



# Certificate of Compliance

## Type Approval

**Issued to:** NUPIGECO SpA, Via dell' Artigianato, 13, I-40023 Castel Guelfo di Bologna, Italy.

**Product range:** Smartflex pipe product range

This certificate covers only those items listed on the attached pages.

**Applications:** Positive pressure and vacuum suction delivery, vent lines, fill pipes, vapour recovery and secondary containment Type CS2 & CP2.

**This is to certify that samples of the items listed on the attached pages have been tested by ERA Technology Ltd and have been found to comply with the requirements of the following standard for initial type testing:**

**EN14125:2013 Thermoplastic and flexible metal pipework for underground installation at petrol filling stations**

**Full details are given in ERA report number:** 2006-0091 Issue 2 and ERA Test Certificates 4613-4615, and ERA project EDP2220001.

NOTE 1: This certificate should only be reviewed or reproduced in full.

NOTE 2: This certificate remains the property of ERA Technology Ltd. ERA reserves the right to withdraw or revise it following written notification to the issuee. Any revision is indicated by a change in certificate number.

NOTE 3: TSMAUS secondary pipe added for use with TSMAU primary pipe

### Conditions on the validity of this Certificate:

1. The marking on the pipes shall be updated to comply with EN 14125 Table 6.
2. The Manual shall be updated to state that the parts SALM, SFLAK, SADWM and SRCPG may not be directly buried in the ground unless duly protected.

**Certificate prepared by :**

A handwritten signature in blue ink, appearing to read 'NJB', followed by a horizontal line.

Nick Blackman  
Engineer

**Certificate approved by :**

A handwritten signature in blue ink, appearing to read 'A. Friday', followed by a horizontal line.

