniques, thicker Bushes can be manufactured with a profiled cross section which enhances the seal on rough pipe surfaces and provides a high performance seal on low pressure pipes due to an increase in the effective sealing pressure.

Moulded Bushes are produced using a rubber moulding technique, and are used when there is a significant difference in the outside diameter of the pipes to be connected or if an Adaptor Coupling is not suitable. Flexseal can also supply the product with nitrile sleeves for use with effluent which may be contaminated with hydrocarbons.

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Product Range - Moulded

Product Code	Size Range ID (mm)	Nominal OD (mm)
BC19/17	11 - 16	55
BC17/21	15 - 20	55
BC14/26	20 - 25	55
BC09/37	30 - 37	55
BC06/43	35 - 40	55
BC23/65	55 - 65	110
BC17/76	65 - 76	110
BC08/95	85 - 95	110
BC27/65	55 - 65	120
BC12/95	85 - 95	120
BC06/102	92 - 102	115
BC08/105	95 - 105	120
BC20/105	95 - 105	145
BC08/115	105 - 115	130
BC15/115	105 - 115	145
BC07/132	122 - 132	145
BC12/125	115 - 125	149
BC04/160	150 - 160	168
BC19/132	122 - 132	170
BC13/145	135 - 145	170
BC08/160	150 - 160	176
BC06/178	168 - 178	190
BC12/166	156 - 166	190
BC16/164	154 - 164	196
BC26/168	158 - 168	220
BC08/170	160 - 170	185
BC08/180	170 - 180	196
BC08/200M	190 - 200	215
BC33/205	195 - 205	270
BC08/265	255 - 265	280
BC16/250	240 - 250	282
BC20/335	325 - 335	380

Product Range - Fabricated

Flexseal Bushes can be fabricated in 6 different thicknesses depending on customer requirements - 4mm, 8mm, 12mm, 16mm, 24mm and 32mm.

There are two widths available, 70mm and 85mm.

Bush Size ID (mm)	Bush Thickness (mm)					
	4	8	12	16	24	32
135 - 199	•	•	•	•		
200 - 299	•	•	•	•		
300+	•	•	•	•	•	•

Fabricated bushes of 300mm ID and larger are available in all thicknesses.

Note: Also available in nitrile rubber.

Note: The Fabricated Bush size range is an indication of size for ordering purposes only and not the range of one bush. Bushes are manufactured individually to suit exact customer requirements.

Please consult the Flexseal sales department when ordering Bushes.



Benefits

- Can be manufactured to suit specific site and contractor requirements
- Provide a high performance connection on low pressure pipes
- Versatility of application enables the Bush to be used where a reduction or an increase in pipe size is required
- The use of bushes simplifies an effective and waterproof connection as it equalises the pipe outside diameters to within 5mm

Applications

- Bushes are used when pipe outside diameters are significantly different
- Multiple combinations of Bushes are available
- When ordering a Flexseal Bush, please provide the OD of both pipes
- When used with Flexseal standard couplings complies with EN681-1, AS/NZS 4327, WMKT22225

VERMAG/24

APPENDIX B - QUALITY CERTIFICATIONS

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

TABLE B1 FLEXSEAL COUPLINGS LIMITED- MANAGEMENT SYSTEMS

Quality Systems Standard	ISO 9001:2015
Certification licence no.	FM 91289
Certifying agency	BSI
First date of certification	24 November 2004
Current date of certification	8 February 2022
Expiry date of certification	7 February 2025

TABLE B2 FERNCO AUSTRALIA PTY LTD – PRODUCT CERTIFICATION

Product Standard/Spec	AS/NZS 4327:1995
Certificate No.	OMK22225
Issuing certification body	ApprovalMark International
First date of certification	1 May 2019
Current date of certification	1 May 2019
Expiry date of certification	4 April 2024



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

Fernco Limited
Endeavour Works
Newlands Way
Wombwell
Barnsley
South Yorkshire
S73 0UW
United Kingdom

Holds Certificate Number:

