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Certificate of Product Approval

Certificate Number: 1433a Issue: 01

Shandong Lede Machinery Co. Ltd.

No. 3998 West Waihuan N. Road
Weicheng District
Weifang City
Shandong Province
261057
China

is certified by BRE Global Ltd. and is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirement(s) of the standards as detailed below:

Products

`LEDE` and `PREM` Pipe couplings and fittings
(refer to attached appendix for details)

Standards

LPS 1219: Issue 3.1
Requirements and Testing Procedures for the LPCB Approval and Listing of Pipe Couplings

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A. Roberts	Alex Roberts	1 November 2019	1 November 2019

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Appendix to Certificate No: 1433a

Issue: 01

Shandong Lede Machinery Co. Ltd.

`LEDE` and `PREM` Pipe Couplings to LPS 1219: Issue 3.1

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe End Connections	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Rigid Coupling 1512	25	33.7	Cut & Rolled	EPDM	20	1433a/01
Rigid Coupling 1512	32	42.4	Cut & Rolled	EPDM	20	1433a/01
Rigid Coupling 1512	40	48.3	Cut & Rolled	EPDM	20	1433a/01
Rigid Coupling 1512	50	60.3	Cut & Rolled	EPDM	20	1433a/01
Rigid Coupling 1512	65	76.1	Cut & Rolled	EPDM	20	1433a/01
Rigid Coupling 1512	80	88.9	Cut & Rolled	EPDM	20	1433a/01
Rigid Coupling 1512	100	114.3	Cut & Rolled	EPDM	20	1433a/01
Rigid Coupling 1512	125	139.7	Cut & Rolled	EPDM	20	1433a/01
Rigid Coupling 1512	150	165.1	Cut & Rolled	EPDM	20	1433a/01
Rigid Coupling 1512	150	168.3	Cut & Rolled	EPDM	20	1433a/01
Rigid Coupling 1512	200	219.1	Cut & Rolled	EPDM	20	1433a/01
Flexible Coupling 1212	25	33.7	Cut & Rolled	EPDM	20	1433a/02
Flexible Coupling 1212	32	42.4	Cut & Rolled	EPDM	20	1433a/02
Flexible Coupling 1212	40	48.3	Cut & Rolled	EPDM	20	1433a/02

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Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe End Connections	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Flexible Coupling 1212	50	60.3	Cut & Rolled	EPDM	20	1433a/02
Flexible Coupling 1212	65	76.1	Cut & Rolled	EPDM	20	1433a/02
Flexible Coupling 1212	80	88.9	Cut & Rolled	EPDM	20	1433a/02
Flexible Coupling 1212	100	114.3	Cut & Rolled	EPDM	20	1433a/02
Flexible Coupling 1212	125	139.7	Cut & Rolled	EPDM	20	1433a/02
Flexible Coupling 1212	150	165.1	Cut & Rolled	EPDM	20	1433a/02
Flexible Coupling 1212	150	168.3	Cut & Rolled	EPDM	20	1433a/02
Flexible Coupling 1212	200	219.1	Cut & Rolled	EPDM	20	1433a/02
Grooved Mechanical Tee 4102	50 x 32	60.3 x 42.4	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	50 x 40	60.3 x 48.3	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	65 x 32	76.1 x 42.4	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	65 x 40	76.1 x 48.3	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	80 x 32	88.9 x 42.4	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	80 x 40	88.9 x 48.3	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	80 x 50	88.9 x 60.3	Cut & Rolled	EPDM	16	1433a/03

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Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe End Connections	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Grooved Mechanical Tee 4102	100 x 32	114.3 x 42.4	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	100 x 40	114.3 x 48.3	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	100 x 50	114.3 x 60.3	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	100 x 65	114.3 x 76.1	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	100 x 80	114.3 x 88.9	Cut & Rolled	EPDM	16	1433a/03
Grooved Mechanical Tee 4102	125 x 32	139.7 x 42.4	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	125 x 40	139.7 x 48.3	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	125 x 50	139.7 x 60.3	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	125 x 60	139.7 x 76.1	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	125 x 80	139.7 x 88.9	Cut & Rolled	EPDM	16	1433a/03
Grooved Mechanical Tee 4102	150 x 50	165.1 x 60.3	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	150 x 65	165.1 x 76.1	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	150 x 80	165.1 x 88.9	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	150 x 32	168.3 x 42.4	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	150 x 40	168.3 x 48.3	Cut & Rolled	EPDM	20	1433a/03

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Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe End Connections	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Grooved Mechanical Tee 4102	150 x 50	168.3 x 60.3	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	150 x 65	168.3 x 76.1	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	150 x 80	168.3 x 88.9	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	200 x 50	219.1 x 60.3	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	200 x 65	219.1 x 76.1	Cut & Rolled	EPDM	20	1433a/03
Grooved Mechanical Tee 4102	200 x 80	219.1 x 88.9	Cut & Rolled	EPDM	16	1433a/03
Threaded Mechanical Tee 4202	50 x 25	60.3 x 33.7	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	50 x 32	60.3 x 42.4	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	50 x 40	60.3 x 48.3	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	65 x 25	76.1 x 33.7	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	65 x 32	76.1 x 42.4	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	65 x 40	76.1 x 48.3	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	80 x 25	88.9 x 33.7	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	80 x 32	88.9 x 42.4	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	80 x 40	88.9 x 48.3	Cut & Rolled	EPDM	20	1433a/04

