

# 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.



04.20 | DRAINAGE | D4.6 HYNDS 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

## Quality

ISO 9001:2008 Quality Management Standard

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## 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

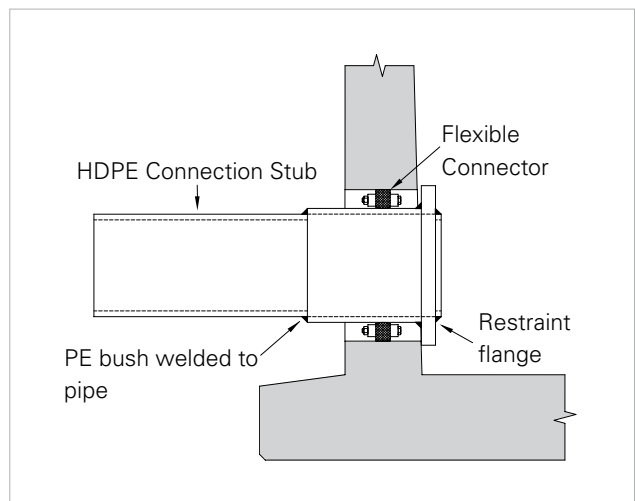


FIG. 4 Flanged PE connector installation detail

**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
<b>PVC Drainage Pipe</b>							
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
<b>Earthenware</b>							
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
<b>Polyethylene</b>							
-	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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