FM 91289

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

**Design, development, manufacture and supply of pipe connection and water management systems.
Repair of pipes, sewers and water infrastructure.**

For and on behalf of BSI:

Matt Page, Managing Director Assurance - UK & Ireland

Original Registration Date: 2004-11-24

Latest Revision Date: 2022-08-03

Effective Date: 2022-02-08

Expiry Date: 2025-02-07

Page: 1 of 2



...making excellence a habit.™

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract.
An electronic certificate can be authenticated [online](#).
Printed copies can be validated at www.bsigroup.com/ClientDirectory

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: +44 345 080 9000
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
A Member of the BSI Group of Companies.

IAPMO R&T OCEANA

1040 Dandenong Road, Carnegie VIC 3163 AUSTRALIA



IAPMO R&T Oceana is a product certification body which inspects and arranges for the independent laboratory testing of samples taken from the manufacturer's stock or from the market or a combination of both, to verify compliance of the requirements of applicable Standards and Specifications. This activity is coupled with periodic surveillance of the certified product taken from the market place or the manufacturer's factory. This certification is subject to the conditions set forth in the characteristics below and is not to be construed as any recommendation, assurance or guarantee by IAPMO R&T Oceana of the product acceptance by Authorities Having Jurisdiction. The IAPMO R&T Oceana 'OceanaMark' Product Certification Scheme is a JAS-ANZ accredited ISO Guide 67 Type 5 Product Certification Scheme.

OCEANAMARK CERTIFICATE

*IAPMO R&T Oceana hereby grants to:***Fernco (Australia) Pty Limited**

A.B.N.: 86 115 372 480

6/7 Jubilee Avenue, Warriewood Sydney NSW 2102, Australia

the right to use the OceanaMark in accordance with IAPMO Oceana Pty Ltd 'Mark Rules' on the product as described in the attached OceanaMark Schedule. The Certificate is granted subject to IAPMO Oceana Pty Ltd 'Governance Rules'.

Evaluated to:

AS/NZS 4327:1995 Metal-banded flexible couplings for low-pressure applications

*Manufacturer:***Refer to Licence Holder**Certificate No.: **OMK22225**Certified Date: **1 May 2019**Issue Date: **1 May 2019**Expiry Date: **4 April 2024**
Chief Executive Officer of the IAPMO Group

This OceanaMark certification is for the period indicated herein and is void after the date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of IAPMO R&T Oceana, or any evidence of non-compliance with applicable Standards, Specifications or of inferior workmanship, may be deemed sufficient cause for revocation of this certification. Reproduction of or reference to this certificate for advertising purposes may be made only by specific written permission of IAPMO R&T Oceana. Any alteration of this certificate could be grounds for revocation of this certification.



