


Certificates of Compliance for Underground Petrol Pipework

Last Updated: 19/09/2023

RINA has issued Certificates of Compliance for products against the following industry specifications:

 IP1	IP1 Institute of Petroleum Performance Specification for Underground Pipework Systems at Petrol Filling Stations, November 1995, ISBN 0 85293 164 6.
 SHELL	SHELL Shell Retail International - Pipework performance specification and supplier evaluation - Retail Engineering Document OBM/12, Version 1.0, January 1996, or Version 2, March 1998.
 IP2	IP2 Institute of Petroleum Performance Specification for Underground Pipework Systems at Petrol Filling Stations, Second Edition, February 2001, ISBN 0 85293 323 1.
 EN	EN EN 14125:2004 Thermoplastic and flexible metal pipework for underground installation EN at petrol filling stations.
 EN	EN EN 14125:2013 Thermoplastic and flexible metal pipework for underground installation at EN petrol filling stations.
 ML	ML Manufacturing Licence issued in accordance with Annex A of IP2 (Fuelstar Surveillance Scheme).

Certificates of Compliance

- Certificates of Compliance are listed unless they or the products to which they refer have been withdrawn or superseded.
- Manufacturing Licences are listed during the period of their validity only.
- The detailed schedule of parts covered by a certificate is listed in the associated RINA Certificate of Compliance.
- Compliance with the Shell performance specification does not imply any form of approval by Shell Retail International. The Shell performance specification applies to flexible and semi-flexible plastic pipework only.
- Requests for copies of certificates should in the first instance be addressed to the company listed.



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MANUFACTURING LICENCE (FUELSTAR)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	ML CERTIFICATE NUMBER/S & VALIDITY
OPW Sweden AB	KPS petrol pipe system	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	2016-0275-ML26 Valid to 31st August 2024
NUPI Industrie Italiane S.p.A	Smartflex pipe product range	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	2017-0059-ML09 Valid to 30th June 2024
Franklin Fueling Systems Ltd.	UPP range of pipes and connectors	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	2016-0417-ML24 Valid to 3rd December 2023
OPW Fueling Components (Suzhou) Co. Ltd.	KPS petrol pipe system	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	2019-0174-ML08 Rev. 1 Valid to 30th June 2024



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APPROVALS TO EN14125:2013 (EN)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NUMBER/S
OPW Sweden AB	KPS petrol pipe system	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	2016-0381-007 2019-0536-002
NUPI S.p.A.	Smartflex product range	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	2015-0905-017
Franklin Fueling Systems	UPP range of pipes and connectors	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	2016-0454-016 2018-0413-001 2018-0414-003
Durapipe UK	PLX (Petrol-Line Xtra) range of pipes	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	01-DURA2014-005
OPW Fueling Containment Systems (US)	Double wall pipework	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	02-OPW2014-003
Grupo Zeppini (Brazil)	Fuel Flex pipe and fittings	Positive pressure delivery Vacuum suction delivery Fill pipes Vapour recovery	2019-0690-002



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APPROVALS TO EN14125:2013 (EN)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NUMBER/S
Marco Tech Sarl	HALOCK and TWIN pipes HALOCK fittings ISIFLO CR fittings	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	2017-0204-005
KiTEC Industries (India) Private Limited	PE-Al-PE Composite Pipes, with brass compression fittings	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery	2018-0594-001
Al-Aziz Plastics Pvt. Ltd	Fitlyt electrofusion fittings	Positive pressure delivery Vacuum suction delivery Fill pipes Vapour recovery	2022-0347 rev 1



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APPROVALS TO EN14125:2004 (EN)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NUMBER/S
OPW Sweden AB	KPS petrol pipe system	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	BC66/2005-0584/006 2011-EN14125-China rev 1
NUPI S.p.A.	Smartflex product range	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	BC66/2006-0091/007 BC66/2009-0296/005
Franklin Fueling Systems	UPP range of pipes and connectors	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	EN001 Issue 7 BC66/2011-0436/001 BC66/2011-0599/007 BC66/2009-0118/002
Marco Tech Sarl	HALOCK and TWIN pipes ELGEF PLUS fittings	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment	BC66/2009-0491/008
Durapipe UK	PLX (Petrol-Line Xtra) range of pipes	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment 2	BC66/2010-0220/006
TCI Environment International NV, Belgium	Enviroflex® 1½" PP1503 pipe with swaged-on metal end couplings	Positive pressure delivery	BC66/2010-0472/001



