



Iplex Pipelines Australia Pty Limited

PRODUCT APPRAISAL REPORT 2121

Milnes Copper Alloy Mechanical Tapping Bands

AS 4793:2020 Mechanical tapping bands for waterworks purposes

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Name/Title	Organisation	Date
Product Appraisal Technical Advisory Group	WSAA	6 September 2023
WSAA Expert Panel	WSAA	6 September 2023
Peter Pittard, WSAA Consultant	WSAA	17 October 2023
Carl Radford, Product Appraisal Manager	WSAA	19 October 2023

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 Supplier.....	5
2.2 The Manufacturer.....	5
3 THE PRODUCT	6
SCOPE OF THE APPRAISAL	7
4 APPRAISAL CRITERIA.....	7
4.1 Quality Assurance Requirements	7
4.2 Performance Requirements	7
5 COMPLIANCE WITH APPRAISAL CRITERIA.....	8
5.1 Compliance with Quality Assurance Requirements	8
5.2 Compliance with Performance Requirements.....	8
5.2.1 Materials.....	8
5.2.2 Outlet threads.....	8
5.2.3 Effect on water.....	8
5.2.4 Type testing.....	9
6 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION	9
7 PRODUCT MARKING	9
8 PACKAGING AND TRANSPORTATION.....	9
9 PRODUCT WARRANTY	9
10 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD-TESTING REPORT.....	10
11 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW.....	10
12 FUTURE WORKS.....	10
13 DISCLAIMER.....	10
13.1 Issue of Report.....	10
13.2 Limits on Reliance on Information and Recommendations.....	10
13.2.1 Disclaimer of liability.....	10
13.2.2 Intellectual Property and other rights.....	11
13.2.3 Need for independent assessment.....	11
13.3 No Updating	11
13.4 No Warranty.....	11
APPENDIX A – PRODUCT LITERATURE	12
APPENDIX B - QUALITY CERTIFICATIONS.....	20
APPENDIX C - SUPPLIER CONTACTS	31

1 EXECUTIVE SUMMARY

Iplex Pipelines Australia Pty Limited is a long-established Australian manufacturer and supplier of pipeline products to the water and gas industries. Fletcher Building Industries Ltd acquired the business in 2011. Northern Iron and Brass Foundry (NIBF), located in Innisfail Queensland, is a division of Iplex and specialises in the manufacture and supply of ductile iron fittings and associated metal products for the Iplex distribution network.

The copper alloy castings are sourced from Ricsson Co Ltd, located in Qingdao, China.

This Appraisal is for a range of Milnes branded PN16 copper alloy mechanical tapping bands for use with Series 1 PVC pipes in sizes from DN 40 to DN 375, Series 2 DIOD pipes including PVC-O, PVC-M, PVC-U, AC and GRP in sizes DN 100 to DN 375 and PE pipes in sizes from DN 63 to DN 400. Tapping outlet sizes include $\frac{3}{4}$ ", 1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ " or 2" BSP.

The Series 1 and PE range incorporates an NBR O-ring seal while the Series 2 range offers the option of an NBR O-ring seal or an EPDM lip seal.

The tapping bands are Type F and incorporate a full circle design with a positive stop.

Copper alloy tapping bands are not suitable for use with DI pipes unless appropriate electrical insulation is provided between the tapping band and pipe to counteract potential bi-metallic corrosion. Care should also be exercised when installing the tapping bands on AC pipes to ensure the pipe OD and ovality is within allowable tolerances.

Iplex, NIBF and Ricsson all hold an ISO 9001:2015 Quality Management System Licence.

The Milnes copper alloy tapping bands have ISO Type 5 product certification to AS 4793:2020 *Mechanical tapping bands for waterworks purposes*.

This Appraisal has determined that the range of Milnes copper alloy tapping bands, as detailed in this report, meet the requirements of WSA PS 310 *Tapping Bands – Mechanical for Pressure Applications – Water Supply* and are considered 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 Milnes copper alloy tapping bands, as detailed in this report, for tapping into water reticulation pipelines, provided any relevant conditions relating to the design, installation, acceptance testing and commissioning are in accordance with WSAA Codes and the manufacturer's requirements.

2 THE APPLICANT

The applicant is Iplex Pipelines Australia Pty Limited.

2.1 The Supplier

Iplex Pipelines Australia Pty Limited is a long-established Australian manufacturer and supplier of pipeline products to the water and gas industries. Iplex offers pipeline products for applications including water, sewerage, plumbing, irrigation, mining slurry, gas, and telecommunications and electrical conduits manufactured from a diverse range of polymers and metals including PVC, PE, PP, GRP and DI.

Iplex is a wholly owned business unit of Fletcher Building Industries Limited. The company has manufacturing operations in Innisfail, Townsville, Brisbane, Sydney, Albury, and Adelaide and with sales and distribution centres located in every state of Australia.

For more information see <https://www.iplx.com.au/>

2.2 The Manufacturer

Northern Iron and Brass Foundry (NIBF), located in Innisfail Queensland, is a division of Iplex and specialises in the manufacture and supply of ductile iron fittings and associated metal products for the Iplex distribution network.

The copper alloy castings are sourced from Ricsson Co Ltd, located in Qingdao, China and the seals are sourced from Thai Duong Joint Stock Company, located in Vietnam, via Hultec Asia Pacific Pty Ltd.

3 THE PRODUCT

This Appraisal is for a range of Milnes branded PN16 copper alloy mechanical tapping bands for use with Series 1 PVC pipes in sizes from DN 40 to DN 375, Series 2 DIOD pipes including PVC-O, PVC-M, PVC-U, AC and GRP in sizes DN 100 to DN 375 and PE pipes in sizes from DN 63 to DN 400. Tapping outlet sizes include ¾", 1", 1¼", 1½" or 2" BSP.

Where PVC Series 1 pipes have a common OD with PE pipes (DN 80/90, DN 150/160, DN 200/225, DN 225/250, DN 250/280, DN 300/315 and DN375/400) the same tapping band is compatible with both pipes and are marked accordingly.

The Series 1 and PE range incorporates an NBR O-ring seal while the Series 2 range offers the option of an NBR O-ring seal or an EPDM lip seal.

All tapping bands are Type F (suitable for flexible pipes) and incorporate a full circle design with a positive stop.

Copper alloy tapping bands are not suitable for use with DI pipes unless appropriate electrical insulation is provided between the tapping band and pipe to counteract potential bi-metallic corrosion. Insulation can be provided by a polymeric coating on the copper alloy tapping band or provision of polyethylene sleeving between the tapping band and metal pipe surfaces. It is also recommended that an anti-tuberculation plastic bush is inserted into the pipe wall after drilling.

Care should also be exercised when installing the tapping bands on AC pipes to ensure the pipe OD and ovality is within allowable tolerances.

AS 4793 was amended in 2020 to include tapping bands for PE pipes and WSAA specifications now require PE compatible tapping bands to conform to AS 4793:2020.

The tapping bands are manufactured from a dezincification resistant copper alloy and incorporate Grade 316 stainless steel fasteners (M10 for sizes up to DN 50, M12 for DN 80 to DN 300 and M16 for DN 375) and an NBR or EPDM elastomeric seal. The threads on the fasteners are coated with an anti-seize compound and an O-ring is provided on each bolt to ensure it is retained in the tapping band during installation.

TABLE 1 MILNES COPPER ALLOY TAPPING BANDS

DN	Series 1 PVC			Series 2 DIOD (Option of NBR O-ring or EPDM lip seal)		
	Availability	Pipe OD	Tapping Size BSP	Availability	Pipe OD	Tapping Size BSP
40	✓	48	¾", 1"	-	-	-
50	✓	60	¾", 1", 1¼", 1½"	-	-	-
80	✓	89	¾", 1", 1¼", 1½", 2"	-	-	-
100	✓	114	¾", 1", 1¼", 1½", 2"	✓	122	¾", 1", 1¼", 1½", 2"
150	✓	160	¾", 1", 1¼", 1½", 2"	✓	177	¾", 1", 1¼", 1½", 2"
200	✓	225	¾", 1", 1¼", 1½", 2"	✓	232	¾", 1", 1¼", 1½", 2"
225	✓	250	¾", 1", 1¼", 1½", 2"	✓	259	¾", 1", 1¼", 1½", 2"

250	✓	280	¾", 1", 1¼", 1½", 2"	✓	286	¾", 1", 1¼", 1½", 2"
300	✓	315	¾", 1", 1¼", 1½", 2"	✓	345	¾", 1", 1¼", 1½", 2"
375	✓	400	¾", 1", 1¼", 1½", 2"	✓	426	¾", 1", 1¼", 1½", 2"

PE		
DN/OD	Availability	Tapping Size BSP
63	✓	¾", 1"
90	✓	¾", 1", 1¼", 1½", 2"
125	✓	¾", 1", 1¼"
160	✓	¾", 1", 1¼", 1½", 2"
180	✓	¾", 1", 1¼", 1½", 2"
225	✓	¾", 1½", 2"
250	✓	¾", 1", 1¼", 1½", 2"
280	✓	¾", 1¼", 1½", 2"
315	✓	¾", 1", 1½", 2"
400	✓	¾", 1", 1½", 2"

SCOPE OF THE APPRAISAL

The products included in the scope of this appraisal are detailed in Section 3 and included in the ISO Type 5 Product Certification schedule included in Appendix B.

4 APPRAISAL CRITERIA

4.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts mechanical tapping bands manufactured in compliance with AS 4793:2020 *Mechanical tapping bands for waterworks purposes* 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.

4.2 Performance Requirements

Milnes copper alloy tapping bands for Series 1 PVC, Series 2 DIOD pipes and PE pipes have been appraised for compliance with AS 4793:2020 *Mechanical tapping bands for waterworks purposes*.

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 relevant to this application:

WSA PS-310 *Tapping Bands – Mechanical for Pressure Applications - Water Supply*

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

<https://www.wsaa.asn.au/shop/product/60961>

5 COMPLIANCE WITH APPRAISAL CRITERIA

5.1 Compliance with Quality Assurance Requirements

Iplex has submitted the following quality assurance certificates:

- ISO 9001:2015 Certificate of Registration No. QEC0037 issued to Iplex Pipelines Australia Pty Limited by SAI Global.
- ISO 9001:2015 Certificate of Registration No. QEC0104 issued to Northern Iron and Brass Foundry Pty Ltd by SAI Global.
- ISO 9001:2015 Certificate of Registration No. 0196-2003-AQ-RGC-RvA issued to Ricsson Co Ltd by DNV-GL.
- AS 4793:2020 ISO Type 5 StandardsMark Product Certification Licence No. SMKP00134 issued to Northern Iron and Brass Foundry Pty Ltd by SAI Global.

Copies of the quality certificates are attached in Appendix B and are also available from WSAA.

5.2 Compliance with Performance Requirements

5.2.1 Materials

The Milnes copper alloy tapping band material specifications are detailed in Table 2 and are in conformance with AS 4793.

Material test reports have been submitted to demonstrate compliance of the copper alloy to the chemical specifications of C83600. The copper alloy contains less than 15% zinc and is therefore designated as a Category I alloy in accordance with AS 2345 and is not required to be subjected to a dezincification resistance test.

The HT5557 EPDM lip seals and HT4627 NBR O-ring seals are supplied by Hultec Asia Pacific Pty Ltd and manufactured by Thai Duong Joint Stock Company. WSAA retains a copy of the AS 1646 ISO Type 5 Product Certification Licence for Thai Duong that covers the seals for Iplex.

