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Installation Instructions / Operating & Maintenance Manual Standpipe - SPED

FOREWORD

Model SPED Standpipe has a Double Check Valve assembly to prevent backflow. This is suitable for Fluid Category 3. Contact us if Fluid Category 4 or 5 protection is necessary.

The Standpipe is normally supplied with a compression fitting for MDPE pipe. Other fittings are available.

SUPPORTING LITERATURE

SPED Datasheet

SECTION	ITEM
1.0	MOUNTING
2.0	SERVICING VALVE
3.0	PIPE
4.0	PILE INSTALLATION
5.0	2-PIPE TEE ASSEMBLY
6.0	STANDPIPE
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1.0 MOUNTING

1.1 The Standpipe can be bolted directly to a flat concrete surface with three M10 or M12 expansion bolts (not supplied). Alternatively the unit can be bolted to the special Pile (M12 stainless fasteners supplied) – code - SPPILE.

2.0 SERVICING VALVE

2.1 A servicing valve should be provided to isolate the pipe leading to the Standpipe. This allows the Standpipe to be isolated during the winter and potentially freezing conditions.

3.0 PIPE

3.1 The MDPE pipe should be laid in a 750 mm deep trench (Regulation G7.7). The pipe can then be curved according to the minimum radius.

MDPE Pipe Size	Minimum Radius
20 mm	400
25 mm	500
32 mm	640

3.2 Cable ties are provided to secure pipes (covered with insulation) to the back of the Pile. There are holes in the Pile for the ties.

3.3 In contaminated ground (brown field sites), the water company normally requires barrier MDPE or copper pipe to be used.

3.4 Insulate the pipe and fittings above the depth of 750 mm. Some closed cell foam insulation is provided.

4.0 PILE INSTALLATION

4.1 Install the Pile in the trench to a depth where the flanges are 30 mm above the surface.

4.2 For aesthetic reasons in soft ground, the flanges may be buried up to 50 mm beneath the soil surface.

5.0 2-PIPE TEE ASSEMBLY

5.1 Where the Standpipe is to be connected to a ring circuit, they can be “daisy chained” by using the “2-Pipe Tee Assembly”.

5.2 The two MDPE pipes should curve up to about 100 mm above the surface.

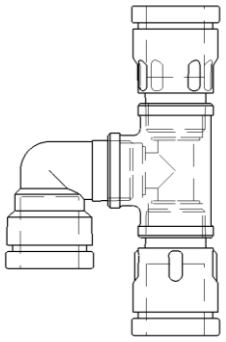
5.3 Fit the Tee assembly before fitting the Standpipe – this allows access for tightening compression nuts.

5.4 Push the pipes in fully and tighten until nut is fully into the fitting.

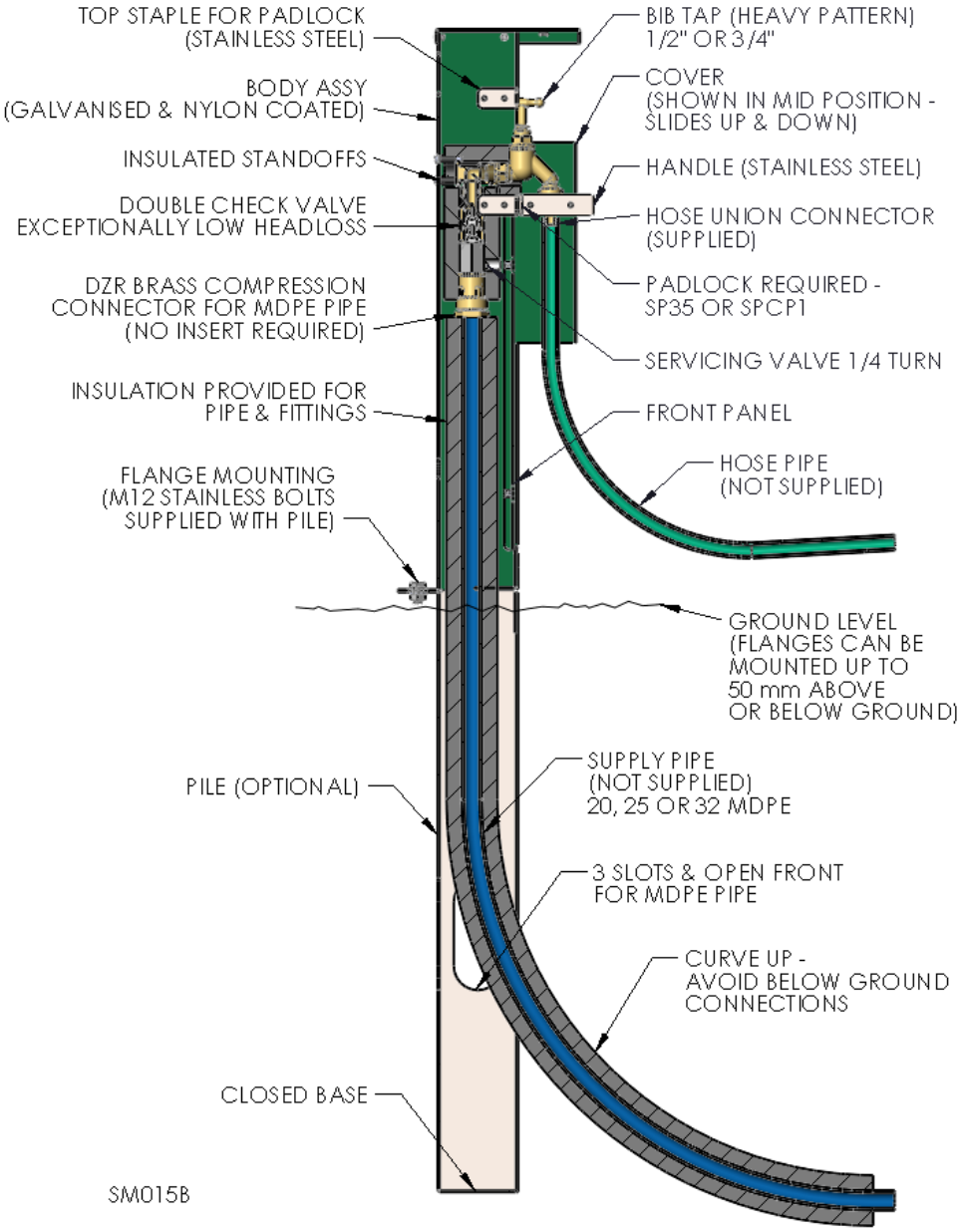
5.5 No pipe inserts are required.

