

Universal Fibre Optics



Wet Area Fitting UFOE3

Component & Installation Guide

UFOE3 Components

For a successful and watertight installation, each light point will require one of each of the components shown. These are in addition to the pool pipe, which should be pre-cast into the pool at the desired locations. The pool pipe should have an internal diameter of 53mm. The recommended pipe is Certikin CP2.

Decorative Flange



A decorative and functional one piece flange fitting. Externally it is fitted with 2 o'rings to provide a watertight seal between itself and the pool pipe. There is also another internal o'ring to provide a seal between the flange and the eyeball fitting.

Gland Assembly
(optional)



A three piece gland assembly which is fitted at the opposite end of the pool pipe to the flange and eyeball. Optionally used to hold the conduit in place at the opposite end of the pool pipe.

Two Piece Eyeball



A unique 2 part eyeball design allows for dual o'rings to be fitted internally, ensuring that no water can leak through the lens and into the rest of the fitting.

Retaining Ring



The retaining ring is fitted over the eyeball, holding it in place at the desired angle. It also clamps the eyeball tightly onto the o'ring inside the flange fitting to ensure a watertight seal.

Ferrule, Radio Nut & O'Ring (supplied attached to fibre optic cable)



The ferrule terminates the fibre with a clean, polished finish and is supplied attached to the fibre. The radio nut holds the ferrule in position after the eyeball has been focussed. The o'ring provides additional sealing.

20mm Conduit

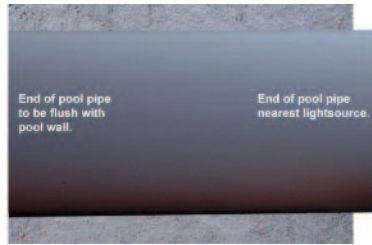


A length of 20mm OD conduit is required to be run from the light-source location, through the gland assembly and the pool pipe, emerging at the flange end. This is used to protect the fibre optic cable within the pool pipe.

UFOE3 Installation

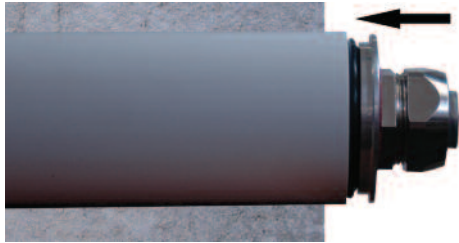
Stage 1

Pool pipe with an internal diameter of 2 inches should be cast into the pool walls. The end of the pipe which emerges into the pool should be trimmed flush with the tiles or final finish.



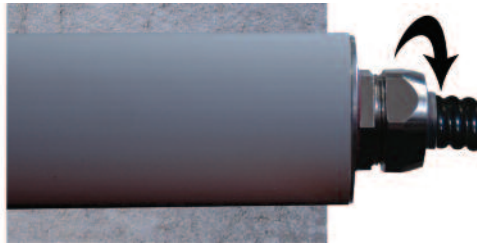
Stage 2 (only if using the back bung)

Ensure that the supplied o'rings are fitted to the gland assembly. Apply chlorine resistant sealant such as Arbokol 1025SP to the inside of the pool pipe at the end nearest the lightsource. Push the assembly into the pool pipe, ensuring a tight fit.



Stage 3

Push the 16mm diameter conduit through the gland assembly (if used). Otherwise push the conduit all the way through the pipe. Tighten the gland assembly (if used) to hold the conduit in position.



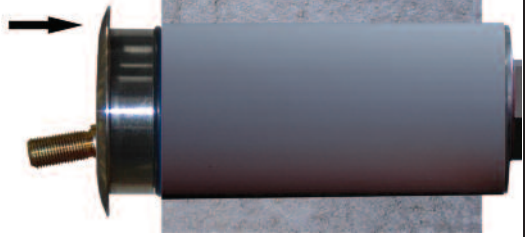
Stage 4

Feed the fibre optic tail - with its ferrule attached - through the conduit until it emerges through at the pool wall end.