TABLE 2 MILNES COPPER ALLOY TAPPING BANDS MATERIAL COMPONENTS

Component	Material	Standard	Grade
Tapping saddle body	Copper alloy	AS 1565	C83600
Sealing rings	Elastomer	AS 1646/EN681-1	EPDM or NBR
Fasteners	Stainless steel	ASTM A240/240M	316

5.2.2 Outlet threads

The threaded outlets are parallel in conformance with AS ISO 7.1 Series R_p.

5.2.3 Effect on water

AS 4793 requires compliance with AS/NZS 4020 *Testing of products for use in contact with drinking water*. Iplex has submitted Test Report No. 362467 from Australian Water Quality Centre (NATA Accreditation No.1115) dated 22nd May 2023 to demonstrate compliance of the tapping bands to AS/NZS 4020:2018. In addition, WSAA retains copies of AS/NZS 4020:2018 test reports for the Hultec HT5557 EPDM and HT4627 NBR rubber compounds.

5.2.4 Type testing

Type test reports for Series 1 PVC compatible, Series 2 DIOD compatible and PE compatible tapping bands for each size included in the scope of this appraisal have been completed by Prove Standards and Engineering Pty Ltd (NATA Accreditation No. 18640) to demonstrate compliance to the performance requirements of AS 4793:2020.

The tests completed were:


- Assembly
- Short term hydrostatic leak-tightness
- Joint infiltration
- Leak-tightness during application of a bending moment to the connecting pipe
- Resistance to rotation, longitudinal sliding and depressurisation

6 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

Tapping bands are considered to be a common use item and training is not considered necessary. Milnes Installation Guide is attached in Appendix A.

7 PRODUCT MARKING

Milnes tapping bands are marked as follows which complies with the requirements of AS 4793:2020:

- Manufacturers name or mark: Milnes
- Nominal diameter: e.g., DN 100, DN 150 PVC/160PE, DN 63
- Pipe type: e.g., PVC, PVC/PE, PE, BLUE PVC
- Type of tapping band: e.g., F or F & R
- The standard number: AS 4793  LIC 134
- Pressure classification: PN16

The following additional information is also provided on the packaging labels:

- Product Code:
- Description:
- Pipe OD:
- Batch Code:
- Outlet size: e.g., 20
- Pipe type and series: e.g., PVC/STEEL PIPE/S1, PVC/STEEL PIPE/S1/PE, PVC/AC/DI/S2
- Bar code:

8 PACKAGING AND TRANSPORTATION

Each tapping band is sealed in a plastic bag with detailed installation instructions. They are packaged into cartons and labelled with description, quantity and bar codes.

9 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 Iplex's warranty is included in their terms and conditions of sale.

10 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD-TESTING REPORT

Tapping bands are considered common use items within the industry and a field test is not considered necessary for this Appraisal.

Milnes tapping bands have been approved by most Australian and NZ water agencies.

11 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW

No issues were raised.

12 FUTURE WORKS

No future work has been identified.

13 DISCLAIMER

This Product Appraisal Report (Report) is issued by the Water Services Association of Australia Limited on the understanding that:

This Report applies to the product(s) as submitted. Any changes to the product(s) either minor or major shall void this Report.

To maintain the recommendations of this Report any such changes shall be detailed and notified to the Product Appraisal Manager for consideration and review of the Report and appropriate action. Appraisals and their recommendations will be the subject of continuous review dependent upon the satisfactory performance of products.

WSAA reserves the right to undertake random audits of product manufacture and installation. Where products fail to maintain appraised performance requirements the appraisal and its recommendations may be modified and reissued. Appraisal reports will be reviewed and reissued at regular intervals not exceeding five (5) years.

The following information explains a number of very important limits on your ability to rely on the information in this Report. Please read it carefully and take it into account when considering the contents of this Report.

Any enquiries regarding this report should be directed to the Program Manager, Carl Radford, email carl.radford@wsaa.asn.au.

13.1 Issue of Report

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

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

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

13.2 Limits on Reliance on Information and Recommendations

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The information and any recommendation contained (expressly or by implication) in this Report are provided in good faith (and subject to the limitations noted in this Report). However, you should treat the information as indicative only. You should not rely on that information or any such recommendation except to the extent that you reach an agreement to the contrary with the Publisher(s).

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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.

13.3 No Updating

Neither the Publisher(s) nor any person involved in the preparation of this Report [has] [have] any obligation to notify you of any change in the information contained in this Report or of any new information concerning the Publisher(s) or the Product or any other matter.

13.4 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



GM60A - Tapping Bands For Series 1 (White) PVC: Pipe Size 40 - 150mm

GM60A Tapping Band Specifications

Applications: Mechanical tapping bands provides a means for the connection of service pipes from a pipeline.

GM60A Tapping Bands are suitable for the following products:

- AS/NZS1477 Series 1 White Upvc Pipe
- AS/NZS4765 Series 1 White MpvC Pipe
- AS1074 Galvanised Steel Pipe

Product Standard: AS/NZS 4793 / MP52-SPEC025

Pressure Rating: PN16

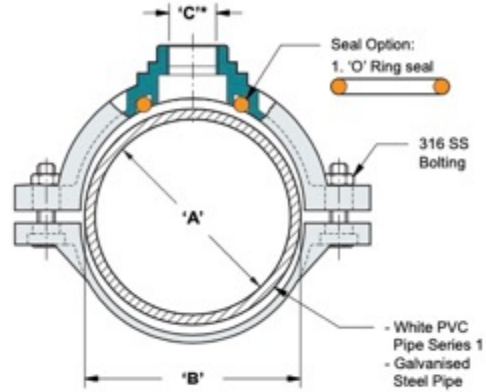
Metallic Material: AS1565 Gunmetal

Bolting: 316 Stainless Steel

Seal: AS1646 Nitrile Rubber

Potable Water Compliance: AS4020

Product Code Specification:



TAPPING BANDS SERIES 1 OR GAL. STEEL
Pipe Size 40 - 150mm

Product code	Description		Typical dimensions			
			Nominal Diameter (mm) 'A'	Pipe OD** (mm) 'B'	Tapping Size BSP (mm) 'C'	Tapping Size BSP (in) 'C'
GM60A4015	40X15 T/BAND G/METAL S1 PVC	316 SS BOLTING	40	48	15	3/8"
GM60A4020	40X20 T/BAND G/METAL S1 PVC	316 SS BOLTING	40	48	20	3/4"
GM60A4025	40X25 T/BAND G/METAL S1 PVC	316 SS BOLTING	40	48	25	1"
GM60A5015	50X15 T/BAND G/METAL S1 PVC	316 SS BOLTING	50	60	15	3/8"
GM60A5020	50X20 T/BAND G/METAL S1 PVC	316 SS BOLTING	50	60	20	3/4"
GM60A5025	50X25 T/BAND G/METAL S1 PVC	316 SS BOLTING	50	60	25	1"
GM60A5032	50X32 T/BAND G/METAL S1 PVC	316 SS BOLTING	50	60	32	1 1/4"
GM60A6515	65X15 T/BAND G/METAL S1 PVC	316 SS BOLTING	65	75	15	3/8"
GM60A6520	65X20 T/BAND G/METAL S1 PVC	316 SS BOLTING	65	75	20	3/4"
GM60A6525	65X25 T/BAND G/METAL S1 PVC	316 SS BOLTING	65	75	25	1"
GM60A6532	65X32 T/BAND G/METAL S1 PVC	316 SS BOLTING	65	75	32	1 1/4"
GM60A6540	65X40 T/BAND G/METAL S1 PVC	316 SS BOLTING	65	75	40	1 1/2"
GM60A8015	80X15 T/BAND G/METAL S1 PVC	316 SS BOLTING	80	89	15	3/8"
GM60A8020	80X20 T/BAND G/METAL S1 PVC	316 SS BOLTING	80	89	20	3/4"
GM60A8025	80X25 T/BAND G/METAL S1 PVC	316 SS BOLTING	80	89	25	1"
GM60A8032	80X32 T/BAND G/METAL S1 PVC	316 SS BOLTING	80	89	32	1 1/4"
GM60A8040	80X40 T/BAND G/METAL S1 PVC	316 SS BOLTING	80	89	40	1 1/2"
GM60A8050	80X50 T/BAND G/METAL S1 PVC	316 SS BOLTING	80	89	50	2"
GM60A10015	100X15 T/BAND G/METAL S1 PVC	316 SS BOLTING	100	114	15	3/8"
GM60A10020	100X20 T/BAND G/METAL S1 PVC	316 SS BOLTING	100	114	20	3/4"
GM60A10025	100X25 T/BAND G/METAL S1 PVC	316 SS BOLTING	100	114	25	1"
GM60A10032	100X32 T/BAND G/METAL S1 PVC	316 SS BOLTING	100	114	32	1 1/4"
GM60A10040	100X40 T/BAND G/METAL S1 PVC	316 SS BOLTING	100	114	40	1 1/2"
GM60A10050	100X50 T/BAND G/METAL S1 PVC	316 SS BOLTING	100	114	50	2"
GM60A12520	125X20 T/BAND G/METAL S1 PVC	316 SS BOLTING	125	140	20	3/4"
GM60A12525	125X25 T/BAND G/METAL S1 PVC	316 SS BOLTING	125	140	25	1"
GM60A12532	125X32 T/BAND G/METAL S1 PVC	316 SS BOLTING	125	140	32	1 1/4"
GM60A12540	125X40 T/BAND G/METAL S1 PVC	316 SS BOLTING	125	140	40	1 1/2"
GM60A12550	125X50 T/BAND G/METAL S1 PVC	316 SS BOLTING	125	140	50	2"
GM60A15015	150X15 T/BAND G/METAL S1 PVC	316 SS BOLTING	150	160	15	3/8"
GM60A15020	150X20 T/BAND G/METAL S1 PVC	316 SS BOLTING	150	160	20	3/4"
GM60A15025	150X25 T/BAND G/METAL S1 PVC	316 SS BOLTING	150	160	25	1"
GM60A15032	150X32 T/BAND G/METAL S1 PVC	316 SS BOLTING	150	160	32	1 1/4"
GM60A15040	150X40 T/BAND G/METAL S1 PVC	316 SS BOLTING	150	160	40	1 1/2"
GM60A15050	150X50 T/BAND G/METAL S1 PVC	316 SS BOLTING	150	160	50	2"

- NOTE:**
- For installation detail, refer to Installation Instructions.
 - Refer to thread standard Series 'RP' Sealing Internal Parallel Thread. Refer to AS1722.1 for further details.
 - Refer to pipe product standard for actual pipe tolerance, e.g. AS4765 for MpvC pipe tolerance.
 - The illustration shown is intended to serve as a guide only. Detailed drawings and specification can be obtained by contacting the nearest sales office.

TAPPING BANDS FOR SERIES 1 PVC PIPE OR GAL. STEEL



TAPPING BANDS SERIES 1 OR GAL. STEEL
Pipe Size 175 - 375mm

GM60A - Tapping Bands For Series 1 (White) PVC: Pipe Size 175 - 375mm

GM60A Tapping Band Specifications

Applications: Mechanical tapping bands provides a means for the connection of service pipes from a pipeline.

