

## Certificate of Product Approval

Certificate Number: 921a

Issue: 06

### Tyco Fire & Building Products

Research & Development Center  
1467 Elmwood Avenue  
Cranston  
RI 02910  
USA



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

**'Grinnell' 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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Sarah Colwell  
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14 April 2022  
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## Appendix to Certificate No: 921a Tyco Fire & Building Products

Issue: 06

### 'Grinnell' Pipe Couplings to LPS 1219: Issue 3.1

Product	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Fig 705 Flexible Pipe Coupling	32	42.2	Rolled	EPDM	20	921a/01
Fig 705 Flexible Pipe Coupling	40	48.3	Rolled	EPDM	20	921a/01
Fig 705 Flexible Pipe Coupling	50	60.3	Rolled	EPDM	20	921a/01
Fig 705 Flexible Pipe Coupling	65	76.1	Rolled	EPDM	20	921a/01
Fig 705 Flexible Pipe Coupling	80	88.9	Rolled	EPDM	20	921a/01
Fig 705 Flexible Pipe Coupling	100	114.3	Rolled	EPDM	20	921a/01
Fig 705 Flexible Pipe Coupling	150	165.1	Rolled	EPDM	20	921a/01
Fig 705 Flexible Pipe Coupling	150	168.3	Rolled	EPDM	20	921a/01
Fig 705 Flexible Pipe Coupling	200	219.1	Rolled	EPDM	20	921a/01
Fig 707 Heavy Duty Flexible Pipe Coupling	40	48.3	Rolled	EPDM	20	921a/25
Fig 707 Heavy Duty Flexible Pipe Coupling	50	60.3	Rolled	EPDM	20	921a/25
Fig 707 Heavy Duty Flexible Pipe Coupling	65	76.1	Rolled	EPDM	20	921a/25
Fig 707 Heavy Duty Flexible Pipe Coupling	80	88.9	Rolled	EPDM	20	921a/25
Fig 707 Heavy Duty Flexible Pipe Coupling	100	114.3	Rolled	EPDM	20	921a/25
Fig 707 Heavy Duty Flexible Pipe Coupling	150	165.1	Rolled	EPDM	20	921a/25
Fig 707 Heavy Duty Flexible Pipe Coupling	150	168.3	Rolled	EPDM	20	921a/25
Fig 707 Heavy Duty Flexible Pipe Coupling	200	219.1	Rolled	EPDM	20	921a/25
Fig 707 Heavy Duty Flexible Pipe Coupling	250	273.0	Rolled	EPDM	20	921a/25
Fig 707 Heavy Duty Flexible Pipe Coupling	300	323.9	Rolled	EPDM	20	921a/25
Fig 577 Rigid Pipe Coupling	25	33.7	Rolled	EPDM	20	921a/02
Fig 577 Rigid Pipe Coupling	32	42.2	Rolled	EPDM	20	921a/02

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Product	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Fig 577 Rigid Pipe Coupling	40	48.3	Rolled	EPDM	20	921a/02
Fig 577 Rigid Pipe Coupling	50	60.3	Rolled	EPDM	20	921a/02
Fig 577 Rigid Pipe Coupling	65	76.1	Rolled	EPDM	20	921a/02
Fig 577 Rigid Pipe Coupling	80	88.9	Rolled	EPDM	20	921a/02
Fig 577 Rigid Pipe Coupling	100	114.3	Rolled	EPDM	20	921a/02
Fig 577 Rigid Pipe Coupling	150	165.1	Rolled	EPDM	20	921a/02
Fig 577 Rigid Pipe Coupling	150	168.3	Rolled	EPDM	20	921a/02
Fig 577 Rigid Pipe Coupling	200	219.1	Rolled	EPDM	20	921a/02
Fig 577 Rigid Pipe Coupling	250	273.0	Rolled	EPDM	20	921a/02
Fig 577 Rigid Pipe Coupling	300	323.9	Rolled	EPDM	20	921a/02
Fig 772 Rigid Pipe Coupling	32	42.2	Rolled	EPDM	20	921a/03
Fig 772 Rigid Pipe Coupling	40	48.3	Rolled	EPDM	20	921a/03
Fig 772 Rigid Pipe Coupling	50	60.3	Rolled	EPDM	20	921a/03
Fig 772 Rigid Pipe Coupling	65	76.1	Rolled	EPDM	20	921a/03
Fig 772 Rigid Pipe Coupling	80	88.9	Rolled	EPDM	20	921a/03
Fig 772 Rigid Pipe Coupling	100	114.3	Rolled	EPDM	20	921a/03
Fig 772 Rigid Pipe Coupling	150	165.1	Rolled	EPDM	20	921a/03
Fig 772 Rigid Pipe Coupling	150	168.3	Rolled	EPDM	20	921a/03
Fig 772 Rigid Pipe Coupling	200	219.1	Rolled	EPDM	20	921a/03
Fig 772 Rigid Pipe Coupling	250	273	Rolled	EPDM	20	921a/03
Fig 772 Rigid Pipe Coupling	300	323.9	Rolled	EPDM	20	921a/03
Fig 774 Rigid Pipe Coupling	25	33.7	Rolled	EPDM	20	921a/24

