

High Pressure Pipe Plug

Information required to select the plug model and pressures

FORM NO.	REVISION	ISSUED	RETURN TO
RT-Q-PLUG	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 APPLICATION REQUIRED

- ☐ Blocking / isolating flow for repair
 ☐ Emergency / spill containment
- ☐ Pressure testing air or water
 ☐ Other: _____
- ☐ Bypass flow passes through the plug

Medium held back	Sewage / stormwater / clean water / other: _____
Duration in place	_____ hours / days
Bypass flow (bypass plugs)	_____ m³/h or L/s · outlet connection: _____

03 PIPE TO BE PLUGGED REQUIRED

Why we ask *the plug grips the pipe wall – diameter, shape and wall condition decide the model and its safe back pressure.*

Pipe internal diameter, measured *	Min _____ mm Max _____ mm (list each size if several)
Pipe shape	Round / egg-shaped / box / other: _____
Pipe material	Concrete / clay / PVC / HDPE / steel / iron / other: _____
Wall condition at plug position	Smooth / rough / corroded / sediment / sharp edges / steps

04 BACK PRESSURE – HEIGHT OF WATER REQUIRED

Why we ask back pressure on the plug depends on how high water can rise above it; we use H to select the model and inflation pressure.

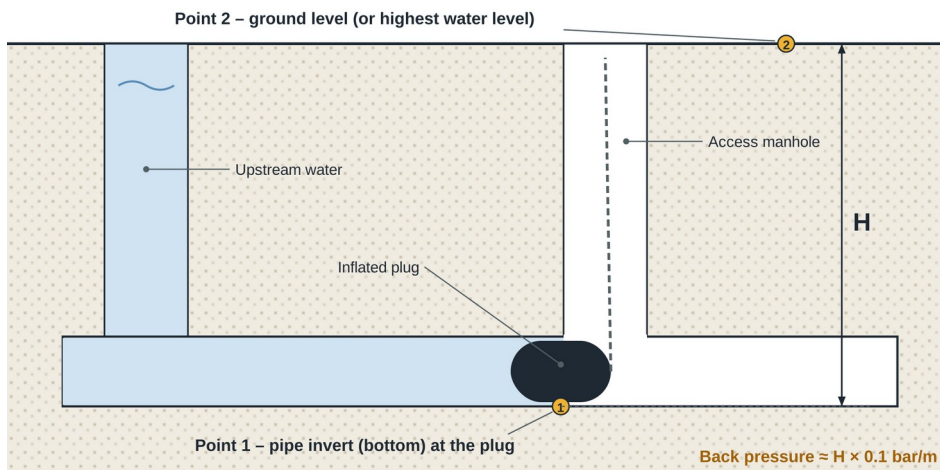


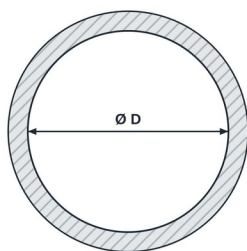
Figure 1 – H is the vertical height from the pipe invert at the plug (Point 1) to ground level or the highest possible water level (Point 2)

Height H , Point 1 to Point 2 *	_____ m
Can water rise higher?	No / Yes – surcharge, pumping or tide up to _____ m or _____ bar
Test pressure (testing plugs)	_____ bar · medium: air / water

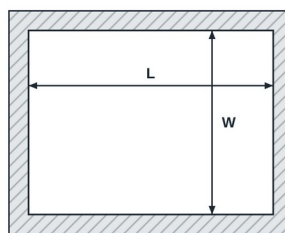
QUICK CHECK each 1 m of water above the invert adds about 0.1 bar (10 kPa) of back pressure. Example: $H = 6 \text{ m} \approx 0.6 \text{ bar}$.

05 ACCESS OPENING REQUIRED

Why we ask the deflated plug must pass through the narrowest opening on its way to the pipe.



Round frame – clear opening $\varnothing D$



Rectangular frame – clear opening $L \times W$

Figure 2 – Measure the clear opening inside the frame, not the cover

Opening shape	Round / rectangular
Clear opening *	Round: $\varnothing D$ _____ mm Rectangular: L _____ $\times$ W _____ mm
Depth, ground to pipe invert	_____ m
Narrowest point, if smaller	_____ mm (shaft, benching, step irons)

06 PLUG TYPE REQUIRED



Single-size – made for one pipe ID



Multi-size – covers a range of pipe IDs

- ☐ Single-size ☐ Multi-size ☐ Not sure please recommend

07 ACCESSORIES AND QUANTITY

- ☐ Inflation hose length _____ m
☐ Control unit with gauge and safety relief valve
☐ Air source hand pump / compressor
☐ Anchoring / restraint equipment
☐ Spare plug
☐ We already have compatible accessories

Quantity per size *

_____ pcs

SAFETY an inflated plug under back pressure stores considerable energy. Always restrain the plug, never exceed the rated inflation or back pressure, and keep people out of the pipe and the plug's line of travel while it is under load.

08 ATTACHMENTS

Please attach whatever is available – it shortens our review.

- ☐ Photos of the manhole opening and the pipe at the plug position
☐ Drawing or long-section showing depths
☐ CCTV report
☐ Test specification (testing plugs)

09 ADDITIONAL REQUIREMENTS

Site constraints, documents or
certificates required

10 COMPLETED BY

Name	
Signature	
Date	

FOR RELIANCE USE ONLY

Received / reviewed by	
Recommended model	
Inflation / max. back pressure	
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.