

PRODUCT SPECIFICATION SHEET

HDPE Fittings and Electrofusion Fittings | Commercial / Industrial Applications | Revision 2026-08B

PRODUCT SCOPE: SP1 Fittings Inc. supplies polyethylene piping-system fittings for commercial and industrial applications, including molded and fabricated HDPE fittings and electrofusion fittings. Final dimensions, SDR, pressure rating, resin or material standard and joining requirements are product-specific and must be confirmed from the applicable quotation, product marking, drawing or manufacturer documentation.

1. HDPE Molded and Fabricated Fittings

- Fittings are intended for joining to compatible polyethylene pipe and components within the fitting's published design conditions.
- Available configuration, size, dimensional standard, SDR and pressure class are order-specific.
- Pipe resin or material, dimensional standard, pressure class and SDR compatibility must be verified before installation.
- Project-specific SDR limitations, transition requirements or installation restrictions stated by SP1 Fittings Inc. or the applicable manufacturer take precedence.
- Fittings must be properly stored, handled, aligned, supported and joined using the applicable written fusion or installation procedure.

2. Electrofusion Fittings

- Electrofusion fittings are intended for fusion to compatible polyethylene pipe or components using the parameters specified for the individual fitting.
- A compatible, properly maintained and calibrated electrofusion processor must be used.
- The processor must supply the voltage, current, fusion time and barcode or manual parameters required by the fitting.
- Where a fitting requires 42-48 V, the processor must expressly support that operating range.
- Before installing a fitting expected to draw more than 80 A, contact SP1 Fittings Inc. for equipment guidance.
- Fittings must remain clean, dry and protected from contamination. Original sealed packaging must remain intact until the fitting is required for use.

3. Electrofusion Installation Requirements

Requirement	SP1 Fittings Inc. Installation Requirement
Pipe preparation	Cut square; scrape or peel the fusion area correctly and uniformly; clean using an approved cleaner.
Pipe condition	Compatible, dimensionally suitable and free from damage or contamination; reround where out-of-round.
Alignment	Align and clamp components; prevent movement throughout the complete fusion and cooling cycle.
Environment	Protect the fusion area from moisture, dirt, contamination and adverse conditions.
Power supply	Use clean, stable power. Generator capacity must satisfy processor and fitting requirements.
Processor	Compatible, maintained and calibrated; capable of required voltage, current, time and fusion parameters.
Installer	Trained and qualified; follow the fitting and processor instructions. Retain required certification.
Records	Retain fitting markings and barcode, material information, pipe data, processor and machine records, installer information, preparation records and before-and-after photographs.

4. Design and Application Requirements

- Product selection and system design are solely the Purchaser's responsibility. SP1 Fittings Inc. does not provide or assume engineering or design services or responsibility.
- Confirm compatibility with pipe, adjoining components, conveyed media, operating temperature and pressure, and anticipated test and surge conditions.
- Do not operate outside the published pressure-temperature rating of the specific Product.
- Account for surge pressure, vacuum, water hammer, cyclic loading, bending and point loads, deflection, anchoring, restraint, support and installation conditions.
- Do not use a fitting with damaged, contaminated, excessively weathered or dimensionally unsuitable pipe or components.

5. Storage and Handling

- Store Products in accordance with applicable SP1 Fittings Inc. and manufacturer instructions and protect them from contamination, impact and abnormal ultraviolet exposure.
- Do not install Products that have been damaged, altered, machined, contaminated or otherwise compromised.
- Electrofusion Products intended for return must remain unused and in their original sealed plastic packaging.

6. Mandatory Traceability and Quality Records

For project records and any warranty investigation, the Purchaser must retain and supply, where applicable:

- SP1 Fittings Inc. invoice or order number and Product description;
- fitting markings, label and barcode; size, SDR and batch or lot number; resin or material information;
- pipe manufacturer, size, SDR and lot information;
- electrofusion processor and fusion-machine identification, calibration information and fusion records;
- installer name, training, qualification and certification information; and
- installation date and location, operating conditions, preparation records and photographs taken before and after fusion.

EVIDENCE PRESERVATION: The complete failed fitting, together with the adjoining pipe and fusion joint, must be preserved and made available for inspection. A fitting or fragment submitted without the adjoining pipe, joint and available installation records may be insufficient to establish a covered defect.

7. Warranty and Third-Party/OEM Products

Products manufactured or fabricated by SP1 Fittings Inc. are subject to the SP1 Fittings Inc. Limited Warranty and Returns Policy, Revision 2026-08B. Subject to that Policy, the commercial warranty period is twelve (12) months from the date SP1 Fittings Inc. ships the Product. Delayed storage, installation or commissioning does not extend or restart the Warranty Period.

Incorrect selection, incompatible components, improper storage, installation or fusion, operation outside published limits, and other causes unrelated to a defect in material or workmanship existing when shipped are excluded. The Purchaser must comply with the complete claim, notice, inspection, traceability and evidence-preservation requirements in the Policy.

Products manufactured by a third party are subject only to the original manufacturer's warranty, if any. SP1 Fittings Inc. does not independently enlarge, extend or assume the manufacturer's warranty.

SP1 Fittings Inc.'s sole obligation and the Purchaser's exclusive remedy for a covered defect are limited to replacement of the defective Product or refund or credit of its net purchase price, as determined under the Limited Warranty. SP1 Fittings Inc. will not reimburse or pay excavation, shutdown, downtime, access, investigation, testing, engineering, consulting, labour, wages, contractor or third-party charges, removal, repair, remediation, rectification, damage, delay, installation, reinstallation, site-restoration or other associated costs. The complete exclusions, limitations and aggregate liability cap in the Limited Warranty govern exclusively.

8. Document Control

This sheet is a general product-family specification and installation summary. It does not replace the product-specific fitting label, barcode, dimensional drawing, pressure-temperature rating, fusion parameters, installation instructions, manufacturer warranty or project engineering requirements. Technical data applicable to the exact part number being installed controls.

If this sheet conflicts with a product-specific drawing, marking or manufacturer instruction, the product-specific document controls only for technical requirements. This sheet does not modify, enlarge, extend or override any warranty, remedy or liability. Warranty coverage, remedies, excluded costs and liability remain governed exclusively by the SP1 Fittings Inc. Limited Warranty and Returns Policy, Revision 2026-08B.