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APPROVALS TO EN14125:2004 (EN)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NUMBER/S
Dover CR, OPW Fueling Components	FusionWorks	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment 2	BC66/2011/3701/002
Flexrite Snd Bdh	FDP Coaxial pipework	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment 2	01/FLEX2012/002



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APPROVALS TO INSTITUTE OF PETROLEUM PERFORMANCE SPECIFICATION (IP2, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
Brugg Rohrsysteme GmbH, Germany	Secon-X DN40, DN50 and DN100 pipework	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery Secondary containment 1	BC62/2001-0051/001 BC62/0504/2002/001	IP2
Durapipe UK	Petrol-line Xtra range of pipes and connections (40mm pipework approved for Secondary Containment Type 2 only)	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery Secondary containment 2	BC62/2001-0494/003	IP2
Durapipe UK	Petrol-line Vent Xtra range of pipes	Fill pipes Vent lines Vapour recovery	BC62/2001-0494/003	IP2
Durapipe UK	90 and 110 mm connectors	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery Secondary containment 2	BC62/2003-0567/001	IP2
TCI Environment International NV, Belgium	110 and 160 mm connectors	Secondary containment 2	BC66/2004-0228/001	IP2
George Fischer Castings Ltd, UK	Primofit range of connectors	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery	BC62/0463/2002/001	IP2

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APPROVALS TO INSTITUTE OF PETROLEUM PERFORMANCE SPECIFICATION (IP2, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
Kungsörs Plast AB, Sweden	KPS petrol pipe system	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery Secondary containment 2	BC66/2004-0272/002	IP2
NUPI S.p.A, Italy	Smartflex, Smart X2 & Smartcontainment ranges of pipes and connectors	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery Secondary containment 2	BC62/2001-0051/001 BC62/0504/2002/001	IP2
NUPI S.p.A, Italy	Smartflex Y and Ecosmart range of pipes and connectors	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery	BC62/0469/2002/003	IP2
NUPI S.p.A, Italy	Smartflex 90/125 coaxial pipe and associated connectors	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery Secondary containment 2	BC66/2005-0090/001	IP2
Franklin Fueling Systems	UPP range of pipes and connectors	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery	BC66/2003-0436/003	IP2
Franklin Fueling Systems	UPP range of secondary pipes and connectors	Secondary containment 2	BC66/2003-0436/003	IP2



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APPROVALS TO INSTITUTE OF PETROLEUM PERFORMANCE SPECIFICATION (IP2, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
Franklin Fueling Systems	UPP 110 mm fill pipes	Fill pipes	BC66/2003-0436/003	IP2
Franklin Fueling Systems	Pipe bends 03.110.LS-1, 03.90.LS-1, 04.110.LS-1, 04.90.LS-1	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery	BC66/2004-0069/001	IP2
Franklin Fueling Systems	03.50EIF 50 mm 90° elbow and 08.50EIF 50 mm tee	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery	BC66/2004-0158/001	IP2
Franklin Fueling Systems	81.110 110 mm transition connector	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery	BC66/2004-0365/001	IP2
Franklin Fueling Systems	32 mm primary and 40 mm secondary range of pipes and connectors	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery Secondary containment 2	BC66/2004-0380/001 BC66/2005-0768/001 BC66/2005-0768/002	IP2
Franklin Fueling Systems	80 series connectors	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery	BC66/2005-0699/001 BC66/2005-0699/002	IP2 Shell



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APPROVALS TO INSTITUTE OF PETROLEUM PERFORMANCE SPECIFICATION (IP2, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
Franklin Fueling Systems	49 series secondary terminations	Secondary containment 2	BC66/2003-0436/003	IP2 Shell
Franklin Fueling Systems	Sliding reducers	Secondary containment 2	BC66/2003-0436/003	IP2 Shell
Franklin Fueling Systems	Flanged penetration fittings	Secondary containment 2	BC66/2003-0436/003	IP2 Shell
Franklin Fueling Systems	80.090QL fusion termination QL connector	Positive pressure delivery Vacuum suction delivery	BC66/2006-0508/001 BC66/2006-0508/002	IP2 Shell
SR(1) Participações Indústria e Comércio de Equipamentos S/A	Ecoflex Petrolina pipework system	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes	BC66/2004-0301/002 BC66/2004-0301/003	IP2