GM60A Tapping Bands are suitable for the following products:

- AS/NZS1477 Series 1 White Upvc Pipe
- AS/NZS4765 Series 1 White Mpv Pipe
- AS1074 Galvanised Steel Pipe

Product Standard: AS/NZS 4793 / MP52-SPEC025

Pressure Rating: PN16

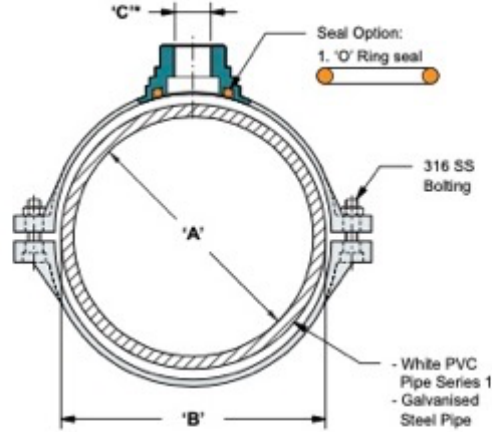
Metallic Material: AS1565 Gunmetal

Bolting: 316 Stainless Steel

Seal: AS1646 Nitrile Rubber

Potable Water Compliance: AS4020

Product Code Specification:



Product code	Description	Typical dimensions			
		Nominal Diameter (mm) 'A'	Pipe OD** (mm) 'B'	Tapping Size BSP (mm) 'C'	Tapping Size BSP (in) 'C'
GM60A17520	175X20 T/BAND G/METAL S1 PVC 316 SS BOLTING	175	200	20	3/8"
GM60A17525	175X25 T/BAND G/METAL S1 PVC 316 SS BOLTING	175	200	25	1"
GM60A17532	175X32 T/BAND G/METAL S1 PVC 316 SS BOLTING	175	200	32	1 1/4"
GM60A17540	175X40 T/BAND G/METAL S1 PVC 316 SS BOLTING	175	200	40	1 1/2"
GM60A17550	175X50 T/BAND G/METAL S1 PVC 316 SS BOLTING	175	200	50	2"
GM60A20015	200X15 T/BAND G/METAL S1 PVC 316 SS BOLTING	200	225	15	1/2"
GM60A20020	200X20 T/BAND G/METAL S1 PVC 316 SS BOLTING	200	225	20	3/8"
GM60A20025	200X25 T/BAND G/METAL S1 PVC 316 SS BOLTING	200	225	25	1"
GM60A20032	200X32 T/BAND G/METAL S1 PVC 316 SS BOLTING	200	225	32	1 1/4"
GM60A20040	200X40 T/BAND G/METAL S1 PVC 316 SS BOLTING	200	225	40	1 1/2"
GM60A20050	200X50 T/BAND G/METAL S1 PVC 316 SS BOLTING	200	225	50	2"
GM60A22515	225X15 T/BAND G/METAL S1 PVC 316 SS BOLTING	225	250	15	1/2"
GM60A22520	225X20 T/BAND G/METAL S1 PVC 316 SS BOLTING	225	250	20	3/8"
GM60A22525	225X25 T/BAND G/METAL S1 PVC 316 SS BOLTING	225	250	25	1"
GM60A22532	225X32 T/BAND G/METAL S1 PVC 316 SS BOLTING	225	250	32	1 1/4"
GM60A22540	225X40 T/BAND G/METAL S1 PVC 316 SS BOLTING	225	250	40	1 1/2"
GM60A22550	225X50 T/BAND G/METAL S1 PVC 316 SS BOLTING	225	250	50	2"
GM60A25015	250X15 T/BAND G/METAL S1 PVC 316 SS BOLTING	250	280	15	1/2"
GM60A25020	250X20 T/BAND G/METAL S1 PVC 316 SS BOLTING	250	280	20	3/8"
GM60A25025	250X25 T/BAND G/METAL S1 PVC 316 SS BOLTING	250	280	25	1"
GM60A25032	250X32 T/BAND G/METAL S1 PVC 316 SS BOLTING	250	280	32	1 1/4"
GM60A25040	250X40 T/BAND G/METAL S1 PVC 316 SS BOLTING	250	280	40	1 1/2"
GM60A25050	250X50 T/BAND G/METAL S1 PVC 316 SS BOLTING	250	280	50	2"
GM60A30015	300X15 T/BAND G/METAL S1 PVC 316 SS BOLTING	300	315	15	1/2"
GM60A30020	300X20 T/BAND G/METAL S1 PVC 316 SS BOLTING	300	315	20	3/8"
GM60A30025	300X25 T/BAND G/METAL S1 PVC 316 SS BOLTING	300	315	25	1"
GM60A30032	300X32 T/BAND G/METAL S1 PVC 316 SS BOLTING	300	315	32	1 1/4"
GM60A30040	300X40 T/BAND G/METAL S1 PVC 316 SS BOLTING	300	315	40	1 1/2"
GM60A30050	300X50 T/BAND G/METAL S1 PVC 316 SS BOLTING	300	315	50	2"
GM60A37515	375X15 T/BAND G/METAL S1 PVC 316 SS BOLTING	375	400	15	1/2"
GM60A37520	375X20 T/BAND G/METAL S1 PVC 316 SS BOLTING	375	400	20	3/8"
GM60A37525	375X25 T/BAND G/METAL S1 PVC 316 SS BOLTING	375	400	25	1"
GM60A37532	375X32 T/BAND G/METAL S1 PVC 316 SS BOLTING	375	400	32	1 1/4"
GM60A37540	375X40 T/BAND G/METAL S1 PVC 316 SS BOLTING	375	400	40	1 1/2"
GM60A37550	375X50 T/BAND G/METAL S1 PVC 316 SS BOLTING	375	400	50	2"

NOTE:

- For installation detail, refer to Installation Instructions.
- Refer to thread standard Series 'RP' Sealing (Internal Parallel) Thread. Refer to AS1722.1 for further details.
- Refer to pipe product standard for actual pipe tolerance. e.g. AS4765 for Mpv pipe tolerances.
- The illustration shown is intended to serve as a guide only. Detailed drawings and specification can be obtained by contacting the nearest sales office.



GM60B - Tapping Bands For Series 2 (Blue) PVC, AC or DICL: Pipe Size 50 - 100mm

TAPPING BANDS SERIES 2
Pipe Size 50 - 100mm

GM60B Tapping Band Specifications

Applications: Mechanical tapping bands provides a means for the connection of service pipes from a pipeline.

GM60B Tapping Bands are suitable for the following products:

- AS/NZS1477 Series 2 Blue Upvc Pipe
- AS/NZS4765 Series 2 Blue Mpv Pipe
- AS/NZS4441 Series 2 Blue Opvc Pipe
- AS/NZS2280 DI Pipe (Insulation may be required for Bi-Metallic contact)
- AS4139 Asbestos Cement Pipe

Product Standard: AS/NZS 4793 / MP52-SPEC025

Pressure Rating: PN16

Metallic Material: AS1565 Gunmetal

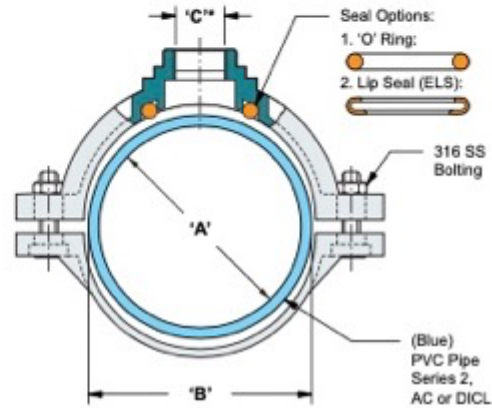
Bolting: 316 Stainless Steel

Seal: AS1646 Nitrile Rubber

Potable Water Compliance: AS4020

Product Code Specification:

GM60B5820ELS



Product code	Description	Typical dimensions			
		Nominal Diameter (mm) 'A'	Pipe OD** (mm) 'B'	Tapping Size BSP (mm) 'C'	Tapping Size BSP (in) 'C'
GM60B5015	50X15 T/BAND G/METAL AC/S2 316 SS BOLTING	50	70	15	½"
GM60B5020	50X20 T/BAND G/METAL AC/S2 316 SS BOLTING	50	70	20	¾"
GM60B5025	50X25 T/BAND G/METAL AC/S2 316 SS BOLTING	50	70	25	1"
GM60B5820	58X20 T/BAND G/METAL AC/S2 316 SS BOLTING	58	78	20	¾"
GM60B5820ELS	58X20 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	58	78	20	¾"
GM60B5825	58X25 T/BAND G/METAL AC/S2 316 SS BOLTING	58	78	25	1"
GM60B5840	58X40 T/BAND G/METAL AC/S2 316 SS BOLTING	58	78	40	1½"
GM60B5850ELS	58X50 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	58	78	50	2"
GM60B8015	80X15 T/BAND G/METAL AC/S2 316 SS BOLTING	80	96	15	½"
GM60B8020	80X20 T/BAND G/METAL AC/S2 316 SS BOLTING	80	96	20	¾"
GM60B8020ELS	80X20 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	80	96	20	¾"
GM60B8025	80X25 T/BAND G/METAL AC/S2 316 SS BOLTING	80	96	25	1"
GM60B8025ELS	80X25 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	80	96	25	1"
GM60B8032	80X32 T/BAND G/METAL AC/S2 316 SS BOLTING	80	96	32	1¼"
GM60B8032ELS	80X32 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	80	96	32	1¼"
GM60B8040	80X40 T/BAND G/METAL AC/S2 316 SS BOLTING	80	96	40	1½"
GM60B8040ELS	80X40 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	80	96	40	1½"
GM60B8050	80X50 T/BAND G/METAL AC/S2 316 SS BOLTING	80	96	50	2"
GM60B8050ELS	80X50 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	80	96	50	2"
GM60B10015	100X15 T/BAND G/METAL AC/S2 316 SS BOLTING	100	122	15	½"
GM60B10020	100X20 T/BAND G/METAL AC/S2 316 SS BOLTING	100	122	20	¾"
GM60B10020ELS	100X20 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	100	122	20	¾"
GM60B10025	100X25 T/BAND G/METAL AC/S2 316 SS BOLTING	100	122	25	1"
GM60B10025ELS	100X25 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	100	122	25	1"
GM60B10032	100X32 T/BAND G/METAL AC/S2 316 SS BOLTING	100	122	32	1¼"
GM60B10032ELS	100X32 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	100	122	32	1¼"
GM60B10040	100X40 T/BAND G/METAL AC/S2 316 SS BOLTING	100	122	40	1½"
GM60B10040ELS	100X40 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	100	122	40	1½"
GM60B10050	100X50 T/BAND G/METAL AC/S2 316 SS BOLTING	100	122	50	2"
GM60B10050ELS	100X50 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	100	122	50	2"

NOTE:

- For installation detail, refer to Installation Instructions.
- Refer to thread standard Series 10P Sealing Internal Parallel Thread. Refer to AS1722.1 for further details.
- Refer to pipe product standard for actual pipe tolerance, e.g. AS4765 for Mpv pipe tolerances.
- The illustration shown is intended to serve as a guide only. Detailed drawings and specification can be obtained by contacting the nearest sales office.

**TAPPING BANDS FOR SERIES 2
(BLUE) PVC, AC OR DICL PIPE**



TAPPING BANDS SERIES 2
Pipe Size 150 - 225mm

GM60B - Tapping Bands For Series 2 (Blue) PVC, AC or DICL: Pipe Size 150 - 225mm

GM60B Tapping Band Specifications

Applications: Mechanical tapping bands provides a means for the connection of service pipes from a pipeline.

