

LPCB Red Book



Part: 3

**Automatic sprinkler, water spray
and deluge systems**

bre

Introduction

BRE Global Ltd, based in the UK near London, is an independent third party organisation offering certification of fire, security and sustainability products and services to an international market. LPCB is the certification brand used for fire and security products and services. The LPCB mark is accepted worldwide. We have representative offices in China, India and Dubai. We are owned by the BRE Trust, a not-for-profit organisation. LPCB listings can be accessed, free of charge, at www.redbooklive.com. BRE Global additionally carries out: - Fire Investigation - Fire Risk Assessment - Fire Safety Engineering - Research - Training

Part 3

*Automatic sprinkler, water spray
and deluge systems*

AUTOMATIC SPRINKLER, WATER SPRAY AND DELUGE SYSTEMS

INTRODUCTION

The standards used by LPCB for approving and listing sprinkler system components have been developed to ensure that they are suitable for use in systems installed to the LPC Sprinkler Rules incorporating EN 12845.

Many of these components may also be suitable for use in systems designed in accordance with other international and national codes such as NFPA.

To ensure that the systems work, it is recommended that they are designed, installed, commissioned and maintained by contractors who are approved by LPCB to LPS 1048 (for commercial systems) or LPS 1301 (for residential or domestic systems).

Listings in this section include:

Products

- Wet and dry alarm valves for sprinkler systems
- Wet alarm valve stations
- Accelerators and exhausters for dry pipe valves
- Deluge valves and actuators
- Direct reading flow meters
- Multiple jet controls
- Pipe couplings and fittings
- Flexible drops
- Pre-action control systems
- Sprinkler system recycling systems
- Pressure switches
- Sprinkler heads
- Sprinkler bulbs
- Suction tanks for automatic pumps
- Vortex inhibitors
- Water flow alarm switches
- Flow switch testing devices
- Water spray systems
- Fire pumps
- Multi-state fire pumps
- Diesel engines for sprinkler pump sets
- Pipework supports
- Check valves
- Stop valves
- Plastic pipes and fittings
- Metron actuators
- Water motor alarms

Products are approved in accordance with a range of standards, the details of which are given at the front of each section relevant to the product.

AUTOMATIC SPRINKLER, WATER SPRAY AND DELUGE SYSTEMS

Installation and maintenance contractors

Contractors are approved in accordance with:

- *LPS 1048: Requirements for the approval of sprinkler system contractors in the UK and Ireland.*
- *LPS 1148: Requirements for contractors engaged in the design, installation, commissioning and servicing of automatic sprinkler systems (overseas)*
- *LPS 1301: Requirements for the approval of sprinkler installers in the UK and Ireland for residential and domestic sprinkler systems.*

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ACCELERATORS AND EXHAUSTERS FOR DRY PIPE VALVES TTTTTT

This section lists products approved in accordance with:

- LPS 1041 *Requirements and Testing Methods for Dry Pipe Valve Sets*
- EN12259-3 *Fixed Firefighting Systems - Components for sprinkler and water spray systems - Part 3: Dry Alarm Valve Assemblies*
- LPCB Schedule of requirements

All alarm valves, dry-pipe valves and back-pressure valves should be the subject of a maintenance contract, satisfying the requirements of the *LPC Rules for Automatic Sprinkler Installations*.

123 Fire (a division of MB Plant Limited)

Swift House Business Centre, 16 High Street, Staveley, Derbyshire, S43 3UX, United Kingdom

Tel: 0114 360 3213

E-mail: andrewbell@123fire.co.uk • Website: www.123fire.co.uk

Certificate No: QA TEST 12345 to LPS 1197 Issue 4

QA TEST 12345

Alberta Fire & Security Equipment Limited

Zone 3, Triq San Gwakkin, Central Business District, Birkirkara, CBD 3030, Malta

Tel: +356 21 443538

E-mail: enquiries@alberta.com.mt • Website: www.alberta.com.mt

Certificate No: QA TEST to

QA TEST

QA TEST COMPANY

TEST, TEST, United Kingdom

Tel: TEST • Alt Tel: TEST

E-mail: TEST@TEST.COM

Certificate No: QA SAMPLE TEST to BS 6387:2013 (CWZ)

QA SAMPLE TEST

Product Name	Description	LPCB Ref. No
NO SPACE	QA SAMPLE TEST	123456789
	QA SAMPLE TEST	
SPACES BEFORE AND AFTER	QA SAMPLE TEST	123456789
	QA SAMPLE TEST	

QA SAMPLE TEST

QA TEST COMPANY

TEST, TEST, United Kingdom

Tel: TEST • Alt Tel: TEST

E-mail: TEST@TEST.COM

Certificate No: asd to LPS 1673: Issue 1

asd

ACCELERATORS AND EXHAUSTERS FOR DRY PIPE VALVES TTTTTT

Rolland Sprinklers

235 Route de la Biolle, ZA le Sauvage, Mognard, 73410, France

Tel: +33 479 547 250

E-mail: info@rolland-sprinklers.com

Certificate No: 295c to EN 12259-3

Model 1 Accelerator

Product Name	Model	LPCB Ref. No.
Accelerator	1	295c/01

The Reliable Automatic Sprinkler Co., Inc,

1470 Smith Grove Road, Liberty, South Carolina 29657, USA

Tel: +1 864 843 1734

E-mail: jcevallos@reliablesprinkler.com • Website: www.reliablesprinkler.com

Certificate No: 034c to EN 12259-3:2000 + A1 & A2

Accelerator

Product Name	Description	LPCB Ref. No.
Model B1	Reliable Dry Alarm Valve Accelerator	034c/01

The Viking Corporation

210 N Industrial Park, Hastings, Michigan 49058, USA

Tel: +1 269 945 9501

E-mail: techsvcs@vikingcorp.com • Website: www.vikingcorp.com

Certificate No: 096c to EN 12259-3:2000 Including Amendments A1:2001 and A2:2005

Viking Accelerators

Product Name	Description	LPCB Ref. No.
Viking Accelerator	Model D-2	096c/03

Tyco Building Services Products B.V. part of the Johnson Controls group of Companies

Kopersteden 1, 7547 TJ Enschede, Netherlands

Tel: +31 53 4284444

E-mail: info-NL@tyco-bspd.com • Website: www.tycobuilding.com

Certificate No: 864a to EN 12259-3

Model ACC-1 Dry Pipe Valve Accelerator

Product Name	Model	LPCB Ref. No.
Accelerator	ACC-1	864a/01

Venus Fire Protection Ltd

4105, Portland Blvd, Sherbrooke (Quebec), J1L 1X9, Canada

Tel: +1 819 820 8000

E-mail: venus@venus.ca • Website: www.venus-fire.com

Certificate No: 638d to EN 12259-3:2000

Accelerator

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ACCELERATORS AND EXHAUSTERS FOR DRY PIPE VALVES TTTTTTTT

Product Name	Model	LPCB Ref. No.
Accelerator	1	638d/01

CHECK VALVES

This section lists products approved in accordance with:

- LPS 1186 *Requirements and testing methods for check valves.*

Check valves listed in this section are considered acceptable for use in installations conforming to the *LPC Rules for Automatic Sprinkler Installations*. The products shall be installed and maintained in accordance with the manufacturer's instructions.

Jinan Mech Valve Technology Co Ltd

No.2, Meide Street Meigui Town, Pingyin County, Jinan City, Shandong Province, 250400, China

Tel: (86)531 87885013

E-mail: info@meide-casting.com • Website: <http://www.meide-casting.com>

Certificate No: 988b to LPS 1186 Issue 3.1

Check Valves

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Body Material	Maximum Working Pressure (bar)	Connections	LPCB Ref. No.
H84X check valves	50	60.3	Ductile iron	25	Grooved	988b/01
H84X check valves	65	73.0	Ductile iron	25	Grooved	988b/01
H84X check valves	65	76.1	Ductile iron	25	Grooved	988b/01
H84X check valves	80	88.9	Ductile iron	25	Grooved	988b/01
H84X check valves	100	114.3	Ductile iron	25	Grooved	988b/01
H84X check valves	125	139.7	Ductile iron	25	Grooved	988b/01
H84X check valves	125	141.3	Ductile iron	25	Grooved	988b/01
H84X check valves	150	165.1	Ductile iron	25	Grooved	988b/01
H84X check valves	150	168.3	Ductile iron	25	Grooved	988b/01
H84X check valves	200	219.3	Ductile iron	25	Grooved	988b/01
H84X check valves	250	273.0	Ductile iron	25	Grooved	988b/01
H84X check valves	300	323.9	Ductile iron	25	Grooved	988b/01
H44X2 check valves	50	60.3	Ductile iron	25	Flanged	988b/02
H44X2 check valves	65	73	Ductile iron	25	Flanged	988b/02
H44X2 check valves	80	88.9	Ductile iron	25	Flanged	988b/02
H44X2 check valves	100	114.3	Ductile iron	25	Flanged	988b/02
H44X2 check valves	125	139.7	Ductile iron	25	Flanged	988b/02
H44X2 check valves	150	165.1	Ductile iron	25	Flanged	988b/02
H44X2 check valves	200	219.1	Ductile iron	25	Flanged	988b/02
H44X2 check valves	250	273.0	Ductile iron	25	Flanged	988b/02
H44X2 check valves	300	323.9	Ductile iron	25	Flanged	988b/02

QA TEST COMPANY

TEST, TEST, United Kingdom

Tel: TEST • Alt Tel: TEST

E-mail: TEST@TEST.COM

Certificate No: 0122 to LPS 1048

Suspension test 2

Certificate No: 01223 to LPS 1301

Test

Rapidrop Global Limited

Rutland Business Park, Newark Road, Peterborough, PE1 5WA, United Kingdom

Tel: +44 (0)1733 847 510

E-mail: rapidrop@rapidrop.com • Website: www.rapidrop.com

Certificate No: 566j to LPS 1186 Issue 3.1

RAPIDROP Check Valves

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Body Material	Maximum Working Pressure (bar)	Connections	LPCB Ref. No.
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CHECK VALVES

Fig 301	50	60.3	Ductile iron	25	Grooved	566j/01
Fig 301	65	73.0	Ductile iron	25	Grooved	566j/01
Fig 301	65	76.1	Ductile iron	25	Grooved	566j/01
Fig 301	80	88.9	Ductile iron	25	Grooved	566j/01
Fig 301	100	114.3	Ductile iron	25	Grooved	566j/01
Fig 301	125	139.7	Ductile iron	25	Grooved	566j/01
Fig 301	125	141.3	Ductile iron	25	Grooved	566j/01
Fig 301	150	165.1	Ductile iron	25	Grooved	566j/01
Fig 301	150	168.3	Ductile iron	25	Grooved	566j/01
Fig 301	200	219.3	Ductile iron	25	Grooved	566j/01
Fig 301	250	273.0	Ductile iron	25	Grooved	566j/01
Fig 301	300	323.9	Ductile iron	25	Grooved	566j/01
Fig 302	50	60.3	Ductile iron	25	Flanged	566j/02
Fig 302	65	73	Ductile iron	25	Flanged	566j/02
Fig 302	80	88.9	Ductile iron	25	Flanged	566j/02
Fig 302	100	114.3	Ductile iron	25	Flanged	566j/02
Fig 302	150	165.1	Ductile iron	25	Flanged	566j/02
Fig 302	200	219.1	Ductile iron	25	Flanged	566j/02
Fig 302	250	273.0	Ductile iron	25	Flanged	566j/02
Fig 302	300	323.9	Ductile iron	25	Flanged	566j/02

