

Installation Instructions for:

DEAD-STOP-2

2" overfill prevention valve

The DEAD-STOP-2 is a 2" overfill prevention valve with a ZERO leak rate, suitable for commercial above ground diesel storage installations, generator belly tanks and pressure deliveries.

With a flow rate of 10 – 500 l/min and a maximum operating pressure of 10 bar (145 psi) the DEAD-STOP-2 is suitable for a range of applications, protecting against the risk of an over-fill, should other methods fail.



**ALWAYS USE
NON-SPARK TOOLS!**

PLEASE READ CAREFULLY BEFORE INSTALLATION

Configuration Options

Stock code	Description
100100	DEAD-STOP-2 valve only
100100-1	DEAD-STOP-2 valve (100100), weld socket (4032) and a 2" BSP lock nut (3850)
100100-2	DEAD-STOP-2 valve (100100) and 2 off 2" BSP lock nuts (3850)
100100-AF	DEAD-STOP-2 valve (100100) with adjustable float level
100100-1-AF	DEAD-STOP-2 valve (100100) with adjustable float level, weld socket (4032) 2" BSP lock nut (3850)
100100-2-AF	DEAD-STOP-2 valve (100100) with adjustable float level and 2 off 2" BSP lock nuts (3850).

Fluid compatibility and Materials

The DEAD-STOP-2 valve was designed primarily to be compatible with commercial diesel fuel products. All seals are 'Viton' as standard.

The materials of the DEAD-STOP-2 overfill prevention valve are as shown below:

Aluminium components	Anodised to BS EN ISO 7599: AA05-15
Stainless steel components	Grade 303
Plastic components	Polyacetal
Mild steel components	C6F free surface coating
Seals	Viton
Floats	High Density Polythene
Fasteners	Grade 304 Stainless steel

Warning – Do not over tighten bolts especially into alloy body components.