Alan Friday  
Head Engineering Design &  
Performance

**Certificate number: 01-NUPI2014-010**

**Dated: 4<sup>th</sup> July 2014**

**ERA Technology Ltd, Cleeve Road, Leatherhead, Surrey KT22 7SA, UK**

| Type      | Size        | Component                       | Part No.     | Applications   |
|-----------|-------------|---------------------------------|--------------|----------------|
| Smartflex | 32mm        | Pipe with Z barrier layer       | TSMAH32 (Z)  | PP/VA/VE/FI/VR |
| Smartflex | 50mm        | Pipe with Z barrier layer       | TSMAH50 (Z)  | PP/VA/VE/FI/VR |
| Smartflex | 63mm        | Pipe with Z barrier layer       | TSMAH63 (Z)  | PP/VA/VE/FI/VR |
| Smartflex | 90mm        | Pipe with Z barrier layer       | TSMAH90 (Z)  | PP/VA/VE/FI/VR |
| Smartflex | 110mm       | Pipe with Z barrier layer       | TSMAH110 (Z) | PP/VA/VE/FI/VR |
| Smartflex | 160mm       | Pipe with Z barrier layer       | TSMAH160 (Z) | PP/VA/VE/FI/VR |
| Smartflex | 32mm        | Pipe with H barrier layer       | TSMAH32 (H)  | PP/VA/VE/FI/VR |
| Smartflex | 50mm        | Pipe with H barrier layer       | TSMAH50 (H)  | PP/VA/VE/FI/VR |
| Smartflex | 63mm        | Pipe with H barrier layer       | TSMAH63 (H)  | PP/VA/VE/FI/VR |
| Smartflex | 90mm        | Pipe with H barrier layer       | TSMAH90 (H)  | PP/VA/VE/FI/VR |
| Smartflex | 110mm       | Pipe with H barrier layer       | TSMAH110 (H) | PP/VA/VE/FI/VR |
| Smartflex | 160mm       | Pipe with H barrier layer       | TSMAH160 (H) | PP/VA/VE/FI/VR |
| Smartflex | 50 mm       | pipe with H barrier layer       | TSMAH50      | PP/VA/VE/FI/VR |
| Smartflex | 63 mm       | pipe with H barrier layer       | TSMAH63      | PP/VA/VE/FI/VR |
| Smartflex | 90 mm       | pipe with H barrier layer       | TSMAH90      | PP/VA/VE/FI/VR |
| Smartflex | 110 mm      | pipe with H barrier layer       | TSMAH110     | PP/VA/VE/FI/VR |
| Smartflex | 160 mm      | pipe with H barrier layer       | TSMAH160     | PP/VA/VE/FI/VR |
| Smartflex | 50 mm       | electrofusion coupler           | SME50        | PP/VA/VE/FI/VR |
| Smartflex | 63 mm       | electrofusion coupler           | SME63        | PP/VA/VE/FI/VR |
| Smartflex | 90 mm       | electrofusion coupler           | SME90        | PP/VA/VE/FI/VR |
| Smartflex | 110 mm      | electrofusion coupler           | SME110       | PP/VA/VE/FI/VR |
| Smartflex | 50 mm       | 45° electrofusion elbow         | SCE50        | PP/VA/VE/FI/VR |
| Smartflex | 63 mm       | 45° electrofusion elbow         | SCE63        | PP/VA/VE/FI/VR |
| Smartflex | 90 mm       | 45° electrofusion elbow         | SCE90        | PP/VA/VE/FI/VR |