The Viking Corporation

210 N Industrial Park, Hastings, Michigan 49058, USA

Tel: +1 269 945 9501

E-mail: techsvcs@vikingcorp.com • Website: www.vikingcorp.com

Certificate No: 096j to LPS 1186 Issue 3.1

FIREKING Check Valves

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Body Material	Maximum Working Pressure (bar)	Connections	LPCB Ref. No.
SCG	50	60.3	Ductile iron	25	Grooved	096j/01
SCG	65	73.0	Ductile iron	25	Grooved	096j/01
SCG	65	76.1	Ductile iron	25	Grooved	096j/01
SCG	80	88.9	Ductile iron	25	Grooved	096j/01
SCG	100	114.3	Ductile iron	25	Grooved	096j/01
SCG	125	139.7	Ductile iron	25	Grooved	096j/01
SCG	125	141.3	Ductile iron	25	Grooved	096j/01
SCG	150	165.1	Ductile iron	25	Grooved	096j/01
SCG	150	168.3	Ductile iron	25	Grooved	096j/01
SCG	200	219.3	Ductile iron	25	Grooved	096j/01
SCG	250	273.0	Ductile iron	25	Grooved	096j/01
SCG	300	323.9	Ductile iron	25	Grooved	096j/01
SCF	50	60.3	Ductile iron	25	Flanged	096j/02
SCF	65	73	Ductile iron	25	Flanged	096j/02
SCF	80	88.9	Ductile iron	25	Flanged	096j/02
SCF	100	114.3	Ductile iron	25	Flanged	096j/02
SCF	125	139.7	Ductile iron	25	Flanged	096j/02
SCF	150	165.1	Ductile iron	25	Flanged	096j/02
SCF	200	219.1	Ductile iron	25	Flanged	096j/02
SCF	250	273.0	Ductile iron	25	Flanged	096j/02
SCF	300	323.9	Ductile iron	25	Flanged	096j/02

Victaulic Company

4901 Kesslersville Road, Easton, Pennsylvania 18040, USA

Tel: +1 610 559 3300

E-mail: victaulic@victaulic.com • Website: www.victaulic.com

Certificate No: 104h to LPS 1186 Issue 3.1

Series 717 Check Valves

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Body Material	Maximum Working Pressure (bar)	Connections	LPCB Ref. No.
Series 717 H check-valves	50	60.3	Ductile iron	25	Grooved	104h/01
Series 717 H check-valves	65	73	Ductile iron	25	Grooved	104h/01
Series 717 H check-valves	80	88.9	Ductile iron	25	Grooved	104h/01
Series 717 check-valves	100	114.3	Ductile iron	25	Grooved	104h/01

CHECK VALVES

Series 717 check-valves	125	139.7	Ductile iron	25	Grooved	104h/01
Series 717 check-valves	-	141.3	Ductile iron	25	Grooved	104h/01
Series 717 check-valves	150	165.1	Ductile iron	25	Grooved	104h/01
Series 717 check-valves	-	168.3	Ductile iron	25	Grooved	104h/01
Series 717 check-valves	200	219.1	Ductile iron	24	Grooved	104h/01
Series 717 check-valves	250	273.0	Ductile iron	17	Grooved	104h/01
Series 717 check-valves	300	323.9	Ductile iron	17	Grooved	104h/01
Series 717 H check-valves	-	76.1	Ductile iron	25	Grooved	104h/01
Series 717 R check valves	50	60.3	Ductile iron	25	Grooved	104h/02
Series 717 R check valves	65	76.1	Ductile iron	25	Grooved	104h/02
Series 717 R check valves	80	88.9	Ductile iron	25	Grooved	104h/02
Series 717 R check valves	100	114.3	Ductile iron	25	Grooved	104h/02
Series 717 R check valves	125	139.7	Ductile iron	25	Grooved	104h/02
Series 717 R check valves	-	141.3	Ductile iron	25	Grooved	104h/02
Series 717 R check valves	150	165.1	Ductile iron	25	Grooved	104h/02
Series 717 R check valves	-	168.3	Ductile iron	25	Grooved	104h/02
Series 717 R check valves	200	219.3	Ductile iron	24	Grooved	104h/02
Series 717 R check valves	250	273.0	Ductile iron	17	Grooved	104h/02
Series 717 R check valves	300	323.9	Ductile iron	17	Grooved	104h/02

DELUGE VALVES AND ACTUATORS

This section lists products approved in accordance with:

- LPCB Schedule of requirements
- Pr EN 12259-9 *Fixed firefighting systems - Components for sprinkler and water spray systems - Part 9: Deluge valve assemblies*

Deluge valves and actuators are currently approved to a schedule of requirements developed by LPCB unless otherwise stated, for use in automatic sprinkler installations.

All deluge valves should be the subject of a maintenance contract, satisfying the requirements of the *LPC Rules for Automatic Sprinkler Installations*.

The nominal orifice size of valves listed is given in millimetres.

The Reliable Automatic Sprinkler Co., Inc,

1470 Smith Grove Road, Liberty, South Carolina 29657, USA

Tel: +1 864 843 1734

E-mail: jcevallos@reliablesprinkler.com • Website: www.reliablesprinkler.com

Certificate No: 034a to , EN 12259-9:2019

Certificate No: 034p to prEN 12259-9

Deluge Valves and Actuators

Product Name	Model	Size DN (mm)	LPCB Ref. No.
Reliable Deluge Valve	BX	100	034a/01
Reliable Deluge Valve	BX	150	034a/01
Reliable Dry Pilot Line Actuator	-	-	034a/03
Reliable Deluge Alarm Valve	DDX	100	034p/01
Reliable Deluge Alarm Valve	DDX	150	034p/02
Reliable Deluge Alarm Valve	DDX	165	034p/03
Reliable Deluge Alarm Valve	DDX	200	034p/04
Reliable Deluge Alarm Valve	DDX	50	034p/05
Reliable Deluge Alarm Valve	DDX	65 (73.0)	034p/06
Reliable Deluge Alarm Valve	DDX	65 (76.1)	034p/07
Reliable Deluge Alarm Valve	DDX	80	034p/08

Notes:

- 1) Maximum rated working pressure 20.7 bar.
- 2) With groove inlet and outlet.
- 3) Vertical orientation as indicated only.
- 4) Approved with or without model B1 quick opening device (LPCB ref 034c/01).
- 5) Refer to manufacturer's instructions Bulletins 510-C & 511-B
- 6) Refer to manufacturer's instructions "Bulletin 515 Rev.A"
- 7) Maximum rated working pressure 17.2 bar
- 8) Refer to manufacturer's instruction "Bulletin 519"

The Viking Corporation

210 N Industrial Park, Hastings, Michigan 49058, USA

Tel: +1 269 945 9501

E-mail: techsvcs@vikingcorp.com • Website: www.vikingcorp.com

Certificate No: 096a to prEN 12259-9:2007

Viking Deluge Valve

Product Name	Description	Sizes	LPCB Ref. No.
Model F-1 & F-2	Flanged Inlet and Outlet	80mm, 100mm, 150mm, 200mm	096a/04
Model F-1 & F-2	Flanged Inlet and Grooved Outlet	80mm, 100mm, 150mm	096a/05

DELUGE VALVES AND ACTUATORS

Model J-1 & J-2	Flanged Inlet and Outlet	80mm, 100mm, 150mm, 200mm	096a/06
Model J-1 & J-2	Flanged Inlet and Grooved Outlet	80mm, 100mm, 150mm	096a/07
Model F-1 & F-2	Screwed Inlet and Outlet	40mm, 50mm, 65mm	096a/08
Model F-1 & F-2	Grooved Inlet and Outlet	40mm, 50mm, 65mm, 80mm, 100mm, 150mm, 200mm	096a/09
Model J-1 & J-2	Screwed Inlet and Outlet	40mm, 50mm, 65mm	096a/10
Model J-1 & J-2	Grooved Inlet and Outlet	40mm, 50mm, 65mm, 80mm, 100mm, 150mm, 200mm	096a/11

Tyco Building Services Products B.V. part of the Johnson Controls group of Companies

Kopersteden 1, 7547 TJ Enschede, Netherlands

Tel: +31 53 4284444

E-mail: info-NL@tyco-bspd.com • Website: www.tycobuilding.com

Certificate No: 169c to

TFP Dry Pilot Actuator

Product Name	Model	LPCB Ref. No.
TFP Dry Pilot Actuator	Model DP-1	169c/01

Notes:

- 1) Maximum Inlet water pressure 17.2 bar
- 2) Maximum Inlet air pressure 3.4 bar
- 3) Refer to manufacturers technical description TFP1380, dated August 2022
- 4) This product is an auxiliary device designed for use with Tyco Deluge Valve DV-5 & DV-5a

Certificate No: 169i to prEN 12259-9:2004

Deluge Valves

Product Name	Size	End fittings	LPCB Ref. No.
DV-5a Deluge Valve	DN 40	5) & 7)	169i/01
DV-5a Deluge Valve	DN 50	5) & 7)	169i/01
DV-5a Deluge Valve	DN 80	5) & 6)	169i/01
DV-5a Deluge Valve	DN 100	5) & 6)	169i/01
DV-5a Deluge Valve	DN 150 (165.1mm)	5) & 6)	169i/01
DV-5a Deluge Valve	DN 200	5) & 6)	169i/01
DV-5a Deluge Valve	DN 150 (168.3mm)	5) & 6)	169i/01

Victaulic Company

4901 Kesslersville Road, Easton, Pennsylvania 18040, USA

Tel: +1 610 559 3300

E-mail: victaulic@victaulic.com • Website: www.victaulic.com

Certificate No: 104d to prEN 12259-9 (September 2004)

Model 769N Deluge Valve

Product Name	Model	Sizes(mm)	LPCB Ref. No.
Series 769N Deluge Valve	Series 769	40, 50, 65, 80, 100, 150 & 200	104d/02

DIESEL ENGINES FOR SPRINKLER PUMP SETS

This section lists products approved in accordance with:

- LPS 1239 *Requirements for LPCB Approval of Diesel Engines for Sprinkler Pump Sets.*

LPCB approved diesel engines shall be used in fire pump sets which conform to the *LPC Rules for Automatic Sprinkler Installations*.

For pump sets requiring a diesel engine with a power/speed rating outside the range of approved diesel engines listed, such diesel engines should conform to LPS 1239, Issue 1.

LPCB Approved engines are approved for use between the following limits:

- Not greater than the approved rated engine power at the rated speed.
- Not less than 40% of the approved rated engine power at the rated speed

The responsibility for the design, construction, testing and performance of all fire pump sets incorporating LPCB approved diesel engines lies with the pump set manufacturer.

