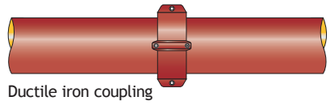
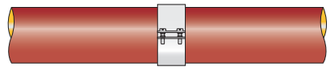
Introduction

Harmer SML couplings are available in either ductile iron or stainless steel and meet the requirements of BS EN 877. The internal pressure performance of couplings ranges from 0.5 bar to 10 bar. All couplings feature EPDM elastomeric seals as standard. Neoprene rubber seals are available on request.

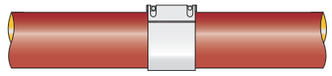
The Harmer range of couplings has been put together with the installer in mind. The Harmer Duo and Harmer Grip twin bolt couplings offer quick and easy installation. The couplings are supplied ready to fit onto the pipe, and there is no need to dismantle; simply push fit over the Harmer SML pipe and tighten to the required torque setting. For efficient installation, use the Harmer Duomat Fixing Tool which simultaneously tightens the bolts to the required torque.
(See page 39 for installation details)



Ductile iron coupling



Stainless steel coupling



High pressure coupling

Ductile Iron Couplings

- The **Harmer SML Ductile** coupling is a two-part coupling with an integrated electrical continuity connection. Available in 50 to 200mm diameters the couplings are made from ductile iron grade EH-GJS-400-15 and coated in red epoxy. Incorporating an EPDM gasket, the coupling is bolted together using M8 bolts. The electrical continuity is activated by tightening two screws located on either side of the coupling. *(See detail on page 35 and 38)*

Harmer SML Ductile

Stainless Steel Couplings

- The **Harmer SML Duo** coupling is an earth continuous, above-ground, twin-screw stainless steel coupling available for all Harmer SML pipes and fittings, for pipe connections from 50 to 300mm diameter. The Duo continuity coupling can be used (where required by current legislation) to provide earth continuous conductance through the soil stack. When direct contact of all metal components is required, electrical testing of each joint, as work progresses, is recommended.

Harmer SML Duo

- The **Harmer SML Grip** coupling is an earth continuous, above-ground, twin screw stainless steel coupling available in 50mm to 200mm diameter. The Grip coupling can be used as an alternative to the Duo coupling where higher internal pressure performances are required. *(See table on page 35)*

Harmer SML Grip

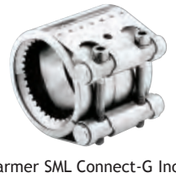
- The **Harmer SML Adaptor** coupling is used when it is necessary to make a connection between BS EN 877 lightweight cast iron 'soil' systems and conventional cast iron thick wall 'drain' systems. This coupling does not incorporate any provision for electrical continuity.

High Pressure Couplings

- The **Harmer SML Combi Grip Collar EK** coupling is a security collar that can be used to provide axial resistance up to 10bar.

Combi Grip Collar

- The **Harmer SML Connect-G Inox** coupling is used to provide axial restraint up to 10 bar for pipes installed above and below ground.



Harmer SML Connect-G Inox

NEW High Pressure Couplings now available please contact Harmer Technical on Tel: 01744 648400 for more information.

Technical Data: Couplings

Couplings Data

Harmer SML Coupling	Material	Type	Dia Range (mm)	Pressure Rating		Torque
				Unrestrained	Restrained*	
Ductile	Ductile iron	Mechanical	50 to 200	0.5 bar	5 bar	20 Nm
Duo	Stainless steel	Mechanical	50 to 300	0.5 bar	50 to 200mm = 5 bar 250 and 300mm = 3 bar	3.5 Nm to 9 Nm
Grip	Stainless steel	Mechanical	50 to 200	50 to 100mm = 3 bar 125mm = 1.5 bar 150 and 200mm = 1 bar	5 bar	7 Nm to 9 Nm
Adaptor	Stainless steel	Mechanical	100 and 150	0.5 bar	5 bar	3.5 Nm to 5.5 Nm
Combi Grip Collar	Galvanised Steel	Mechanical	50 to 300	50 to 100mm = 10 bar 125 to 150mm = 5 bar 250 to 300mm = 1 bar	50 to 100mm = 10 bar 125 to 150mm = 5 bar 250 to 300mm = 1 bar	25 - 65 Nm
Connect-G Inox	Stainless steel	Mechanical	50 to 400	50 to 300mm = 10 bar 400mm = 6 bar	50 to 300mm = 10 bar 400mm = 6 bar	As stated on coupling

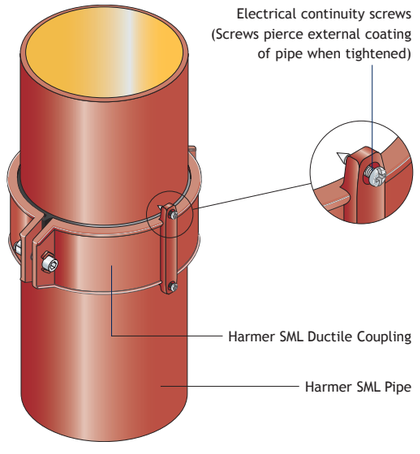
* Fixed to prevent movement.

Electrical Continuity

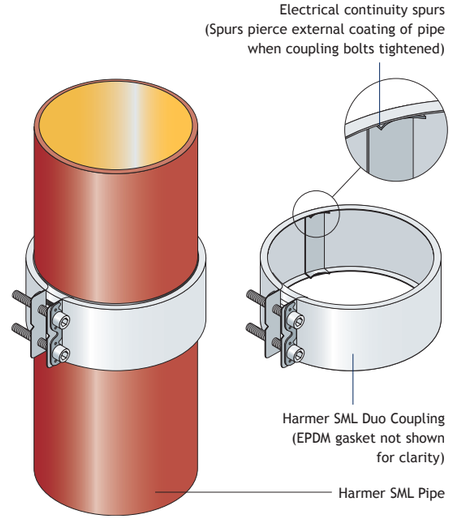
The Harmer Ductile, Duo and Grip couplings will satisfy the electrical continuity requirements of the IEE regulations provided that the SML pipework is bonded to an electrical earth and these couplings are assembled, installed and tightened to the correct torque in accordance with our recommendations.

The procedure for testing electrical continuity should be in accordance with the requirements of BS EN 877 as follows:
'If provision is made for electrical continuity, the electrical resistance of the coupling shall not exceed 0.3 ohms, when tested in accordance with the following procedure: Apply a steadily increasing voltage not exceeding 50V ac, 50 Hz, across the junction until a steady current of 25±1A flows through the coupling. Allow the current to flow for 30 seconds, maintaining it as necessary by adjusting the voltage. Calculate the resistance of the coupling by dividing the observed voltage by the current.'

The installation should be regularly checked for damage, or when modifications are proposed, to ensure that electrical continuity is maintained.



Harmer Ductile Coupling installation



Harmer Duo Coupling installation