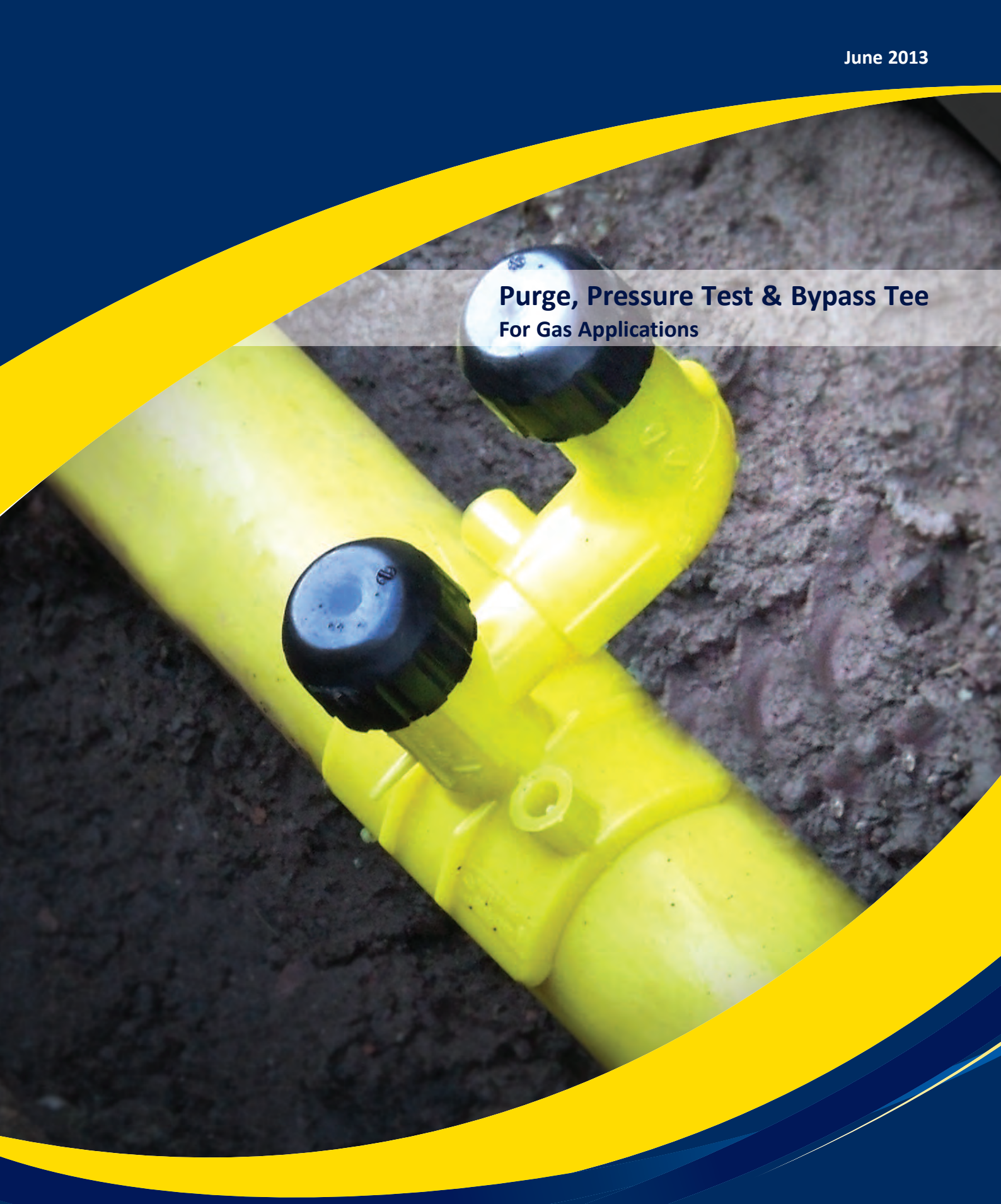


**Purge, Pressure Test & Bypass Tee  
For Gas Applications**



**RADIUS**  
*Systems*

**Pioneers in PE Pipe Technologies**

## Purge, Pressure Test & Bypass Tee

**Radius Systems' purge, pressure test and bypass tee is an innovative electrofusion fitting solution for effecting polyethylene mains connections and carrying out purge, pressure test and bypass operations.**

Specifically designed to offer a more efficient and cost effective solution to gas operators, our purge, pressure test and bypass tee is easy to install using standard electrofusion installation techniques. Fabricated using our Unifit range rated tapping tees, the purge, pressure test and bypass tee is supplied ready to fuse to the main to allow you to complete your operations on time. Approved to GIS PL2:Part 4, our purge, pressure test and bypass tees have also undertaken additional in-house tests to demonstrate their fitness for purpose as purge points. Comprehensive data is available for review.

