

Hynds Hyseal Manhole Connecting Seals

Technical Guide D4.6

Hyseal connectors are the latest innovation in pipe connection technology, able to seal pipes to any concrete structure.



02.25 | DRAINAGE | D4.6 HYND'S HYSEAL MANHOLE CONNECTING SEALS

Applications

For the connection of differing pipes. I.E. PE to concrete, PVC to concrete

Forms a positive seal for pipes going into concrete manholes and other structures

Product Attributes

High quality and flexibility

Marine grade 316 stainless steel is used for all nuts and bolts

Factory tested to 90 kPa

Approvals/Standards

The connector is manufactured from natural rubber to AS 1646 Elastomeric Seals for Waterworks Purposes

Sustainability

Available in Hynds LC[®] low carbon concrete

Verifiable carbon footprint data available

Customisable for climate-resilient infrastructure

Quality/Environment/Health & Safety

ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018

Hyseal connectors are the latest innovation in pipe connection technology.

Design Specifications

- These connectors achieve a high interface pressure, while offering greater flexibility when aligning connecting pipes to access chambers.
- The connectors are able to withstand shock, sound or vibrations from man-made or natural causes including changes in internal pipe pressure, earthquakes or natural ground movement.
- Spacers are made from vulcanised rubber.
- Socket and driver are used for tightening the bolts.

Easy Installation

- All rigid pipes should be pushed through the seal only 50 mm, to allow maximum flexibility.
- Insert the upstream pipe stubs and tighten bolts using a 13 mm socket, 100 mm extension, and ratchet.
- Tighten bolts by finger tightening first then three turns using the ratchet.

PE Pipe Connectors (made to order only)

- PE connectors are available 'made to order' and work as a flange to confine the pipe to the inside of the manhole. The PE connector relies on the concrete benching to fully restrain the pipe.
- An electro fusion coupler can then be used to connect the pipe to the stub.



FIG. 1 Linked Seal, Standard Seal



FIG. 2 Optional Flanged PE manhole connector and standard seal



FIG. 3 Hyseal ready to connect pipe

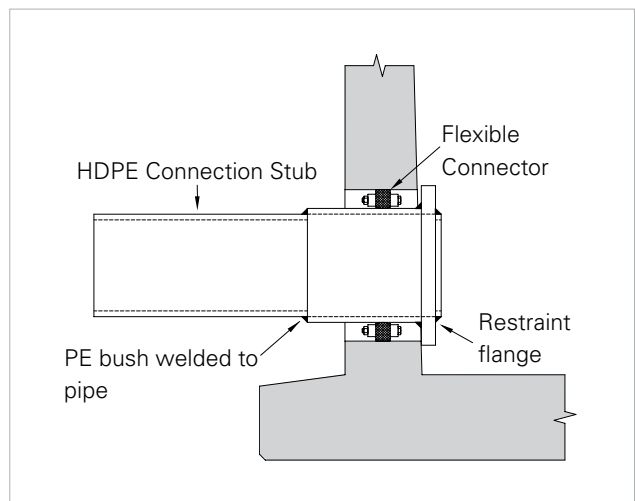


FIG. 4 Flanged PE connector installation detail

TABLE 1 Product range and Applications

Pipe ID (mm)	Pipe OD (mm)	Seal ID (mm)	Recommended Seal	Spacer (mm)	Core OD (mm)	Product Code	Hyseal MH Compatibility
PVC Drainage Pipe							
100	110	111	100 mm (4") Full Circle Seal	-	202	CON100HYSEAL	Full range
150	160	161	150 mm (6") Full Circle Seal	-	232	CON150HYSEAL	Full range
175	200	214	200 mm (8") Full Circle Seal	7	306	CON175HYSEAL	Full range
225	250	252	225 mm (9") Full Circle Seal	-	325	CON225HYSEAL	Full range
300	315	303	11 Link Seal (Stretched)	-	396	CONHYSEAL11L	Full range
375	400	397	14 Link Seal (Stretched)	-	482	CONHYSEAL14L	Ø 1050 x 900 and above
475	500	490	17 Link Seal (Stretched)	-	582	CONHYSEAL17L	Ø 1200 and above
525	560	553	19 Link Seal (Stretched)	-	642	CONHYSEAL19L	Ø 1540 only
Earthenware							
100	131	161	150 mm (6") Full Circle Seal	14	232	CON150HYSEAL	Full range
150	186	214	U.S. PVC	14	306	CON175HYSEAL	Full range
Polyethylene							
-	110	111	100 mm (4") Full Circle Seal	-	202	CON100HYSEAL	Full range
-	125	161	150 mm (6") Full Circle Seal	18	232	CON150HYSEAL	Full range
-	160	161	150 mm (6") Full Circle Seal	-	232	CON150HYSEAL	Full range
-	180	214	200 mm (8") Full Circle Seal	17	306	CON175HYSEAL	Full range
-	200	214	200 mm (8") Full Circle Seal	7	306	CON175HYSEAL	Full range
-	225	250	225 mm (9") Full Circle Seal	12.5	325	CON225HYSEAL	Full range
-	250	250	225 mm (9") Full Circle Seal	-	325	CON225HYSEAL	Full range
-	280	272	10 Link Seal (Stretched)	-	364	CONHYSEAL10L	Full range
-	315	303	11 Link Seal (Stretched)	-	400	CONHYSEAL11L	Full range
-	355	366	13 Link Seal (Stretched)	6	450	CONHYSEAL13L	Full range
-	400	397	14 Link Seal (Stretched)	-	482	CONHYSEAL14L	Ø 1050 x 900 and above
-	450	459	16 Link Seal (Stretched)	14	560	CONHYSEAL16L	Ø 1200 and above
-	500	490	17 Link Seal (Stretched)	-	582	CONHYSEAL17L	Ø 1200 and above
-	560	553	19 Link Seal (Stretched)	4	650	CONHYSEAL19L	Ø 1540 only
-	630	646	22 Link Seal (Stretched)	19	750	CONHYSEAL22L	Ø 1540 only
-	710	709	24 Link Seal (Stretched)	4	800	CONHYSEAL24L	Ø 1540 only

Note:

Rubber spacer recommendations are based on the use of the indicated core diameters above.

Spacers with the PE/PVC Pipes may be needed.

This will be installed inside or outside the Hyseal connector as required

Also refer to:

D4.2 Hynds Hyseal Sealed Manhole System

D4.3 Hynds Hybencher

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Disclaimer: While every effort has been made to ensure that the information in this document is correct and accurate, users of Hynds product or information within this document must make their own assessment of suitability for their particular application. Product dimensions are nominal only, and should be verified if critical to a particular installation. No warranty is either expressed, implied, or statutory made by Hynds unless expressly stated in any sale and purchase agreement entered into between Hynds and the user.

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