OCEANAMARK SCHEDULE



Certificate Holder: Fernco (Australia) Pty Ltd Address : 6/7 Jubilee Avenue Warriewood Sydney NSW Australia 2102 A.B.N.: 86 115 372 480 Manufacturer: Refer to Licence holder	Certificate No.: OMK22225 Issue Date: 1-May-19 Expiry Date: 4-Apr-24 First Certified: 1-May-19 Standards: AS/NZS 4327:1995 Metal-banded flexible couplings for low pressure applications
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Std/Spec: AS/NZS 4327:1995		Certificate No.: OMK22225						
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Coupling	SC115A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC23/65 BC17/76 BC08/95 BC06/102	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	100-115	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC120A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC23/65 BC27/65 BC17/76 BC08/95 BC12/95 BC06/102 BC08/105	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	110-121	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spec: AS/NZS 4327:1995		Certificate No.: OMK22225						
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Feroco	Flexseal Standard Coupling	SC137A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC27/65 BC12/95 BC08/105 BC08/115 MB100	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	120-137	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Feroco	Flexseal Standard Coupling	SC150A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC20/105 BC08/115 BC15/115 BC12/125 BC07/132 MB100	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	125-150	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Feroco	Flexseal Standard Coupling	SC165A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes: BC20/105 BC15/115 BC12/125 BC07/132	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	140-165	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Feroco	Flexseal Standard Coupling	SC175A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC19/132 BC04/160	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	150-175	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Feroco	Flexseal Standard Coupling	SC185A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC19/132 BC04/160 BC08/160 BC08/170	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	160-185	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spec: AS/NZS 4327:1995		Certificate No.: OMK22225						
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Coupling	SC200A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC08/160 BC16/164 BC12/166 BC08/170 BC06/178 BC08/180 MB150	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	175-200	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC215A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes Optional Bushes BC16/164 BC12/166 BC06/178 BC08/180 BC08/200	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	190 - 215	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC225A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC26/168 BC08/200	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	200 - 225	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC250A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	225 - 250	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC265A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	240 - 265	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC275A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC33/205	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	250 - 275	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spec: AS/NZS 4327:1995		Certificate No.: OMK22225							
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material	
Ferco	Flexseal Standard Coupling	SC290A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC33/205 BC08/265	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	265 - 290	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel	
Ferco	Flexseal Standard Coupling	SC310A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	285 - 310	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel	
Ferco	Flexseal Standard Coupling	SC320A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	295 - 320	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel	
Ferco	Flexseal Standard Coupling	SC335A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	305 - 335	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel	

Std/Spec: AS/NZS 4327:1995		Certificate No.: OMK22225						
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Coupling	SC345A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	315 - 345	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC360A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	340 - 360	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC385A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	355 - 385	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC410A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	385 - 410	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spec: AS/NZS 4327:1995		Certificate No.: OMK22225						
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Coupling	SC425A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04*** BC08*** BC12*** BC16*** BC24*** BC32***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	400 - 425	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC430A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04*** BC08*** BC12*** BC16*** BC24*** BC32***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	405 - 430	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC445A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04*** BC08*** BC12*** BC16*** BC24*** BC32***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	420 - 445	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC465A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04*** BC08*** BC12*** BC16*** BC24*** BC32***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	435 - 465	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spec: AS/NZS 4327:1995		Certificate No.: OMK22225						
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Coupling	SC490A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	465 - 490	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC510A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	480 - 510	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC525A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	495 - 525	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC540A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	510 - 540	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spec: AS/NZS 4327:1995		Certificate No.: OMK22225						
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Coupling	SC550A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	520 - 550	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC560A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	530 - 560	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC580A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	555 - 580	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC600A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	570 - 600	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spec: AS/NZS 4327:1995		Certificate No.: OMK22225						
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Extra wide Coupling	SC225WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC26/168 BC08/200	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	200 - 225	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC290WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC33/205 BC08/265	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	265 - 290	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC310WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	285 - 310	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC320WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	295 - 320	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spec: AS/NZS 4327:1995		Certificate No.: OMK22225						
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Extra wide Coupling	SC335WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/**** BC08/**** BC12/**** BC16/**** BC24/**** BC32/****	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	305 - 335	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC345WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/**** BC08/**** BC12/**** BC16/**** BC24/**** BC32/****	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	315 - 345	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC360WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/**** BC08/**** BC12/**** BC16/**** BC24/**** BC32/****	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	340 - 360	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC385WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/**** BC08/**** BC12/**** BC16/**** BC24/**** BC32/****	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	355 - 385	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spec: AS/NZS 4327:1995		Certificate No.: OMK22225						
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Extra wide Coupling	SC410WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	385 - 410	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC425WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	400 - 425	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC430WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	405 - 430	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC445WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	420 - 445	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spec: AS/NZS 4327:1995			Certificate No.: OMK22225					
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Extra wide Coupling	SC465WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	435 - 465	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC490WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	465 - 490	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC510WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	480 - 510	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC525WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	495 - 525	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spec: AS/NZS 4327:1995		Certificate No.: OMK22225						
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Extra wide Coupling	SC540WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04,*** BC08,*** BC12,*** BC16,*** BC24,*** BC32,***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	510 - 540	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC550WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04,*** BC08,*** BC12,*** BC16,*** BC24,*** BC32,***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	520 - 550	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC560WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04,*** BC08,*** BC12,*** BC16,*** BC24,*** BC32,***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	530 - 560	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC580WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04,*** BC08,*** BC12,*** BC16,*** BC24,*** BC32,***	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	555 - 580	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spec: AS/NZS 4327:1995			Certificate No.: OMK22225					
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Extra wide Coupling	SC600WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/**** BC08/**** BC12/**** BC16/**** BC24/**** BC32/****	PVC/Cl/VC/Cu/G ROP/DI/PE/Gal	570 - 600	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	FlexseL Adaptor	AC633A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cu/PE/Gal	53-63/40-50	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1201A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	105-120/35-45	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1225A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	110-122/48-56	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1226A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	110-122/60-68	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1221A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	110-122/80-95	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC5144A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	110-125/100-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1361A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	121-136/80-95	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1362A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	121-136/100-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC4000A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	121-136/110-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1452A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	130-145/110-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC 1552A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	140-155/90-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1602A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	144-160/110-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1603A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	144-160/121-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1603Ao/s	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	144-160/117-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC 1702A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	155-170/110-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1703A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	155-170/130-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1922A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	170-192/110-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1923A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	170-192/121-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC1924A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	170-192/144-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC2000A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	180-200/130-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC6001A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	180-200/144-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC2001A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	180-200/155-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC6000A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	180-200/160-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC2100A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	185-210/100-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC2101A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	185-210/160-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC2152Ao/s	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	195-215/100-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC2154A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	190-215/150-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC2254A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	200-225/160-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC2352A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	210-235/110-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC2353A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	210-235/121-	Type B	EPDM Rubber
Fernco	FlexseL Adaptor	AC2354A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	210-235/144-	Type B	EPDM Rubber

