PLASSON AUSTRALIA

THICK WALL COUPLER

4501

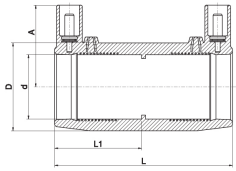
Plasson Electrofusion fittings are globally recognised as best in class. The Plasson SmartFuse thick wall coupler is designed for high pressure pipelines, with a heavy wall section for welding to SDR7.4 to SDR11 pipe. Integrated resistors enable automatic weld time recognition when used with a Plasson electrofusion machine, and a single weld time between -10°C and +45°C. The coated coil system is widely regarded as the easiest to use in the trench. Rated PN25 for water (PN20 at 400mm), the range is suitable for gas, water, recycled water, compressed air and other industrial applications.

FEATURES AND BENEFITS

- High quality PE100-RC resins
- Thick wall design for high pressure applications
- Coated coils protect the electrical design and offer superior gap filling properties
- Large welding and cooling zones for joint integrity
- SmartFuse automatic weld time recognition eliminates manual input errors
- Removable centre pipe stops allow slip installation
- Suitable for gas, water, recycled water, compressed air and other industrial applications



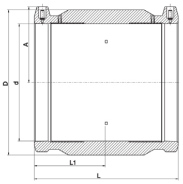
50mm to 75mm



50mm to 75mm



90mm to 400mm



90mm to 400mm

Product Code	Size d	L	L1	D	A	Carton	W	PN Water	SDR Gas	Pipe SDR Suitability
4501001	50	100	49	68	52	132	151	25	7.4	7.4-11
4501002	63	118	57	82	58	72	233	25	7.4	7.4-11
4501003	75	126	62	97	65	60	339	25	7.4	7.4-11
4501004	90	148	73	117	69	38	571	25	7.4	7.4-11
4501005	110	163	80	140	79	23	860	25	7.4	7.4-11
4501006	125	173	85	157	87	18	1087	25	7.4	7.4-11
4501016	140	181	89	175	103	12	1320	25	7.4	7.4-11
4501007	160	198	97	198	105	6	1780	25	7.4	7.4-11
4501008	180	212	104	224	114	4	2449	25	7.4	7.4-11
4501009	200	223	110	249	126	4	3295	25	7.4	7.4-11
4501010	225	240	118	280	140	4	4460	25	7.4	7.4-11
4501011	250	256	127	310	155	2	5610	25	7.4	7.4-11
4501012	280	274	135	341	166	1	6470	25	7.4	7.4-11
4501013	315	284	140	381	184	1	8884	25	7.4	7.4-11
4501015	355	280	138	430	204	1	10438	25	7.4	7.4-11
4501014	400	324	162	502	231	1	22000	20	9	7.4-11

Dimensions in mm. W = weight in grams. Carton = units per pack. PN Water = pressure rating on water. SDR Gas = SDR rating of the fitting. Pipe SDR Suitability = SDR range of pipe the coupler can be welded to.

MATERIALS

- **Body:** PE100-RC (crack resistant) resin, black
- **Heating coil:** Coated, embedded in the fitting body

INSTALLATION

Plasson Australia no longer publish generic how to perform electrofusion instructions. Plasson Australia recommend installation as per POP001 – Electrofusion Jointing of PE Pipe and Fittings for Pressure Applications as published by Plastics Industry Pipe Association of Australia (PIPA). This is free to download from https://pipa.com.au

These couplers have small centre stops which can easily be removed for use as a slip coupler.

OPERATING TEMPERATURES

Refer to the PIPA POP013 guidelines.
Link: https://pipa.com.au/technical/pop-guidelines/

WELDING

- Integrated resistors for automatic weld time recognition (SmartFuse) when used with a Plasson electrofusion machine.
- Single weld time between -10°C and +45°C.
- ISO 13950 compliant barcode system.

CHEMICAL RESISTANCE

Plasson electrofusion fittings are made from high quality PE100-RC (crack resistant) resins. For chemical purposes they are considered as being made from HDPE, high density polyethylene.

QUALITY CERTIFICATES

Plasson fittings are tested and approved according to AS/NZS 4129:2020. These fittings are included in schedules for WaterMark, ISO Type 5 Certificate of Conformity and have been WSAA appraised.
Electrofusion fittings are batch controlled. Record the batch number on the fitting label and contact Plasson Australia for a copy of the EN 10204 3.1 Inspection Certificate.