Clarke UK Limited

Grange Works, Lomond Road, Coatbridge, Scotland, ML5 2NN, United Kingdom

Tel: +44 (0)1236 429946

Certificate No: 601b to LPS 1239

Diesel Engines for sprinkler pump sets

Product Name	1760*	2100*	2350*	2600*	2800*	2960*	LPCB Ref. No.
JU4H - LP20 (1)	60	67	72	-	-	-	601b/01
JU4H - LP24 (1)	-	-	72	75	80	83	601b/02
JU4H - LP50 (2)	110	130	127	-	-	-	601b/03
JU4H - LP54 (2)	-	-	122	139	145	145	601b/04
JU4H - LP84 (3)	-	-	139	175	179	185	601b/05
JU6H - LP50 (2)	183	210	210	-	-	-	601b/06
JU6H - LP54 (2) **	-	-	210	216	216	216	601b/07
JU6H - LP60 (3)	200	240	240	-	-	-	601b/08
JU6H - LP84 (3) **	-	-	243	247	259	275	601b/09
JU4H - LPL4 (2)	-	-	-	123	130	135	601b/10

Certificate No: 601c to LPS 1239

Diesel Engines for sprinkler pump sets

Product Name	2800*	2960*	LPCB Ref. No.
LC2A - LP30	6.8	9.7	601c/01
LC2A - LP60	22.1	22.5	601C/02

DIRECT READING FLOW METERS

This section lists products approved in accordance with:

- LPS 1045 *Requirements & Testing Methods for direct reading Flow Meters.*

The following devices are suitable for use under the *LPC Rules for Automatic Sprinkler Installations*. The products shall be installed and maintained in accordance with the manufacturer's instructions.

Influx Measurements Limited

1A Bennett House, The Dean, Alresford, Hampshire, SO24 9BQ, United Kingdom

Tel: +44 (0)1962 736736

E-mail: sales@influxmeasurements.com

Certificate No: 464a to LPS 1045

'Firesure' Flowmeters

Product Name	Nominal Pipe Size to BS 1387 (DN)	Nominal Pipe Size to BS 3600 (DN)	Flow Range (dm ³ /min)	Connection Type	LPCB Ref. No.
Fireflange	50	-	150-700	Flange	464a/01
Fireflange	80	-	300-1600	Flange	464a/02
Fireflange	100	-	500-3500	Flange	464a/03
Fireflange	150	-	900-7900	Flange	464a/04
Fireflange	-	200	2000-15000	Flange	464a/05
Firegroove	50	-	150-700	Groove	464a/06
Firegroove	80	-	300-1600	Groove	464a/07
Firegroove	100	-	500-3500	Groove	464a/08
Firegroove	150 (165.1mm)	-	900-7900	Groove	464a/09
Firegroove	-	200	2000-15000	Groove	464a/10
Firegroove	150 (168.3mm)	-	900-7900	Groove	464a/22

Certificate No: 464a to LPS 1045

'Firesure X' Flowmeters

Product Name	Nominal Pipe Size to BS 1387 (DN)	Nominal Pipe Size to BS 3600 (DN)	Flow Range (dm ³ /min)	Connection Type	LPCB Ref. No.
Fireflange X	50	-	200-850	Flange	464a/11
Fireflange X	80	-	200-1800	Flange	464a/12
Fireflange X	100	-	400-4000	Flange	464a/13
Fireflange X	150	-	1100-9500	Flange	464a/14
Fireflange X	-	200	2500-17000	Flange	464a/15
Firegroove X	50	-	200-850	Groove	464a/16
Firegroove X	80	-	200-1800	Groove	464a/17
Firegroove X	100	-	400-4000	Groove	464a/18
Firegroove X	150 (165.1mm)	-	1100-9500	Groove	464a/19
Firegroove X	-	200	2500-17000	Groove	464a/20
Firegroove X	150 (168.3mm)	-	1100-9500	Groove	464a/24

Mecon GmbH

Rontgenstrasse 105, Kerpen, 50169, Germany

Tel: 0049 2237 6000611

Website: www.mecon.de

Certificate No: 1385a to LPS 1045: Issue 1.3

MECON Turbo-Lux 3 Direct Reading Flow Meters

Product Name	Nominal Pipe Size to BS 1387 (mm)	Nominal Pipe Size to BS 3600 (mm)	Flow Range (l/min)	Connection Type	LPCB Ref. No.
Turbo-Lux 3	50	50	75 – 375	Groove	1385a/01
Turbo-Lux 3	65	65	150 – 750	Groove	1385a/02
Turbo-Lux 3	80	80	220 – 1100	Groove	1385a/03
Turbo-Lux 3	80	80	300 – 1500	Groove	1385a/04
Turbo-Lux 3	100	100	380 – 1900	Groove	1385a/05
Turbo-Lux 3	100	100	460 – 2300	Groove	1385a/06
Turbo-Lux 3	100	100	600 – 3000	Groove	1385a/07
Turbo-Lux 3	100	100	680 – 3400	Groove	1385a/08
Turbo-Lux 3	150	150	760 – 3800	Groove	1385a/09

DIRECT READING FLOW METERS

Turbo-Lux 3	150	150	1130 – 5650	Groove	1385a/10
Turbo-Lux 3	150	150	1500 – 7500	Groove	1385a/11
Turbo-Lux 3	150	150	1900 – 9500	Groove	1385a/12
Turbo-Lux 3	-	200	2200 – 11000	Groove	1385a/13
Turbo-Lux 3	-	200	3000 – 15000	Groove	1385a/14
Turbo-Lux 3	-	200	3800 – 19000	Groove	1385a/15
Turbo-Lux 3	-	200	4500 – 22500	Groove	1385a/16

Certificate No: 1385b to LPS 1045: Issue 1.3

Direct reading flow meters

Product Name	Nominal Pipe Size to BS 1387 (mm)	Nominal Pipe Size to BS 3600 (mm)	Flow Range (l/min)	Connection Type	LPCB Ref. No.
Turbo-Lux 3 PP	80	80	375 - 2100	Threaded	1385b/01
Turbo-Lux 3 PP	80	80	375 - 2100	Groove	1385b/02

Roxspur Measurement & Control

2 Downtage Drive, Sheffield, South Yorkshire, S4 8BT, United Kingdom
Tel: +44 (0)114 244 2521

Certificate No: 088a to LPS 1045: Issue 1.3

Type SGUV Mk 3 Direct Reading Flow Meters

Product Name	Pipe Size(mm)	Flow Range(dm³/min)	LPCB Ref. No.
Shunt Gapmeter	80	300 - 1500	088a/01
Shunt Gapmeter	100	500 - 2500	088a/02
Shunt Gapmeter	125	700 - 3500	088a/03
Shunt Gapmeter	150	1000 - 5000	088a/04

Certificate No: 088a to LPS 1045: Issue 1.3

Direct reading flow meters

Product Name	Nominal Pipe Size to BS1387 (mm)	Nominal Pipe Size to BS3600 (mm)	Flow Range (dm³/min)	Connection Type	LPCB Ref. No.
Type SGUV Mk 2	50	150 - 750	Flange	Flange	088a/05
Type SGUV Mk 2	80	300 - 2300	Flange	Flange	088a/06
Type SGUV Mk 2	100	500 - 3500	Flange	Flange	088a/07
Type SGUV Mk 2	150	900 - 8200	Flange	Flange	088a/08
Type SGUV Mk 2	200	2500 -12500	Flange	Flange	088a/09
Type SGUV Mk 2	50	150 - 750	Groove	Groove	088a/10
Type SGUV Mk 2	80	300 - 2300	Groove	Groove	088a/11
Type SGUV Mk 2	100	500 - 3500	Groove	Groove	088a/12
Type SGUV Mk 2	150	900 - 8200	Groove	Groove	088a/13
Type SGUV Mk 2	200	2500 -12500	Groove	Groove	088a/14

Certificate No: 088b to LPS 1045: Issue 1.3

Direct Reading Flow Meters

Product Name	Nominal Size	Flow Range (dm³/min)	Connection Type	LPCB Ref. No.
Type SGUV Mk 3	50	150 - 750	Flange	088b/01
Type SGUV Mk 3	80	300 - 2300	Flange	088b/02
Type SGUV Mk 3	100	500 - 3500	Flange	088b/03
Type SGUV Mk 3	150	900 - 8200	Flange	088b/04
Type SGUV Mk 3	200	2500 -12500	Flange	088b/05
Type SGUV Mk 3	50	150 - 750	Groove	088b/06
Type SGUV Mk 3	80	300 - 2300	Groove	088b/07
Type SGUV Mk 3	100	500 - 3500	Groove	088b/08
Type SGUV Mk 3	150	900 - 8200	Groove	088b/09
Type SGUV Mk 3	200	2500 -12500	Groove	088b/10

DIRECT READING FLOW METERS

The Reliable Automatic Sprinkler Co., Inc,

1470 Smith Grove Road, Liberty, South Carolina 29657, USA

Tel: +1 864 843 1734

E-mail: jcevallos@reliablesprinkler.com • Website: www.reliablesprinkler.com

Certificate No: 1385Ab to LPS 1045: Issue 1.3

Direct Reading Flow Meters

Product Name	Nominal Pipe Size to BS 1387 (DN)	Flow Range (l/min)	Connection Type	LPCB Ref. No.
RASCO Proving Pipe THD	80	375-2100	Threaded	1385Ab/01
RASCO Proving Pipe GRV	80	375-2100	Grooved	1385Ab/02

Tornatech Inc.

4100 Desserte Sud, A-440 Ouest, Laval, Québec, H7T 0H3, Canada

Tel: +1 514 334 0523

Website: www.tornatech.com

Certificate No: 1385Ba to LPS 1045: Issue 1.3

TORNATECH GT-FluxFP Direct Reading Flow Meters

Product Name	Nominal Pipe Size to BS 1387 (mm)	Nominal Pipe Size to BS 3600 (mm)	Flow Range (l/min)	Connection Type	LPCB Ref. No.
GT-FluxFP	50	50	75 - 375	Groove	1385Ba/01
GT-FluxFP	65	65	150 - 750	Groove	1385Ba/02
GT-FluxFP	80	80	220 - 1100	Groove	1385Ba/03
GT-FluxFP	80	80	300 - 1500	Groove	1385Ba/04
GT-FluxFP	100	100	380 - 1900	Groove	1385Ba/05
GT-FluxFP	100	100	460 - 2300	Groove	1385Ba/06
GT-FluxFP	100	100	600 - 3000	Groove	1385Ba/07
GT-FluxFP	100	100	680 - 3400	Groove	1385Ba/08
GT-FluxFP	150	150	760 - 3800	Groove	1385Ba/09
GT-FluxFP	150	150	1130 - 5650	Groove	1385Ba/10
GT-FluxFP	150	150	1500 - 7500	Groove	1385Ba/11
GT-FluxFP	150	150	1900 - 9500	Groove	1385Ba/12
GT-FluxFP	-	200	2200 - 11000	Groove	1385Ba/13
GT-FluxFP	-	200	3000 - 15000	Groove	1385Ba/14
GT-FluxFP	-	200	3800 - 19000	Groove	1385Ba/15
GT-FluxFP	-	200	4500 - 22500	Groove	1385Ba/16

DUAL SENSING SPRINKLER HEADS

This section lists products approved in accordance with:

- LPCB Schedule of requirements

Dual sensing sprinkler heads have been evaluated in relation to their general performance capability but not in relation to their suitability for specific applications. The manufacturers installation and maintenance instructions shall be followed.

Dual sensing sprinkler heads are only suitable for use on fully hydraulically calculated systems.

ELECTRICALLY OPERATED SPRINKLER HEADS

This section lists products approved in accordance with:

- LPCB Schedule of requirements

Sprinkler Heads included in this section include a means of electronic operation in addition to the normal glass bulb mode.