5.6 Measure the length of single pipe required to reach the inlet fitting in the Standpipe.

5.7 Fit this to the Tee assembly.



6.0 STANDPIPE



6.1 Remove the 4 cross head screw from the Front Panel. Push panel in, drop down and then withdraw the top corner diagonally.

6.2 It is generally easier to make the MDPE connection before bolting the Standpipe down. Push the pipe in fully and tighten until nut is fully into the fitting. No pipe insert is required.

6.3 Bolt the Standpipe down to the Pile or surface.

6.4 Insulate all exposed parts of the pipe and fittings with waterproof pipe insulation.

6.5 Remove the cable tie or wire securing the cover. Hold the handle –

WARNING!

Cover will drop down unless held by handle

6.6 Fit the Padlock (normally supplied).

6.7 Ensure the servicing valve in the Standpipe is on (slot vertical). The Servicing valve is accessed through the top hole of the front cover.

7.0 FROST PROTECTION

7.1 The Standpipe is insulated, which provides a reasonable degree of protection. For potentially prolonged freezing periods – isolate the supply at source and leave the Bib Tap open.

7.2 Frequently the Standpipe application may be summer only (e.g. irrigation) and it is recommended the unit be isolated and the left with the Bib Tap open after the summer.

7.3 Ideally the Standpipe should be isolated at source - e.g. at a servicing valve, which is frequently inside a building. If this is not possible, isolate using the Standpipe's internal servicing. Insert a screwdriver through the top hole in the front cover and rotate ¼ turn clockwise.

7.4 For use in freezing conditions – the Standpipe should be appropriately trace heated.

8.0 OPTIONS

OPTION	CODE
Padlock c/w 2 Keys KA – Std Shackle	SP35
Squire Padlock Combination – High Anti Rust	SPCP1
2-Pipe Tee Assy for 20 mm MDPE	SP20TEE
2-Pipe Tee Assy for 25 mm MDPE	SP25TEE
Pile for Soft Ground c/w M12 SS Fasteners	SPPILE
Pipe Int. DB ½" Inter-Lock Hose Conn.	DB20IL15
Servicing Valve Below Ground 20 MDPE	BVBG20
Serv. Valve Below Ground Meter 20 MDPE	BVBGM20
Servicing Valve Below Ground 25 MDPE	BVBG25
Serv. Valve Below Ground Meter 25 MDPE	BVBGM25
Servicing Valve Below Ground 32 MDPE	BVBG32
Serv. Valve Below Ground Meter 32 MDPE	BVBGM32
Long Water Box Key for HUBG / BVBG	BVBGKEY
Standpipe Trace Heating Self Regulating	SPTH

Padlocks – High Anti Rust, model SP35 supplied with 2 keys or code SPCP1 has four digit combination.

Pile – Galvanised steel pile for mounting the Standpipe in soft ground.

2-Pipe Tee Assembly – Allows two pipes to be connected to the Standpipe, thus enabling "daisy-chaining" to additional standpipes and avoid underground connections.

DB Pipe Interrupter – Fits to the Standpipe outlet and provides Fluid Category 4 backflow protection – see DB256 Datasheet.

Below Ground Servicing Valve – Effective frost protection for the winter can be achieved with this below ground servicing valve, which should be closed and the standpipe left open – can be supplied with volumetric water meter.

Long Water Box Key – allows access to the below ground servicing valve.

Trace Heating - Factory fitted option that provides Trace Heating to the Standpipe and is designed to protect the unit from freezing. The cable is self regulating and thus consumes more current as the temperature decreases generating heat.

9.0 SPARES

9.1 Please contact Arrow Valves for any spares required on 01442 823123 or online at www.arrowvalves.co.uk.