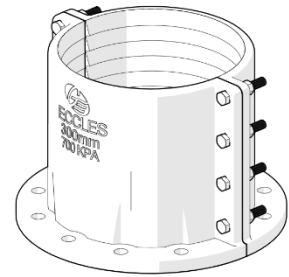


Product Installation Guidelines

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Document No: 001.60.00.00

Eccles Muff Couplings - Aluminium



PRODUCT CODES:

ANSI B16.5 Class 150	
Item Code	Description
ECC-MC50AL-A	Aluminium 50mm Muff Coupling Complete 69 - 71mm Hose, ANSI 150
ECC-MC75AL-A	Aluminium 75mm Muff Coupling Complete 102 - 104mm Hose, ANSI 150
ECC-MC100AL-A	Aluminium 100mm Muff Coupling Comp, 125 - 129mm Hose, ANSI 150
ECC-MC150AL-A	Aluminium 150mm Muff Coupling Comp, 180 - 184mm Hose, ANSI 150
ECC-MC200AL-A	Aluminium 200mm Muff Coupling Comp, 234 - 238mm Hose, ANSI 150
ECC-MC250AL-A	Aluminium 250mm Muff Coupling Comp, 284 - 290mm Hose, ANSI 150
ECC-MC300AL-A	Aluminium 300mm Muff Coupling Comp, 343 - 349mm Hose, ANSI 150

AS 2129 Table D	
Item Code	Description
ECC-MC50AL-DE	Aluminium 50mm Muff Coupling Complete 69 - 71mm Hose, Table D & E
ECC-MC75AL-DE	Aluminium 75mm Muff Coupling Complete 102 - 104mm Hose, Table D & E
ECC-MC100AL-D	Aluminium 100mm Muff Coupling Comp, 125 - 129mm Hose, Table D
ECC-MC150AL-D	Aluminium 150mm Muff Coupling Comp, 180 - 184mm Hose, Table D
ECC-MC200AL-D	Aluminium 200mm Muff Coupling Comp, 234 - 238mm Hose, Table D
ECC-MC250AL-D	Aluminium 250mm Muff Coupling Comp, 284 - 290mm Hose, Table D
ECC-MC300AL-D	Aluminium 300mm Muff Coupling Comp, 343 - 349mm Hose, Table D

AS 2129 Table E	
Item Code	Description
ECC-MC50AL-DE	Aluminium 50mm Muff Coupling Complete 69 - 71mm Hose, Table D & E
ECC-MC75AL-DE	Aluminium 75mm Muff Coupling Complete 102 - 104mm Hose, Table D & E
ECC-MC100AL-E	Aluminium 100mm Muff Coupling Comp, 125 - 129mm Hose, Table E
ECC-MC150AL-E	Aluminium 150mm Muff Coupling Comp, 180 - 184mm Hose, Table E
ECC-MC200AL-E	Aluminium 200mm Muff Coupling Comp, 234 - 238mm Hose, Table E
ECC-MC250AL-E	Aluminium 250mm Muff Coupling Comp, 284 - 290mm Hose, Table E
ECC-MC300AL-E	Aluminium 300mm Muff Coupling Comp, 343 - 349mm Hose, Table E

Blank (No Flange Holes)	
Item Code	Description
ECC-MC350AL-BL	Aluminium 350mm Muff Coupling Comp, 390mm Hose, Blank

SPECIFICATIONS

- The Eccles muff coupling fits leading brands of smooth material handling hose. It is ideal for mining applications and in the harshest environments.
- Robust and sturdy, the Eccles muff coupling is trusted to perform on Australian and International mine sites.
- Available in the following flange hole patterns: ANSI B16.5 Class 150 & AS 2129 Table D and Table E.
- Internal barbed ribs to ensure maximum grip on the hose.
- Marine Grade Aluminium (AS1874 CC601 or A356)

WARNINGS: Special attentions to be paid on notes, photos, images, or drawings of assembly steps marked with the warning symbol.