Approval Conditions

- 1) LPCB approved detectors compatible with the control and indicating equipment shall be used;
 - 2) Suitable electrical detection control and indicating equipment compatible with the equipment below shall be used. The control and indicating equipment shall be LPCB Approved/Certificated;
 - 3) Connecting cables shall comply with BS 6387:1994 *Specification for performance requirements for cables required to maintain circuit integrity under fire conditions*, classification C,W,Z or equivalent;
 - 4) The equipment must be installed, operated and maintained as prescribed in the manufacturer's Installation, Operating and Maintenance Manual;
 - 5) To guard against inadvertent operation it is recommended that electrically operated sprinklers be used in conjunction with coincidence detection;
 - 6) Where Metron actuators are employed the maximum allowable operating temperature shall not be exceeded;
 - 7) Where Metron actuators are used, these shall also be LPCB approved; and
 - 8) The Guidance in the Part 3 Section 22 Metron Actuators, shall also be taken into account.
-

FIRE PUMPS

This section lists products approved in accordance with:

- LPS 1131 *Pumps for Automatic Sprinkler Installation. Pump Sets - Requirements and testing methods.*

Firms listed in this section shall control and be responsible for the design, construction, testing and performance of all fire pump sets incorporating their LPCB approved fire pumps.

All fire pump sets incorporating LPCB approved fire pumps shall conform to the *LPC Rules for Automatic Sprinkler Installations*, or Rules specified in the contract, and shall be tested in accordance with the LPC Sprinkler Rules.

Note: Only LPCB approved fire pumps shall be used to comply with the *LPC Rules for automatic sprinkler installations*.

Pumps are approved for a maximum working pressure of 12 bar except where stated.

Armstrong Integrated Ltd

Heywood Wharf, Mucklow Hill, Halesowen, West Midlands, B62 8DJ, United Kingdom

Tel: +44 (0)8444 145 145

E-mail: ukfire@armstrongfluidtechnology.com • Website: www.armstrongfluidtechnology.com

Certificate No: 197a to LPS 1131

Fire Pump

Product Name	Type	Suction Inlet Diameter/Discharge Outlet Diameter (mm)	Impeller Diameter (mm)	Rated Speed (rev/min)	Rated Flow (L/min) (at NPSHreq. = 5.38m)	Rated Head (bar) (at NPSHreq. = 5.38m)	Closed Valve Head (bar)	LPCB Ref. No.
4030 FP 8x5x11½	Direct coupled end suction	200/125	292	2900	7450	7.5	10	197a/01
4030 FP 8x5x11½	-	-	241	2900	7000	3.8	6.8	197a/01
4030 FP 8x5x11½	-	-	292	2900*	7450	7.5	10	197a/01
4030 FP 8x5x11½	-	-	292	1450*	4800	1.6	2.3	197a/01
4030FP 6x4x10	Direct coupled end suction	150/100	259*	2900	7680	5.3	8.6	197a/02
4030FP 6x4x10	-	-	205*	2900	5280	3.6	4.8	197a/02
4030FP 6x4x10	-	-	259	2900*	7680	5.3	8.6	197a/02
4030FP 6x4x10	-	-	259	1450*	3120	1.6	2.1	197a/02
4030 FP(1) 4x3x8½	Direct coupled end suction	100/80	224	2900	3360	3.4	6.3	197a/03
4030 FP 4x3x8½	-	-	175	2900	2460	1.9	3.9	197a/03
4030FP 3x2x6	Direct coupled end suction	80/50	157	2900	1300	1.2	2.9	197a/04
4030FP 3x2x6	-	-	113	2900	750	0.9	1.5	197a/04
4020 FP(1) 4x3x8½	Close coupled end suction	100/80	224	2900	3360	3.4	6.3	197a/05
4020 FP(1) 4x3x8½	-	-	175	2900	2460	1.9	3.9	197a/05
4020 FP 8x5x11½	Close coupled end suction	200/125	292	2900	7450	7.5	10	197a/06
4020 FP 8x5x11½	-	-	241	2900	7000	3.8	6.8	197a/06
4020 FP 8x5x11½	-	-	292	2900*	7450	7.5	10	197a/06
4020 FP 8x5x11½	-	-	292	1450*	4800	1.6	2.3	197a/06
4020FP 6x4x10	Close coupled end suction	150/100	259*	2900	7680	5.3	8.6	197a/07
4020FP 6x4x10	-	-	205*	2900	5280	3.6	4.8	197a/07
4020FP 6x4x10	-	-	259	2900*	7680	5.3	8.6	197a/07
4020FP 6x4x10	-	-	259	1450*	3120	1.6	2.1	197a/07
4020FP 3x2x6	Close coupled end suction	80/50	157	2900	1300	1.2	2.9	197a/08
4020FP 3x2x6	-	-	113	2900	750	0.9	1.5	197a/08
40MF 8x6x13 LPC (2),(3) & (4)	Direct Coupled End Suction	200/150	295	2900	9050	8.1	11.1	197a/09
40MF 8x6x13 LPC (2),(3) & (4)	-	-	279	2900	8850	7.2	9.8	197a/09
40MF 8x6x13 LPC (2),(3) & (4)	-	-	330	2600	10430	6.8	10.7	197a/09
40MF 8x6x13 LPC (2),(3) & (4)	-	-	273	2600	9850	4.2	7.5	197a/09

FIRE PUMPS

40MF 6x5x13 PLC(2),(3) & (4)	Direct Coupled End Suction	150/125	295	2900	7700	8.5	12.0	197a/10
40MF 6x5x13 PLC(2),(3) & (4)	-	-	250	2900	7700	4.8	8.6	197a/10
40MF 6x5x13 PLC(2),(3) & (4)	-	-	330	2600	8000	8.7	12.1	197a/10
40MF 6x5x13 PLC(2),(3) & (4)	-	-	250	2600	7500	303	6.9	197a/10
40MF 5x4x11.5 LPC(2),(3) & (4)	Direct Coupled End Suction	125/100	292	2900	5750	7.9	10.9	197a/11
40MF 5x4x11.5 LPC(2),(3) & (4)	-	-	241	2900	5100	4.5	7.4	197a/11
40MF 5x4x11.5 LPC(2),(3) & (4)	-	-	292	2600	5850	5.4	8.8	197a/11
40MF 5x4x11.5 LPC(2),(3) & (4)	-	-	241	2600	4825	303	5.9	197a/11

Grundfos Holding A/S

Poul Due Jensens Vej 7, Bjerringbro, 8850, Denmark

Tel: +45 87 50 14 00

E-mail: info@grundfos.com • Website: www.grundfos.com

Certificate No: 510a to LPS 1131: Issue 1.2

Fire Pump

Product Name	Minimum Bypass Flow Rate (l/min)	Suction Inlet Diameter / Discharge Outlet Diameter (mm)	Impeller Diameter (mm)	Rated Speed Rev/min	Rated Flow (L/min) (at NPSH req. ≤ 5.38m)	Rated Head (bar)(at NPSH req. ≤ 5.38m)	Closed Valve Head (bar)	LPCB Ref. No.
NKF 80-200	30	100/80	222	2950	3417	4.9	6.2	510a/01
NKF 80-200	-	-	185	-	3250	2.9	4.2	510a/01
NBF 80-200	30	100/80	222	2950	3417	4.9	6.2	510a/02
NBF 80-200	-	-	185	-	3250	2.9	4.2	510a/02
NKF 80-250	30	100/80	227	2950	3330	5.1	6.5	510a/03
NKF 65-160	30	80/65	177	2950	2466	2.5	4.1	510a/05
NKF 65-160	-	-	137	-	2050	1.1	2.3	510a/05
NBF 65-160	30	80/65	177	2950	2466	2.5	4.1	510a/06
NBF 65-160	-	-	137	-	2050	1.1	2.3	510a/06
NKF 65-200	30	80/65	219	2950	2633	4.3	6.3	510a/07
NKF 65-200	-	-	180	-	2233	2.2	4.1	510a/07
NBF 65-200	30	80/65	219	2950	2633	4.3	6.3	510a/08
NBF 65-200	-	-	180	-	2233	2.2	4.1	510a/08
NKF 125-315	30	125/315	289.5	2990	7233 at 5.0m	8.1	11.4	510a/09
NKF 125-250	30	150/125	269	2990	6917	9.9	10.2	510a/10
NKF 125-250	-	-	226	-	-	5.4	6.6	510a/10
NKF 125-250.1	30	150/125	263	2990	6450	8.5	9.3	510a/11
NKF 125-250.1	-	-	238.5	-	-	6.2	7.4	510a/11
NKF 100-200	30	125/100	219	2990	5300	5.8	6.9	510a/12
NKF 100-200	-	-	209	-	-	3.9	6.1	510a/12
NBF 50-125	1.67	65/50	144	2960	1983	1.6	2.7	510a/13
NBF 50-160	2.92	65/50	177	2960	1783	3.5	4.2	510a/14
NBF 50-200	3.62	65/50	210.5	2960	1167	4.5	5.9	510a/15

FIRE PUMPS

NAFFCO FZ Co

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Certificate No: 463u to LPS 1131: Issue 1.2

Fire Pumps

Product Name	Minimum Bypass Flow Rate (l/min)	Suction Inlet Diameter / Discharge Outlet Diameter (mm)	Impeller Diameter (mm)	Rated Speed (Rev/min)	Rated Flow (L/min) (at NPSH req.≤?) 5.38m	Rated Head (bar) (at NPSH req.≤?) 5.38m	Closed Valve Head (bar)	Maximum Working Pressure (bar)	LPCB Ref. No.
NL-E-40-26C	9	65/40	214*	2900	1087	4.68	6.25	9.6	463u/01
NL-E-40-26C	9	65/40	239*	2900	1098	6.18	7.89	9.6	463u/01
NL-E-40-26C	9	65/40	264*	2900	1155	7.24	9.65	9.6	463u/01
NL-E-65-26C	23	80/65	214*	2900	1958	4.22	6.24	10.5	463u/02
NL-E-65-26C	23	80/65	239*	2900	1973	5.47	7.73	10.5	463u/02
NL-E-65-26C	23	80/65	264*	2900	1979	7.82	9.52	10.5	463u/02
NL-E-80-26C	28	100/80	214*	2900	2116	4.97	6.35	10	463u/03
NL-E-80-26C	28	100/80	239*	2900	2225	7.43	8.22	10	463u/03
NL-E-80-26C	28	100/80	264*	2900	2164	9.43	10.07	10	463u/03
NL-E-100-34C	52	125/100	274*	2900	3085	8.05	9.28	15.5	463u/04
NL-E-100-34C	52	125/100	308*	2900	3184	10.44	11.81	15.5	463u/04
NL-E-100-34C	52	125/100	342*	2900	3393	13.04	14.6	15.5	463u/04
NL-E-100-32B	34	125/100	285*	1450	2788	1.73	2.78	4.0	463u/05
NL-E-100-32B	34	125/100	315*	1450	2849	2.1	3.34	4.0	463u/05
NL-E-100-32B	34	125/100	329*	1450	2882	2.58	3.71	4.0	463u/05
NL-E-40-25T	15	65/40	208*	2900	1044	3.46	5.55	9.2	463u/06
NL-E-40-25T	15	65/40	234*	2900	1102	4.8	7.18	9.2	463u/06
NL-E-40-25T	15	65/40	260*	2900	1135	6.18	9.25	9.2	463u/06
NL-E-50-25T	21	65/50	208*	2900	1134	4.62	5.5	9	463u/07
NL-E-50-25T	21	65/50	234*	2900	1284	6.21	7.24	9	463u/07
NL-E-50-25T	21	65/50	260*	2900	1299	7.85	9.05	9	463u/07
NL-E-65-25T	31	80/65	208*	2900	1776	3.47	5.31	9.9	463u/08
NL-E-65-25T	31	80/65	234*	2900	1803	5.08	7.03	9.9	463u/08
NL-E-65-25T	31	80/65	260*	2900	1828	6.62	9.13	9.9	463u/08
NL-E-100-25T	60	125/100	215*	2900	2902	3.97	5.76	10.7	463u/09
NL-E-100-25T	60	125/100	242*	2900	2944	5.79	7.76	10.7	463u/09
NL-E-100-25T	60	125/100	269*	2900	3040	7.2	9.73	10.7	463u/09
NL-E-65-32B	34	80/65	280*	2900	1782	7.96	10.5	16.5	463u/10
NL-E-65-32B	34	80/65	290*	2900	1815	9.19	11.2	16.5	463u/10
NL-E-65-32B	34	80/65	329*	2900	1896	13.34	15.2	16.5	463u/10
NL-E-80-26B	32	100/80	235*	2900	2374	5.47	7.77	10.5	463u/11
NL-E-80-26B	32	100/80	255*	2900	2426	7.65	8.91	10.5	463u/11
NL-E-80-26B	32	100/80	264*	2900	2471	7.97	9.58	10.5	463u/11
NL-E-250-50B	68	300/250	460*	1450	15216	6.56	7.06	9.4	463u/12
NL-E-250-50B	68	300/250	480*	1450	16043	7.14	7.82	9.4	463u/12
NL-E-250-50B	68	300/250	500*	1450	16602	7.63	8.52	9.4	463u/12
NL-E-65-32B	16	80/65	280*	1450	1419	1.47	2.66	7.3	463u/13
NL-E-65-32B	16	80/65	290*	1450	1488	1.6	2.86	7.3	463u/13
NL-E-65-32B	16	80/65	329*	1450	1921	1.61	3.85	7.3	463u/13

