

Internal Pipe Joint Seal & End Seal

Information required before quotation and production

FORM NO.	REVISION	ISSUED	RETURN TO
RT-Q-SEAL	C	2026-10-21	sales@reliancetrenchless.com

HOW TO COMPLETE Tick ☒ every box that applies and fill in the fields. Give dimensions in millimetres (mm) unless stated, measured on site where possible. Fields marked * are needed before we can quote. If you are unsure, tick "Not sure" – an honest blank is better than a guess, and our engineers will follow up.

01 CUSTOMER AND PROJECT REQUIRED

Company *	
Contact name and position *	
Email *	
WhatsApp / phone	Include country code
Project name and location *	City, country
Delivery destination	Port or address · Incoterm: EXW / FOB / CIF / DAP
Required on site by	Date

02 MEDIUM AND TEMPERATURE REQUIRED

Why we ask *the medium and its temperature decide the rubber compound and the grade of the stainless steel rings.*

- ☐ Sewage (wastewater)
☐ Stormwater / surface water
☐ Drinking (potable) water certificate required: _____
☐ Sea water / brackish water
☐ Chemical / industrial effluent name and concentration: _____
☐ Hot water or steam state temperature below
☐ Other: _____

Medium temperature *	Min _____ °C Max _____ °C
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03 HOST PIPE REQUIRED

- | | |
|--|--|
| ☐ Reinforced concrete (RCP) | ☐ GRP / FRP |
| ☐ Steel | ☐ PVC / HDPE |
| ☐ Ductile / cast iron | ☐ Already lined (CIPP or other) |
| ☐ Vitriified clay | ☐ Other: _____ |

Condition at seal position	Sound / corroded / cracked / exposed aggregate / roots / deposits
Joint gap, widest point	_____ mm
Step / offset between pipes	_____ mm
Man-entry pipe?	Yes / No – can a person safely work inside the pipe?

04 SEAL TYPE AND SIZES REQUIRED

Why we ask each seal is made to one diameter. Measure the internal diameter (ID) vertically and horizontally at the actual seal position – the nominal size (DN) alone is not enough.

