

service connections under pressure or dry, using an approved tapping machine into DI, AC, Steel or PVC pipes. The saddle shall be of two parts fitted with an EPDM sealing gasket in a groove on the underside of the flat boss.

- B.25 The flat boss shall be cast with a hole or marking through the boss to facilitate the drilling and tapping process. The straps shall be supplied undrilled. If required by the Distribution Company, the saddle strap may be used as a blanking strap to seal existing holes in the water pipelines after the removal of existing service connections.
- B.26 The saddle strap shall be of gunmetal to BS EN 1982, with stainless steel nuts, bolts and washer to ISO 3506, and shall be suitable for a working pressure of up to 16 bar. The name of manufacturer, patent number, pipe diameter for which the strap is suitable, and pipe material shall be engraved on the saddle strap.

### ***Ferrules***

- B.27 Ferrules shall be the screw-down valve type allowing for the shut-off of the flow by means of a ½" square head spindle extending from the top cap for opening and closing. The valve shall close clockwise.
- B.28 The ferrule outlet shall be a push-fit type or compression type to fit polyethylene service connection pipes.
- B.29 The ferrule stem, banjo, spindle, inner plug and top cap shall be of gunmetal to BS EN 1982. The washers shall be of EPDM and shall provide the sealing between the outer body and the ferrule stem. The ingress of dirt shall be prohibited by a polyethylene top plug.
- B.30 The ferrule shall be designed as a main stem with a 360° swivel outlet at 90° with control of water flow via the threaded inner plug. The inlet shall be a male taper thread to BS EN 10226-1/BS 21.
- B.31 The ferrule shall be suitable for potable water at a temperature of up to 45°C and capable of sustaining a working pressure of up to 16 bar without leakage.
- B.32 The ferrule shall permit the installation of service connections using under-pressure tapping through flat-boss saddle straps.
- B.33 The name of the manufacturer, standard number and patent number shall be engraved on the body.

### ***Stop Valves (medium pattern)***

- B.34 The Stop Valve shall be of the medium pattern type with female ends, manufactured and tested in accordance with the requirements of BS 5433. The spindle shall be fitted with a brass crutch head. The valve shall be manufactured according to the following specifications:
- B.35 The body, valve head and spindle head shall be manufactured from gunmetal to BS EN 1982.

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