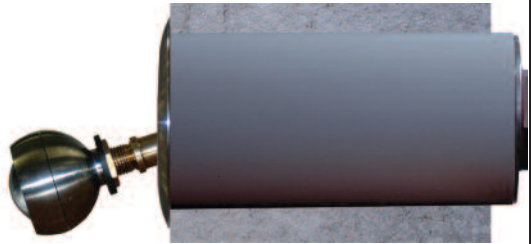
Stage 5

Ensure that the flange assembly is fitted with all 3 of its o'rings (2 external & 1 internal). Feed the ferrule through the flange and then bond the flange securely into the pool pipe using a chlorine resistant such as Arbokol 1025SP.



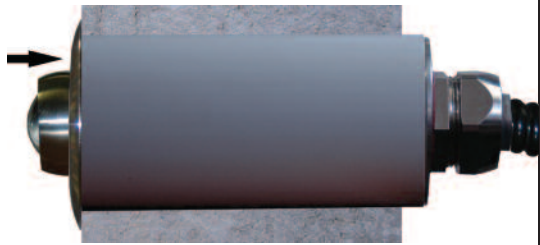
Stage 6

Screw the radio nut onto the ferrule and fit the washer. Screw the eyeball fitting onto the ferrule using plumbers tape, until the desired focus is achieved and then tighten the radio nut to secure the ferrules position.



Stage 7

Pull the fibre back so that is is concealed in the flange assembly.



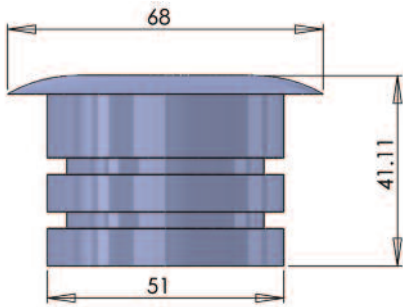
Stage 8

Screw the retaining ring onto the front of the flange assembly, using plumbers tape. Before tightening fully, move the eyeball to the required angle. The retaining ring will hold the eyeball in this position until it is removed.

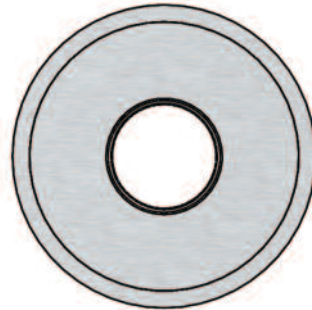
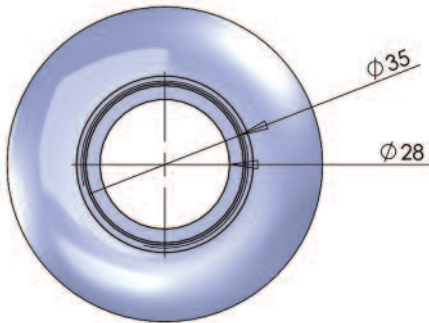
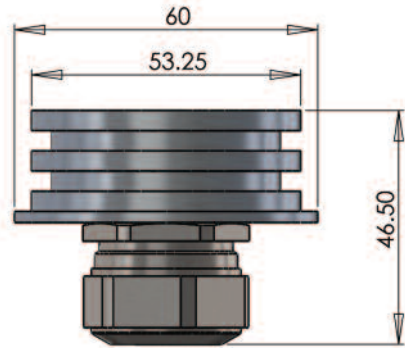


UFOE3 Dimension Specifications

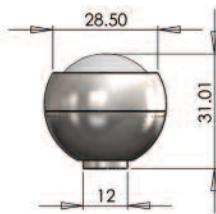
Front Flange



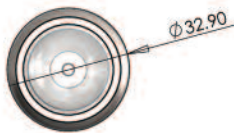
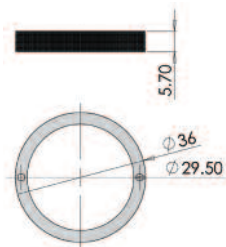
Gland Assembly



Eyeball



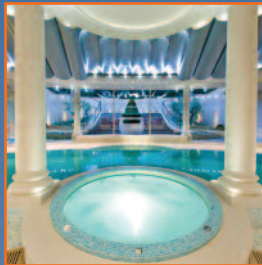
Retaining Ring



Notes

Universal Fibre Optics

Complete fibre optic lighting soluitions



Home Place
Coldstream
Berwickshire
TD12 4DT
United Kingdom

Tel: +44 (0)1890 883416

Fax: +44 (0)1890 883062

info@universal-fibre-optics.com

www.universal-fibre-optics.com