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## Appendix to Certificate No: 921a Tyco Fire & Building Products

Issue: 06

Product	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Fig 774 Rigid Pipe Coupling	32	42.2	Rolled	EPDM	20	921a/24
Fig 774 Rigid Pipe Coupling	40	48.3	Rolled	EPDM	20	921a/24
Fig 774 Rigid Pipe Coupling	50	60.3	Rolled	EPDM	20	921a/24
Fig 774 Rigid Pipe Coupling	65	76.1	Rolled	EPDM	20	921a/24
Fig 774 Rigid Pipe Coupling	80	88.9	Rolled	EPDM	20	921a/24
Fig 774 Rigid Pipe Coupling	100	114.3	Rolled	EPDM	20	921a/24
Fig 774 Rigid Pipe Coupling	150	165.1	Rolled	EPDM	20	921a/24
Fig 774 Rigid Pipe Coupling	150	168.3	Rolled	EPDM	20	921a/24
Fig 774 Rigid Pipe Coupling	200	219.1	Rolled	EPDM	20	921a/24
Fig 774 Rigid Pipe Coupling	250	273.0	Rolled	EPDM	20	921a/24
Fig 774 Rigid Pipe Coupling	300	323.9	Rolled	EPDM	20	921a/24
Fig 579 Rigid Pipe Coupling (1)	32	42.2	Rolled	EPDM	20	921a/25
Fig 579 Rigid Pipe Coupling (1)	40	48.3	Rolled	EPDM	20	921a/25
Fig 579 Rigid Pipe Coupling (1) (2)	50	60.3	Rolled	EPDM	20	921a/25
Fig 579 Rigid Pipe Coupling (1) (2)	65	76.1	Rolled	EPDM	20	921a/25
Fig 579 Rigid Pipe Coupling (1) (2)	80	88.9	Rolled	EPDM	20	921a/25
Fig 579 Rigid Pipe Coupling (1) (2)	100	114.3	Rolled	EPDM	20	921a/25
Fig 579 Rigid Pipe Coupling (1)	150	165.1	Rolled	EPDM	20	921a/25
Fig 579 Rigid Pipe Coupling (1)	150	168.3	Rolled	EPDM	20	921a/25
Fig 579 Rigid Pipe Coupling (1)	200	219.1	Rolled	EPDM	20	921a/25
Fig 716 Reducing Coupling	50 x 40	60.3 x 48.3	Rolled	EPDM	20	921a/05
Fig 716 Reducing Coupling	65 x 50	76.1 x 60.3	Rolled	EPDM	20	921a/05

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## Appendix to Certificate No: 921a Tyco Fire & Building Products

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Product	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Fig 716 Reducing Coupling	80 x 65	88.9 x 76.1	Rolled	EPDM	20	921a/05
Fig 716 Reducing Coupling	100 x 80	114.3 x 88.9	Rolled	EPDM	20	921a/05
Fig 730 Mechanical Tee	50 x 15	60.3 x 21.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	50 x 20	60.3 x 26.9	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	50 x 25	60.3 x 33.4	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	50 x 32	60.3 x 42.2	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	50 x 40	60.3 x 48.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	65 x 15	76.1 x 21.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	65 x 20	76.1 x 26.9	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	65 x 25	76.1 x 33.4	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	65 x 32	76.1 x 42.2	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	65 x 40	76.1 x 48.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	65 x 50	76.1 x 60.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	80 x 15	88.9 x 21.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	80 x 20	88.9 x 26.9	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	80 x 25	88.9 x 33.4	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	80 x 32	88.9 x 42.2	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	80 x 40	88.9 x 48.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	80 x 50	88.9 x 60.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	100 x 15	114.3 x 21.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	100 x 20	114.3 x 26.9	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	100 x 25	114.3 x 33.4	Threaded	EPDM	20	921a/04