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APPROVALS TO EARLIER SPECIFICATIONS (IP1, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
Ameron International, USA	Dualoy 3000/L product range comprising 2", 3" and 4" primary pipe sizes and 3", 3½, 4" and 6" secondary pipe sizes	Positive pressure delivery Vacuum suction delivery	BC63/0429/99/001	IP1
Ameron International, USA	Dualoy 3000/LCX product range, coaxial piping comprising 2", 3" and 4" primary containment pipe sizes	Positive pressure delivery Vacuum suction delivery	BC63/0428/99/002	IP1
Advanced Polymer Technology Inc, USA	Flexible Poly-Tech direct bury pipes P-150-D, P-175-D, and P-200-D with designated mechanical fittings	Positive pressure delivery Vacuum suction delivery	BC63/0934/97/001 BC63/0934/97/002	IP1 Shell
Advanced Polymer Technology Inc, USA	Flexible Poly-Tech secondary contained pipes P-175-SC with designated mechanical fittings	Positive pressure delivery Vacuum suction delivery	BC63/0934/97/003 BC63/0934/97/004	IP1 Shell
Advanced Polymer Technology Inc, USA	Flexible Poly-Tech 2" vent pipe V-200-D with designated clamped metal mechanical fittings	Vent lines Vapour recovery	BC63/0995/97/001 BC63/0995/97/002	IP1 Shell
Advanced Polymer Technology Inc, USA	Flexible Poly-Tech 4" R-400-DN and R-400-SCN fill pipes with designated clamped metal mechanical fittings	Fill pipes	BC63/1109/97/001 BC63/1109/97/002	IP1 Shell



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APPROVALS TO EARLIER SPECIFICATIONS (IP1, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
Brugg Rohrsysteme GmbH, Germany	Flexible Coaxial Terrax metallic piping (sizes 1½" and 2", type designation TRX 40 and TRX 50 respectively) with a corrugated stainless-steel primary pipe and an integrated polyethylene secondary containment jacket. Piping system uses proprietary type mechanical connectors.	Positive pressure delivery Vacuum suction delivery	BC63/0168/98/001A	IP1
Brugg Rohrsysteme GmbH, Germany	Flexible Single Petrex metallic piping (sizes 1½" to 4"), type designation FSL 48/60 to FSL98/120) with a corrugated primary pipe made of copper and an integrated polyethylene jacket. Piping system uses proprietary type mechanical connectors	Vacuum suction delivery Fill pipes Vent lines Vapour recovery	BC63/0168/98/001A	IP1
Durapipe UK (previously Glynwed Pipe Systems, Durapipe – S&LP), UK	Petrol-Line Plus polyethylene pipe incorporating an aluminium barrier, with Petrol-Line electrofusion connections, with diameters of between 32 mm and 110 mm. Wask-RMF metal connections are used for 32 mm diameter pipes	Positive pressure delivery Vacuum suction delivery	BC62/1999-0374/003 BC62/1999-0374/004	IP1 Shell
Durapipe UK (previously Glynwed Pipe Systems, Durapipe – S&LP), UK	Petrol-Line Vent Plus green polyethylene pipe incorporating an aluminium barrier, for use with Petrol-Line electrofusion connections and Wask-RMF transition fittings, with diameters 63, 90 and 110mm	Fill pipes Vent lines Vapour recovery	BC62/1999-0464/007 BC62/1999-0464/008 BC62/1999-0464/009 BC62/1999-0464/010 BC62/1999-0464/011 BC62/1999-0464/012	IP1 Shell
Durapipe UK (previously Glynwed Pipe Systems, Durapipe – S&LP), UK	Petrol-line Vent Xtra lined polyethylene pipe, for use with Petrol-Line electrofusion connections, for pipes of 50, 63, 90 and 110 mm diameter	Fill pipes Vent lines Vapour recovery	BC62/1999-0887/003 BC62/1999-0887/004	IP1 Shell



