

Product Detail

The MLC PPSU Press-fit elbow is constructed of a Polyphenylsulfone (PPSU) body featuring a triple EPDM o-ring seal and press stainless steel sleeve. Jointing is made by pressing the stainless steel sleeve into place using a hydraulic press tool with a U profile jaw. All PPSU press joints have the same design parameters and tolerances as the pipework system and carry the same warranty. The outer sleeve of any press fittings contains an inspection window which will allow the installer to determine whether the pipe has been pushed fully into the fitting before pressing commences. Also, the plain press sleeve clearly shows when a joint is pressed an unpressed joint.

Benefits

- 10 Bar Operative pressure
- non-corrosive PPSU body
- 10 Year Insurance backed warranty as standard

Features

- Triple O-ring Seal
- U profile pressing
- inspection window
- plain press sleeve
- jaw locator



Product Code	11-530xx
Sizes	16-75mm
Body Material	Polyphenylsulfone (PPSU)
Sleeve Material	Stainless Steel
Maximum Operating Pressure	10 Bar
Maximum Operating Temperature	95°C (100 hours)
Approvals	WRAS, DVGW,CE

Installation

3.1.1. Preparation of the connection

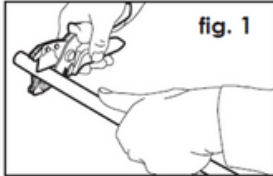


fig. 1

1. CUT TO LENGTH OF THE PIPE

16 mm – 20 mm (fig. 1)
Cut the MULTITUBO systems pipe right-angled with the pipe cutter.

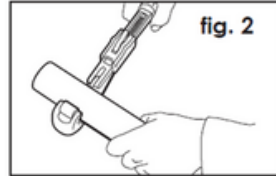


fig. 2

25 mm - 110 mm (fig. 2)
Cut the MULTITUBO systems pipe right-angled with the pipe cutting tool.

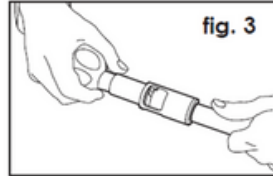


fig. 3

16 mm – 32 mm (fig. 3)
Bevel the MULTITUBO systems multi-layer pipe by using the beveling insert in combination with the handle until there is a clearly visible edge all over the pipe end.

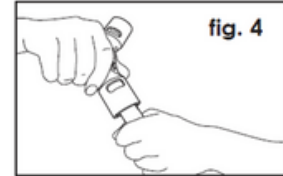


fig. 4

16 mm / 20 mm / 25 mm (fig. 4)
Use the Combined Beveling Tool for press-, push- or welding connections to make a clearly visible edge all over the pipe end.

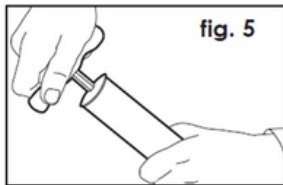


fig. 5

40 mm – 75 mm (fig. 5)
Use the Beveling Tool until there is a clearly visible edge all over the pipe end.

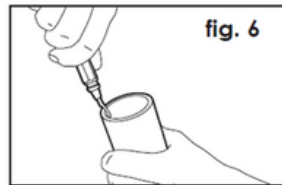


fig. 6

32 mm – 110 mm (fig. 6)
Make a visible edge all over the pipe end by using the Universal Beveling Tool Welding/Modular. Please be aware of the roundness of the pipe!

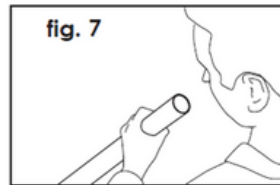


fig. 7

3. INSPECTION OF THE PIPE AND THE FITTING BEFORE INSERTING THE FITTING

Visual inspection of the beveled pipe end and the fitting to identify damages or impurities (fig. 7 + fig. 8). Visual inspection of the beveled pipe end to ensure an equal edge all over (fig. 7 + fig. 9).

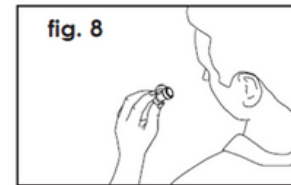


fig. 8

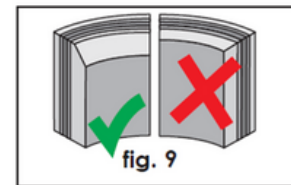


fig. 9

3.1.2. Connections with press fittings 16 mm - 32 mm

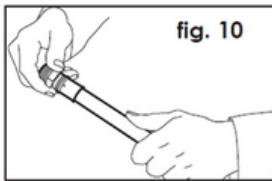


fig. 10

1. ATTACH FITTING TO PIPE

a) Preparation of the MULTITUBO systems multi-layer pipe as described in point 3.1.1.
b) Push the fitting into the pipe as far as it will go (fig. 10); the correct insertion depth is indicated by the appearance of the pipe in the inspection window of the metal sleeve.

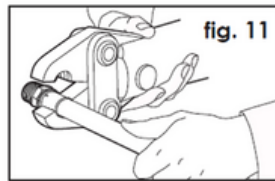


fig. 11

2. PRESSING OF THE FITTING

Open the pressing jaws and position the pressing jaws and position the fitting between the double guides on the press-sleeve (fig. 11, fig. 12). Close pressing jaws and start pressing procedure.

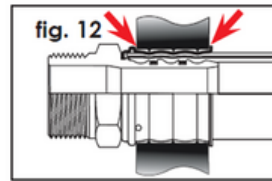


fig. 12

Zeta Values

Dimension $d_a \times s$	mm	16 x 2.00	20 x 2.25	25 x 2.50	32 x 3.00	40 x 4.00	50 x 4.50	63 x 6.00	75 x 7.50
Inner-diameter d_i	mm	12	15,5	20	26	32	41	51	60
Zeta-value ζ / equivalent pipe-length L_a	m	ζ L_a	ζ L_a	ζ L_a	ζ L_a	ζ L_a	ζ L_a	ζ L_a	ζ L_a
Elbow 90°		4.3 2.0	2.9 1.9	2.7 2.4	2.3 2.7	2.0 3.1	1.6 3.3	1.4 3.8	1.5 4.6