

# Plastic piping systems for industrial applications v2

## Suitability

The UK still enjoys a wide variety of manufacturing and process industries across a diverse range of sectors. Operations vary in scale conveying liquids and gases of all kinds. Anything that is not utility gas or water supply, drainage, or domestic building services can be considered as an 'industrial system'.

Examples include:

- Water treatment
- Effluent treatment
- Sewage treatment
- Ultrapure water
- Process water
- Slurries
- Pharmaceuticals
- Foods and beverages
- Swimming pools
- Textiles and dyeing

Wherever fluids and gases need to be transported, there is a potential application for light, durable and easy to install plastic pipework.

The table overleaf provides information on the suitability of plastic piping systems for a wide range of industrial applications.

## Advice on system selection, design, installation and jointing

The manufacturer should be consulted for help and guidance on selecting designing, installing or operating any plastics pipework system for industrial applications. A list of BPF Pipes Group members is provided on the BPF Pipes Group website, <https://bfpipesgroup.com/members/member-listings>

## Applications with suitable plastic piping systems

End use application	ABS	PVC-U	PVC-C	PP	PE	PVDF
Anaerobic digestion		YES			YES	
Chemical distribution and processing		YES	YES	YES	YES	YES
Potable water	YES	YES	YES		YES	
Compressed gases	YES				YES	
Desalination		YES	YES		YES	
Effluent treatment	YES	YES		YES	YES	YES
Film processing	YES	YES	YES	YES		
Fish farms	YES		YES		YES	
Foodstuffs and beverages	YES	YES		YES		YES
Gas scrubbers		YES	YES	YES	YES	YES
Glass lens and lamp manufacture				YES		
Industrial cooling water	YES	YES	YES	YES	YES	YES
Irrigation and agriculture		YES			YES	
Pharmaceuticals	YES	YES				YES
Power plants		YES	YES	YES	YES	YES
Printing inks				YES		
Refrigeration	YES				YES	
Sewage treatment	YES	YES			YES	
Ships including ballast water, treatment and processes	YES	YES	YES	YES	YES	
Slurries	YES				YES	
Swimming pools	YES	YES				
Textiles / dyeing				YES		
Ultrapure water						YES
Water treatment	YES	YES	YES	YES	YES	