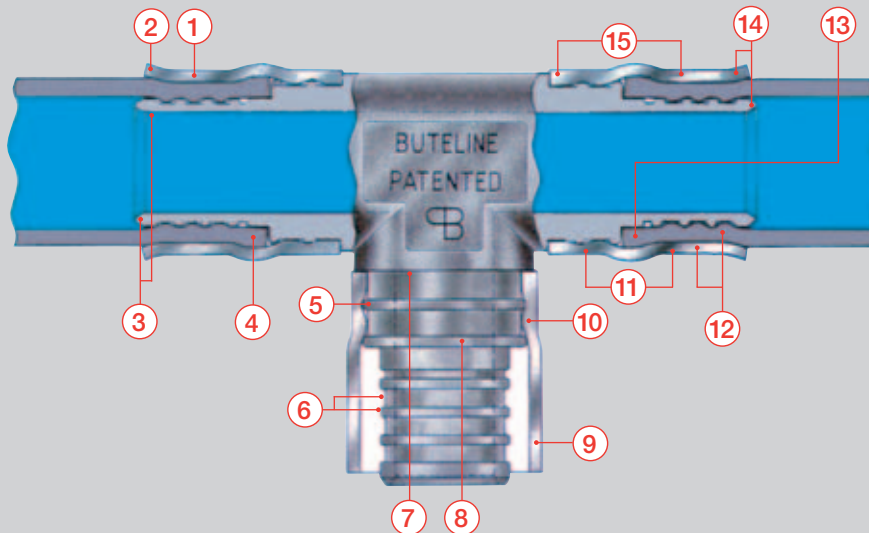


# PB BUTELINE™

## THE PROVEN, RELIABLE PLUMBING SYSTEM

### 15 Reasons Why Plumbers can have Confidence in the Buteline PB Plumbing System...



## THE BUTELINE FITTING...

*Designed using hydraulic engineering concepts proven on high pressure hydraulic fitting to hose connections.*

- 1. 8mm WIDE FORGED CLAMP**  
Minimum working stress applied (approx. 0.5 ton per sq. in.) allowing pipe material to "flow" into insert tail grooves.
- 2. 2mm WIDE FLARE**  
No stress from clamping transmitted to insert tail or pipe at end of fitting.  
End of metal sleeve cannot impinge into pipe, even in bending.
- 3. TAPERED ENTRY, SMOOTH BORE**  
Minimise resistance to water flow.
- 4. INSERT TAIL TRANSITION**  
Metal reinforcing sleeve guarantees no stress break in this critical area.
- 5. SECOND CLAMPING RING**  
Provides additional rigidity and resistance to pull-off.  
Seals against ingress of dirt and moisture.
- 6. INSERT TAIL DESIGN**  
Narrow lands with wide grooves, ensure clamp stress is transferred into the pipe joint efficiently.
- 7. MOULDED SHOULDER**  
Ensures accurate position of metal sleeve when forge clamped onto the main body.
- 8. PIPE END STOP**  
Positive end stop shoulder to locate pipe correctly prior to forge clamping.
- 9. METAL REINFORCING SLEEVE**  
Factory Cold Forged in correct position allowing insert tail to protrude.  
Guarantees correct position for final forge clamping.
- 10. SLEEVE LOCKED ONTO BODY**  
Mechanically clamped behind raised "ring" section increasing rigidity and eliminating pull-off.
- 11. METAL REINFORCING SLEEVE**  
Construction Grade Aluminium.  
Annealed, allowing easy forge clamping which locally rehardens sleeve in clamped sections.
- 12. DUAL PIPE CLAMPING**  
Provides double clamping on pipe, inside and outside, to resist pull-off and seal positively.
- 13. UNCLAMPED SLEEVE SECTION**  
No compression on end of pipe.  
Space to allow end of pipe expansion under sleeve.  
Greatly increases resistance to pipe pull-off.
- 14. METAL REINFORCING SLEEVE**  
Prevents clamp stress on end of insert tail. Ensures no damage to insert tail prior to installation.  
Makes insertion into pipe easy.
- 15. METAL REINFORCING SLEEVE**  
Reinforces insert tail.  
Guarantees no breaking of insert tail from working stresses.

### BUTELINE FITTINGS:

- ✓ Permanent mechanical joint, with superb pull-out resistance – quick and sure installations, no solvents, maintenance free.
- ✓ Extensive range of quality fittings which have complete compatibility with Buteline Polybutylene pipe.
- ✓ Annealed protective sleeve to provide a unique reinforced joint.
- ✓ Designed using hydraulic engineering concepts