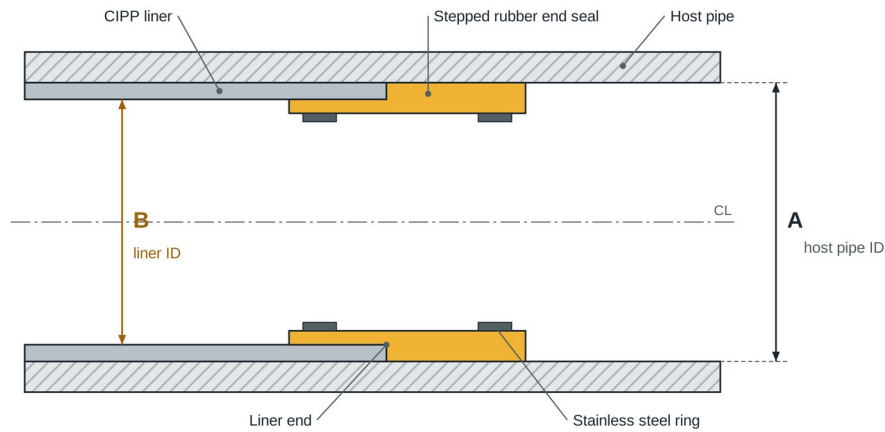


Figure 1 – End seal at a liner end: A = host pipe ID, B = liner ID

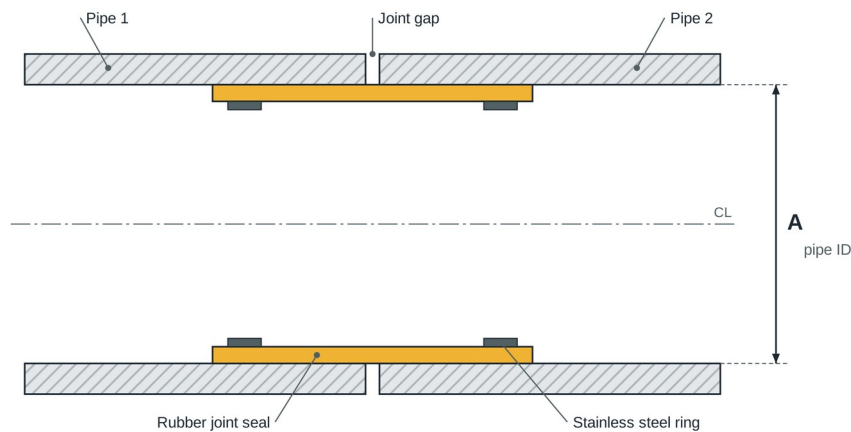


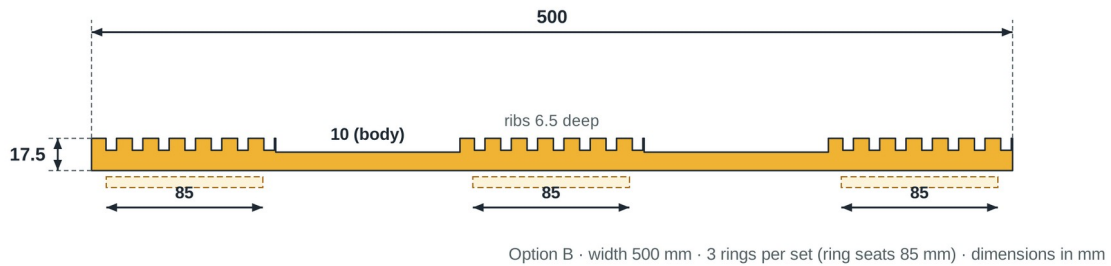
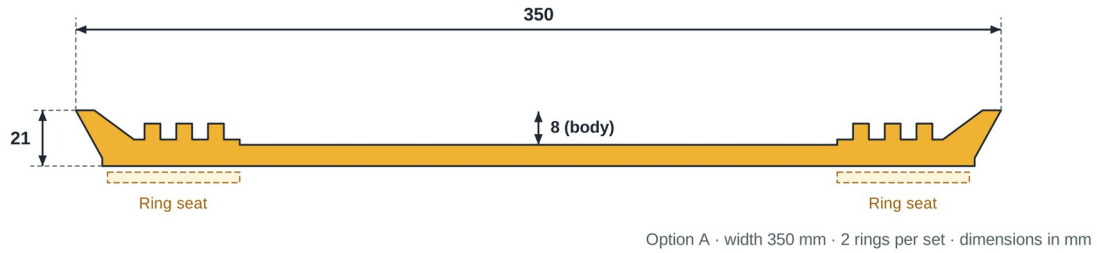
Figure 2 – Joint / point seal across a pipe joint: A = pipe ID

#	Seal type Joint / End	A – pipe ID vertical, mm	A – pipe ID horizontal, mm	B – liner ID end seals, mm	Quantity sets
1					
2					
3					
4					
5					

END SEALS if the liner ID is not yet known, give the liner wall thickness t instead: $B = A - 2t$.

05 SEAL WIDTH AND RINGS PER SET **REQUIRED**

Why we ask *the seal must overlap sound pipe on both sides of the joint or defect, and its width fixes the number of ring seats.*



- ☐ Option A – 350 mm 1 seal + 2 rings per set
- ☐ Option B – 500 mm 1 seal + 3 rings per set
- ☐ Other width: _____ mm
- ☐ Not sure advise from joint gap / defect length

Defect length to cover	_____ mm (if not a plain joint)
Non-standard rings per set	_____ rings · reason: _____
Spare rings / seals	_____ pcs

06 RING MATERIAL **REQUIRED**

- ☐ AISI 304 general sewage and stormwater
- ☐ AISI 316L higher chloride or corrosive conditions
- ☐ Duplex 2205 recommended for sea water (listed as “318” on earlier forms)
- ☐ Not sure advise from the medium in section 02

07 PRESSURE CONDITIONS **REQUIRED**

Why we ask *the seal must resist groundwater from outside as well as any vacuum or pressure inside the pipe.*

External groundwater head	_____ m water column ☐ not known
Maximum negative pressure (vacuum)	_____ bar / kPa ☐ none ☐ not known
Maximum internal pressure	_____ bar ☐ gravity line, no pressure
Acceptance test after installation	Air / water / vacuum · test pressure: _____

Negative pressure: the pressure inside the pipe is lower than outside, so air or water is drawn in – e.g. pump surges or siphoning. 1 bar = 100 kPa ≈ 10 m water column.

08 INSTALLATION

- ☐ We have our own expansion / installation tool
- ☐ Please quote an installation tool
- ☐ Please quote remote (robotic) installation equipment
- ☐ We need installation guidance / documents

09 ATTACHMENTS

Please attach whatever is available – it shortens our review.

- ☐ CCTV report or photos of each joint / liner end
- ☐ Pipe drawings or long-section with IDs
- ☐ Liner data sheet (end seals)
- ☐ Project specification / approval requirements

10 ADDITIONAL REQUIREMENTS

Site constraints, documents or certificates required

11 COMPLETED BY

Name	
Signature	
Date	

FOR RELIANCE USE ONLY

Received / reviewed by	
Seal profile / rubber compound	
Ring material / rings per set	
Open questions to customer	
Quotation / drawing no.	

Reliance recommendations are based on the information supplied in this form. The final model, dimensions and quantities are those stated in our written quotation and drawing, which the customer confirms before production.