Patterson Pump Ireland Limited

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Certificate No: 436a to LPS 1131: Issue 1.2

Long coupled end suction fire pumps

Product Name	Type	Suction Inlet Diameter / Discharge Outlet Diameter (mm)	Impeller Diameter (mm)	Rated Speed (rev/min)	Rated Flow (L/min) (at NPSH req. £ 5.38m)	Rated Head (bar) (at NPSH req. £ 5.38m)	Closed Valve Head (bar)	LPCB Ref. No.
4 x 3 VIP	Vertical in-line close coupled	100/75	216	2950	2000	4.5	6.5	436a/01
4 x 3 VIP	-	-	178	2950	1850	2	4.2	436a/01
5 x 3 VIP	Vertical in-line close coupled	125/75	222	2950	3300	4.2	6.8	436a/02
5 x 3 VIP	-	-	162	2950	2700	1.3	3.3	436a/02

FIRE PUMPS

5 x 4 MAC	Horizontal split case	125/100	219	2950	4810	4.9	6.6	436a/03
5 x 4 MAC	-	-	159	2950	4475	1.4	3.4	436a/03
5 x 4 MAC	-	-	219	3000	4850	5.1	6.8	436a/03
5 x 4 MAC	-	-	159	3000	4400	1.6	3.6	436a/03
5 x 4 MAC	-	-	219	3300	4500	6.9	8.2	436a/03
5 x 4 MAC	-	-	197	3300	4500	4.9	6.6	436a/03
4 x 3 ME	Horizontal split case	100/75	394	1750	3325	5.5	7.5	436a/04
4 x 3 ME	-	-	270	3300	3225	1.7	3.5	436a/04
5 x 4 M	Horizontal split case	125/100	314	1750	4000	3.3	4.7	436a/05
5 x 4 M	-	-	270	1750	4100	1.9	3.4	436a/05
6 x 5 MAA	Horizontal split case	150/125	257	2950	5075	4.3	9	436a/06
6 x 5 MAA	-	-	184	2950	4000	1.5	4.7	436a/06
6 x 5 MAA	-	-	257	3000	5050	4.3	9.3	436a/06
6 x 5 MAA	-	-	184	3000	4100	1.5	4.9	436a/06
6 x 5 MAA	-	-	257	3300	5150	6.7	11.2	436a/06
6 x 5 MAA	-	-	206	3300	5000	2.5	7.2	436a/06
8 x 6 MI	Horizontal split case	200/150	406	1750	9400	5.6	8.1	436a/07
8 x 6 MI	-	-	327	1750	8775	2.1	5.1	436a/07
8 x 6 MI	-	-	406	2100	9100	9.4	11.5	436a/07
8 x 6 MI	-	-	338	2100	10100	4.5	7.9	436a/07
10 x 8 M	Horizontal split case	250/200	457	1470	13000	5.4	7.4	436a/08
10 x 8 M	-	-	400	1470	12300	2.7	5.6	436a/08
10 x 8 M	-	-	457	1750	13200	8.6	10.5	436a/08
10 x 8 M	-	-	356	1750	11000	3.6	6.1	436a/08
5x4x10 VES	End suction long coupled	125/100	259	2950	4900	7.9	9.3	436a/09
5x4x10 VES	-	-	215	2950	4800	3.5	5.9	436a/09
5x4x10 VES	-	-	259	2800	4950	7.1	8.3	436a/09
5x4x10 VES	-	-	215	2800	4750	2.9	5.3	436a/09
5x4x10 VES	-	-	259	2600	4750	5.7	7.2	436a/09
5x4x10 VES	-	-	215	2600	4550	2.3	4.6	436a/09
5x4x10 VES	-	-	259	2400	4350	5	6.1	436a/09
5x4x10 VES	-	-	215	2400	4000	2.3	3.9	436a/09
5x4x10 VES	-	-	259	2200	4550	3.9	5.1	436a/09
5x4x10 VES	-	-	215	2200	3800	1.7	3.3	436a/09
5x3x13 VES (2)	End suction long coupled	125/75	318.5	2950	4000	10	13.3	436a/010
5x3x13 VES (2)	-	-	260	2950	3675	4.5	8.7	436a/010
5x3x13 VES (2)	-	-	318.5	2800	3950	8.7	12.0	436a/010
5x3x13 VES (2)	-	-	260	2800	3530	3.9	7.9	436a/010
5x3x13 VES (2)	-	-	318.5	2600	3900	7	10.3	436a/010
5x3x13 VES (2)	-	-	260	2600	3350	3	6.8	436a/010
5x3x13 VES (2)	-	-	318.5	2400	3475	6.2	8.8	436a/010
5x3x13 VES (2)	-	-	260	2400	3075	3	5.5	436a/010
5x3x13 VES (2)	-	-	318.5	2200	3640	4.2	7.4	436a/010
5x3x13 VES (2)	-	-	260	2200	2900	2.3	4.9	436a/010
6x5x11 VES (3)	End suction long coupled	150/125	290	2900	6600	9.6	10.7	436a/011
6x5x11 VES (3)	-	-	250	2900	6300	5.9	7.8	436a/011
6x5x11 VES (3)	-	-	290	2800	6500	8.8	9.9	436a/011
6x5x11 VES (3)	-	-	250	2800	6500	5.3	7.3	436a/011
6x5x11 VES (3)	-	-	310	2600	6550	8.8	9.9	436a/011
6x5x11 VES (3)	-	-	250	2600	6700	3.9	6.2	436a/011
6x5x11 VES (3)	-	-	330	2400	6050	9.4	10.0	436a/011
6x5x11 VES (3)	-	-	250	2400	6000	3.6	5.3	436a/011
6x5x11 VES	-	-	330	2200	5900	7.7	8.5	436a/011

FIRE PUMPS

(3)								
6x5x11 VES (3)	-	-	250	2200	6150	2.5	4.4	436a/011
10x8x17SSC (4)	Horizontal split case	250/200	406*	2100	12200	8.9	12.2(1)	436a/012
10x8x17SSC (4)	-	-	349*	2100	12200	5.3	9.1	436a/012
10x8x17SSC (4)	-	-	422*	1750	12200	6.7	9.3	436a/012
10x8x17SSC (4)	-	-	349*	1750	11800	2.6	6.3	436a/012
10x8x17SSC (4)	-	-	422*	1475	12800	3.2	6.6	436a/012
10x8x17SSC (4)	-	-	349*	1475	9900	2	4.5	436a/012
10x8x17SSC (4)	-	-	422*	1750)*	12200	6.7	9.3	436a/012
10x8x17SSC (4)	-	-	349	1475*	9900	2	4.5	436a/012
8x6YR (3)	Horizontal split case	200/150	300	2950	7700	8.2	12.1	436a/13
8x6YR (3)	-	-	263	2950	7675	4.9	9.5	436a/13
8x6YS (3)	-	-	384	2100	12500	8	11.0	436a/014
8x6YS (3)	-	-	340	2100	11500	5.2	8.5	436a/014

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Certificate No: 111b to LPS 1131

Fire Pump

Product Name	Type	Suction Inlet Diameter/Discharge Outlet Diameter(mm)	Impeller Diameter(mm)	Rated Speed (rev/min)	Rated Flow (L/min) (at NPSHreq. = 5.38m)	Rated Head(bar) (at NPSHreq. = 5.38m)	Closed Valve Head(bar)	LPCB Ref. No.
TD20D Thru-stream (2),(5)	Horizontal split case	250/200	340	2950	13600	10.8	15.7(1)	111b/01
TD20D Thru-stream (2),(5)	-	-	275*	2950	12000	7.6	10.3(1)	111b/01
TD20D Thru-stream (2),(5)	-	-	273*	2950	11600	7.4	10	111b/01
TD20D Thru-stream (2),(5)	-	-	245*	2950	8500	6	8	111b/01
TD20D Thru-stream (2),(5)	-	-	340	2950*	13600	10.8	15.7(1)	111b/01
TD20D Thru-stream (2),(5)	-	-	340	2400*	13500	6	10.3(1)	111b/01
TD20D Thru-stream (2),(5)	-	-	340	2200*	13300	4.4	8.8	111b/01
TD20E Thru-stream (2),(5)	Horizontal split case	250/200	290*	2950	13300	6.7	11.3(1)	111b/02
TD20E Thru-stream (2),(5)	-	-	273*	2950	13300	5.7	10	111b/02
TD20E Thru-stream (2),(5)	-	-	240*	2950	10800	4.9	7.7	111b/02
TD20E Thru-stream (2),(5)	-	-	290	2950*	13300	6.7	11.3(1)	111b/02
TD20E Thru-stream (2),(5)	-	-	290	2800*	13800	5.3	10.2	111b/02
TD20E Thru-stream (2),(5)	-	-	290	2200*	12700	2	6.3	111b/02
TD15F	Horizontal split	200/150	325*	2950	9600	7.9	13.3(1)	111b/03

