

ACCESS POP-UP BORDER WATERING SYSTEM

Description of kit SBMP5

The kit includes Hunter MP 300mm high pop-up sprinklers, supply pipework and fittings.

CODE	DESCRIPTION	QTY
KHPPR-12	Pro-spray pop-up sprinkler 12" riser	5
KHMP8A	MP rotator sprinkler nozzle	5
FPTN3-2	Plastic threaded nipple 3/4"m x 1/2"m	5
PEB20-25M	Black MDPE pipe 20mm x 25m	1
FLT20-3F	Compression tee 20mm x 3/4" female	4
FLE20-3F	Compression elbow 20mm x 3/4" female	1
FLF20-3	Compression female 20mm x 3/4" female	1
FPTN3	Plastic threaded nipple 3/4" male	1
P67	Rubber washer gauze filter 3/4"	1
FQCBT3	Brass tap connector	1
EPTFE-G	PTFE gas quality tape	1
KHKMP	MP rotator key	1

Supply requirements

The ideal supply pressure and flow at the sprinkler point to provide the 3m radius is 500l/h@2.8bar, however the system will operate with a minimum flow of 300l/h@2.1bar (reduced radius of 1.8m, the sprinkler spacing will also need to be reduced). It is advisable to check the supply before installing to ensure the correct sprinkler spacing.

Fittings

Compression type

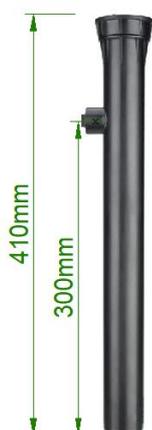
To fit Plassim compression type fittings, first cut the end of the pipe square. Slacken the black cap until it is just holding on the threads, then firmly push the pipe into the fitting ensuring it goes through the internal rubber seal. Finally, tighten the cap hand tight is sufficient.

Threaded type

All threaded joints need to be sealed using PTFE tape (**EPTFE-G**) allow 50% overlap and wind around the thread in a clockwise direction.

Sprinkler body

The sprinkler body has 2 available entry points, at the base and the side. Using the side entry means the supply pipe itself doesn't need to be buried so deep or if required the supply pipe can run on the surface with just the lower part of the body buried.



Side entry

Remove the blanking plug and use to seal the bottom entry hole. Screw in the plastic threaded nipple **FPTN3-2** (use PTFE tape to seal the threads).

Supply pipe depth: 150mm (sprinklers 415mm).

Bottom entry

Screw in the plastic threaded nipple **FPTN3-2** (use PTFE tape to seal the threads).

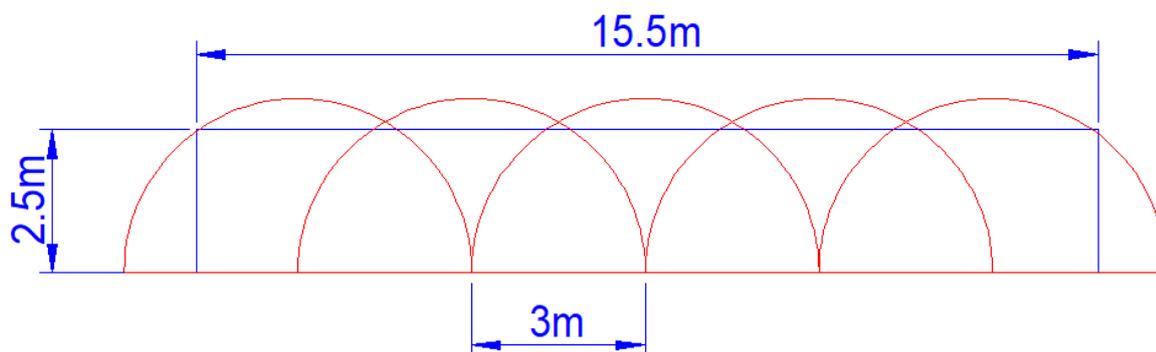
Supply pipe and sprinkler depth: 450mm.

Supply pipe

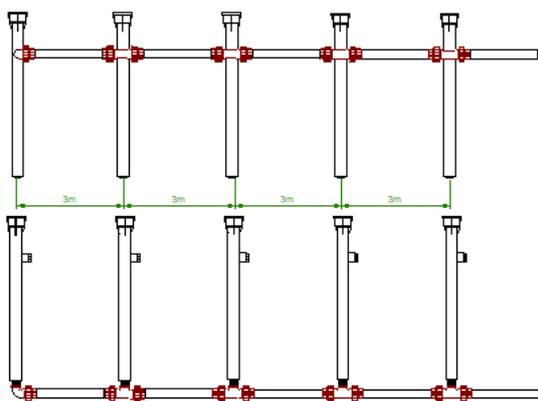
Trenches should be straight sided and free of sharp stones. We recommend pressure testing the system prior to backfilling. Always tape over the ends of the pipe to prevent any dirt ingress. The pipe should be unrolled cartwheel fashion to avoid twisting.

A 20mm x $\frac{3}{4}$ " female stud (**FLF20-3**) is included to connect to a standard outside tap, timer or solenoid valve manifold. A $\frac{3}{4}$ " x $\frac{3}{4}$ " nipple (**FPTN3**) and brass quick connector (**FQCBT3**) is included if using a hose.

System layout



The basic configuration assumes a radius of 3m and the sprinklers spaced at 3m (head to head). The supply pipe runs along the front of the border with sprinklers set at 180deg arcs throwing back into the border. To achieve an even coverage in this configuration the sprinklers will inevitably overthrow into the surrounding areas.



The end of run sprinkler uses an elbow (**FLE20-3F**) instead of a tee (**FLT20-3F**). Screw the fitting onto the nipple. (use PTFE tape to seal the threads).

At the sprinkler location cut the supply pipe and fit the assembly tee as previous instructions. Ensure the sprinklers are set vertically in the ground

Sprinkler adjustment

The sprinkler is fitted with a flushing cap and after running the system to remove any air or debris, use the lifting handle to pull up the riser. Hold the riser firmly and unscrew the flushing cap and replace it with the orange sprinkler nozzle. Ratchet the riser round until its LH indicator is in line with the LHS of the border.

Final adjustments should be carried out with the sprinklers operating. Use the key to adjust the RH stop and adjust the pressure if necessary.

Operating the system

Recommended watering times

180deg MP sprinklers - 20mins per day.

It is best to water the border area early morning if practicable. The above times are for guidance only and may need to be altered according to season, plant type, aspect etc.

Maintenance

The system is not designed to run through the winter months and should be drained down if practicable. The supply connection should be disconnected and any water drained out.

Options

Extra pipe and fittings are available to change the layout if required, however additional pipework will reduce the pressure in the system.

The addition of a battery timer will enable the system to be automated.

If pressure and flow is not sufficient or if the Water Authority require, a 'Cat 5' pressure booster set can be supplied.

If you have any queries regarding this kit or options available please contact our sales department.

UK water regulations require backflow prevention. The Local Water Authority must be consulted for specific requirements prior to installing this system.

Irrigation systems should only be installed by a competent person

ACCESS Irrigation Ltd, Crick, NORTHAMPTON NN6 7XS
Tel: 01788 823811

web: www.access-irrigation.co.uk e-mail: sales@access-irrigation.co.uk