GM60B Tapping Bands are suitable for the following products:

- AS/NZS1477 Series 2 Blue Upvc Pipe
- AS/NZS4765 Series 2 Blue Mpvpc Pipe
- AS/NZS4441 Series 2 Blue Opvc Pipe
- AS/NZS2280 DI Pipe (Insulation may be required for Bi-Metallic contact)
- AS4139 Asbestos Cement Pipe

Product Standard: AS/NZS 4793 / MP52-SPEC025

Pressure Rating: PN16

Metallic Material: AS1565 Gunmetal

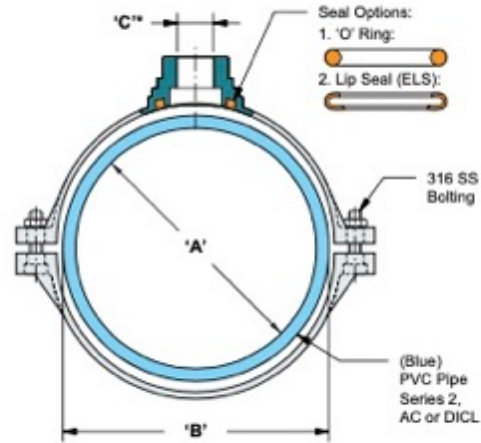
Bolting: 316 Stainless Steel

Seal: AS1646 Nitrile Rubber

Potable Water Compliance: AS4020

Product Code Specification:

GM60B15020ELS



Product code	Description	Typical dimensions			
		Nominal Dia. (mm) 'A'	Pipe OD** (mm) 'B'	Tapping Size BSP (mm) 'C'	Tapping Size BSP (in) 'C'
GM60B15015	150X15 T/BAND G/METAL AC/S2 316 SS BOLTING	150	177	15	½"
GM60B15020	150X20 T/BAND G/METAL AC/S2 316 SS BOLTING	150	177	20	¾"
GM60B15020ELS	150X20 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	150	177	20	¾"
GM60B15025	150X25 T/BAND G/METAL AC/S2 316 SS BOLTING	150	177	25	1"
GM60B15025ELS	150X25 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	150	177	25	1"
GM60B15032	150X32 T/BAND G/METAL AC/S2 316 SS BOLTING	150	177	32	1¼"
GM60B15032ELS	150X32 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	150	177	32	1¼"
GM60B15040	150X40 T/BAND G/METAL AC/S2 316 SS BOLTING	150	177	40	1½"
GM60B15040ELS	150X40 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	150	177	40	1½"
GM60B15050	150X50 T/BAND G/METAL AC/S2 316 SS BOLTING	150	177	50	2"
GM60B15050ELS	150X50 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	150	177	50	2"
GM60B20015	200X15 T/BAND G/METAL AC/S2 316 SS BOLTING	200	232	15	½"
GM60B20020	200X20 T/BAND G/METAL AC/S2 316 SS BOLTING	200	232	20	¾"
GM60B20020ELS	200X20 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	200	232	20	¾"
GM60B20025	200X25 T/BAND G/METAL AC/S2 316 SS BOLTING	200	232	25	1"
GM60B20025ELS	200X25 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	200	232	25	1"
GM60B20032	200X32 T/BAND G/METAL AC/S2 316 SS BOLTING	200	232	32	1¼"
GM60B20032ELS	200X32 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	200	232	32	1¼"
GM60B20040	200X40 T/BAND G/METAL AC/S2 316 SS BOLTING	200	232	40	1½"
GM60B20040ELS	200X40 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	200	232	40	1½"
GM60B20050	200X50 T/BAND G/METAL AC/S2 316 SS BOLTING	200	232	50	2"
GM60B20050ELS	200X50 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	200	232	50	2"
GM60B22515	225X15 T/BAND G/METAL AC/S2 316 SS BOLTING	225	259	15	½"
GM60B22520	225X20 T/BAND G/METAL AC/S2 316 SS BOLTING	225	259	20	¾"
GM60B22525	225X25 T/BAND G/METAL AC/S2 316 SS BOLTING	225	259	25	1"
GM60B22525ELS	225X25 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	225	259	25	1"
GM60B22532	225X32 T/BAND G/METAL AC/S2 316 SS BOLTING	225	259	32	1¼"
GM60B22540	225X40 T/BAND G/METAL AC/S2 316 SS BOLTING	225	259	40	1½"
GM60B22540ELS	225X40 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	225	259	40	1½"
GM60B22550	225X50 T/BAND G/METAL AC/S2 316 SS BOLTING	225	259	50	2"

NOTE:

- For installation detail, refer to Installation Instructions.
- Refer to thread standard Series 79° Sealing Internal Parallel Thread. Refer to AS1722.1 for further details.
- Refer to pipe product standard for actual pipe tolerance, e.g. AS4765 for Mpvpc pipe tolerances.
- The Illustration shown is intended to serve as a guide only. Detailed drawings and specification can be obtained by contacting the nearest sales office.



TAPPING BANDS FOR SERIES 2 (BLUE) PVC, AC OR DICL PIPE

GM60B - Tapping Bands For Series 2 (Blue) PVC, AC or DICL: Pipe Size 250 - 450mm

GM60B Tapping Band Specifications

Applications: Mechanical tapping bands provides a means for the connection of service pipes from a pipeline.

GM60B Tapping Bands are suitable for the following products:

- AS/NZS1477 Series 2 Blue Upvc Pipe
- AS/NZS4765 Series 2 Blue MpvC Pipe
- AS/NZS4441 Series 2 Blue Opvc Pipe
- AS/NZS2280 DI Pipe (Insulation may be required for Bi-Metallic contact)
- AS4139 Asbestos Cement Pipe

Product Standard: AS/NZS 4793 / MP52-SPEC025

Pressure Rating: PN16

Metallic Material: AS1565 Gunmetal

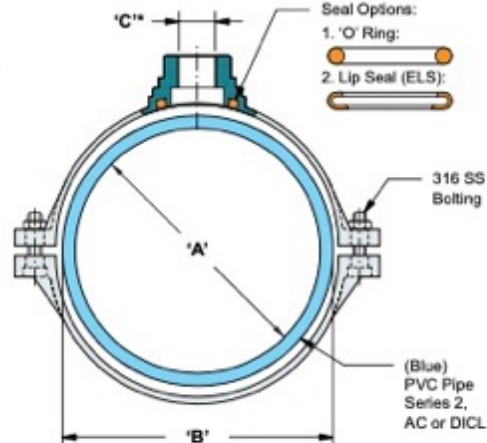
Bolting: 316 Stainless Steel

Seal: AS1646 Nitrile Rubber

Potable Water Compliance: AS4020

Product Code Specification:

GM60B25020ELS



- NOTE:**
- For installation detail, refer to installation instructions.
 - Refer to thread standard Series 90° Sealing Internal Parallel Thread. Refer to AS1722.1 for further details.
 - Refer to pipe product standard for actual pipe tolerance, e.g. AS4765 for MpvC pipe tolerances.
 - The illustration shown is intended to serve as a guide only. Detailed drawings and specification can be obtained by contacting the nearest sales office.

Product code	Description	Typical dimensions			
		Nominal Dia. (mm) 'A'	Pipe OD** (mm) 'B'	Tapping Size BSP (mm) 'C'	Tapping Size BSP (in) 'C'
GM60B25015	250X15 T/BAND G/METAL AC/S2 316 SS BOLTING	250	286	15	½"
GM60B25020	250X20 T/BAND G/METAL AC/S2 316 SS BOLTING	250	286	20	¾"
GM60B25020ELS	250X20 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	250	286	20	¾"
GM60B25025	250X25 T/BAND G/METAL AC/S2 316 SS BOLTING	250	286	25	1"
GM60B25025ELS	250X25 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	250	286	25	1"
GM60B25032	250X32 T/BAND G/METAL AC/S2 316 SS BOLTING	250	286	32	1¼"
GM60B25040	250X40 T/BAND G/METAL AC/S2 316 SS BOLTING	250	286	40	1½"
GM60B25040ELS	250X40 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	250	286	40	1½"
GM60B25050	250X50 T/BAND G/METAL AC/S2 316 SS BOLTING	250	286	50	2"
GM60B25050ELS	250X50 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	250	286	50	2"
GM60B30015	300X15 T/BAND G/METAL AC/S2 316 SS BOLTING	300	345	15	½"
GM60B30020	300X20 T/BAND G/METAL AC/S2 316 SS BOLTING	300	345	20	¾"
GM60B30020ELS	300X20 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	300	345	20	¾"
GM60B30025	300X25 T/BAND G/METAL AC/S2 316 SS BOLTING	300	345	25	1"
GM60B30025ELS	300X25 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	300	345	25	1"
GM60B30032	300X32 T/BAND G/METAL AC/S2 316 SS BOLTING	300	345	32	1¼"
GM60B30040	300X40 T/BAND G/METAL AC/S2 316 SS BOLTING	300	345	40	1½"
GM60B30040ELS	300X40 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	300	345	40	1½"
GM60B30050	300X50 T/BAND G/METAL AC/S2 316 SS BOLTING	300	345	50	2"
GM60B30050ELS	300X50 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	300	345	50	2"
GM60B37515	375X15 T/BAND G/METAL AC/S2 316 SS BOLTING	375	426	15	½"
GM60B37520	375X20 T/BAND G/METAL AC/S2 316 SS BOLTING	375	426	20	¾"
GM60B37520ELS	375X20 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	375	426	20	¾"
GM60B37525	375X25 T/BAND G/METAL AC/S2 316 SS BOLTING	375	426	25	1"
GM60B37525ELS	375X25 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	375	426	25	1"
GM60B37532	375X32 T/BAND G/METAL AC/S2 316 SS BOLTING	375	426	32	1¼"
GM60B37540	375X40 T/BAND G/METAL AC/S2 316 SS BOLTING	375	426	40	1½"
GM60B37540ELS	375X40 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	375	426	40	1½"
GM60B37550	375X50 T/BAND G/METAL AC/S2 316 SS BOLTING	375	426	50	2"
GM60B37550ELS	375X50 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	375	426	50	2"
GM60B45015	450X15 T/BAND G/METAL AC/S2 316 SS BOLTING	450	507	15	½"
GM60B45020	450X20 T/BAND G/METAL AC/S2 316 SS BOLTING	450	507	20	¾"
GM60B45025	450X25 T/BAND G/METAL AC/S2 316 SS BOLTING	450	507	25	1"
GM60B45025ELS	450X25 T/BAND G/METAL AC/S2 ELS & 316 SS BOLTING	450	507	25	1"
GM60B45032	450X32 T/BAND G/METAL AC/S2 316 SS BOLTING	450	507	32	1¼"
GM60B45040	450X40 T/BAND G/METAL AC/S2 316 SS BOLTING	450	507	40	1½"
GM60B45050	450X50 T/BAND G/METAL AC/S2 316 SS BOLTING	450	507	50	2"

TAPPING BANDS SERIES 2
Pipe Size 250 - 450mm



TAPPING BANDS PE
Pipe Size 63 - 160mm

GM60C - Tapping Bands For Polyethylene Pipe (PE): Pipe Size 63 - 160mm

GM60C Tapping Band Specifications

Applications: Mechanical tapping bands provides a means for the connection of service pipes from a pipeline.