Std/Spec: AS/NZS 4327:1995			Certificate No.: OMK22225					
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Adaptor	AC2355A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	210-235/170-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC2356A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	210-235/190-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC2654A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	240-265/144-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC2655A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	240-265/170-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC2656A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	240-265/190-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC2657A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	240-265/210-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC 2754A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	250-275/160-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC2756A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	250-275/200-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC9001A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	260-285/180-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC9002A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	260-280/240-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC2904A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	265-290/144-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC2907A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	265-290/210-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC2908A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	265-290/235-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC2956Ao/s	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	270-295/185-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC3108WA	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	285-310/240-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC3204A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	295-320/144-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC3205A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	295-320/170-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC3207A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	295-320/210-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC3208A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	295-320/240-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC3209A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	295-320/265-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC3351Ao/s	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	310-335/180-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC3608A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	335-360/240-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC 3609A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	335-360/265-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC3600A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	335-360/295-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC3858A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	360-385/240-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC3859A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	360-385/265-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC3850A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	360-385/300-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC4208A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	395-420/240-	Type B	EPDM Rubber
Fernco	Flexseal Adaptor	AC4209A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/Cl/VC/Cu/G	395-420/265-	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC50A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cu/PE/Gal	50 - 65	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC65A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cu/PE/Gal	50 - 65	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC75A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cu/PE/Gal	50 - 65	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC95A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cu/PE/Gal	80 - 95	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC115A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cl/VC/Cu/G	100 - 115	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC125A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cl/VC/Cu/G	110 - 125	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC135A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cl/VC/Cu/G	120 - 135	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC150A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cl/VC/Cu/G	135 - 150	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC165A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cl/VC/Cu/G	150 - 165	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC175A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cl/VC/Cu/G	160 - 175	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC185A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cl/VC/Cu/G	170 - 185	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC195A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cl/VC/Cu/G	180 - 195	Type B	EPDM Rubber