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APPROVALS TO EARLIER SPECIFICATIONS (IP1, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
Durapipe UK (previously Glynwed Pipe Systems, Durapipe – S&LP), UK	Petrol-line Xtra lined polyethylene pipe, for use with Petrol-Line electrofusion connections and Pecat transition fittings, for pipes of 50, 63, 90 and 110 mm diameter	Positive pressure delivery Vacuum suction delivery Secondary containment	BC62/1999-0934/005 BC62/1999-0934/006	IP1 Shell
Durapipe UK (previously Glynwed Pipe Systems, Durapipe – S&LP), UK	Petrol-line Xtra range of pipes and connections (40mm pipework approved for Secondary Containment Type 2 only)	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery Secondary containment 2	BC62/2001-0494/004	Shell
Durapipe UK (previously Glynwed Pipe Systems, Durapipe – S&LP), UK	Petrol-line Vent Xtra range of pipes	Fill pipes Vent lines Vapour recovery	BC62/2001-0494/004	Shell
Durapipe UK (previously Glynwed Pipe Systems, Durapipe – S&LP), UK	Long spigot and electrofusion transition fittings	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery Secondary containment 2	BC62/2003-0169/001 BC62/2003-0169/002	Shell
Durapipe UK (previously Glynwed Pipe Systems, Durapipe – S&LP), UK	90 and 110 mm connectors	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery Secondary containment 2	BC62/2003-0567/002	Shell
Durapipe UK (previously Glynwed Pipe Systems, Durapipe – S&LP), UK	110 and 160 mm connectors	Secondary containment 2	BC66/2004-0228/002	Shell



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APPROVALS TO EARLIER SPECIFICATIONS (IP1, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
Environ Europe Ltd, UK	2" GeoVent-S single wall flexible pipe with swaged-on metal end couplings	Vent lines Vapour recovery	BC63/0413/97/001 BC63/0413/97/002	IP1 Shell
Environ Europe Ltd, UK	1½", 2" and 3" Geoflex II double wall flexible pipe with swaged-on metal end couplings	Positive pressure delivery Vacuum suction delivery	BC63/0433/98/001 BC63/0433/98/002	IP1 Shell
Environ Europe Ltd, UK	1½", 2" and 3" Geoflex I single wall flexible pipe with swaged-on metal end couplings	Positive pressure delivery Vacuum suction delivery	BC63/0433/98/003 BC63/0433/98/004	IP1 Shell
Environ Europe Ltd, UK	1½ Coax connections for use with Geoflex II pipes	Positive pressure delivery Vacuum suction delivery	BC63/0805/98/001 BC63/0805/98/002	IP1 Shell
FGS-Brasil Indústria e Comércio Ltda, Brazil	Ecoflex 63mm Petrolina pipe for use with Ecoflex mechanical transition coupler and designated Elgef Plus electrofusion connections	Positive pressure delivery Vacuum suction delivery Vent lines	BC63/1011/98/001 BC63/1011/98/003	IP1 Shell
FGS-Brasil Indústria e Comércio Ltda, Brazil	Ecoflex 110mm Petrolina fill pipe for use with Ecoflex mechanical connection and with Elgef Plus and Frialen electrofusion connections	Fill pipes	BC63/0138/2000/001 BC63/0138/2000/002	IP1 Shell



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APPROVALS TO EARLIER SPECIFICATIONS (IP1, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
Hallingplast A/S, Norway	Halock™ product range with Frialen monofilament electrofusion connections, for pipes up to and including 110 mm diameter	Positive pressure delivery Vacuum suction delivery	BC63/1110/96/001 BC63/1110/96/002	IP1 Shell
Hallingplast A/S, Norway and Georg Fischer RLS AG, Switzerland	Halock™ product range, with Elgef® electrofusion connections, for pipes up to and including 110 mm diameter	Positive pressure delivery Vacuum suction delivery	BC63/1066/97/001 BC63/1066/97/002	IP1 Shell
Friatec Plasmec (Pty) Ltd, South Africa	Petroplas SF2P™ 50 mm, 63 mm and 110 mm dia pipe for use with designated Frialen electrofusion welding connections	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery Secondary containment	BC63/1010/98/001 BC63/1010/98/002	IP1 Shell
Friatec Plasmec (Pty) Ltd, South Africa	Petroplas SF2P™ Generation 2 63 mm diameter pipe for use with designated Frialen electrofusion welding connections	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery Secondary containment	BC63/0115/2000/00 1 BC63/0115/2000/002	IP1 Shell
Kungsörs Plast AB, Sweden	Conductive secondary 75mm KP 75SC and unlined secondary pipes 125mm KP 125SC & 160 mm KP 160SC product ranges, with electrofusion connections and fittings	Secondary containment	BC63/1126/97/001 BC63/1126/97/002	IP1 Shell
Kungsörs Plast AB, Sweden	Lined KPS-Extra product range, with electrofusion and mechanical connections, for pipes up to and including 110mm diameter	Positive pressure delivery Vacuum suction delivery	BC63/0436/97/001 BC63/0436/97/002 Addendum to BC63/0436/97/001 dated 17 September 1997	IP1 Shell