RECOMMENDED INSTALLATION TOOLS REQUIRED FOR DEAD-STOP-2

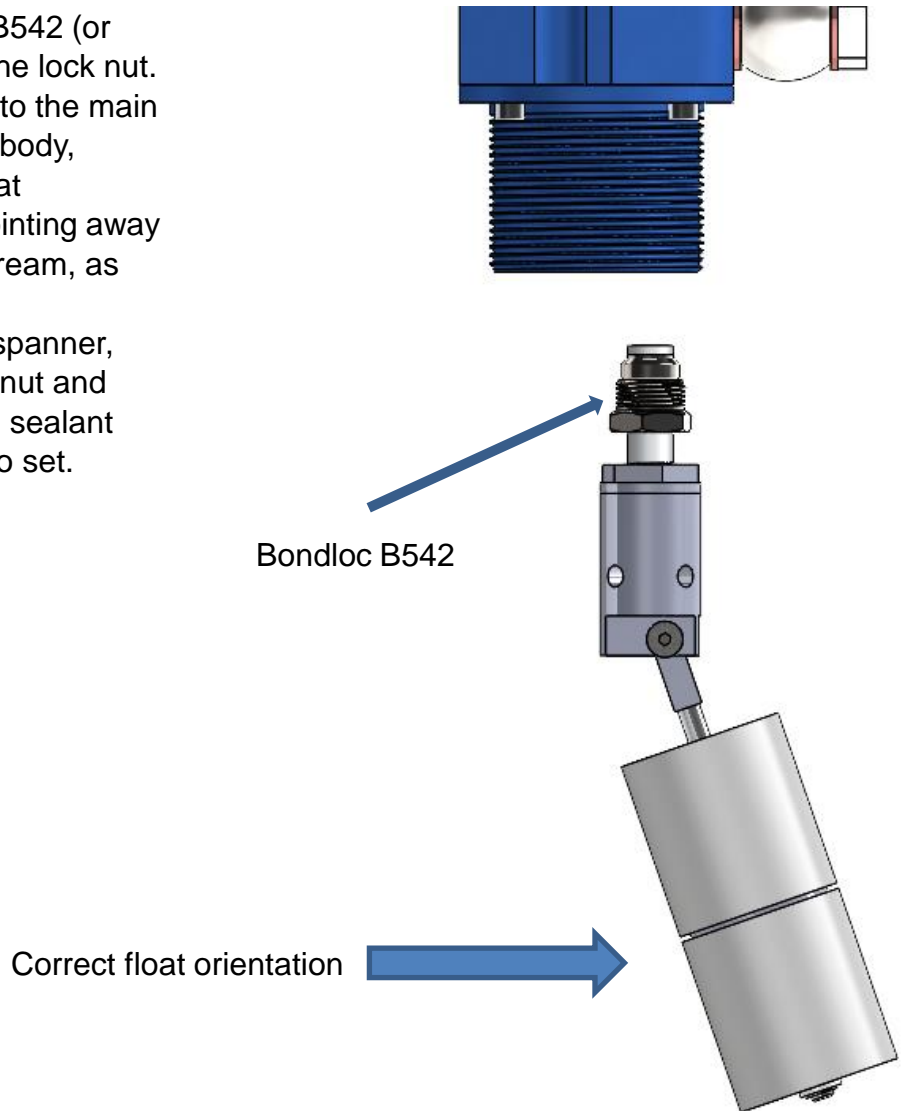


- Spanners 21mm & 70mm
- Torque wrench - Metric socket 13mm
- Thread / O-ring Grease
- Bondloc B542 (or equivalent semi-permanent thread sealant)

Installation Instructions

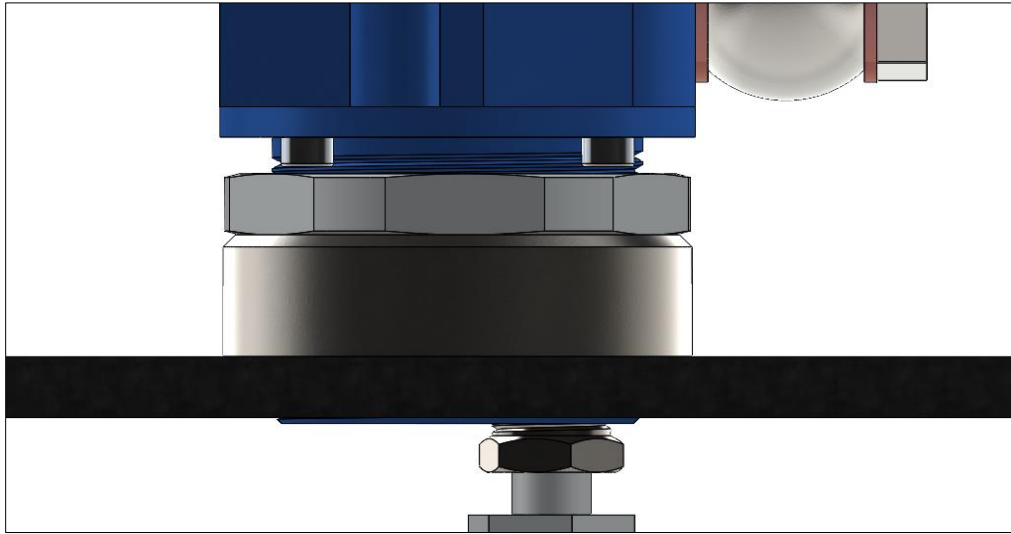
When receiving the DEADSTOP-2 the two part will come separate in the box. To install both parts correctly, please follow the below instruction.

1. Apply Bondloc B542 (or equivalent) on the lock nut.
2. Then screw it into the main DEAD-STOP-2 body, ensuring the float orientation is pointing away from the fluid stream, as shown here.
3. Using a 21mm spanner, tighten the lock nut and allow the thread sealant adequate time to set.



Installation Instructions

For Above Ground Tank Installation, you will need stock code 100100-1 to install the valve using a weld socket and 2" BSP lock nut