- Factory fabrication**  
 The tapping tee, elbow and threaded outlet connection are electrofused under factory conditions, minimising the number of joints made in the field
- Unifit range rated bases**  
 Minimises stockholding by using range rated bases capable of working on more than one pipe size
- Simple and compact**  
 Smaller than any combination of products currently used for site based construction - reduces the risk of third party damage
- Threaded closure caps**  
 Final seal is achieved using a plastic threaded cap and a nitrile sealing ring
- No "snatch" operation required**  
 No need to remove parts under gas conditions - no reason for uncontrolled 'snatch' operations

## Operating Principles

### Current purge operations



### Simple purge operations using Radius' Purge, Pressure Test & Bypass Tee

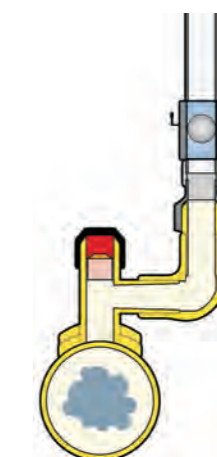
#### Step 1

Weld the purge tee onto the PE main, using the same method as for a tapping tee. Carry out a pressure test to prove weld integrity by removing one of the caps



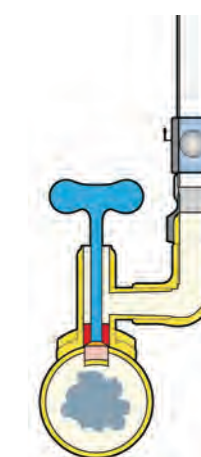
#### Step 2

Fit the purge tube to the elbow outlet of the purge tee using the reusable thread adaptor



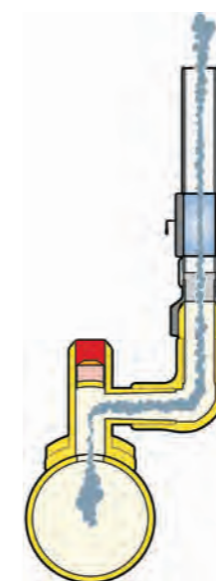
#### Step 3

Use the integral cutter to cut a hole into the PE main. Wind the cutter back up



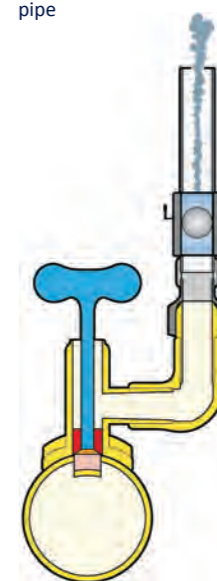
#### Step 4

Once the internal cutter is wound up, open the valve to allow the gas to escape through the purge tee



#### Step 5

When the purging operation is complete, close the valve and wind the internal cutter down so that it plugs the hole in the crown of the PE pipe



#### Step 6

Now that the gas source is isolated, the purge tube can be removed. The caps can then be refitted to permanently seal the assembly



# Purge, Pressure Test & Bypass Tee

## Product Range

### 32mm outlet

- Purge points
- Pressure points

### 63mm outlet

- Purge points
- Pressure points
- Temporary bypass construction
- Bypass with pressure point (purge stack required for this operation)

| Size range       | Product Code<br>32mm outlet | Product Code<br>63mm outlet |
|------------------|-----------------------------|-----------------------------|
| 40mm             | GA8083                      | -                           |
| 55mm             | GA8085                      | -                           |
| 63mm & 2"        | GA8086                      | GA8211                      |
| 75mm             | GA8087                      | GA8212                      |
| 90mm & 3"        | GA8088                      | GA8213                      |
| 110 - 125mm & 4" | -                           | GA8216                      |
| 110 - 140mm & 4" | GA8091                      | -                           |
| 140 - 160mm & 6" | -                           | GA8217                      |
| 160 - 213mm & 6" | GA8097                      | -                           |
| 180 - 200mm      | -                           | GA8222                      |
| 213 - 250mm & 8" | -                           | GA8226                      |
| 225 - 280mm      | GA8103                      | -                           |
| 268 - 315mm      | -                           | GA8232                      |
| 315 - 400mm      | GA8109                      | -                           |
| 355 - 469mm      | -                           | GA823.4                     |
| 440 - 560mm      | GA8115                      | -                           |
| 500 - 560mm      | -                           | GA8242                      |

## Tooling

A reusable thread adaptor is required to adapt existing purge pipes, pressure points and bypass equipment to the Radius fitting. It converts the thread on the tapping tee outlet into a female BSP thread. A tee key is available to wind the cutter down when the purge pipe is in place (see stages 3 and 5 of purge operation).

| Description             | Product Code |
|-------------------------|--------------|
| 32mm x 1" BSP-F Adaptor | FT0655       |
| 63mm x 2" BSP-F Adaptor | FT0656       |
| Tee key (short arms)    | FT0657       |

