FAQs HY100™

How do I identify Radius Systems' HY100 pipes?

Unlike other Radius Systems' solid wall pipes, HY100 have a dual material construction: black PE100 at its core and yellow PE80 for the outer. The PE materials PE100/PE80, together with the manufacturer's name are identified on the ink-jet and indented markings on the pipe surface. These markings are repeated every metre along the length of the pipe.

Why is HY100 not approved to EN 1555-2?

The scope of the EN 1555-2 specification does not allow the combination of different material classifications in the manufacture of co-extruded pipes. Therefore, HY100 pipes are only approved to the UK gas industry specification GIS/PL2-2.

Are HY100 multi-layer pipes and should they have external stripes to identify their multi-layer construction?

HY100 pipes are single layer solid wall pipes. They are therefore not multi-layer pipes and do not require external longitudinal stripes.

Why are HY100 pipes manufactured from two different material classifications of PE?

PE100 materials are increasingly becoming the norm, especially in larger pipe diameters and Radius Systems have developed their HY100 pipe range to meet with current customer and industry requirements.

GIS/PL2-2 stipulates that the outer surface of the pipe should be yellow to identify pipes for gas applications, and since there are currently no commercially available approved PE100 materials in yellow, Radius Systems have combined a PE80 yellow material with a PE100 black material to manufacture their HY100 pipes.

How should I join HY100 to alternative PE gas pipes?

To join HY100 to alternative PE gas pipes, Radius Systems recommend the use of approved electrofusion fittings. The butt-fusion technique is not recommended to join HY100 to alternative PE pipes.

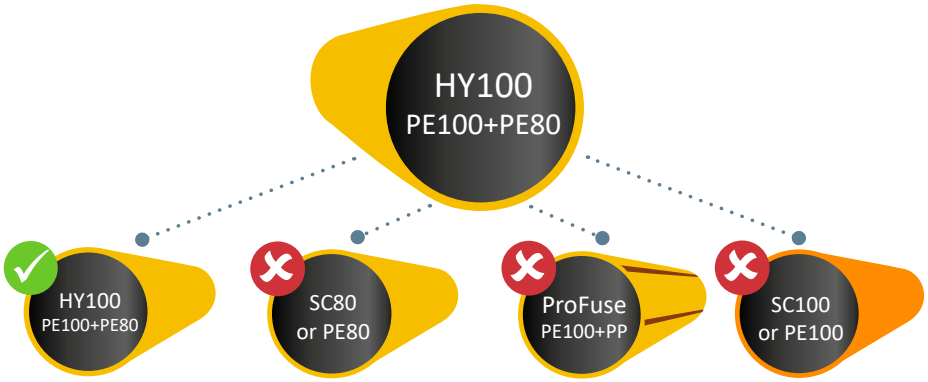
Should I completely remove the yellow outer when preparing HY100 pipe for electrofusion jointing?

No. The yellow PE outer is not a 'scrape to' guide and should not be completely removed. Removing too much pipe material may lead to joint failure.

Can I join HY100 to HY100 pipes using the butt-fusion welding technique and do I need specialist equipment?

HY100 pipes can be joined together using the butt-fusion welding technique. HY100 pipes are conventional solid wall PE pipes and as such, there is no requirement for specialist equipment to join the pipes.

Pipe compatibility for butt-fusion jointing:



What is the thickness of HY100 yellow outer and does it differ for each diameter?

The PE80 yellow outer thickness ranges from 0.7 to 1.2 mm. It does not differ through the pipe diameter range.

Radius Systems HY100 and SC80 pipes are identical in appearance. How do I differentiate them?

The differences between SC80 and HY100 pipes are identified on the ink-jet and indented markings applied to the surface of the pipes. SC80 is identified as a PE80/PE80 pipe approved to GIS/PL2-2 and EN 1555-2, whilst HY100 is identified as a PE100/PE80 pipe approved to GIS/PL2-2 only.

Correct pipe preparation for electrofusion

Incorrect pipe preparation for electrofusion