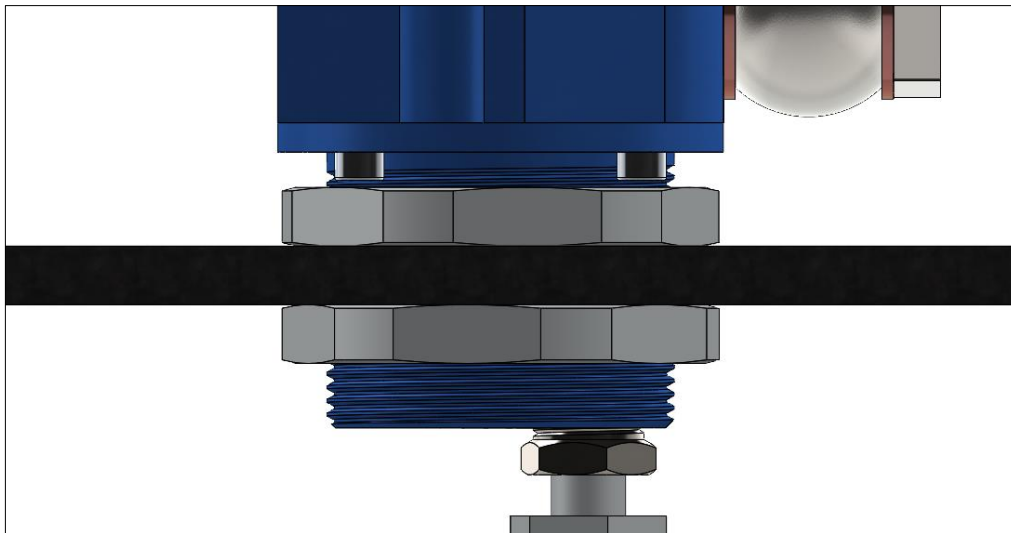


1. At a suitable position on the tank lid cut a 70mm diameter hole (the tank lid thickness should not exceed 13mm).
2. Place the weld socket (4032) in the hole, the shoulder should sit flush with the top of the tank lid.
3. Join to the tank with a full fillet sealing weld.
4. With the locknut in the full 'up' position on the valve body apply thread sealant to the weld socket and body thread. Take care not to spill or smear sealant on the valve working parts.
5. Screw in the complete valve cartridge so that only 1 or 2 thread pitches remain exposed between the lock nut and top of the weld socket.
6. Rotate the valve body to the correct inlet pipework orientation and tighten the lock nut against the weld socket. **Care should be taken not to damage the protective anodised finish on the valve parts.**
7. Connect the inlet pipework using suitable flange components and tighten the 4 x M8 x 20mm bolts to 27Nm (20ft lbs) torque maximum.

Installation Instructions

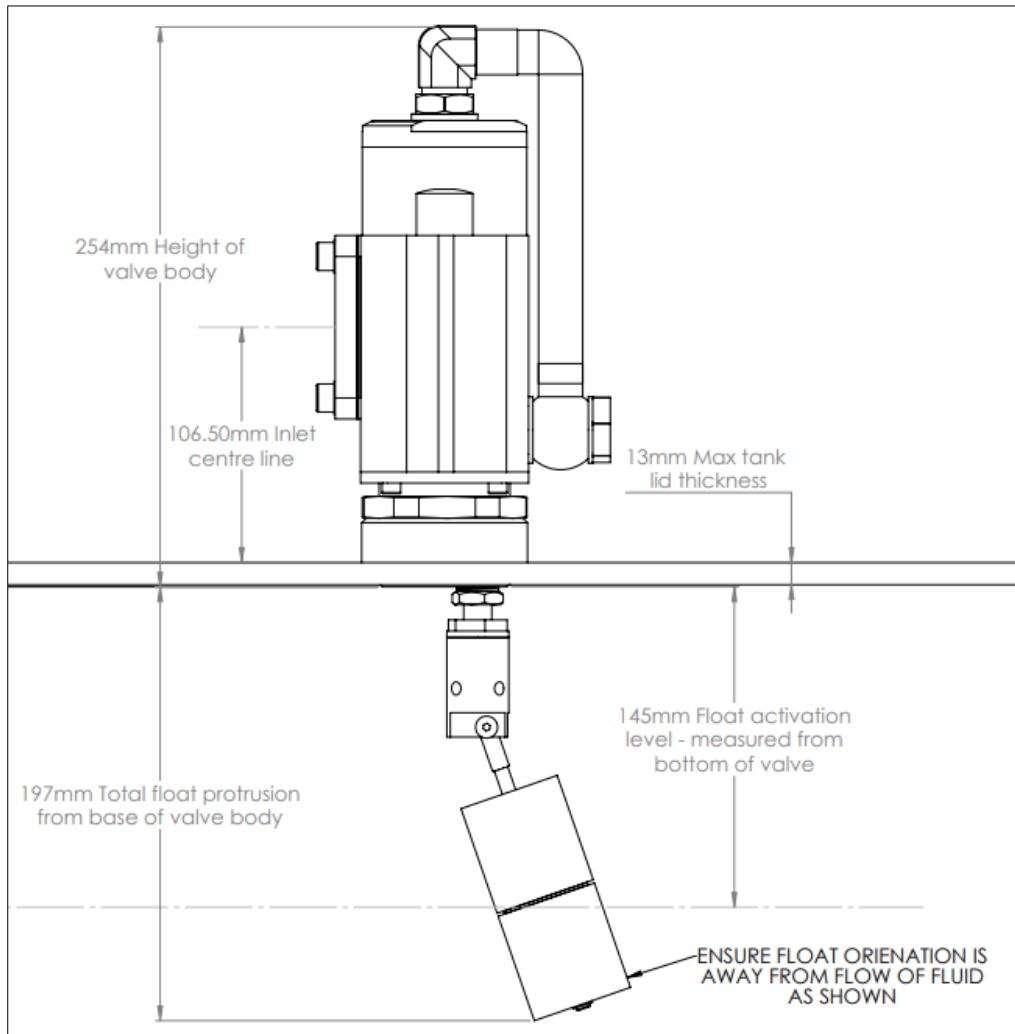
For an alternative installation method as shown, you will need stock code 100100-2 to install the valve using two 2" BSP lock nuts.