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APPROVALS TO EARLIER SPECIFICATIONS (IP1, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
Kungsörs Plast AB, Sweden	Lined KPS-Extra product range, with electrofusion and mechanical connections, for pipes up to and including 110mm diameter	Positive pressure delivery Vacuum suction delivery	BC63/0436/97/001 BC63/0436/97/002 Addendum to BC63/0436/97/001 dated 17 September 1997	IP1 Shell
Kungsörs Plast AB, Sweden	Conductive Lined KPS-TIGER product range, with electrofusion and mechanical connections, for pipes up to and including 110 mm diameter	Positive pressure delivery Vacuum suction delivery	BC63/0436/98/003 BC63/0436/98/004 Addendum to BC63/0436/97/003 and /004 dated 13 May 1998	IP1 Shell
Kungsörs Plast AB, Sweden	KPS Extra Version 5 product range, for use with KPS Extra electrofusion connections for pipes of 54, 63, 90 and 110 diameter	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery	BC63/0924/99/001 BC63/0924/99/002	IP1 Shell
Kungsörs Plast AB, Sweden	KPS Extra Version 5 pipes of 75 and 125 mm diameter, with electrofusion welding sockets, tee (75mm only), transition fitting, 90° formed bends and 45° formed bends	Secondary containment	BC63/0043/00/003 BC63/0043/00/004	IP1 Shell
Kungsörs Plast AB, Sweden	KPS Extra (Malaysia) pipes of 54, 63, 90 and 110 diameter, for use with KPS Extra electrofusion connections	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery	BC62/0171/2001/001 BC62/0171/2001/002	IP1 Shell
Kungsörs Plast AB, Sweden	KPS conductive pipes	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery	BC66/2005-0147/002	IP1 Shell

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APPROVALS TO EARLIER SPECIFICATIONS (IP1, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
NUPI S.p.A, Italy	Smartflex® product range with electrofusion and mechanical connections, Smart X2 electrofusion connections for pipes up to and including 110mm diameter	Positive pressure delivery Vacuum suction delivery	BC63/1111/97/001 BC63/1111/97/001A BC63/1111/97/002A Addendum to BC63/1111/97/001A dated 12 June 1997 BC63/0878/98/001 BC63/0878/98/002	IP1 Shell
NUPI S.p.A, Italy	63mm and 75mm Smartcontainment® pipes, with designated brass mechanical fittings, for use with 50mm and 63mm Smartflex® primary fuel delivery pipes respectively	Secondary containment	BC63/0041/98/001 BC63/0041/98/002	IP1 Shell
NUPI S.p.A, Italy	Smart socket weldable connections designated SM50, SM63, SM90, SM110, SG50, SG63, SG90, ST50, ST63 and ST90	Positive pressure delivery Vacuum suction delivery	BC63/0702/99/001 BC63/0702/99/002	IP1 Shell
NUPI S.p.A, Italy	Smartflex pipes with 'Y' barrier layer, of 50, 63, 90, 110 and 160mm diameter	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery	BC63/0703/99/001 BC63/0703/99/002 BC63/2000-0238/00/001 BC63/2000-0238/00/002	IP1 Shell
NUPI S.p.A, Italy	Smartflex TSMA50, TSMA63, TSMA90 and TSMA110 pipes with 'H' barrier layer	Positive pressure delivery Vacuum suction delivery Vent lines Fill pipes Vapour recovery	BC62/0206/2001/001 BC62/0206/2001/002	IP1 Shell
NUPI S.p.A, Italy	Smartflex TSMAU50, TSMAU63, TSMAU90 and TSMAU110 pipes	Vent lines Vapour recovery Fill pipes	BC62/0206/2001/005 BC62/0206/2001/006	IP1 Shell