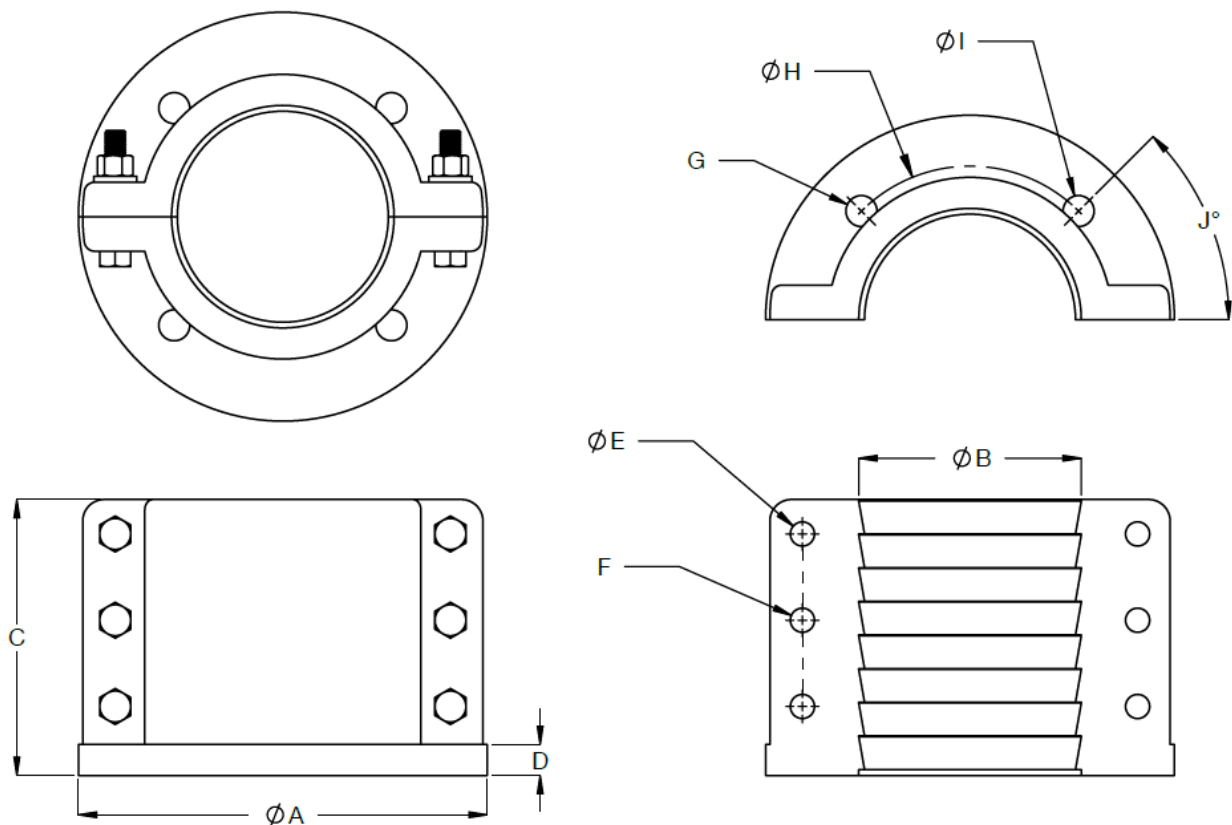


TECHNICAL DATA

Fixings	Galvanised steel tightening bolts, nuts and washers are supplied
Applicable Hose Diameter	69 – 390 mm (varies per coupling size)
Construction	Marine Grade Aluminium
Finish	Aluminium

NOTE: Galvin Engineering continually strive to improve their products. Specifications may change without notice.

DIMENSIONS



NOTE: 1) No. of Flange Holes (G) in table are shown per half. For assembly total number of holes, multiply quantity in table by two.



ECCLES MUFF COUPLING TABLE ANSI B16.5 CLASS 150 (HOLES) FLANGE SPECIFICATION

ITEM CODE	NB	A	B	C	D	E	F	G	H	I	J
		FLANGE OD	HOSE OD	COUPLING LENGTH	FLANGE THICKNESS	BOLT HOLE SIZE	NO. OF BOLT HOLES	NO. OF FLANGE HOLES	FLANGE HOLES PCD	FLANGE HOLES SIZE	FLANGE HOLES ANGLE
ECC-MC50AL-A	50mm	155	69-71	96	15	14	4	2	121 ± 0.2	19	45
ECC-MC75AL-A	75mm	196	102-104	112	16	14	4	2	153 ± 0.2	19	45
ECC-MC100AL-A	100mm	237	125-129	160	18	14	6	3	191 ± 0.2	19	45
ECC-MC150AL-A	150mm	307	180-184	190	18	14	6	3	242 ± 0.3	22	45
ECC-MC200AL-A	200mm	340	234-238	245	21	14	8	3	299 ± 0.2	22	45
ECC-MC250AL-A	250mm	415	284-290	295	24	18	8	5	362 ± 0.5	26	30
ECC-MC300AL-A	300mm	500	343-349	342	26	18	8	5	432 ± 0.5	26	30