GM60C Tapping Bands are suitable for the following products:

- AS/NZS4130 MDPE, HDPE

Product Standard: MP52-SPEC025

Pressure Rating: PN16

Metallic Material: AS1565 Gunmetal

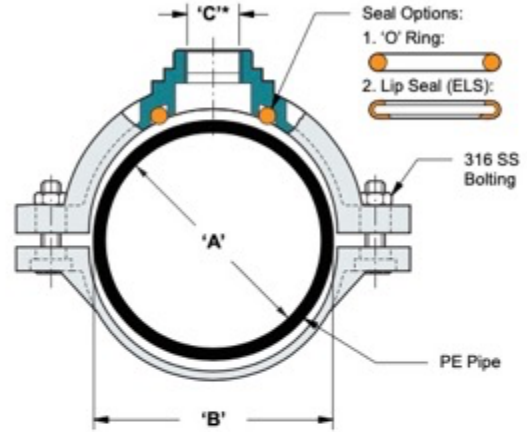
Bolting: 316 Stainless Steel

Seal: AS1646 Nitrile Rubber

Potable Water Compliance: AS4020

Product Code Specification:

GM60C6320ELS



Product code	Description	Typical dimensions				Alternative Product Code
		Nominal Diameter (mm) 'A'	Pipe OD** (mm) 'B'	Tapping Size BSP (mm) 'C'	Tapping Size BSP (in) 'C'	
GM60C6320	63X20 T/BAND G/METAL MDPE 316 SS BOLTING	63	63	20	¾"	-
GM60C6325	63X25 T/BAND G/METAL MDPE 316 SS BOLTING	63	63	25	1"	-
GM60C7515	75X15 T/BAND G/METAL MDPE 316 SS BOLTING	75	75	15	½"	GM60A6515
GM60C7520	75X20 T/BAND G/METAL MDPE 316 SS BOLTING	75	75	20	¾"	GM60A6520
GM60C7525	75X25 T/BAND G/METAL MDPE 316 SS BOLTING	75	75	25	1"	GM60A6525
GM60C7532	75X32 T/BAND G/METAL MDPE 316 SS BOLTING	75	75	32	1¼"	GM60A6532
GM60C7540	75X40 T/BAND G/METAL MDPE 316 SS BOLTING	75	75	40	1½"	GM60A6540
GM60C9015	90X15 T/BAND G/METAL MDPE 316 SS BOLTING	90	90	15	½"	GM60A8015
GM60C9020	90X20 T/BAND G/METAL MDPE 316 SS BOLTING	90	90	20	¾"	GM60A8020
GM60C9025	90X25 T/BAND G/METAL MDPE 316 SS BOLTING	90	90	25	1"	GM60A8025
GM60C9032	90X32 T/BAND G/METAL MDPE 316 SS BOLTING	90	90	32	1¼"	GM60A8032
GM60C9040	90X40 T/BAND G/METAL MDPE 316 SS BOLTING	90	90	40	1½"	GM60A8040
GM60C9050	90X50 T/BAND G/METAL MDPE 316 SS BOLTING	90	90	50	2"	GM60A8050
GM60C12520	125X20 T/BAND G/METAL MDPE 316 SS BOLTING	125	125	20	¾"	-
GM60C12525	125X25 T/BAND G/METAL MDPE 316 SS BOLTING	125	125	25	1"	-
GM60C12532	125X32 T/BAND G/METAL MDPE 316 SS BOLTING	125	125	32	1¼"	-
GM60C16015	160X15 T/BAND G/METAL MDPE 316 SS BOLTING	160	160	15	½"	GM60A15015
GM60C16020	160X20 T/BAND G/METAL MDPE 316 SS BOLTING	160	160	20	¾"	GM60A15020
GM60C16025	160X25 T/BAND G/METAL MDPE 316 SS BOLTING	160	160	25	1"	GM60A15025
GM60C16032	160X32 T/BAND G/METAL MDPE 316 SS BOLTING	160	160	32	1¼"	GM60A15032
GM60C16040	160X40 T/BAND G/METAL MDPE 316 SS BOLTING	160	160	40	1½"	GM60A15040
GM60C16050	160X50 T/BAND G/METAL MDPE 316 SS BOLTING	160	160	50	2"	GM60A15050

NOTE:

- For installation detail, refer to Installation Instructions.
- Refer to thread standard Series 19° Sealing Internal Parallel Thread. Refer to AS1722.1 for further details.
- ** Refer to pipe product standard for actual pipe tolerance, e.g. AS4765 for MpvC pipe tolerances.
- The illustration shown is intended to serve as a guide only. Detailed drawings and specification can be obtained by contacting the nearest sales office.

MILNES TAPPING BANDS FOR POLYETHYLENE PIPE (PE)

GM60C - Tapping Bands For Polyethylene Pipe (PE): Pipe Size 180 - 315mm

GM60C Tapping Band Specifications

Applications: Mechanical tapping bands provides a means for the connection of service pipes from a pipeline.

GM60C Tapping Bands are suitable for the following products:

- AS/NZS4130 MDPE, HDPE

Product Standard: MP52-SPEC025

Pressure Rating: PN16

Metallic Material: AS1565 Gunmetal

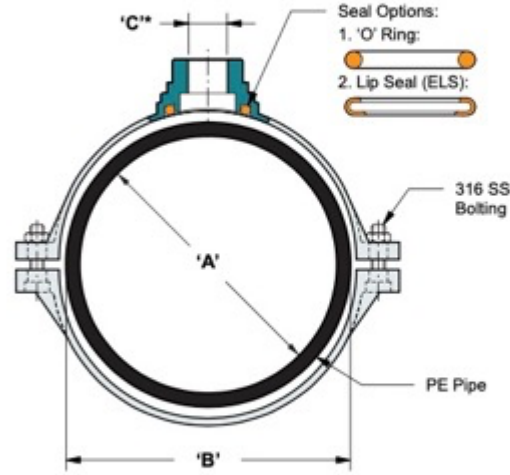
Bolting: 316 Stainless Steel

Seal: AS1646 Nitrile Rubber

Potable Water Compliance: AS4020

Product Code Specification:

GM60C18020ELS



TAPPING BANDS PE
Pipe Size 180 - 315mm

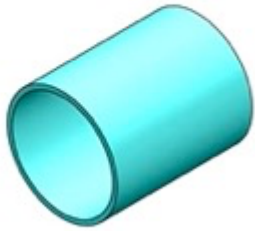
Product code	Description	Typical dimensions				Alternative Product Code
		Nominal Diameter (mm) 'A'	Pipe OD (mm) 'B'	Tapping Size BSP (mm) 'C'	Tapping Size BSP (in) 'C'	
GM60C18020	180X20 T/BAND G/METAL MDPE 316 SS BOLTING	180	180	20	¾"	-
GM60C18020ELS	180X20 T/BAND G/METAL MDPE ELS & 316 SS BOLTING	180	180	20	¾"	-
GM60C18025	180X25 T/BAND G/METAL MDPE ELS & 316 SS BOLTING	180	180	25	1"	-
GM60C18025ELS	180X25 T/BAND G/METAL MDPE 316 SS BOLTING	180	180	25	1"	-
GM60C18032	180X32 T/BAND G/METAL MDPE 316 SS BOLTING	180	180	32	1¼"	-
GM60C18040	180X40 T/BAND G/METAL MDPE 316 SS BOLTING	180	180	40	1½"	-
GM60C18050	180X50 T/BAND G/METAL MDPE 316 SS BOLTING	180	180	50	2"	-
GM60C20050	200X50 T/BAND G/METAL MDPE 316 SS BOLTING	200	200	50	2"	GM60A17550
GM60C22520	225X20 T/BAND G/METAL MDPE 316 SS BOLTING	225	225	20	¾"	GM60A20020
GM60C22540	225X40 T/BAND G/METAL MDPE 316 SS BOLTING	225	225	40	1½"	GM60A20040
GM60C22550	225X50 T/BAND G/METAL MDPE 316 SS BOLTING	225	225	50	2"	GM60A20050
GM60C25020	250X20 T/BAND G/METAL MDPE 316 SS BOLTING	250	250	20	¾"	GM60A22520
GM60C25025	250X25 T/BAND G/METAL MDPE 316 SS BOLTING	250	250	25	1"	GM60A22525
GM60C25032	250X32 T/BAND G/METAL MDPE 316 SS BOLTING	250	250	32	1¼"	GM60A22532
GM60C25040	250X40 T/BAND G/METAL MDPE 316 SS BOLTING	250	250	40	1½"	GM60A22540
GM60C25050	250X50 T/BAND G/METAL MDPE 316 SS BOLTING	250	250	50	2"	GM60A22550
GM60C28020	280X20 T/BAND G/METAL MDPE 316 SS BOLTING	280	280	20	¾"	GM60A25020
GM60C28032	280X32 T/BAND G/METAL MDPE 316 SS BOLTING	280	280	32	1¼"	GM60A25032
GM60C28040	280X40 T/BAND G/METAL MDPE 316 SS BOLTING	280	280	40	1½"	GM60A25040
GM60C28050	280X50 T/BAND G/METAL MDPE 316 SS BOLTING	280	280	50	2"	GM60A25050
GM60C31520	315X20 T/BAND G/METAL MDPE 316 SS BOLTING	315	315	20	¾"	GM60A30020
GM60C31525	315X25 T/BAND G/METAL MDPE 316 SS BOLTING	315	315	25	1"	GM60A30025
GM60C31540	315X40 T/BAND G/METAL MDPE 316 SS BOLTING	315	315	40	1½"	GM60A30040
GM60C31550	315X50 T/BAND G/METAL MDPE 316 SS BOLTING	315	315	50	2"	GM60A30050

NOTE:

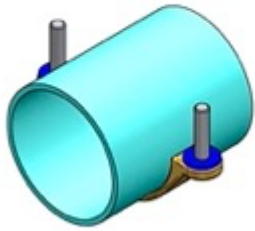
- For installation detail, refer to installation instructions.
- Refer to thread standard Series 90° Sealing Internal Parallel Thread. Refer to AS1722.1 for further details.
- Refer to pipe product standard for actual pipe tolerance, e.g. AS4765 for Mpvic pipe tolerances.
- The illustration shown is intended to serve as a guide only. Detailed drawings and specification can be obtained by contacting the nearest sales office.

MILNES[®] INSTALLATION GUIDELINES FOR MILNES TAPPING BANDS


STEP 1: PREPARE THE AREA OF THE PIPE TO BE COVERED BY THE TAPPING BANDS BY REMOVING ALL DIRT AND LOOSE MATERIALS.




STEP 2: POSITION THE BOTTOM HALF OF THE TAPPING BAND WITH BOLT AND SPACER (OR SMALL O RING) IN PLACE MAKING SURE IT IS AWAY FROM THE SCORED, PITTED, DAMAGED AREAS, AS THIS WILL NOT PROVIDE A GOOD SEALING AREA.




STEP 3: FIT THE TOP OF THE TAPPING BAND AROUND THE PIPE SO THAT THE BOLTS PASS THROUGH THE BOLT HOLES IN THE TOP TAPPING BAND. MAKE SURE THE LIP SEAL OR O RING IS PROPERLY PLACED INSIDE THE TOP TAPPING BAND. THE LIP SEAL SHOULD BE PLACED IN THE SEALING GROOVE WITH THE SHARP INNER SIDE OF THE LIP SEAL FACING OUT TOWARDS THE PIPE OR A SMALL MOULDING LINE RUNNING AROUND THE PIPE. IF THE LIP SEAL IS PLACED IN INCORRECT POSITION THE JOINT MAY LEAK.