| Smartflex | 110 mm      | 45° electrofusion elbow         | SCE110       | PP/VA/VE/FI/VR |
| Smartflex | 50 mm       | 90°electrofusion elbow          | SGE50        | PP/VA/VE/FI/VR |
| Smartflex | 63 mm       | 90°electrofusion elbow          | SGE63        | PP/VA/VE/FI/VR |
| Smartflex | 90 mm       | 90°electrofusion elbow          | SGE90        | PP/VA/VE/FI/VR |
| Smartflex | 110 mm      | 90°electrofusion elbow          | SGE110       | PP/VA/VE/FI/VR |
| Smartflex | 50 mm       | electrofusion equal tee         | STE50        | PP/VA/VE/FI/VR |
| Smartflex | 63 mm       | electrofusion equal tee         | STE63        | PP/VA/VE/FI/VR |
| Smartflex | 90 mm       | electrofusion equal tee         | STE90        | PP/VA/VE/FI/VR |
| Smartflex | 110 mm      | electrofusion equal tee         | STE110       | PP/VA/VE/FI/VR |
| Smartflex | 50 mm       | electrofusion equal tee (green) | STELV50      | PP/VA/VE/FI/VR |
| Smartflex | 63 mm       | electrofusion equal tee (green) | STELV63      | PP/VA/VE/FI/VR |
| Smartflex | 110 mm      | electrofusion equal tee (green) | STELV110     | PP/VA/VE/FI/VR |
| Smartflex | 63/50 mm    | reducer                         | SR6350       | PP/VA/VE/FI/VR |
| Smartflex | 90/50 mm    | reducer                         | SR9050       | PP/VA/VE/FI/VR |
| Smartflex | 90/63 mm    | reducer                         | SR9063       | PP/VA/VE/FI/VR |
| Smartflex | 110/63 mm   | reducer                         | SR11063      | PP/VA/VE/FI/VR |
| Smartflex | 110/90 mm   | reducer                         | SR11090      | PP/VA/VE/FI/VR |
| Smartflex | 50 mm x 1½" | spigot male adaptor             | SALM50112    | PP/VA/VE/FI/VR |
| Smartflex | 63 mm x 2"  | spigot male adaptor             | SALM632      | PP/VA/VE/FI/VR |
| Smartflex | 50 mm x 1½" | union                           | SRCPG50112   | PP/VA/VE/FI/VR |
| Smartflex | 63 mm x 2"  | union                           | SRCPG632     | PP/VA/VE/FI/VR |
| Smartflex | 90 mm x 3"  | union                           | SRCPG903     | PP/VA/VE/FI/VR |
| Smartflex | 50 mm       | steel flange (UNI-DIN flange)   | SFLAK50      | PP/VA/VE/FI/VR |
| Smartflex | 63 mm       | steel flange (UNI-DIN flange)   | SFLAK63      | PP/VA/VE/FI/VR |
| Smartflex | 90 mm       | steel flange (UNI-DIN flange)   | SFLAK90      | PP/VA/VE/FI/VR |
| Smartflex | 110 mm      | steel flange (UNI-DIN flange)   | SFLAK110     | PP/VA/VE/FI/VR |
| Smartflex | 50 mm       | steel flange (ANSI 150 flange)  | SFLAKA50     | PP/VA/VE/FI/VR |
| Smartflex | 63 mm       | steel flange (ANSI 150 flange)  | SFLAKA63     | PP/VA/VE/FI/VR |
| Smartflex | 90 mm       | steel flange (ANSI 150 flange)  | SFLAKA90     | PP/VA/VE/FI/VR |