ECCLES MUFF COUPLING AS 2129 TABLE D FLANGE SPECIFICATION

ITEM CODE	NB	A	B	C	D	E	F	G	H	I	J
		FLANGE OD	HOSE OD	COUPLING LENGTH	FLANGE THICKNESS	BOLT HOLE SIZE	NO. OF BOLT HOLES	NO. OF FLANGE HOLES	FLANGE HOLES PCD	FLANGE HOLES SIZE	FLANGE HOLES ANGLE
ECC-MC50AL-DE	50mm	155	69-71	96	15	14	4	2	114 ± 0.2	18	45
ECC-MC75AL-DE	75mm	196	102-104	112	16	14	4	2	146 ± 0.2	18	45
ECC-MC100AL-D	100mm	237	125-129	160	18	14	6	2	178 ± 0.2	18	45
ECC-MC150AL-D	150mm	307	180-184	190	18	14	6	3	235 ± 0.3	18	45
ECC-MC200AL-D	200mm	340	234-238	245	21	14	8	3	292 ± 0.2	18	45
ECC-MC250AL-D	250mm	415	284-290	295	24	18	8	3	356 ± 0.5	22	45
ECC-MC300AL-D	300mm	500	343-349	342	26	18	8	5	406 ± 0.5	22	30

ECCLES MUFF COUPLING AS 2129 TABLE E FLANGE SPECIFICATION

ITEM CODE	NB	A	B	C	D	E	F	G	H	I	J
		FLANGE OD	HOSE OD	COUPLING LENGTH	FLANGE THICKNESS	BOLT HOLE SIZE	NO. OF BOLT HOLES	NO. OF FLANGE HOLES	FLANGE HOLES PCD	FLANGE HOLES SIZE	FLANGE HOLES ANGLE
ECC-MC50AL-DE	50mm	155	69-71	96	15	14	4	2	114 ± 0.2	18	45
ECC-MC75AL-DE	75mm	196	102-104	112	16	14	4	2	146 ± 0.2	18	45
ECC-MC100AL-E	100mm	237	125-129	160	18	14	6	3	178 ± 0.2	18	45
ECC-MC150AL-E	150mm	307	180-184	190	18	14	6	3	235 ± 0.3	22	45
ECC-MC200AL-E	200mm	340	234-238	245	21	14	8	3	292 ± 0.2	22	45
ECC-MC250AL-E	250mm	415	284-290	295	24	18	8	5	356 ± 0.5	22	30
ECC-MC300AL-E	300mm	500	343-349	342	26	18	8	5	406 ± 0.5	26	30

ECCLES MUFF COUPLING BLANK (NO FLANGE HOLES)

ITEM CODE	NB	A	B	C	D	E	F	G	H	I	J
		FLANGE OD	HOSE OD	COUPLING LENGTH	FLANGE THICKNESS	BOLT HOLE SIZE	NO. OF BOLT HOLES	NO. OF FLANGE HOLES	FLANGE HOLES PCD	FLANGE HOLES SIZE	FLANGE HOLES ANGLE
ECC-MC350AL-BL	350mm	535	390	350	36	18	10	-	-	-	-

INSTALLATION

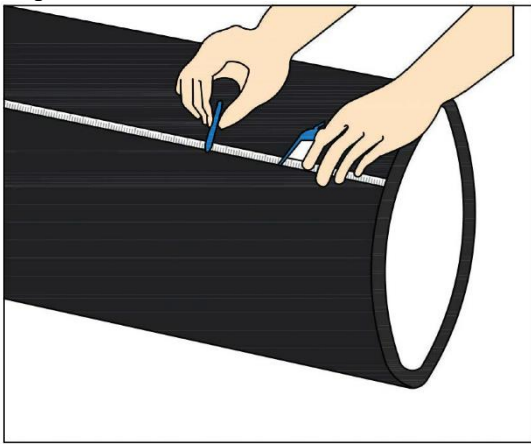
INSTALLATION COMPLIANCE: Galvin Engineering products must be installed in accordance with these installation instructions and in accordance with AS/NZS 3500, the PCA and your local regulatory requirements. Water and/or electrical supply conditions must also comply to the applicable national and/or state standards. Failing to comply with these provisions shall void the product warranty and may affect the performance of the product.



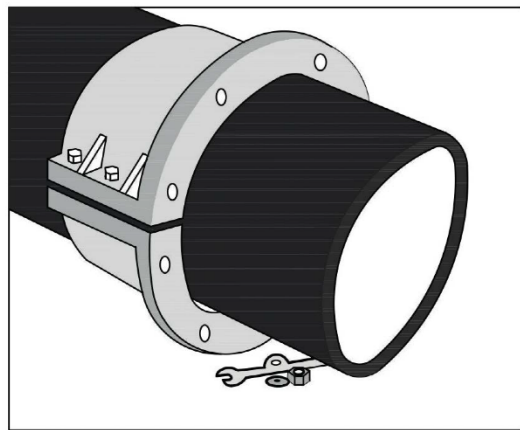
Side flange bolts must be tightened in several stages alternating from one side to the other, e.g. left top, then right top, then left bottom etc. to ensure an even fit.