FIRE PUMPS

Thru-stream (3),(5)	case							
TD15F Thru-stream (3),(5)	-	-	282*	2950	9600	5.4	10	111b/03
TD15F Thru-stream (3),(5)	-	-	275*	2950	9600	5.1	9.5	111b/03
TD15F Thru-stream (3),(5)	-	-	245*	2950	9600	3.9	7.5	111b/03
TD15F Thru-stream (3),(5)	-	-	325	2950*	9600	7.9	13.3(1)	111b/03
TD15F Thru-stream (3),(5)	-	-	325	2550*	9600	5	10	111b/03
TD15F Thru-stream (3),(5)	-	-	325	2200*	9600	2.7	7.3	111b/03
TD15A Thru-stream (3),(5)	Horizontal split case	200/150	325*	2950	7300	12.8	14.4(1)	111b/04
TD15A Thru-stream (3),(5)	-	-	270*	2950	7300	8.5	9.9	111b/04
TD15A Thru-stream (3),(5)	-	-	240*	2950	7300	5.9	7.7	111b/04
TD15A Thru-stream (3),(5)	-	-	270	2950*	7300	8.5	9.8	111b/04
TD15A Thru-stream (3),(5)	-	-	270	2400*	8650	4.3	6.4	111b/04
TD15A Thru-stream (3),(5)	-	-	325	2950*	7300	12.8	14.4(1)	111b/04
TD15A Thru-stream (3),(5)	-	-	325	2450*	8200	7.7	10.2	111b/04
TD15A Thru-stream (3),(5)	-	-	325	2200*	8700	6	8.2	111b/04
KP12X Unistream (5)	Direct coupled end suction	150/125	264*	2950	6800	8.5	10.4(1)	111b/05
KP12X Unistream (5)	-	-	200*	2950	6650	2.4	5.4	111b/05
KP12X Unistream (5)	-	-	264	2950*	6800	8.5	10.4(1)	111b/05
KP12X Unistream (5)	-	-	264	2200*	5700	4.7	5.8	111b/05
KP10X Unistream (5)	Direct coupled end suction	125/100	264*	2950	5500	7.6	9.8	111b/06
KP10X Unistream (5)	-	-	195*	2950	4200	3.6	5.3	111b/06
KP10X Unistream (5)	-	-	264	2950*	5500	7.6	9.8	111b/06
KP10X Unistream (5)	-	-	264	2200*	5500	3	5.7	111b/06
KP15Y Unistream (5)	Direct coupled end suction	200/150	272*	2950	7800	7.8	9.8	111b/07
KP15Y Unistream (5)	-	-	239*	2950	7600	5.2	7.7	111b/07
KP15Y Unistream (5)	-	-	272	2950*	7800	7.8	9.8	111b/07
KP15Y Unistream (5)	-	-	272	2200*	8200	3.2	5.6	111b/07
KP15Y Unistream (5)	-	-	310*	2600	8600	8.6	10.5	111b/07
KP15Y Unistream (5)	-	-	239*	2600	7800	3.2	5.9	111b/07
KP15Y Unistream (5)	-	-	310	2600*	8600	8.6	10.5	111b/07
KP15Y Unistream (5)	-	-	310	2000*	7350	4.7	6.2	111b/07
KP08Y Unistream (4), (5)	Direct coupled end suction	100/80	329*	2950	3600	13.2	15.2(1)	111b/08
KP08Y Unistream (4), (5)	-	-	270*	2950	3500	7	10	111b/08

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KP08Y Unistream (4), (5)	-	-	255*	2950	3450	5.6	8.8	111b/08
KP08Y Unistream (4), (5)	-	-	329	2950*	3600	13.2	15.2(1)	111b/08
KP08Y Unistream (4), (5)	-	-	329	2400*	3650	7	10	111b/08
KP08Y Unistream (4), (5)	-	-	329	2200*	3650	5	8.3	111b/08
KP08V Unistream (5)	Direct coupled end suction	100/80	214	2920	2700	2.4	5.6	111b/09
KP08V Unistream (5)	-	-	165	2920	2340	1.6	3.3	111b/09
KP06C Unistream (5)	Direct coupled end suction	80/65	174	2900	2590	2.3	4.3	111b/10
KP06C Unistream (5)	-	-	125	2900	1790	0.6	2	111b/10
KP05D Unistream (5)	Direct coupled end suction	65/50	214	2900	1380	3.3	6.3	111b/11
KP05D Unistream (5)	-	-	165	2900	1090	1.6	3.7	111b/11
KP06D Unistream (5)	Direct coupled end suction	80/65	214*	2950	2580	5	6.6	111b/12
KP06D Unistream (5)	-	-	165*	2950	2250	2.3	3.8	111b/12
KP06D Unistream (5)	-	-	214	2950*	2580	5	6.6	111b/12
KP06D Unistream (5)	-	-	214*	2200*	2550	1.7	3.6	111b/12
KP08D Unistream (5)	Direct coupled end suction	100/80	214*	2950	3400	4.8	6.5	111b/13
KP08D Unistream (5)	-	-	165*	2950	2820	2.4	3.8	111b/13
KP08D Unistream (5)	-	-	214	2950*	3400	4.8	6.5	111b/13
KP08D Unistream (5)	-	-	214	2200*	3300	1.8	3.7	111b/13
KM10E Eurostream(5)	Close coupled end suction	125/100	264	2950	5500	7.6	9.8	111b/14
KM10E Eurostream(5)	-	-	195	2950	4200	3.6	5.3	111b/14
KM08V Eurostream(5)	Close coupled end suction	100/80	214	2920	2700	2.4	5.6	111b/15
KM08V Eurostream(5)	-	-	165	2920	2340	1.6	3.3	111b/15
KM06C Eurostream (5)	Close coupled end suction	80/65	174	2900	2590	2.3	4.3	111b/16
KM06C Eurostream (5)	-	-	125	2900	1790	0.6	2	111b/16
KM05D Eurostream (5)	Close coupled end suction	65/50	214	2900	1380	3.3	6.3	111b/17
KM05D Eurostream (5)	-	-	165	2900	1090	1.6	3.7	111b/17
KM06D Eurostream (5)	Close coupled end suction	80/65	214	2950	2580	5	6.6	111b/18
KM06D Eurostream (5)	-	-	165	2950	2250	2.3	3.8	111b/18
KM08D Eurostream (5)	Close coupled end suction	100/80	214	2950	3400	4.8	6.5	111b/19
KM08D Eurostream (5)	-	-	165	2950	2820	2.4	3.8	111b/19
AV03N Unistream (5)	Close coupled end suction	100/80	174	2900	2540	1.3	3.8	111b/20
AV03N Unistream (5)	-	-	135	2900	1840	1	2.3	111b/20
AV03P Eurostream (5)	Close coupled end suction	100/80	174	2900	2540	1.3	3.8	111b/21
AV03P Eurostream (5)	-	-	135	2900	1840	1	2.3	111b/21
KP10Y Unistream (5)	Direct coupled end suction	150/100	264*	2950	7680	5.2	9.7	111b/23
KP10Y Unistream (5)	-	-	210*	2950	5100	4.2	6	111b/23
KP10Y Unistream (5)	-	-	264	2950*	7680	5.2	9.7	111b/23
KP10Y Unistream (5)	-	-	264	2200*	6480	2	5.4	111b/23
KM08E	Close coupled	100/80	264*	2950	2800	9.5	10	111b/24

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Eurostream (5) Eurostream (5)	end suction	-	205*	2950	2800	4.2	5.9	111b/24
KP08E Unistream (5)	Direct coupled end suction	100/80	264*	2950	2800	9.5	10	111b/25
KP08E Unistream (5)	-	-	205*	2950	2800	4.2	5.9	111b/25
KP08E Unistream (5)	-	-	264*	2600	3150	6.6	7.8	111b/25
KP08E Unistream (5)	-	-	205*	2600	2750	2.8	4.6	111b/25
KP08E Unistream (5)	-	-	264	2950*	2800	9.5	10	111b/25
KP08E Unistream (5)	-	-	264	2200*	3200	3.8	5.5	111b/25
KP12Z Unistream (5), (6)	Direct coupled end suction	150/125	329*	2600	6500	10.6	12.1	111b/26
KP12Z Unistream (5), (6)	-	-	255*	2600	6000	5	6.9	111b/26
KP12Z Unistream (5), (6)	-	-	329	2600*	6500	10.6	12.1	111b/26
KP12Z Unistream (5), (6)	-	-	329	2000*	6350	5.4	7.1	111b/26
KP15Y Unistream (5)	Direct coupled end suction	200/150	272*	2950	7800	7.8	9.8	111b/27
KP15Y Unistream (5)	-	-	239*	2950	7600	5.2	7.7	111b/27
KP15Y Unistream (5)	-	-	272	2950*	7800	7.8	9.8	111b/27
KP15Y Unistream (5)	-	-	272	2200*	8200	3.2	5.6	111b/27
KP15Y Unistream (5)	-	-	310*	2600	8600	8.6	10.5	111b/27
KP15Y Unistream (5)	-	-	239*	2600	7800	3.2	5.9	111b/27
KP15Y Unistream (5)	-	-	310	2600*	8600	8.6	10.5	111b/27
KP15Y Unistream (5)	-	-	310	2000*	7350	4.7	6.2	111b/27
TF20A Thru-stream (6)	Horizontal split case	250/200	480	1760	13170 at 5.0m	10.8	12.0	111b/29
TF20A Thru-stream (6)	-	-	480	1760	13540 at 5.38m	10.7	12.0	111b/29
TF20A Thru-stream (6)	-	-	370	1760	12540 at 5.0m	5.7	7.3	111b/29
TF20A Thru-stream (6)	-	-	370	1760	12900 at 5.38m	5.6	7.3	111b/29

FLEXIBLE DROPS

This section lists products approved in accordance with:

- LPS 1261 *Flexible sprinkler connectors*.

This Standard describes tests for the assessment of the suitability of metallic flexible sprinkler connectors to be used to connect single sprinklers to range pipes in automatic sprinkler systems.

Approved products are for use with pendant sprinklers with a maximum K-factor of 80 and a maximum operating temperature of 141 °C.

These products should be used in conjunction with an appropriate Automatic Sprinkler System installation code, such as the LPC Sprinkler Rules for Automatic Sprinkler Installations. Some installation codes may require these products to be supported, braided, used in conjunction with radius indicating equipment or may prohibit the use of these products by a maximum length or from use at all irrespective of length.

A wide range of flexible drop pipe lengths are available in these listings. The end users should ensure the selection of appropriate product with due regard to the installation codes and rules applicable to the territories in which these products are being installed.