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Product	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Fig 730 Mechanical Tee	100 x 32	114.3 x 42.2	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	100 x 40	114.3 x 48.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	100 x 50	114.3 x 60.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	100 x 65	114.3 x 76.1	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	100 x 80	114.3 x 88.9	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 32	165.1 x 42.2	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 40	165.1 x 48.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 50	165.1 x 60.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 65	165.1 x 76.1	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 80	165.1 x 88.9	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 100	165.1 x 114.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 32	168.3 x 42.2	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 40	168.3 x 48.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 50	168.3 x 60.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 65	168.3 x 76.1	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 80	168.3 x 88.9	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 100	168.3 x 114.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	200 x 50	219.1 x 60.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	200 x 65	219.1 x 76.1	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	200 x 80	219.1 x 88.9	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	200 x 100	219.1 x 114.3	Threaded	EPDM	20	921a/04
Fig 730 Mechanical Tee	50 x 32	60.3 x 42.2	Grooved	EPDM	20	921a/04

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Product	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Fig 730 Mechanical Tee	50 x 40	60.3 x 48.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	65 x 32	76.1 x 42.2	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	65 x 40	76.1 x 48.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	65 x 50	76.1 x 60.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	80 x 32	88.9 x 42.2	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	80 x 40	88.9 x 48.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	80 x 50	88.9 x 60.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	100 x 32	114.3 x 42.4	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	100 x 40	114.3 x 48.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	100 x 50	114.3 x 60.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	100 x 65	114.3 x 76.1	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	100 x 80	114.3 x 88.9	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 32	165.1 x 42.2	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 40	165.1 x 48.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 50	165.1 x 60.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 65	165.1 x 76.1	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 80	165.1 x 88.9	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 100	165.1 x 114.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 32	168.3 x 42.2	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 40	168.3 x 48.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 50	168.3 x 60.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 65	168.3 x 76.1	Grooved	EPDM	20	921a/04

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Product	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Fig 730 Mechanical Tee	150 x 80	168.3 x 88.9	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	150 x 100	168.3 x 114.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	200 x 50	219.1 x 60.3	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	200 x 65	219.1 x 76.1	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	200 x 80	219.1 x 88.9	Grooved	EPDM	20	921a/04
Fig 730 Mechanical Tee	200 x 100	219.1 x 114.3	Grooved	EPDM	20	921a/04
Fig 522 Sprinkler Tee	25 x 15	33.4 x 21.3	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	25 x 20	33.4 x 26.9	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	25 x 25	33.4 x 33.4	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	32 x 10	42.2 x 17.2	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	32 x 15	42.2 x 21.3	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	32 x 20	42.2 x 26.9	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	32 x 25	42.2 x 33.4	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	40 x 15	48.3 x 21.3	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	40 x 20	48.3 x 26.9	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	40 x 25	48.3 x 33.4	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	50 x 15	60.3 x 21.3	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	50 x 20	60.3 x 26.9	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	50 x 25	60.3 x 33.4	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	65 x 15	76.1 x 21.3	Threaded	EPDM	20	921a/11
Fig 522 Sprinkler Tee	65 x 25	76.1 x 33.4	Threaded	EPDM	20	921a/11

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Issue: 06

### 'Grinnell' Pipe Fittings to LPS 1219: Issue 3.1

Product	Pipe Outside Diameter (mm)	Maximum Working Pressure (bar)	LPCB Ref. No.
Fig 260 End Cap	42.2, 48.3, 60.3, 76.1, 88.9, 114.3, 165.1, 168.3, 219.1, 273.0, 323.9	20	921a/10
Fig 221 Reducing Tee	219.1x219.1x114.3, 219.1x219.1x168.3	20	921a/15
Fig 212 / 512 22.5° Elbow	42.2, 48.3, 60.3, 88.9, 114.3, 168.3	20	921a/17
Fig 211 / 511 11.25° Elbow	42.2, 48.3, 60.3, 88.9, 114.3, 168.3	20	921a/18

#### Notes:

Foundry code 'T'

- (1) To be installed to comply with recommendations in Figure 3 of datasheet DRAFT\_TFP1856\_2021\_10\_14
- (2) These sizes are approved for use with 'Type 1' gasket as alternative to 'winged' type gasket

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