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Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe End Connections	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Threaded Mechanical Tee 4202	80 x 50	88.9 x 60.3	Cut & Rolled	EPDM	16	1433a/04
Threaded Mechanical Tee 4202	100 x 25	114.3 x 33.7	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	100 x 32	114.3 x 42.4	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	100 x 40	114.3 x 48.3	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	100 x 50	114.3 x 60.3	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	100 x 65	114.3 x 76.1	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	125 x 25	139.7 x 33.7	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	125 x 32	139.7 x 42.4	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	125 x 40	139.7 x 48.3	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	125 x 50	139.7 x 60.3	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	150 x 25	165.1 x 33.7	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	150 x 32	165.1 x 42.4	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	150 x 40	165.1 x 48.3	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	150 x 50	165.1 x 60.3	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	150 x 65	165.1 x 76.1	Cut & Rolled	EPDM	20	1433a/04

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Issue: 01

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe End Connections	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Threaded Mechanical Tee 4202	150 x 80	165.1 x 88.9	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	150 x 32	168.3 x 42.4	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	150 x 40	168.3 x 48.3	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	150 x 50	168.3 x 60.3	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	150 x 65	168.3 x 76.1	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	150 x 80	168.3 x 88.9	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	200 x 25	219.1 x 33.7	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	200 x 32	219.1 x 42.4	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	200 x 40	219.1 x 48.3	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	200 x 50	219.1 x 60.3	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	200 x 65	219.1 x76.1	Cut & Rolled	EPDM	20	1433a/04
Threaded Mechanical Tee 4202	200 x 80	219.1 x 88.9	Cut & Rolled	EPDM	16	1433a/04
Small Mechanical Tee L922	25 x 15	33.7 x 21.3	Cut & Rolled	EPDM	20	1433a/05
Small Mechanical Tee L922	32 x 15	42.4 x 21.3	Cut & Rolled	EPDM	20	1433a/05
Small Mechanical Tee L922	32 x 20	42.4 x 26.7	Cut & Rolled	EPDM	20	1433a/05

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Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe End Connections	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Small Mechanical Tee L922	32 x 25	42.4 x 33.7	Cut & Rolled	EPDM	20	1433a/05
Small Mechanical Tee L922	40 x 15	48.3 x 21.3	Cut & Rolled	EPDM	20	1433a/05
Small Mechanical Tee L922	40 x 20	48.3 x 26.7	Cut & Rolled	EPDM	20	1433a/05
Small Mechanical Tee L922	40 x 25	48.3 x 33.7	Cut & Rolled	EPDM	20	1433a/05
Small Mechanical Tee L922	50 x 15	60.3 x 21.3	Cut & Rolled	EPDM	20	1433a/05
Small Mechanical Tee L922	50 x 20	60.3 x 26.9	Cut & Rolled	EPDM	20	1433a/05
Small Mechanical Tee L922	50 x 25	60.3 x 33.7	Cut & Rolled	EPDM	20	1433a/05
Small Mechanical Tee L922	60 x 15	76.1 x 21.3	Cut & Rolled	EPDM	20	1433a/05
Small Mechanical Tee L922	60 x 20	76.1 x 26.9	Cut & Rolled	EPDM	20	1433a/05
Small Mechanical Tee L922	65 x 25	76.1 x 33.7	Cut & Rolled	EPDM	20	1433a/05

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`LEDE` and `PREM` Pipe Fittings to LPS 1219: Issue 3.1

Product Name	Nominal Size (mm)	Maximum Working Pressure (bar)	LPCB Ref. No.
90° Elbow L01	33.7, 42.4, 48.3	20	1433a/06
90° Elbow XGQT01	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	20	1433a/07
45° Elbow 011	33.7, 42.4, 48.3	20	1433a/08
45° Elbow XGQT011	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	20	1433a/09
Grooved Tee XGQT03	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	20	1433a/10
Grooved End Cap XGQT06	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	20	1433a/11
Grooved Cap with Hole XGQT061	60.3 x 33.7, 60.3 x 42.4, 60.3 x 48.3, 76.1 x 33.7, 76.1 x 42.4, 76.1 x 48.3, 76.1 x 60.3, 88.9 x 33.7, 88.9 x 42.4, 88.9 x 48.4, 88.9 x 60.3, 114.3 x 48.3, 114.3 x 60.3, 139.7 x 60.3, 165.1 x 60.3, 168.3 x 60.3, 219.1 x 60.3	20	1433a/12
Grooved Flange Adaptor XGQT08	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	16	1433a/13
Grooved concentric Reducer XGQT07	48.3 x 42.4, 60.3 x 48.3, 76.1 x 60.3, 88.9 x 76.1, 114.3 x 88.9, 139.7 x 114.3, 165.1 x 139.7, 168.3 x 139.7, 219.1 x 165.1, 219.1 x 168.3	20	1433a/14

Note:
All above listed couplings, mechanical tees and fittings to be installed in accordance with ZC/GY-07, Installation Instructions, Revision A/2, dated 2019/08/10, which also refers to the relevant bolt torques.

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