

FIGURE 107-A: PE MAIN ELECTROFUSION TAPPING SADDLE WITH UNDERPART
FOR HOST MAINS DN125 TO DN315

As per Table 103-D, EF welding is not preferred and shall only be undertaken where the Contractor has been issued with a dispensation by the water agency to use this method.

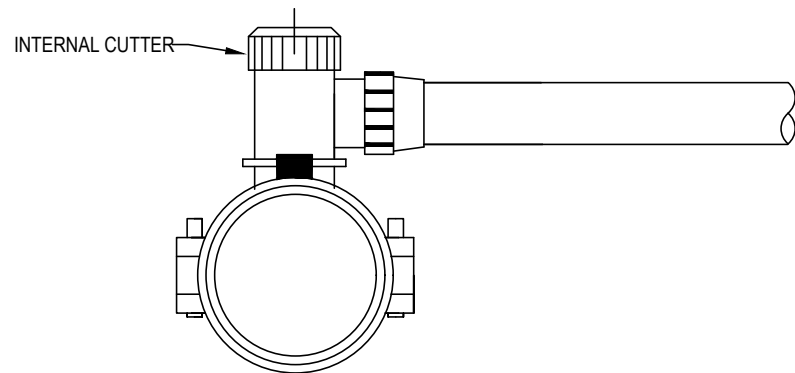


FIGURE 107-B: PE MAIN MECHANICAL TAPPING BAND

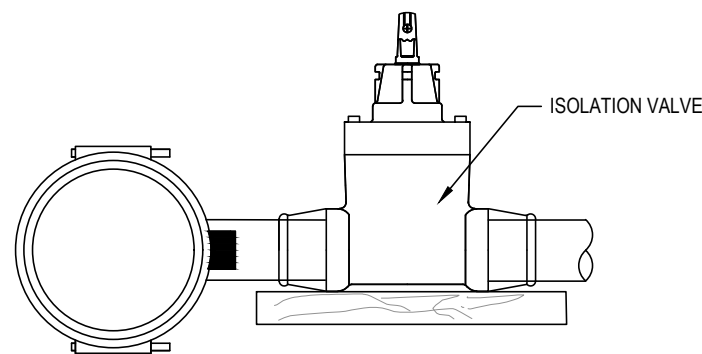


FIGURE 107-C: PE MAIN ELECTROFUSION BRANCH SADDLE WITH UNDERPART

FOR HOST MAIN DN125 TO 250 (WITH PUSH ON VALVE)

As per Table 103-D, EF welding is not preferred and shall only be undertaken where the Contractor has been issued with a dispensation by the water agency to use this method.

PE PARENT MAIN

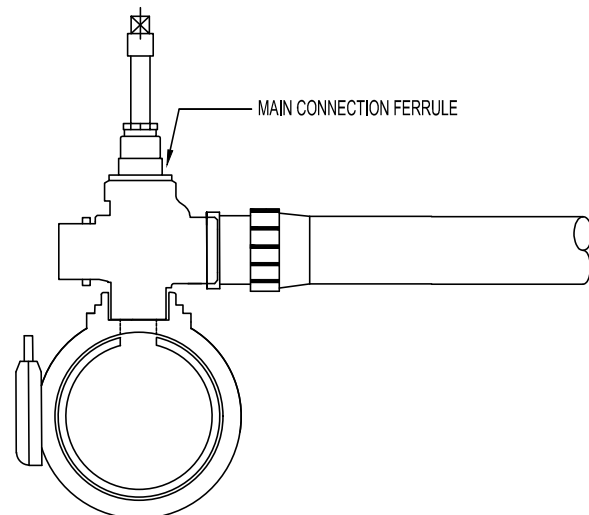


FIGURE 107-D: SS WIDE CLAMP TAPPING BAND (THREADED)

NOTES on Figure 107-D:

- NOT SUITABLE FOR PVC-O OR PE HOST MAINS
- WIDE CLAMPS HAVE 32, 40 & 50 BSP OUTLETS.

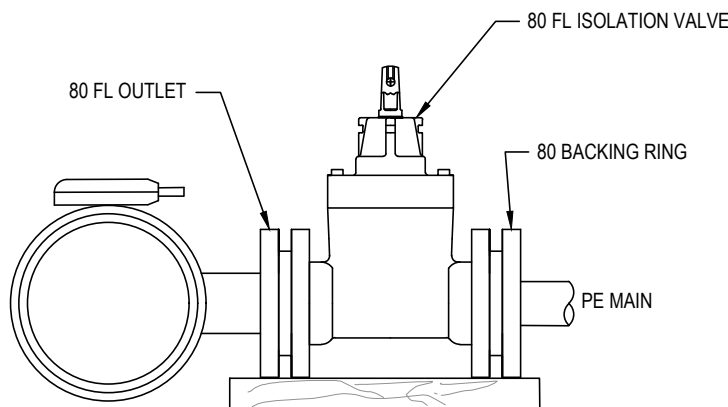


FIGURE 107-E: SS WIDE CLAMP TAPPING BAND (FLANGED)
(NOT SUITABLE FOR PVC-O & PE)