Std/Spec: AS/NZS 4327:1995			Certificate No.: OMK22225					
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Drain	DC215A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cl/VC/Cu/G	200 - 215	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC225A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cl/VC/Cu/G	210 - 225	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC250A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cl/VC/Cu/G	235 - 250	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC275A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cl/VC/Cu/G	260 - 275	Type B	EPDM Rubber
Fernco	1006-100M	1006-100	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DN100	Type A	Flexible PVC
Fernco	1006-150M	1006-150	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DN150	Type A	Flexible PVC
Fernco	1006-225M	1006-225	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DN225	Type A	Flexible PVC
Fernco	1056-100M	1056-100	Straight-No Shearband	Grey Straight Coupling	Drainage	DN100	Type A	Flexible PVC
Fernco	1056-100/90M	1056-100/90	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DN100/DN90	Type A	Flexible PVC
Fernco	1056-150M	1056-150	Straight-No Shearband	Grey Straight Coupling	Drainage	DN150	Type A	Flexible PVC
Fernco	1056-225M	1056-225	Straight-No Shearband	Grey Straight Coupling	Drainage	DN225	Type A	Flexible PVC
Fernco	1056-40M	1056-40	Straight-No Shearband	Grey Straight Coupling	Drainage	DN40	Type A	Flexible PVC
Fernco	1056-40/32M	1056-40/32	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DN40/DN32	Type A	Flexible PVC
Fernco	1056-50M	1056-50	Straight-No Shearband	Grey Straight Coupling	Drainage	DN50	Type A	Flexible PVC
Fernco	1056-50/40M	1056-50/40	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DN50/DN40	Type A	Flexible PVC
Fernco	1056-65M	1056-65	Straight-No Shearband	Grey Straight Coupling	Drainage	DN65	Type A	Flexible PVC
Fernco	1056-80M	1056-80	Straight-No Shearband	Grey Straight Coupling	Drainage	DN80	Type A	Flexible PVC
Fernco	1056-90M	1056-90	Straight-No Shearband	Grey Straight Coupling	Drainage	DN90	Type A	Flexible PVC
Fernco	E042-042	E042-042	Straight-No Shearband	Grey Straight Coupling	Drainage	DN40	Type A	Flexible PVC
Fernco	E050-042	E050-042	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DN50/DN40	Type A	Flexible PVC
Fernco	E058-038	E058-038	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DN50/DN40	Type A	Flexible PVC

END RECORD

END RECORD



Chief Executive Officer of the IAPMO Group

APPENDIX C – WSA PRODUCT SPECIFICATION

WATER SERVICES ASSOCIATION of Australia

PRODUCT SPECIFICATION

WSA PS - 235 COUPLINGS, METAL-BANDED FLEXIBLE, FOR NON-PRESSURE APPLICATIONS - SEWERAGE

235.1 SCOPE

This specification covers metal-banded flexible couplings for gravity sewers.

235.2 REQUIREMENTS

- (a) Metal-banded flexible couplings shall comply with AS/NZS 4327:1995 or BS¹ EN 295-4:2013.
- (b) Couplings shall have metal shear rings or bands.
- (c) Couplings to AS/NZS 4327:1995 shall be type B.
- (d) Couplings to BS¹ EN 295-4:2013 shall be Type 2A.

235.3 QUALITY ASSURANCE

- (a) Metal-banded flexible couplings shall have product certification (ISO Type 5) to AS/NZS 4327:1995 or BS¹ EN 295-4:2013. The ISO Type 5 Product Certification Scheme shall meet the criteria described in WSA TN-08².
- (b) All products shall be marked in accordance with the conformity assessment body's requirements.

235.4 AGENCY OR PROJECT SPECIFIC REQUIREMENTS

Need for adaptor bushes (required where difference between OD of pipe and ID of coupling is greater than 16 mm)	
Alternative product type—(e.g. BS ¹ EN 295-4:2013 Type 2B)	

NOTE:

- 1 DIN versions of the EN standards are also acceptable.
- 2 Water Services Association of Australia Technical Note (WSA TN-08) sets out additional product conformity assessment requirements that are associated with demonstration of conformity to AS/NZS 4327:1995 or BS EN 295-4:2013.

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Page 1 of 1

APPENDIX D - SUPPLIER CONTACTS

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