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Certificate No: 566Aa to LPS 1261: Issue 1.2

Dong-A Flexible Sprinkler Connectors

Product Name	Length (mm)	Nominal Size/Connection Supply	Nominal Size/Connection OutletSize/Connection	Maximum Working Pressure (bar)	LPCB Ref. No.
DA-SP-1_S	700	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
DA-SP-1	780	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
DA-SP-2_S	1,000	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
DA-SP-2	1,220	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
DA-SP-3	1,540	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
DA-SP-4	1,880	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
DA-SP-5	2,540	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
DA-SP-6	3,220	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
DA-SPN-1_S	700	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
DA-SPN-1	780	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	RRc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
DA-SPN-2_S	1,000	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
DA-SPN-2	1,220	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
DA-SPN-3	1,540	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External threadExternal thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
DA-SPN-4	1,880	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
DA-SPN-5	2,540	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
DA-SPN-6	3,220	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
DA-SPW-1_S	700	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03
DA-SPW-1_S	780	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03
DA-SPW-2_S	1,000	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03
DA-SPW-2	1,220	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03
DA-SPW-3	1,540	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03

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DA-SPW-4	1,880	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03
DA-SPW-5	2,540	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03
DA-SPW-6	3,220	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03

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Certificate No: 1735a to LPS 1261: Issue 03 draft

'MECH' (Braided) Flexible Sprinkler Connectors

Product Name	Length (mm)	Nominal Size/Connection Supply	Nominal Size/Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
FBC2-700	700	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	1735a/01
FBC2-790	790	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	1735a/01
FBC2-915	915	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	1735a/01
FBC2-1000	1000	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	1735a/01
FBC2-1200	1200	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	1735a/01
FBC2-1500	1500	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	1735a/01
FBC2-1800	1800	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	1735a/01

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Certificate No: 566a to LPS 1261: Issue 1.2

Rapidrop SP, SPN & SPW Flexible Sprinkler Connectors

Product Name	Length(mm)	NominalSize/ConnectionSupply	NominalSize/ConnectionOutlet	Maximum WorkingPressure(bar)	LPCB Ref. No.
SPN-1_S	700	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
SPN-1	780	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
SPN-2_S	1,000	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
SPN-2	1,220	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
SPN-3	1,540	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
SPN-4	1,880	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
SPN-5	2,540	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
SPN-6	3,220	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/02
SPW-1_S	700	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03
SPW-1	780	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03
SPW-2_S	1,000	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03
SPW-2	1,220	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03
SPW-3	1,540	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03
SPW-4	1,880	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03

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SPW-5	2,540	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03
SP-1_S	700	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
SP-1	780	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
SP-2	1,220	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
SP-2_S	1,000	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
SP-3	1,540	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
SP-4	1,880	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
SP-5	2,540	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
SP-6	3,220	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/01
SPW-6	3,220	R1 (1"BSPT), 1"NPT, R1¼ (1¼"BSPT), 1¼"NPT External thread	Rc½"BSPT, ½"NPT, Rc¾"BSPT, ¾"NPT Internal thread	16	566a/03

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Rapidrop RD-SMB (Braided) Flexible Sprinkler Connectors

Product Name	Length (mm)	Nominal Size/Connection Supply	Nominal Size/Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
RD-SMB-01	780	1" BSPT / NPT, 1¼" BSPT / NPT External thread	½" BSPT / NPT, ¾" BSPT / NPT Internal thread	16	566i/01
RD-SMB-02	1000	1" BSPT / NPT, 1¼" BSPT / NPT External thread	½" BSPT / NPT, ¾" BSPT / NPT Internal thread	16	566i/01
RD-SMB-03	1220	1" BSPT / NPT, 1¼" BSPT / NPT External thread	½" BSPT, / NPT, ¾" BSPT / NPT Internal thread	16	566i/01
RD-SMB-04	1540	1" BSPT / NPT, 1¼" BSPT / NPT External thread	½" BSPT, / NPT, ¾" BSPT / NPT Internal thread	16	566i/01
RD-SMB-05	1830	1" BSPT / NPT, 1¼" BSPT / NPT External thread	½" BSPT, / NPT, ¾" BSPT / NPT Internal thread	16	566i/01

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Certificate No: 140d to LPS 1261

RASCOFLEX 28mm Braided & Unbraided Flexible Sprinkler Hose

Product Name	Length (mm)	Nominal Size / Connection Supply	Nominal Size / Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
RF070U	700	1" BSPT/NPT external thread 1¼" BSPT/NPT external thread	½" BSPT/NPT internal thread ¾" BSPT/NPT internal thread	14	140d/01
RF100U	1000	1" BSPT/NPT external thread 1¼" BSPT/NPT external thread	½" BSPT/NPT internal thread ¾" BSPT/NPT internal thread	14	140d/01
RF120U	1200	1" BSPT/NPT external thread 1¼" BSPT/NPT external thread	½" BSPT/NPT internal thread ¾" BSPT/NPT internal thread	14	140d/01
RF150U	1500	1" BSPT/NPT external thread 1¼" BSPT/NPT external thread	½" BSPT/NPT internal thread ¾" BSPT/NPT internal thread	14	140d/01
RF180U	1800	1" BSPT/NPT external thread 1¼" BSPT/NPT external thread	½" BSPT/NPT internal thread ¾" BSPT/NPT internal thread	14	140d/01
RF070B	700	1" BSPT/NPT external thread 1¼" BSPT/NPT external thread	½" BSPT/NPT internal thread ¾" BSPT/NPT internal thread	14	140d/02
RF100B	1000	1" BSPT/NPT external thread 1¼" BSPT/NPT external thread	½" BSPT/NPT internal thread ¾" BSPT/NPT internal thread	14	140d/02
RF120B	1200	1" BSPT/NPT external thread 1¼" BSPT/NPT external thread	½" BSPT/NPT internal thread ¾" BSPT/NPT internal thread	14	140d/02
RF150B	1500	1" BSPT/NPT external thread 1¼" BSPT/NPT external thread	½" BSPT/NPT internal thread ¾" BSPT/NPT internal thread	14	140d/02
RF180B	1800	1" BSPT/NPT external thread 1¼" BSPT/NPT external thread	½" BSPT/NPT internal thread ¾" BSPT/NPT internal thread	14	140d/02

FLEXIBLE DROPS

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FLEXONE SJ27B (Braided) & SJ27N (Unbraided) Flexible Sprinkler Connectors

Product Name	Length (mm)	Nominal Size/Connection Supply	Nominal Size/Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
FLEXONE SJ27B-T700	700	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468a/01
FLEXONE SJ27B-T1000	1000	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468a/01
FLEXONE SJ27B-T1200	1200	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468a/01
FLEXONE SJ27B-T1500	1500	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468a/01
FLEXONE SJ27B-T1800	1800	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468a/01
FLEXONE SJ27N-T700	700	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468a/02
FLEXONE SJ27N-T1000	1000	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468a/02
FLEXONE SJ27N-T1200	1200	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468a/02
FLEXONE SJ27N-T1500	1500	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468a/02
FLEXONE SJ27N-T1800	1800	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468a/02

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SHIELD SDF-B (Braided) & SDF-N (Unbraided) Flexible Sprinkler Connectors

Product Name	Length (mm)	Nominal Size/Connection Supply	Nominal Size/Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
SHIELD SDF-B700	700	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/01
SHIELD SDF-B1000	1000	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/01
SHIELD SDF-B1200	1200	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/01
SHIELD SDF-B1500	1500	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/01
SHIELD SDF-B1800	1800	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/01
SHIELD SDF-N700	700	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/02
SHIELD SDF-N1000	1000	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/02
SHIELD SDF-N1200	1200	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/02
SHIELD SDF-N1500	1500	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/02
SHIELD SDF-N1800	1800	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	1468Aa/02

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VK27B (Braided)-and VK27N (Unbraided) Flexible Sprinkler Connectors

Product Name	Length (mm)	Nominal Size/Connection Supply	Nominal Size/Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
FIREKING VK27N-T700	700	1" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	096k/01
FIREKING VK27N-T1000	1000	1" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	096k/01
FIREKING VK27N-T1200	1200	1" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	096k/01
FIREKING VK27N-T1500	1500	1" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	096k/01
FIREKING VK27N-T1800	1800	1" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	096k/01
FIREKING VK27B-T700	700	1" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	096k/02
FIREKING VK27B-T1000	1000	1" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	096k/02
FIREKING VK27B-T1200	1200	1" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	096k/02
FIREKING VK27B-T1500	1500	1" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	096k/02
FIREKING VK27B-T1800	1800	1" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	14	096k/02

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FASTFLEX YN (Unbraided) Flexible Sprinkler Connectors

Product Name	Length(mm)	Nominal Size/ConnectionSupply	Nominal Size/ConnectionOutlet	MaximumWorkingPressure(bar)	LPCB Ref. No.
YN25-700	700	R1 (1"BSPT or 1"NPT) or R1.1/4 (1.1/4"BSPT) External thread	Rc1/2 or Rc3/4 (BSPT or NPT) Internal thread	16	169a/01
YN25-1000	1000	R1 (1"BSPT or 1"NPT) or R1.1/4 (1.1/4"BSPT) External thread	Rc1/2 or Rc3/4 (BSPT or NPT) Internal thread	16	169a/01
YN25-1200	1200	R1 (1"BSPT or 1"NPT) or R1.1/4 (1.1/4"BSPT) External thread	Rc1/2 or Rc3/4 (BSPT or NPT) Internal thread	16	169a/01
YN25-1500	1500	R1 (1"BSPT or 1"NPT) or R1.1/4 (1.1/4"BSPT) External thread	Rc1/2 or Rc3/4 (BSPT or NPT) Internal thread	16	169a/01
YN25-1800	1800	R1 (1"BSPT or 1"NPT) or R1.1/4 (1.1/4"BSPT) External thread	Rc1/2 or Rc3/4 (BSPT or NPT) Internal thread	16	169a/01

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Victaulic VicFlex AH2 (Braided) Flexible Sprinkler Connectors

Product Name	Length (mm)	Nominal Size/Connection Supply	Nominal Size/Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
AH2-31	790	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/01
AH2-36	915	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/01
AH2-48	1220	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/01
AH2-60	1525	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/01
AH2-72	1830	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/01

FLEXIBLE DROPS

thread

thread

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Victaulic VicFlex AH1 (Braided) Flexible Sprinkler Connectors

Product Name	Length (mm)	Nominal Size/Connection Supply	Nominal Size/Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
AH1-31	790	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/02
AH1-36	910	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/02
AH1-48	1220	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/02
AH1-60	1525	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/02
AH1-72	1830	1" BSPT / NPT 1¼" BSPT / NPT External thread	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/02

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Victaulic VicFlex AH2-CC (Braided) Flexible Sprinkler Connectors

Product Name	Length (mm)	Nominal Size/Connection Supply	Nominal Size/Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
AH2-CC-31	790	1" Grooved	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/04
AH2-CC-36	910	1" Grooved	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/04
AH2-CC-48	1220	1" Grooved	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/04
AH2-CC-60	1525	1" Grooved	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/04
AH2-CC-72	1830	1" Grooved	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/04

Certificate No: 104I to LPS 1261: Issue 1.2

Victaulic VicFlex AH1-CC (Braided) Flexible Sprinkler Connectors

Product Name	Length (mm)	Nominal Size/Connection Supply	Nominal Size/Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
AH1-CC-31	790	1" Grooved	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/03
AH1-CC-36	910	1" Grooved	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/03
AH1-CC-48	1220	1" Grooved	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/03
AH1-CC-60	1525	1" Grooved	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/03
AH1-CC-72	1830	1" Grooved	½" BSPT / NPT ¾" BSPT / NPT Internal thread	16	104I/03

Certificate No: 104r to LPS 1261: Issue 03 draft

Victaulic VicFlex AH4 (Braided) Flexible Sprinkler Connectors

Product Name	Length (mm)	Nominal Size/Connection Supply	Nominal Size/Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
AH4-31	790	1" BSPT / NPT, 1¼" BSPT / NPT, External thread	½" BSPT / NPT, ¾" BSPT / NPT, Internal thread	16	104r/01
AH4-36	915	1" BSPT / NPT, 1¼" BSPT / NPT, External thread	½" BSPT / NPT, ¾" BSPT / NPT, Internal thread	16	104r/01
AH4-48	1220	1" BSPT / NPT, 1¼" BSPT / NPT, External thread	½" BSPT / NPT, ¾" BSPT / NPT, Internal thread	16	104r/01
AH4-60	1525	1" BSPT / NPT, 1¼" BSPT / NPT, External thread	½" BSPT / NPT, ¾" BSPT / NPT, Internal thread	16	104r/01
AH4-72	1830	1" BSPT / NPT, 1¼" BSPT / NPT, External thread	½" BSPT / NPT, ¾" BSPT / NPT, Internal thread	16	104r/01

Youngjin Flex Co., Ltd.