STEP 4: WITH ONE HAND UNDERNEATH THE BOTTOM HALF OF THE TAPPING BAND PRESSING UPWARDS, LOCATE THE BOLT AND SCREW ON THE NUTS SUPPLIED. FINGER TIGHTEN THE NUTS SO THAT THE GAP BETWEEN THE TWO HALVES OF THE TAPPING BAND IS EQUAL ON BOTH SIDES. TIGHTEN THE NUTS TO THE TIGHTENING TORQUES AS SHOWN ON THE LABEL.



CUTOUT SECTION VIEW OF THE MILNES TAPPING BAND ASSEMBLY

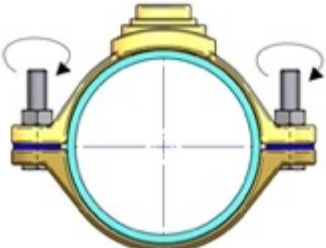


RevNo: Revision note	By	Date	MILNES[®]	9-15 Radford Road, PO Box 312, Reservoir VIC, 3073 Ph: 1800 335 303 Fax: 1800 336 308 www.milnes-gplc.com.au	INSTALLATION GUIDELINES FOR MILNES TAPPING BANDS
A INITIAL DRAWING	F.M.	10/02/11			
B TITLE SHEET MODIFIED	F.M.	04/05/11	DESIGNED F.M. 10/02/11	CHECKED S.S. 10/02/11	APPROVED H.B. 10/02/11
			DRAWN F.M. 10/02/11	SUBMITTED	SCALE NTS
					SHEET 1/2
					A3
					DWG NO. 3906
					REV B

MILNES[®] INSTALLATION GUIDELINES FOR MILNES TAPPING BANDS

DIRECTIONS FOR USE:

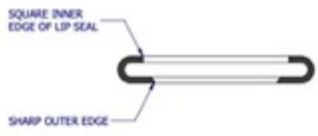
- PREPARE THE AREA OF THE PIPE TO BE COVERED BY THE TAPPING BANDS BY REMOVING ALL DIRT AND LOOSE MATERIALS.
- POSITION THE BOTTOM HALF OF THE TAPPING BAND MAKING SURE IT IS AWAY FROM SCORED, PITTED OR DAMAGED AREAS, AS THIS WILL NOT PROVIDE A GOOD SEALING AREA.
- FIT THE TOP OF THE TAPPING BAND AROUND THE PIPE SO THAT THE BOLT PASS THROUGH THE BOLT HOLES IN THE TOP OF THE TAPPING BAND.
- WITH ONE HAND UNDERNEATH THE BOTTOM HALF OF THE TAPPING BAND PRESSING UPWARDS, LOCATE THE BOLT HOLES AND SCREW ON THE NUTS SUPPLIED WITH THE OTHER HAND.
- FINGER TIGHTEN THE NUTS SO THAT THE GAP BETWEEN THE TWO HALVES OF THE TAPPING BANDS IS EQUAL ON BOTH SIDES.
- TIGHTEN THE NUTS TO 15N/MS (20Nm).




ADDITIONAL REQUIREMENTS FOR LIP SEALS:

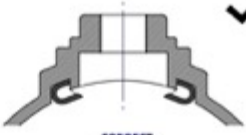
WHEN INSTALLING TAPPING BANDS WITH LIP SEALS, MAKE SURE THE LIP SEAL IS IN THE CORRECT POSITION. THE LIP SEAL SHOULD BE PLACED IN THE SEALING GROOVE WITH THE SHARP INNER SIDE OF THE LIP SEAL FACING OUT TOWARDS THE PIPE OR A SMALL MOULDING LINE RUNNING AROUND THE LIP SEAL ALSO INDICATES THIS SHOULD BE FACING DOWN TOWARDS THE PIPE. IF THE LIP SEAL IS PLACED IN THE INCORRECT POSITION THE JOINT MAY LEAK.

LIP SEAL (ELS) INSTALLATION:





INCORRECT



CORRECT

RevNo: Revision note	By	Date	MILNES[®]	9-15 Radford Road, PO Box 312, Reservoir VIC, 3073 Ph: 1800 335 303 Fax: 1800 336 308 www.milnes-gplc.com.au	INSTALLATION GUIDELINES FOR MILNES TAPPING BANDS
A INITIAL DRAWING	F.M.	10/02/11			
B TITLE SHEET MODIFIED	F.M.	04/05/11	DESIGNED F.M. 10/02/11	CHECKED S.S. 10/02/11	APPROVED H.B. 10/02/11
			DRAWN F.M. 10/02/11	SUBMITTED	SCALE NTS
					SHEET 2/2
					A3
					DWG NO. 3906
					REV B

APPENDIX B - QUALITY CERTIFICATIONS

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

**TABLE B1
IPLEX PIPELINES AUSTRALIA PTY LIMITED– MANAGEMENT SYSTEMS**

Multiple Sites	
Quality Systems Standard	ISO 9002:2015
Certification Licence No.	QEC0037
Certifying Agency	SAI Global
First Date of Certification	3 April 1990
Current Date of Certification	17 December 2020
Expiry Date of Certification	9 January 2024

**TABLE B2
NORTHERN IRON AND BRASS FOUNDRY PTY LTD – MANAGEMENT SYSTEMS**

22 Meyer Avenue Innisfail Qld	
Quality Systems Standard	ISO 9002:2015
Certification Licence No.	QEC0104
Certifying Agency	SAI Global
First Date of Certification	10 February 1989
Current Date of Certification	13 June 2023
Expiry Date of Certification	2 June 2026

**TABLE B3
RICSSON CO LTD – MANAGEMENT SYSTEMS**

37 You Yi Da Poad Nan Cun Town Pingdu City Qindau Shandong China	
Quality Systems Standard	ISO 9002:2015
Certification Licence No.	0196-2003-AQ-RGC-RvA
Certifying Agency	DNV-GL
First Date of Certification	18 December 2002
Current Date of Certification	18 December 2020
Expiry Date of Certification	18 December 2023

TABLE B4
NORTHERN IRON AND BRASS FOUNDRY PTY LTD – PRODUCT CERTIFICATION

22 Meyer Avenue Innisfail Qld	
Product Standard/Spec.	AS 4793:2020
Certificate No.	SMKP00134
Issuing Certification Body	SAI Global
First Date of Certification	23 December 2009
Current Date of Certification	23 August 2023
Expiry Date of Certification	22 June 2026



CERTIFICATE OF REGISTRATION

This is to certify that:

Iplex Pipelines Australia Pty Limited

ABN 56 079 613 308

Cnr Southpine & Johnstone Roads Strathpine QLD 4500 AUSTRALIA
35 Alfred Road Chipping Norton NSW 2170 AUSTRALIA
31 Terry Court Thurgoona NSW 2640 AUSTRALIA
884 Ingham Road Bohle QLD 4818 AUSTRALIA
Philip Highway Elizabeth SA 5112 AUSTRALIA
9-15 Radford Road Reservoir VIC 3073 AUSTRALIA

operates a

QUALITY MANAGEMENT SYSTEM

which complies with the requirements of

ISO 9001:2015

for the following scope

The design, manufacture and distribution of rigid PVC pipe, conduit and fittings, polyethylene, PB-1 pipe, polypropylene pipe and fittings and associated fittings for the water supply, sewerage, drainage, electrical, mining, gas, rural and telecommunications industries. Scope also includes sourcing and distribution of complementary products.

Certificate No: QEC0037

Issued: 17 December 2020

Originally Certified: 3 April 1990

Expires: 9 January 2024

Current Certification: 17 December 2020

Frank Camasta
Global Head of Technical Services
SAI Global Assurance



ISO 9001

JAS-ANZ



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/>



SAI GLOBAL



CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

Northern Iron and Brass Foundry Pty Ltd

Main Site: 22 Meyer Avenue, Innisfail, Queensland, 4860, Australia
has been registered by INTERTEK SAI Global as conforming to the
requirements of:

ISO 9001:2015

Hardcopy Certificate Required: true

The management system is applicable to:

Manufacture of products such as fittings for the water industry;
production of ductile iron castings up to 5 tonne and copper based
alloy castings up to 1 tonne, and aluminium castings up to ½ tonne,
for the water and general engineering industries; including special ni-
hard and ni-resist castings.

Certificate Number:

QEC0104

Initial Certification Date:

10 February 1989

Date of Certification Decision:

13 June 2023

Issuing Date:

13 June 2023

Valid Until:

02 June 2026



Calin Moldovean

President, Business Assurance

SAI Global Certification Services Pty. Ltd.
Level 7, Suite 7.01
45 Clarence Street
Sydney NSW 2000
Australia



In the issuance of this certificate, INTERTEK SAI Global assumes no liability to any party other than to the Client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with INTERTEK SAI Global requirements for systems certification. Validity may be confirmed via email at certificate.validation@intertek.com or by scanning the code to the right with a smartphone. The certificate remains the property of INTERTEK SAI Global, to whom it must be returned upon request.



MANAGEMENT SYSTEM CERTIFICATE

Certificate No.:
0196-2003-AQ-RGC-RvA

Initial certification date:
18 December, 2002

Valid:
18 December, 2020 – 18 December, 2023

This is to certify that the management system of

Ricsson Co., Ltd.

37 You Yi Da Road, Nan Cun Town, Pingdu City, Qingdao, Shandong, P.R. China
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:
GB/T 19001-2016/ISO 9001:2015

This certificate is valid for the following scope:

**Design and Manufacture of Gate Valves, Ball Valves, Check Valves and
Associated Pipe Fittings for Plumbing and Heating Water Supply System.
Design and Manufacture of Road Barriers and Associated Products**

Place and date:
Shanghai, 04 December, 2020



The RvA is a signatory to the IAF MLA

For the issuing office:
DNV GL – Business Assurance
Suite A, Building 9, No.1591 Hongqiao
Road, Changning District, Shanghai
200336, P.R. China
TEL: +86 21 32799000

Zhu Hai Ming
Management Representative



Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.
ACCREDITED UNIT: DNV GL Business Assurance B.V., ZWOLSEWEG 1, 2994 LB, BARENDRECHT, NETHERLANDS. TEL: +31102922689. assurance.dnvgl.com



STANDARDSMARK LICENCE

SAI Global hereby grants:

Northern Iron and Brass Foundry Pty Ltd

ABN 83 078 991 803

22 Meyer Avenue, Innisfail, QLD 4860, Australia

StandardsMark Licence

Manufactured to:

AS 4793:2020 - Mechanical tapping bands for waterworks purposes

"the StandardsMark Licensee" the right to use the STANDARDSMARK as shown below only in respect of the goods described and detailed in the Schedule which are produced by the Licensee or on behalf of the Licensee* and which comply with the appropriate Standard referred to above as from time to time amended. The Licence is granted subject to the rules governing the use of the STANDARDSMARK and the Terms and Conditions for certification and licence. The Licensee covenants to comply with all the Rules and Terms and Conditions.

Licence No: SMKP00134

Issued : 23 August 2023

Expires : 22 June 2026

Originally Certified : 23 December 2009

Current Certification : 23 August 2023

Calin Moldovean
President, Business Assurance
SAI Global Assurance



* 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") 650 Lorimer Street, Port Melbourne VIC 3207, 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, for the list of product models.