1. At a suitable position on the tank lid cut a 61mm diameter hole (the tank lid thickness should not exceed 13mm)
2. Place the DEAD-STOP-2 with the top lock nut (3850) into the hole in the tank lid and align the valve body to the inlet pipework.
3. Underneath the tank lid, place the second lock nut (3850), and tighten against the bottom of the tank lid.
4. Check the valve is still aligned with the inlet pipework, if not loosen the top lock nut, rotate the valve and retighten.
5. Connect the inlet pipework using suitable flange components and tighten the 4 x M8 x 20mm bolts to 27Nm (20ft lbs) torque maximum.



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Note: The fluid shut-off level is approximately 145mm below the bottom of the DEADSTOP-2 valve using the standard-length float.



The diagram above shows the layout and installation dimensions for the DEAD-STOP-2 with weld socket installation.

Stock Codes: 100100 (DEAD-STOP-2), 4032 (weld socket), 3850 (2" BSP lock nut).

If you require an adjustable float height, we refer you to the adjustable float kit, Stock Code: 100100-AF

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RETRO-FITTING TO EXISTING TANKS:

Option A - For existing tank with weld socket

If the existing tank lid has a standard 2" weld socket opening the socket must be reduced to an overall height of between 25 mm and 30 mm - measured from the socket top face to the underside of the tank lid or socket lower face (whichever is greater). Clean the thread with a 2" BSPP tap to obtain a hand fit for the valve cartridge.

DO NOT FORCE THE VALVE INTO A TIGHT THREAD.

Option B - to fit directly into tank lid using 2 x 2" BSP lock nuts

If the existing or new tank lid has a material thickness between 10 and 15 mm the DEAD-STOP-2 can be fitted directly to the lid using 2 lock nuts (3850) either side, as shown in the installation instructions.

Option C - to fit directly into tank lid

If the existing or new tank lid has a material thickness between 10 and 25 mm the lid can be directly drilled and tapped 2" BSP parallel thread to BS 2779 1986 standard and a lock nut used to set the required alignment.

IMPORTANT NOTE.

Please note that the alterations to any tank must be completed in adherence with current Health & Safety Guidelines, Industry Regulations or Safe Working Practices.

Operation

- During the initial delivery check that all inlet pipework and joints are leak free. The DEAD-STOP-2 can be manually checked by raising the float into the shut position by hand and checking that the flow has stopped.
- Maximum delivery pressure should not exceed 8 bar (115 psi).
- The DEAD-STOP-2 valve exhibits the following characteristics during a delivery:
 - Unrestricted delivery until the float activation level is reached.
 - Once the maximum fluid level is reached the valve will shut completely, causing pressure to build up in pipework.
 - Once the valve is shut, the pressure in the pipework must dissipate and the fluid level must drop before the valve will reopen.

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FOR REFERENCE.

Risbridger Ltd offer a range of tools specifically designed for Risbridger products. For further details please contact Risbridger,

For installation details of the products supplied with a DEAD-STOP-2 and maintenance instructions, please see the following documents enclosed with the products or view on our website:

- DATA-DEAD-STOP--~
- MAINT-DEAD-STOP--~

WARRANTY.

All RISBRIDGER Ltd products are guaranteed against defects in material and workmanship for a period of 12 months from the date of purchase subject to normal use and service. The sole obligation under this warranty is limited to repair or replacement, at the option of RISBRIDGER Ltd any product found to be defective upon examination provided that such product will be returned for inspection carriage paid, within three months of installation. Liability is strictly limited to replacement of defective parts manufactured by RISBRIDGER Ltd and no liability can be accepted for any loss or consequential damages arising from the installation or use of any products supplied by RISBRIDGER Ltd whatsoever the cause. This warranty shall not apply to any product subject to abuse, negligence, accident, misapplication or any alteration by others.

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