DI, PVC-M OR PVC-U PARENT MAIN

FOR PARENT MAINS < DN525

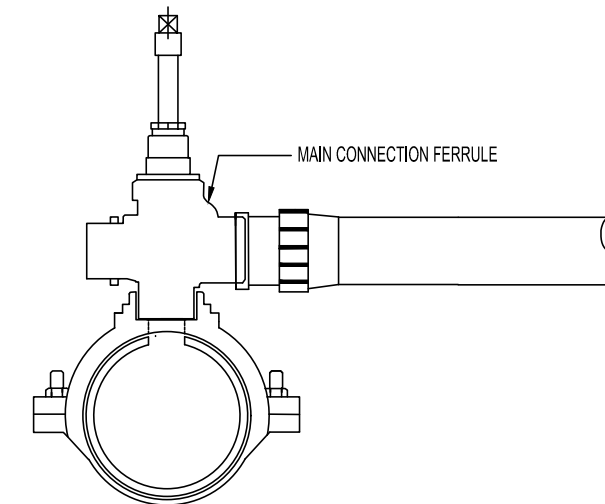


FIGURE 107-F: NARROW CLAMP TAPPING BAND

NOTES on Figure 107-F:

- Examples of this fitting includes Milnes, 4N and Hawle Haku (for PE pipe only)
- For host mains DN100 to DN315
- Narrow clamps have 32, 40 & 50 BSP outlets.

ANY PARENT MAIN
(EXCEPT STEEL)

GENERAL NOTES:

1. For PE main tapping saddle/ band jointing preferences, refer to Table 103-D.
2. Another acceptable option is to cut in a flanged offtake tee & use a tapped blanked flange to connect to a PE main (refer Figure 109-B).
3. Maintain a minimum 500 longitudinal spacing (between outside of fittings) between tapping bands, saddles, pre-tapped connectors and/or pipe joints, except for existing PVC-U, cast iron and asbestos cement pipes where spacings should be in accordance with water agency requirements (based on pipe condition).
4. All options shown (except Figure 107-C) are suitable for under pressure connections.
5. DN40PE, DN50PE and DN63PE industrial, commercial and multiple dwelling connections shall be constructed in this way.
6. Ferrules require adaptor or compression fittings to connect to PE.
7. All gate valves shall be operable from surface with surface fittings as per MRWA-W-302.
8. All ferrules shall be buried unless:
 - 8.1. they are located under reinforced concrete.
 - 8.2. they are for fire service connections.
 In these cases, they shall be operable from surface and be provided with a surface cover (Fitzroy box).
9. Where multiple connections of this type are made, neighboring tappings shall be at least 15 degrees different in their vertical orientation (so that holes do not line up).
10. Bare metal fittings are not to be used in corrosive ground (soil resistivity > 500 ohm.cm) unless they are wrapped with a petrolatum wrapping system. Refer to MRWA-W-306A for details.
11. Steel mains with DN40-63PE offtakes shall be tapped as per MRWA-W-400 (insulation not required)

TABLE 107-A: HOST MAIN, VALVE & DRILL DIAMETERS AT CONNECTIONS

OFFTAKE SIZE	MIN HOST MAIN SIZE	FERRULE SIZE	WIDE CLAMP DRILL SIZE	NARROW CLAMP DRILL SIZE
DN40PE	DN63PE	32 mm	28 mm	28 mm
DN50PE	DN100	40 mm	36 mm	36 mm
DN63PE	DN100	50 mm	46 mm	36 mm (> 400 kPa) *

* WHERE OPERATING PRESSURES ARE BELOW 400 kPa, A 46mm DRILL HOLE IS PREFERRED.

DESIGNED:	R. JAGGER	DATE:	20/01/2011
DRAWN:	B. TUNNICLIFFE	DATE:	20/01/2011
CHECKED:	NAME	DATE	APPROVED: NAME
<input checked="" type="checkbox"/> CWW	C. RIVETTE	21/03/12	<input checked="" type="checkbox"/> CWW R.CARRUTHERS
<input checked="" type="checkbox"/> SEWL	C.PAXMAN	21/03/12	<input checked="" type="checkbox"/> SEWL G.REYNOLDS
<input checked="" type="checkbox"/> YVW	K.DAWSON	21/03/12	<input checked="" type="checkbox"/> YVW A.COSHAM

MELBOURNE RETAIL WATER AGENCIES

MRWA WATER SUPPLY STANDARDS

INSTALLATION OF
DN40PE, DN50PE & DN63PE OFFTAKES

NOT TO SCALE

MRWA-W-107

ISSUED 2012 REVISION NO. 3