SCHEDULE TO STANDARDSMARK LICENCE

SAI Global hereby grants:

Northern Iron and Brass Foundry Pty Ltd

22 Meyer Avenue, Innisfail, QLD 4860, Australia

StandardsMark Licence

Manufactured to:

AS 4793:2020 - Mechanical tapping bands for waterworks purposes

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

Model Identification	Model Name	Brand Name	Product Description	OD Pipe Range	Nominal Size	Maximum Operating Pressure	Tapping Size	Date Endorsed
GM60A10020	Tapping Band, Type F, Upvc, Misc. Opvc	MILNES	100X20 G/METAL S1 PVC 316 SS BOLTING	S1 DN100	DN100	PN16	3/4"RP	22 Aug 2023
GM60A10025	Tapping Band, Type F, Upvc, Misc. Opvc	MILNES	100X25 G/METAL S1 PVC 316 SS BOLTING	S1 DN100	DN100	PN16	1"RP	22 Aug 2023
GM60A10032	Tapping Band, Type F, Upvc, Misc. Opvc	MILNES	100X32 G/METAL S1 PVC 316 SS BOLTING	S1 DN100	DN100	PN16	1 1/4"RP	22 Aug 2023
GM60A10040	Tapping Band, Type F, Upvc, Misc. Opvc	MILNES	100X40 G/METAL S1 PVC 316 SS BOLTING	S1 DN100	DN100	PN16	1"RP	22 Aug 2023
GM60A10050	Tapping Band, Type F, Upvc, Misc. Opvc	MILNES	100X50 G/METAL S1 PVC 316 SS BOLTING	S1 DN100	DN100	PN16	2"RP	22 Aug 2023
GM60A15015	Tapping Band, Type F, Upvc, Misc. Opvc, PE	MILNES	150X15 G/METAL S1 PVC 316 SS BOLTING	S1 DN150 / DN160 PE	DN150	PN16	1/2"RP	22 Aug 2023
GM60A15020	Tapping Band, Type F, Upvc, Misc. Opvc, PE	MILNES	150X20 G/METAL S1 PVC 316 SS BOLTING	S1 DN150 / DN160 PE	DN150	PN16	3/4"RP	22 Aug 2023
GM60A15025	Tapping Band, Type F, Upvc, Misc. Opvc, PE	MILNES	150X25 G/METAL S1 PVC 316 SS BOLTING	S1 DN150 / DN160 PE	DN150	PN16	1"RP	22 Aug 2023
GM60A15032	Tapping Band, Type F, Upvc, Misc. Opvc, PE	MILNES	150X32 G/METAL S1 PVC 316 SS BOLTING	S1 DN150 / DN160 PE	DN150	PN16	1 1/4"RP	22 Aug 2023
GM60A15040	Tapping Band, Type F, Upvc, Misc. Opvc, PE	MILNES	150X40 G/METAL S1 PVC 316 SS BOLTING	S1 DN150 / DN160 PE	DN150	PN16	1 1/2"RP	22 Aug 2023
GM60A15050	Tapping Band, Type F, Upvc, Misc. Opvc, PE	MILNES	150X50 G/METAL S1 PVC 316 SS BOLTING	S1 DN150 / DN160 PE	DN150	PN16	2"RP	22 Aug 2023
GM60A20020	Tapping Band, Type F, Upvc, Misc. Opvc, PE	MILNES	200X20 G/METAL S1 PVC 316 SS BOLTING	S1 DN200 / DN225 PE	DN200	PN16	3/4"RP	22 Aug 2023
GM60A20025	Tapping Band, Type F, Upvc, Misc. Opvc, PE	MILNES	200X25 G/METAL S1 PVC 316 SS BOLTING	S1 DN200 / DN225 PE	DN200	PN16	1"RP	22 Aug 2023
GM60A20032	Tapping Band, Type F, Upvc, Misc. Opvc, PE	MILNES	200X32 G/METAL S1 PVC 316 SS BOLTING	S1 DN200 / DN225 PE	DN200	PN16	1 1/4"RP	22 Aug 2023
GM60A20040	Tapping Band, Type F, Upvc, Misc. Opvc, PE	MILNES	200X40 G/METAL S1 PVC 316 SS BOLTING	S1 DN200 / DN225 PE	DN200	PN16	1 1/2"RP	22 Aug 2023
GM60A20050	Tapping Band, Type F, Upvc, Misc. Opvc, PE	MILNES	200X50 G/METAL S1 PVC 316 SS BOLTING	S1 DN200 / DN225 PE	DN200	PN16	2"RP	22 Aug 2023
GM60A22520	Tapping Band, Type F, Upvc, Misc. Opvc, PE	MILNES	225X20 G/METAL S1 PVC 316 SS BOLTING	S1 DN225 / DN250 PE	DN225	PN16	3/4"RP	22 Aug 2023
GM60A22525	Tapping Band, Type F, Upvc, Misc. Opvc, PE	MILNES	225X25 G/METAL S1 PVC 316 SS BOLTING	S1 DN225 / DN250 PE	DN225	PN16	1"RP	22 Aug 2023

Licence No: SMKP00134

Issued Date: 23 August 2023

This schedule supersedes all previously issued schedules



* For details of manufacture, refer to the licensee

The STANDARDSMARK is a registered certification trademark of SAI Global Pty Limited (A.C.N. 050 644 642) and is issued under licence by SAI Global Certification Services Pty Limited (ACN 108 716 669) ("SAI Global") 650 Lorimer Street, Port Melbourne VIC 3207, GPO Box 5420 Sydney NSW 2001. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. Refer to the Schedule for the list of product models.

SCHEDULE TO STANDARDSMARK LICENCE

Model Identification	Model Name	Brand Name	Product Description	OD Pipe Range	Nominal Size	Maximum Operating Pressure	Tapping Size	Date Endorsed
GM60A2532	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	25X32 G/METAL S1 PVC 316 SS BOLTING	S1 DN25 / DN250 PE	DN25	PN16	1 1/4"RP	22 Aug 2023
GM60A2540	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	25X40 G/METAL S1 PVC 316 SS BOLTING	S1 DN25 / DN250 PE	DN25	PN16	1 1/2"RP	22 Aug 2023
GM60A2550	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	25X50 G/METAL S1 PVC 316 SS BOLTING	S1 DN25 / DN250 PE	DN25	PN16	2"RP	22 Aug 2023
GM60A2520	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	25X20 G/METAL S1 PVC 316 SS BOLTING	S1 DN250 / DN280 PE	DN250	PN16	3/4"RP	22 Aug 2023
GM60A2525	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	25X25 G/METAL S1 PVC 316 SS BOLTING	S1 DN250 / DN280 PE	DN250	PN16	1"RP	22 Aug 2023
GM60A2532	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	25X32 G/METAL S1 PVC 316 SS BOLTING	S1 DN250 / DN280 PE	DN250	PN16	1 1/4"RP	22 Aug 2023
GM60A2540	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	25X40 G/METAL S1 PVC 316 SS BOLTING	S1 DN250 / DN280 PE	DN250	PN16	1 1/2"RP	22 Aug 2023
GM60A2550	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	25X50 G/METAL S1 PVC 316 SS BOLTING	S1 DN250 / DN280 PE	DN250	PN16	2"RP	22 Aug 2023
GM60A3020	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	30X20 G/METAL S1 PVC 316 SS BOLTING	S1 DN300 / DN315 PE	DN300	PN16	3/4"RP	22 Aug 2023
GM60A3025	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	30X25 G/METAL S1 PVC 316 SS BOLTING	S1 DN300 / DN315 PE	DN300	PN16	1"RP	22 Aug 2023
GM60A3032	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	30X32 G/METAL S1 PVC 316 SS BOLTING	S1 DN300 / DN315 PE	DN300	PN16	1 1/4"RP	22 Aug 2023
GM60A3040	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	30X40 G/METAL S1 PVC 316 SS BOLTING	S1 DN300 / DN315 PE	DN300	PN16	1 1/2"RP	22 Aug 2023
GM60A3050	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	30X50 G/METAL S1 PVC 316 SS BOLTING	S1 DN300 / DN315 PE	DN300	PN16	2"RP	22 Aug 2023
GM60A3750	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	37X20 G/METAL S1 PVC 316 SS BOLTING	S1 DN375 / DN400 PE	DN375	PN16	3/4"RP	22 Aug 2023
GM60A3725	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	37X25 G/METAL S1 PVC 316 SS BOLTING	S1 DN375 / DN400 PE	DN375	PN16	1"RP	22 Aug 2023
GM60A3732	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	37X32 G/METAL S1 PVC 316 SS BOLTING	S1 DN375 / DN400 PE	DN375	PN16	1 1/4"RP	22 Aug 2023
GM60A3740	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	37X40 G/METAL S1 PVC 316 SS BOLTING	S1 DN375 / DN400 PE	DN375	PN16	1 1/2"RP	22 Aug 2023
GM60A3750	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	37X50 G/METAL S1 PVC 316 SS BOLTING	S1 DN375 / DN400 PE	DN375	PN16	2"RP	22 Aug 2023
GM60A4020	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	40X20 G/METAL S1 PVC 316 SS BOLTING	S1 DN40	DN40	PN16	3/4"RP	22 Aug 2023
GM60A4025	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	40X25 G/METAL S1 PVC 316 SS BOLTING	S1 DN40	DN40	PN16	1"RP	22 Aug 2023
GM60A5020	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	50X20 G/METAL S1 PVC 316 SS BOLTING	S1 DN50	DN50	PN16	3/4"RP	22 Aug 2023
GM60A5025	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	50X25 G/METAL S1 PVC 316 SS BOLTING	S1 DN50	DN50	PN16	1"RP	22 Aug 2023
GM60A5032	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	50X32 G/METAL S1 PVC 316 SS BOLTING	S1 DN50	DN50	PN16	1 1/4"RP	22 Aug 2023
GM60A5040	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	50X40 G/METAL S1 PVC 316 SS BOLTING	S1 DN50	DN50	PN16	1 1/2"RP	22 Aug 2023
GM60A8015	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	80X15 G/METAL S1 PVC 316 SS BOLTING	S1 DN80 / DN 90PE	DN80	PN16	1/2"RP	22 Aug 2023
GM60A8020	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	80X20 G/METAL S1 PVC 316 SS BOLTING	S1 DN80 / DN 90PE	DN80	PN16	3/4"RP	22 Aug 2023
GM60A8025	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	80X25 G/METAL S1 PVC 316 SS BOLTING	S1 DN80 / DN 90PE	DN80	PN16	1"RP	22 Aug 2023
GM60A8032	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	80X32 G/METAL S1 PVC 316 SS BOLTING	S1 DN80 / DN 90PE	DN80	PN16	1 1/4"RP	22 Aug 2023
GM60A8040	Tapping Band, Type F, Upvc, Mpsc, Opvc, PE	MILNES	80X40 G/METAL S1 PVC 316 SS BOLTING	S1 DN80 / DN 90PE	DN80	PN16	1 1/2"RP	22 Aug 2023

Licence No: SMKP00134

Issued Date: 23 August 2023

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SCHEDULE TO STANDARDSMARK LICENCE