DO NOT tighten all bolts down one side of the flange before starting to tighten the opposite bolts.

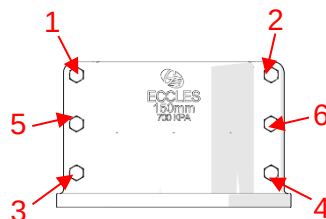
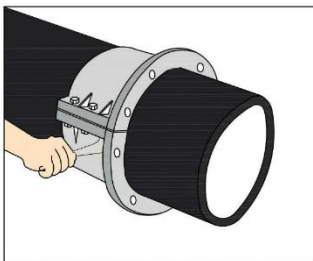
1. Measure and mark the hose to the required length.



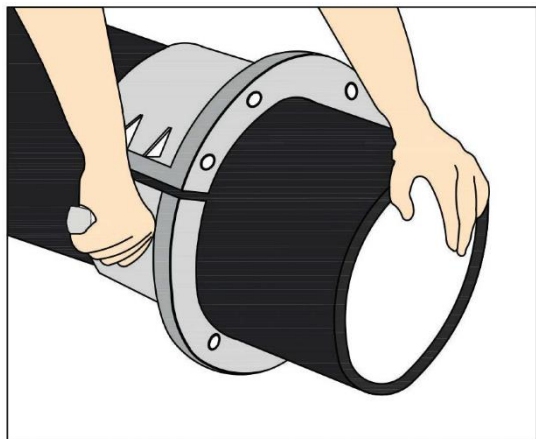
2. Place the two halves of the coupling around the hose approximately 5mm back from the mark.



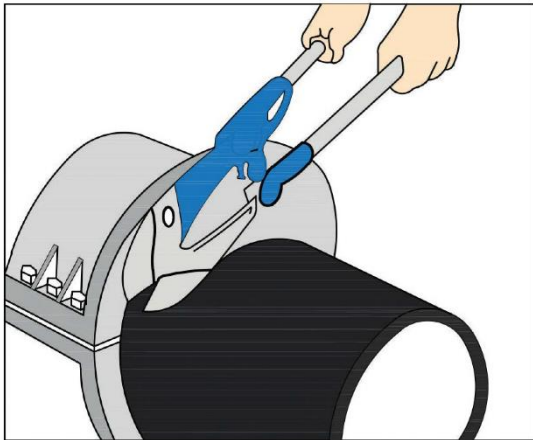
3. Tighten flange bolts in alternate sides leaving a gap of approximately 2-3mm (sample alternating order shown in image below). This should provide sufficient grip on the hose.



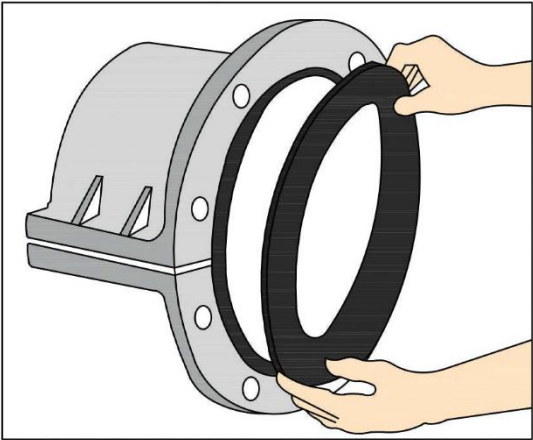
4. Using a long blade knife and soapy water as a lubricant, cut off excess hose. The flange face can be used as a guide for the knife.



5. Using bolt cutters or a hacksaw, cut the two helix wires flush with the end of the hose. The wire must not protrude out of the hose end.



6. An optional cone ring gasket can be installed if sealing becomes a problem. The use of a cone ring gasket is recommended when joining two hoses together.



TROUBLESHOOTING

PROBLEM	CAUSE	RECTIFICATION
Coupling cannot be completely fitted/tightened	Screws are all tightened down on one side before proceeding to the other side	Tighten screws alternately (Refer to warning label for special instruction)
Hose cannot be fitted	Incorrect coupling size selected	Refer to Table Flange Specifications for correct hose dimensions applicable per coupling size

WARRANTY

Galvin Engineering products are covered under our Manufacturer's Warranty. Galvin Engineering products must be installed in accordance with the installation instructions and in accordance with AS 3500 and NCC Volume Three, relevant Australian Standards and local authorities applicable to product being installed. Water and electrical supply conditions must also comply to the applicable national and/or state standards, failing to comply with these provisions may void the product warranty and affect performance of the product.

Please visit www.galvinengineering.com.au to view the full warranty, our Installation Compliance and Maintenance & Cleaning information as well as any other additional information.