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APPROVALS TO EARLIER SPECIFICATIONS (IP1, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
OPW by PISCES, Inc. USA	1½" and 2" Synflex single and double wall flexible pipe with designated swaged-on and mechanical couplings marketed under the product system name of Co-flex	Positive pressure delivery Vacuum suction delivery	BC63/0681/97/001 BC63/0681/97/002 Addendum dated 24 April 2002	IP1 Shell
Franklin Fueling Systems	Unlined UPP product range, with designated electrofusion connections, for polyethylene pipes up to and including 160mm diameter	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery	BC63/0777/97/001A BC63/0777/97/002A Addenda to BC63/0777/97/001A BC63/0777/97/002A dated 4 March 1998, 1 June 1998, 23 March 2000, 22 March 2001 and 25 April 2002. BC62/0207/2001/001 BC62/0207/2001/002	IP1 Shell
Franklin Fueling Systems	Lined UPP Extra product range, with designated electrofusion and mechanical connections, for pipes of 50mm diameter	Positive pressure delivery Vacuum suction delivery Fill pipes Vent lines Vapour recovery	BC63/0856/99/001 BC63/0856/99/002 BC62/0136/2001/001 BC62/0136/2001/002A Addendum to BC63/0856/99/001 and /002 dated 22 March 2001	IP1 Shell
Franklin Fueling Systems	Thin walled SDR 17 gravity/non pressure 110 mm UPP pipe	Fill pipes	BC63/0519/2000/002	Shell
Franklin Fueling Systems	110 mm fill pipe	Fill pipes	BC62/2003-0098/002	Shell
Franklin Fueling Systems	63/75 mm secondary containment with test port	Secondary containment 2	BC62/2003-0154/002	Shell



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APPROVALS TO EARLIER SPECIFICATIONS (IP1, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
Franklin Fueling Systems	03.50EIF 50 mm 90° elbow and 08.50EIF 50 mm tee	Positive pressure deliver Vacuum suction delivery Vent lines Fill pipes Vapour recovery	BC66/2004-0158/002	Shell
Franklin Fueling Systems	81.110 110 mm transition connector	Positive pressure deliver Vacuum suction delivery Vent lines Fill pipes Vapour recovery	BC66/2004-0365/002	Shell
Franklin Fueling Systems	32 mm primary and 40 mm secondary range of pipes and connectors	Vapour recovery	BC66/2004-0380/002	Shell
TCI Environment NV SA, Belgium	Flexible single Enviroflex® 1½" PP1503 and 2½" PP2503 pipes with swaged-on metal end couplings	Positive pressure delivery	BC63/1026/97/001 BC63/1026/97/002	IP1 Shell
TCI Environment NV SA, Belgium	Flexible single Monoflex® 4" RF4000 corrugated lined polyethylene pipe with designated mechanical connections	Remote fill pipes	BC63/0189/98/001 BC63/0189/98/002	IP1 Shell
TCI Environment NV SA, Belgium	Flexible single 4½" SP4500L and 6" SP6000L corrugated polyethylene pipes with designated reducer fittings	Secondary containment	BC63/1190/98/001A BC63/1190/98/002A	IP1 Shell



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APPROVALS TO EARLIER SPECIFICATIONS (IP1, SHELL)

COMPANY	PRODUCT REFERENCE	APPLICATIONS	CERTIFICATE NO.	SPEC.
TCI Environment NV SA, Belgium	60mm Monoflex TM II SP2501 flexible suction pipe with swaged-on FC2521 metal end couplings and bolted VA 2516 and VA 2521 couplings	Vacuum suction delivery	BC63/1109/97/001 BC63/1109/97/002 BC63/0645/99/003 BC63/0645/99/004	IP1 Shell
TCI Environment NV SA, Belgium	60mm Monoflex TM II SP2503 vacuum suction pipe for use with swaged-on FP 2521 couplings	Vacuum suction delivery	BC63/0081/00/001 BC63/0081/00/002	IP1 Shell
TCI Environment NV SA, Belgium	Flexible single Monoflex® 4" RF4003 corrugated lined polyethylene pipe with MC4004 and MC4005 connections	Remote fill pipes	BC63/2000-0544/2000/01 BC63/2000-0544/2000/02	IP1 Shell
Western Fiberglass Inc, USA	1½" and 2" Synflex single and double wall flexible pipe with designated swaged-on and mechanical couplings marketed under the product system name of Co-flex	Positive pressure delivery Vacuum suction delivery	BC63/0681/97/001 BC63/0681/97/002 Addendum dated 24 April 2002	IP1 Shell