Model Identification	Model Name	Brand Name	Product Description	OD Pipe Range	Nominal Size	Maximum Operating Pressure	Tapping Size	Date Endorsed
GM90AR50	Tapping Band, Type F, Upvc, Movc, Opvc, PE	MLNES	80X50 G/METAL S1 PVC 316 SS BOLTING	S1 DN80 / DN 90PE	DN80	PN16	2RP	22 Aug 2023
GM90B10015	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	100X15 G/METAL AC/S2 316 SS BOLTING	S2 DN100	DN100	PN16	1/2"RP	22 Aug 2023
GM90B10020	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	100X20 G/METAL AC/S2 316 SS BOLTING	S2 DN100	DN100	PN16	3/4"RP	22 Aug 2023
GM90B10020ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	100X20 G/METAL AC/S2 316 SS BOLTING	S2 DN100	DN100	PN16	3/4"RP	22 Aug 2023
GM90B10025	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	100X25 G/METAL AC/S2 316 SS BOLTING	S2 DN100	DN100	PN16	1"RP	22 Aug 2023
GM90B10025ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	100X25 G/METAL AC/S2 316 SS BOLTING	S2 DN100	DN100	PN16	1"RP	22 Aug 2023
GM90B10032	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	100X32 G/METAL AC/S2 316 SS BOLTING	S2 DN100	DN100	PN16	1 1/4"RP	22 Aug 2023
GM90B10032ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	100X32 G/METAL AC/S2 316 SS BOLTING	S2 DN100	DN100	PN16	1 1/4"RP	22 Aug 2023
GM90B10040	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	100X40 G/METAL AC/S2 316 SS BOLTING	S2 DN100	DN100	PN16	1 1/2"RP	22 Aug 2023
GM90B10040ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	100X40 G/METAL AC/S2 316 SS BOLTING	S2 DN100	DN100	PN16	1 1/2"RP	22 Aug 2023
GM90B10060	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	100X60 G/METAL AC/S2 316 SS BOLTING	S2 DN100	DN100	PN16	2"RP	22 Aug 2023
GM90B10060ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	100X60 G/METAL AC/S2 316 SS BOLTING	S2 DN100	DN100	PN16	2"RP	22 Aug 2023
GM90B15015	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	150X15 G/METAL AC/S2 316 SS BOLTING	S2 DN150	DN150	PN16	1/2"RP	22 Aug 2023
GM90B15020	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	150X20 G/METAL AC/S2 316 SS BOLTING	S2 DN150	DN150	PN16	3/4"RP	22 Aug 2023
GM90B15020ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	150X20 G/METAL AC/S2 316 SS BOLTING	S2 DN150	DN150	PN16	3/4"RP	22 Aug 2023
GM90B15025	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	150X25 G/METAL AC/S2 316 SS BOLTING	S2 DN150	DN150	PN16	1"RP	22 Aug 2023
GM90B15025ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	150X25 G/METAL AC/S2 316 SS BOLTING	S2 DN150	DN150	PN16	1"RP	22 Aug 2023
GM90B15032	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	150X32 G/METAL AC/S2 316 SS BOLTING	S2 DN150	DN150	PN16	1 1/4"RP	22 Aug 2023
GM90B15032ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	150X32 G/METAL AC/S2 316 SS BOLTING	S2 DN150	DN150	PN16	1 1/4"RP	22 Aug 2023
GM90B15040	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	150X40 G/METAL AC/S2 316 SS BOLTING	S2 DN150	DN150	PN16	1 1/2"RP	22 Aug 2023
GM90B15040ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	150X40 G/METAL AC/S2 316 SS BOLTING	S2 DN150	DN150	PN16	1 1/2"RP	22 Aug 2023
GM90B15060	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	150X60 G/METAL AC/S2 316 SS BOLTING	S2 DN150	DN150	PN16	2"RP	22 Aug 2023
GM90B15060ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	150X60 G/METAL AC/S2 316 SS BOLTING	S2 DN150	DN150	PN16	2"RP	22 Aug 2023
GM90B20020	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	200X20 G/METAL AC/S2 316 SS BOLTING	S2 DN200	DN200	PN16	3/4"RP	22 Aug 2023
GM90B20020ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	200X20 G/METAL AC/S2 316 SS BOLTING	S2 DN200	DN200	PN16	3/4"RP	22 Aug 2023
GM90B20025	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	200X25 G/METAL AC/S2 316 SS BOLTING	S2 DN200	DN200	PN16	1"RP	22 Aug 2023
GM90B20025ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	200X25 G/METAL AC/S2 316 SS BOLTING	S2 DN200	DN200	PN16	1"RP	22 Aug 2023
GM90B20032	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	200X32 G/METAL AC/S2 316 SS BOLTING	S2 DN200	DN200	PN16	1 1/4"RP	22 Aug 2023
GM90B20032ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AC	MLNES	200X32 G/METAL AC/S2 316 SS BOLTING	S2 DN200	DN200	PN16	1 1/4"RP	22 Aug 2023

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SCHEDULE TO STANDARDSMARK LICENCE

Model Identification	Model Name	Brand Name	Product Description	OD Pipe Range	Nominal Size	Maximum Operating Pressure	Tapping Size	Date Endorsed
GM0820040	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	200X40 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN200	DN200	PN16	1 1/2"RP	22 Aug 2023
GM0820040ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	200X40 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN200	DN200	PN16	1 1/2"RP	22 Aug 2023
GM0820050	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	200X50 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN200	DN200	PN16	2"RP	22 Aug 2023
GM0820050ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	200X50 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN200	DN200	PN16	2"RP	22 Aug 2023
GM0822520	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	225X25 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN225	DN225	PN16	3/4"RP	22 Aug 2023
GM0822520ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	225X25 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN225	DN225	PN16	3/4"RP	22 Aug 2023
GM0822525	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	225X25 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN225	DN225	PN16	1"RP	22 Aug 2023
GM0822525ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	225X25 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN225	DN225	PN16	1"RP	22 Aug 2023
GM0822532	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	225X32 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN225	DN225	PN16	1 1/4"RP	22 Aug 2023
GM0822532ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	225X32 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN225	DN225	PN16	1 1/4"RP	22 Aug 2023
GM0822540	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	225X40 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN225	DN225	PN16	1 1/2"RP	22 Aug 2023
GM0822540ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	225X40 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN225	DN225	PN16	1 1/2"RP	22 Aug 2023
GM0822550	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	225X50 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN225	DN225	PN16	2"RP	22 Aug 2023
GM0822550ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	225X50 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN225	DN225	PN16	2"RP	22 Aug 2023
GM0825020	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	250X20 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN250	DN250	PN16	3/4"RP	22 Aug 2023
GM0825020ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	250X20 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN250	DN250	PN16	3/4"RP	22 Aug 2023
GM0825025	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	250X25 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN250	DN250	PN16	1"RP	22 Aug 2023
GM0825025ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	250X25 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN250	DN250	PN16	1"RP	22 Aug 2023
GM0825032	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	250X32 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN250	DN250	PN16	1 1/4"RP	22 Aug 2023
GM0825032ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	250X32 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN250	DN250	PN16	1 1/4"RP	22 Aug 2023
GM0825040	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	250X40 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN250	DN250	PN16	1 1/2"RP	22 Aug 2023
GM0825040ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	250X40 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN250	DN250	PN16	1 1/2"RP	22 Aug 2023
GM0825050	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	250X50 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN250	DN250	PN16	2"RP	22 Aug 2023
GM0825050ELS	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	250X50 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN250	DN250	PN16	2"RP	22 Aug 2023
GM0830020	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	300X20 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN300	DN300	PN16	3/4"RP	22 Aug 2023
GM0830025	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	300X25 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN300	DN300	PN16	1"RP	22 Aug 2023
GM0830032	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	300X32 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN300	DN300	PN16	1 1/4"RP	22 Aug 2023
GM0830040	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	300X40 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN300	DN300	PN16	1 1/2"RP	22 Aug 2023
GM0830050	Tapping Band, Type F, Upvc, Movc, Opvc, AG	MILNES	300X50 G/METAL AC/S2/PVC 316 SS BOLTING	S2 DN300	DN300	PN16	2"RP	22 Aug 2023

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Model Identification	Model Name	Brand Name	Product Description	OD Pipe Range	Nominal Size	Maximum Operating Pressure	Tapping Size	Date Endorsed
GM60837520	Tapping Band, Type F, Upvc, Mpsc, Dpvc, AC	MILNES	375X20 G-METAL AG/S2/PVC 316 SS BOLTING	S2 DN375	DN375	PN16	3/4"RP	22 Aug 2023
GM60837520ELS	Tapping Band, Type F, Upvc, Mpsc, Dpvc, AC	MILNES	375X20 G-METAL AG/S2/PVC 316 SS BOLTING	S2 DN375	DN375	PN16	3/4"RP	22 Aug 2023
GM60837525	Tapping Band, Type F, Upvc, Mpsc, Dpvc, AC	MILNES	375X25 G-METAL AG/S2/PVC 316 SS BOLTING	S2 DN375	DN375	PN16	1"RP	22 Aug 2023
GM60837525ELS	Tapping Band, Type F, Upvc, Mpsc, Dpvc, AC	MILNES	375X25 G-METAL AG/S2/PVC 316 SS BOLTING	S2 DN375	DN375	PN16	1"RP	22 Aug 2023
GM60837532	Tapping Band, Type F, Upvc, Mpsc, Dpvc, AC	MILNES	375X32 G-METAL AG/S2/PVC 316 SS BOLTING	S2 DN375	DN375	PN16	1 1/4"RP	22 Aug 2023
GM60837532ELS	Tapping Band, Type F, Upvc, Mpsc, Dpvc, AC	MILNES	375X32 G-METAL AG/S2/PVC 316 SS BOLTING	S2 DN375	DN375	PN16	1 1/4"RP	22 Aug 2023
GM60837540	Tapping Band, Type F, Upvc, Mpsc, Dpvc, AC	MILNES	375X40 G-METAL AG/S2/PVC 316 SS BOLTING	S2 DN375	DN375	PN16	1 1/2"RP	22 Aug 2023
GM60837540ELS	Tapping Band, Type F, Upvc, Mpsc, Dpvc, AC	MILNES	375X40 G-METAL AG/S2/PVC 316 SS BOLTING	S2 DN375	DN375	PN16	1 1/2"RP	22 Aug 2023
GM60837550	Tapping Band, Type F, Upvc, Mpsc, Dpvc, AC	MILNES	375X50 G-METAL AG/S2/PVC 316 SS BOLTING	S2 DN375	DN375	PN16	2"RP	22 Aug 2023
GM60837550ELS	Tapping Band, Type F, Upvc, Mpsc, Dpvc, AC	MILNES	375X50 G-METAL AG/S2/PVC 316 SS BOLTING	S2 DN375	DN375	PN16	2"RP	22 Aug 2023

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APPENDIX C - SUPPLIER CONTACTS

Iplex Pipelines Australia Pty Limited

Head Office

Cnr South Pine & Johnstone Roads,
Brendale Queensland

Sales and Product Enquiries

Phone: 131086

Email:

QLD/NT: civil.qld@iplexpipelines.com.au

NQ: civil.nq@iplexpipelines.com.au

NSW: civil.nsw@iplexpipelines.com.au

VIC/TAS: civil.vic@iplexpipelines.com.au

SA: civil.sa@iplexpipelines.com.au

WA: wasales@iplexpipelines.com.au

Technical Services: productsupport@iplexpipelines.com.au



Melbourne Office

Wurundjeri Country
Level 8, Suite 8.02
401 Docklands Drive
Docklands VIC 3008

Sydney Office

Gadigal Country
Level 6 75 Elizabeth Street
Sydney NSW 2000
GPO Box 915
Sydney NSW 2001

P +61 (0) 3 8605 7600
email: info@wsaa.asn.au

www.wsaa.asn.au