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|-----------|-------------|--|----------------|--------------------|
| Smartflex | 110 mm      | steel flange (ANSI 150 flange)                       | SFLAKA110      | PP/VA/VE/FI/VR     |
| Smartflex | 50 mm       | end cap  | STPCL50        | PP/VA/VE/FI/VR     |
| Smartflex | 63 mm       | end cap  | STPCL63        | PP/VA/VE/FI/VR     |
| Smartflex | 75 mm       | end cap  | STPCL75        | PP/VA/VE/FI/VR     |
| Smartflex | 90 mm       | end cap  | STPCL90        | PP/VA/VE/FI/VR     |
| Smartflex | 110 mm      | end cap  | STPCL110       | PP/VA/VE/FI/VR     |
| Smartflex | 125 mm      | end cap  | STPCL125       | PP/VA/VE/FI/VR     |
| Smartflex | 50 mm x 1½" | adapter male   | SAM50112       | PP/VA/VE/FI/VR     |
| Smartflex | 63 mm x 2"  | adapter male   | SAM632         | PP/VA/VE/FI/VR     |
| Smartflex | 90 mm x 3"  | adapter male   | SAM903         | PP/VA/VE/FI/VR     |
| Smartflex | 110 mm X 4" | adapter male   | SAM1104        | PP/VA/VE/FI/VR     |
| Smartflex | 50 mm x 1½" | adapter female                                       | SAF50112       | PP/VA/VE/FI/VR     |
| Smartflex | 63 mm x 2"  | adapter female                                       | SAF632         | PP/VA/VE/FI/VR     |
| Smartflex | 90 mm x 3"  | adapter female                                       | SAF903         | PP/VA/VE/FI/VR     |
| Smartflex | 110 mm X 4" | adapter female                                       | SAF1104        | PP/VA/VE/FI/VR     |
| Smartflex | 50 mm       | Smartcontainment Double wall pipe                    | TSMAMD50       | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 63 mm       | Smartcontainment Double wall pipe                    | TSMAMD63       | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 90 mm       | Smartcontainment Double wall pipe                    | TSMAMD90       | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 110mm       | Smartcontainment Double wall pipe                    | TSMAMD110      | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 160mm       | Smartcontainment Double wall pipe                    | TSMAMD160      | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 50 mm       | pipes with 'Y' barrier layer                         | T SMAU50       | VE/VR/FI           |
| Smartflex | 63 mm       | pipes with 'Y' barrier layer                         | T SMAU63       | VE/VR/FI           |
| Smartflex | 90 mm       | pipes with 'Y' barrier layer                         | T SMAU90       | VE/VR/FI           |
| Smartflex | 110 mm      | pipes with 'Y' barrier layer                         | T SMAU110      | VE/VR/FI           |
| Smartflex | 63 mm       | Secondary containment pipe                           | T SMAUS63      | CS2                |
| Smartflex | 75 mm       | Secondary containment pipe                           | T SMAUS75      | CS2                |
| Smartflex | 125 mm      | Secondary containment pipe                           | T SMAUS125     | CS2                |
| Smartflex | 63 mm       | Secondary containment pipe                           | T SMAHS63      | CS2                |
| Smartflex | 75 mm       | Secondary containment pipe                           | T SMAHS75      | CS2                |
| Smartflex | 125 mm      | Secondary containment pipe                           | T SMAHS125     | CS2                |
| Smartflex | 225 mm      | Secondary containment pipe                           | T SMAHS225     | CS2                |
| Smartflex | 50mm        | Double wall pipe with Y barrier layer                | T SMAUD50      | VE/VR/FI/CS2       |
| Smartflex | 63mm        | Double wall pipe with Y barrier layer                | T SMAUD63      | VE/VR/FI/CS2       |
| Smartflex | 90mm        | Double wall pipe with Y barrier layer                | T SMAUD90      | VE/VR/FI/CS2       |
| Smartflex | 110mm       | Double wall pipe with Y barrier layer                | T SMAUD110     | VE/VR/FI/CS2       |
| Smartflex | 50mm        | Double wall pipe with H barrier layer                | T SMAHD50 (H)  | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 63mm        | Double wall pipe with H barrier layer                | T SMAHD63 (H)  | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 90mm        | Double wall pipe with H barrier layer                | T SMAHD90 (H)  | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 110mm       | Double wall pipe with H barrier layer                | T SMAHD110 (H) | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 160mm       | Double wall pipe with H barrier layer                | T SMAHD160 (H) | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 50mm        | Double wall pipe with Z barrier layer                | T SMAHD50 (Z)  | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 63mm        | Double wall pipe with Z barrier layer                | T SMAHD63 (Z)  | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 90mm        | Double wall pipe with Z barrier layer                | T SMAHD90 (Z)  | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 110mm       | Double wall pipe with Z barrier layer                | T SMAHD110 (Z) | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 160mm       | Double wall pipe with Z barrier layer                | T SMAHD160 (Z) | PP/VA/VE/FI/VR/CS2 |
| Smartflex | 50mm        | Electrofusion coaxial straight connector             | SMEDW50        | PP/VA/VE/VR/FI/CP2 |
| Smartflex | 50mm        | Electrofusion double wall 90° Tee                    | STEDW50        | PP/VA/VE/VR/FI/CP2 |
| Smartflex | 50mm        | Electrofusion coaxial 90° elbow                      | SGEDW50        | PP/VA/VE/VR/FI/CP2 |
| Smartflex | 63mm        | Electrofusion coaxial straight connector             | SMEDW63        | PP/VA/VE/VR/FI/CP2 |
| Smartflex | 63mm        | Electrofusion double wall 90° Tee                    | STEDW63        | PP/VA/VE/VR/FI/CP2 |
| Smartflex | 63mm        | Electrofusion coaxial 90° elbow                      | SGEDW63        | PP/VA/VE/VR/FI/CP2 |
| Smartflex | 90mm        | Electrofusion double wall coaxial straight connector | SMEDW90        | PP/VA/VE/VR/FI/CP2 |
| Smartflex | 90mm        | Electrofusion double wall 90° Tee                    | STEDW90        | PP/VA/VE/VR/FI/CP2 |
| Smartflex | 90mm        | Electrofusion double wall 90° coaxial elbow          | SGEDW90        | PP/VA/VE/VR/FI/CP2 |
| Smartflex | 63mm        | Electrofusion double wall termination                | SETFV63        | PP/VA/VE/VR/FI/CS2 |
| Smartflex | 110mm       | Electrofusion double wall straight connector         | SMEDWR110125   | PP/VA/VE/VR/FI/CS2 |

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| Smartflex | 110mm      | Electrofusion double wall 90° Tee                                      | STEDWR110125   | PP/VA/VE/VR/FI/CS2 |
| Smartflex | 110mm      | Electrofusion double wall 90° elbow                                    | SGEDWR110125   | PP/VA/VE/VR/FI/CS2 |
| Smartflex | 110mm      | Electrofusion double wall 45° elbow                                    | SCEDWR110125   | PP/VA/VE/VR/FI/CS2 |
| Smartflex | 110mm      | Electrofusion double wall terminating fitting                          | SETFV110125    | PP/VA/VE/VR/FI/CS2 |
| Smartflex | 160mm      | Electrofusion double wall straight connector                           | SMEDWR160225   | PP/VA/VE/VR/FI/CS2 |
| Smartflex | 160mm      | Electrofusion double wall terminating fitting with test port           | SETFVR160225TP | PP/VA/VE/VR/FI/CS2 |
| Smartflex | 50mm x 1½" | Double Wall Riser  | SADWM50112     | PP/VA/VE/VR/FI/CS2 |
| Smartflex | 63mm x 2   | Double Wall Riser  | SADWM632       | PP/VA/VE/VR/FI/CS2 |
| Smartflex | 50mm x 1½" | Electrofusion double wall female terminating fitting                   | SAWFD50112     | PP/VA/VE/VR/FI/CS2 |
| Smartflex | 63mm x 2   | Electrofusion double wall female terminating fitting                   | SAWFD632       | PP/VA/VE/VR/FI/CS2 |
| Smartflex | 110mm      | Electrofusion double wall female terminating fitting                   | SAWFD1104      | PP/VA/VE/VR/FI/CS2 |
| Smartflex | 50mm       | Electrofusion double wall terminating fitting                          | SETF50         | PP/VA/FI/VE/VR/CS2 |
| Smartflex | 63mm       | Electrofusion double wall terminating fitting                          | SETF63         | PP/VA/FI/VE/VR/CS2 |
| Smartflex | 90mm       | Electrofusion double wall terminating fitting                          | SETF90         | PP/VA/FI/VE/VR/CS2 |
| Smartflex | 50mm       | Electrofusion double wall terminating fitting (compact)                | SETFC50        | PP/VA/FI/VE/VR/CS2 |
| Smartflex | 63mm       | Electrofusion double wall terminating fitting (compact)                | SETFC63        | PP/VA/FI/VE/VR/CS2 |
| Smartflex | 110mm      | Electrofusion double wall terminating fitting (compact)                | SETFC110       | PP/VA/FI/VE/VR/CS2 |
| Smartflex | 50mm       | Electrofusion double wall terminating fitting (compact) with test port | SETFCV50       | PP/VA/FI/VE/VR/CS2 |
| Smartflex | 63mm       | Electrofusion double wall terminating fitting (compact) with test port | SETFCV63       | PP/VA/FI/VE/VR/CS2 |
| Smartflex | 110mm      | Electrofusion double wall terminating fitting (compact) with test port | SETFCV110      | PP/VA/FI/VE/VR/CS2 |
| Smartflex | 50mm       | Electrofusion double wall terminating fitting with test port           | SETFV50        | PP/VA/VE/VR/FI/CS2 |
| Smartflex | 90mm       | Electrofusion double wall terminating fitting with test port           | SETFV90        | PP/VA/VE/VR/FI/CS2 |
| Ecosmart  | 50 mm      | electrofusion coupler  | SMEL50         | PP/VA/VE/FI/VR     |
| Ecosmart  | 63 mm      | electrofusion coupler  | SMEL63         | PP/VA/VE/FI/VR     |
| Ecosmart  | 90 mm      | electrofusion coupler  | SMEL90         | PP/VA/VE/FI/VR     |
| Ecosmart  | 110 mm     | electrofusion coupler  | SMEL110        | PP/VA/VE/FI/VR     |
| Ecosmart  | 50 mm      | 45° electrofusion elbow  | SCEL50         | PP/VA/VE/FI/VR     |
| Ecosmart  | 63 mm      | 45° electrofusion elbow  | SCEL63         | PP/VA/VE/FI/VR     |
| Ecosmart  | 90 mm      | 45° electrofusion elbow  | SCEL90         | PP/VA/VE/FI/VR     |
| Ecosmart  | 110 mm     | 45° electrofusion elbow  | SCEL110        | PP/VA/VE/FI/VR     |
| Ecosmart  | 50 mm      | 90°electrofusion elbow   | SGEL50         | PP/VA/VE/FI/VR     |
| Ecosmart  | 63 mm      | 90°electrofusion elbow   | SGEL63         | PP/VA/VE/FI/VR     |
| Ecosmart  | 90 mm      | 90°electrofusion elbow   | SGEL90         | PP/VA/VE/FI/VR     |
| Ecosmart  | 110 mm     | 90°electrofusion elbow   | SGEL110        | PP/VA/VE/FI/VR     |
| Ecosmart  | 50 mm      | electrofusion equal tee  | STEL50         | PP/VA/VE/FI/VR     |
| Ecosmart  | 63 mm      | electrofusion equal tee  | STEL63         | PP/VA/VE/FI/VR     |
| Ecosmart  | 90 mm      | electrofusion equal tee  | STEL90         | PP/VA/VE/FI/VR     |
| Ecosmart  | 110 mm     | electrofusion equal tee  | STEL110        | PP/VA/VE/FI/VR     |