93, Dangjaebong-ro, Jori-eup, Paju-si, Gyeonggi-do, 10949, Republic of Korea

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Certificate No: 1254a to LPS 1261: Issue 03 draft

Youngjin YJ28-S (Unbraided) & YJ28-SB (Braided) Flexible Sprinkler Connectors

Product Name	Length (mm)	Nominal Size / Connection Supply	Nominal Size / Connection Outlet	Maximum Working Pressure (bar)	LPCB Ref. No.
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FLEXIBLE DROPS

YJ28-S-700	700	1" BSPT/NPT external thread	1 1/4" BSPT/NPT external thread	1/2" BSPT/NPT internal thread	3/4" BSPT/NPT internal thread	14	1254a/01
YJ28-S-1000	1000	1" BSPT/NPT external thread	1 1/4" BSPT/NPT external thread	1/2" BSPT/NPT internal thread	3/4" BSPT/NPT internal thread	14	1254a/01
YJ28-S-1200	1200	1" BSPT/NPT external thread	1 1/4" BSPT/NPT external thread	1/2" BSPT/NPT internal thread	3/4" BSPT/NPT internal thread	14	1254a/01
YJ28-S-1500	1500	1" BSPT/NPT external thread	1 1/4" BSPT/NPT external thread	1/2" BSPT/NPT internal thread	3/4" BSPT/NPT internal thread	14	1254a/01
YJ28-S-1800	1800	1" BSPT/NPT external thread	1 1/4" BSPT/NPT external thread	1/2" BSPT/NPT internal thread	3/4" BSPT/NPT internal thread	14	1254a/01
YJ28-SB-700	700	1" BSPT/NPT external thread	1 1/4" BSPT/NPT external thread	1/2" BSPT/NPT internal thread	3/4" BSPT/NPT internal thread	14	1254a/02
YJ28-SB-1000	1000	1" BSPT/NPT external thread	1 1/4" BSPT/NPT external thread	1/2" BSPT/NPT internal thread	3/4" BSPT/NPT internal thread	14	1254a/02
YJ28-SB-1200	1200	1" BSPT/NPT external thread	1 1/4" BSPT/NPT external thread	1/2" BSPT/NPT internal thread	3/4" BSPT/NPT internal thread	14	1254a/02
YJ28-SB-1500	1500	1" BSPT/NPT external thread	1 1/4" BSPT/NPT external thread	1/2" BSPT/NPT internal thread	3/4" BSPT/NPT internal thread	14	1254a/02
YJ28-SB-1800	1800	1" BSPT/NPT external thread	1 1/4" BSPT/NPT external thread	1/2" BSPT/NPT internal thread	3/4" BSPT/NPT internal thread	14	1254a/02

FLOW SWITCH TESTING DEVICES

This section lists products approved in accordance with:

- LPCB Schedule of requirements

Flow switch testing devices for use under *LPC Rules for Automatic Sprinkler Installations* have been approved to a schedule of requirements developed by LPCB. The products shall be installed and maintained in accordance with the manufacturer's instructions.

Project Fire Products Limited

Pasturefields Lane Industrial Estate, Pasturefields Lane, Hixon, Staffordshire, ST18 0PH, United Kingdom

Tel: +44 (0)01889 271271

E-mail: info@projectfire.co.uk • Website: www.projectfireproducts.co.uk

Certificate No: 060a to An LPCB Schedule of Requirements

Flow switch automatic tester system

Product Name	LPCB Ref. No.
ZONECHECK	060a/01

Certificate No: 060c to An LPCB Schedule of Requirements

"Zonecheck" Flow switch testing devices

Product Name	Nominal Size (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Model ZC-R-25 (Zonecheck Residential)	25.4 x 25.4	T	EPDM	12	060c/07
Model ZC-R-32 (Zonecheck Residential)	32 x 25.4	T	EPDM	12	060c/07
Model ZC-R-40 (Zonecheck Residential)	40 x 25.4	T	EPDM	12	060c/07
Model LT-ZCL-65-002 (Zonecheck Live)	65 x 25.4	T	EPDM	12	060c/04
Model LT-ZCL-80-002 (Zonecheck Live)	80 x 25.4	T	EPDM	12	060c/04
Model LT-ZCL-100-002 (Zonecheck Live)	100 x 25.4	T	EPDM	12	060c/04
Model LT-ZCL-150-002 (Zonecheck Live)	150 x 25.4	T	EPDM	12	060c/04
Model LT-ZCL-SA-002 (Zonecheck Special)	65 x 25.4	T	EPDM	12	060c/05
Model LT-ZCL-SA-002 (Zonecheck Special)	80 x 25.4	T	EPDM	12	060c/05
Model LT-ZCL-SA-002 (Zonecheck Special)	100 x 25.4	T	EPDM	12	060c/05
Model LT-ZCL-SA-002 (Zonecheck Special)	150 x 25.4	T	EPDM	12	060c/05

Sale Engineering Products Ltd.

45 Lambeth Road, Reddish, Stockport, Greater Manchester, SK5 6TW, United Kingdom

Tel: +44 (0) 161 428 1180

E-mail: info@saleengineering.co.uk • Website: www.firesprinkler.co.uk

Certificate No: 1423a to A Technical Approval to an LPCB Schedule of Requirements

Sprinkler System Flow Switch Test Device

Product Name	Nominal Pipe Size (mm)	Pipe Ends	Maximum Working Pressure (bar)	LPCB Ref. No.
Zone Guardian DN50	60.3 x 60.3	T	12	1423a/01
Zone Guardian DN65	76.1 x 76.1	T	12	1423a/01
Zone Guardian DN80	88.9 x 88.9	T	12	1423a/01
Zone Guardian DN100	114.3 x 114.3	T	12	1423a/01
Zone Guardian 6"	165.1 x 165.1	T	12	1423a/01
Zone Guardian DN150	168.3 x 168.3	T	12	1423a/01

LIGHTWEIGHT PIPEWORK SYSTEMS

This section lists products approved in accordance with:

- LPCB Schedule of requirements

Lightweight Pipework Systems listed below are considered acceptable for use in installations conforming to the *LPC Rules for Automatic Sprinkler Installations*. The products shall be installed and maintained in accordance with the manufacturer's instructions.

Aalberts Integrated Piping Systems B.V.

Oude Amersfoortseweg 99, 1212 AA, Hilversum, The Netherlands

Tel: +31 35 6884 330

E-mail: info.nl@aalberts-ips.com • Website: www.vsh.eu

Certificate No: 1033a to TS1599: Issue draft 5

VSH XPress Lightweight Galvanized Steel Pipework System

Product Name	Description	Size/mm	LPCB Ref. No.
C 1461	Galvanised tube	22, 28, 35, 42, 54	1033a/01
C 1401	Straight Coupling (2 x Press)	22, 28, 35, 42, 54	1033a/02
C 1403	Slip Coupling (2 x Press)	22, 28, 35, 42, 54	1033a/03
C 1408	90° Elbow (2 x Press)	22, 28, 35, 42, 54	1033a/04
C 1411	90° Elbow (Press x plain end)	22, 28, 35, 42, 54	1033a/05
C 1413	45° Elbow (2 x Press)	22, 28, 35, 42, 54	1033a/06
C 1412	45° Elbow (Press x plain end)	22, 28, 35, 42, 54	1033a/07
C 1425	90° Bend (2 x plain end)	22, 28, 35, 42, 54	1033a/08
C 1417	Cross over (2 x plain end)	22, 28	1033a/09
C 1414	Tee equal (3 x Press)	22, 28, 35, 42, 54	1033a/10
C 1415	Tee reduced (3 x Press)	22x28x22, 28x22x28, 35x22x35, 35x28x35, 42x22x42, 42x28x42, 42x35x42, 54x22x54, 54x28x54, 54x35x54, 54x42x54	1033a/11
C 1418	Tee threaded (press x fem. thread x press)	22x1/2"x22, 22x3/4"x22, 28x1/2"x28, 28x3/4"x28, 28x1"x28, 35x1/2"x35, 35x3/4"x35, 35x1x35, 42x1/2"x42, 42x3/4"x42, 42x1"x42, 54x1/2"x54, 54x3/4"x54, 54x1"x54	1033a/12
C 1407	Reducer (Plain end x Press)	28x22, 35x22, 35x28, 42x28, 42x35, 54x35, 54x42	1033a/13
C 1439	Reducer (2 x Press)	28x22	1033a/14
C 1433	Straight connector (plain end x female thread)	22x1/2", 22x3/4"	1033a/15
C 1402	Straight connector (press x female thread)	22x1/2", 22x3/4", 28x1/2", 28x3/4", 28x1", 35x1/2", 35x3/4", 35x1", 35x1 1/4", 42x1 1/2", 54x2"	1033a/16
C 1405	Straight connector (press x male thread)	22x1/2", 22x3/4", 22x1", 28 x 3/4", 28x1", 35x1", 35x1 1/4", 42x1 1/2", 54x2"	1033a/17
C 1435	Straight union (Press x male thread)	22x3/4", 28x1", 35x1 1/4", 42x1 1/2", 54x2"	1033a/18
C 1428	90° Angle adaptor (Press x male thread)	22x3/4"	1033a/19
C 1430	90° Elbow (Press x male thread)	22x3/4", 28x1", 35x1 1/4", 42x1 1/2", 54x2",	1033a/20
C 1438	90° Elbow (Press x female thread)	22x1/2", 22x3/4", 28x1/2", 28x3/4", 28x1", 35x1/2", 35x3/4", 35x1"	1033a/21
C 1442	Transition connector (press x grooved)	28x33.7, 35x42.4, 42x48.3, 54x60.3	1033a/22
C 1429	Stop end (1 x press)	22, 28, 35, 42, 54	1033a/23
C 1443	Slip coupling (press x female thread)	22x1/2", 22x3/4", 28x1/2", 28x3/4"	1033a/24
C 1409	Angle adaptor (press x female thread)	22x1/2", 28x1/2", 35x1/2"	1033a/25
C 1444	Straight union (press x female thread)	22x3/4", 28x1", 35x1 1/4", 42x1 1/2", 54x2"	1033a/26
C 1446	Coupling with nut (press x female thread)	22, 28, 35, 42, 54	1033a/27

LIGHTWEIGHT PIPEWORK SYSTEMS

Certificate No: 1033b to TS1599: Issue draft 5

VSH XPress Lightweight Stainless Steel Pipework System

Product Name	Description	Size/mm	LPCB Ref. No.
R 2750	Stainless steel tube 1.4401	22, 28, 35, 42, 54	1033b/01
R 2701	Straight Coupling (2 x Press)	22, 28, 35, 42, 54	1033b/02
R 2703	Slip Coupling (2 x Press)	22, 28, 35, 42, 54	1033b/03
R 2708	90° Elbow (2 x Press)	22, 28, 35, 42, 54	1033b/04
R 2711	90° Elbow (Press x plain end)	22, 28, 35, 42, 54	1033b/05
R 2713	45° Elbow (2 x Press)	22, 28, 35, 42, 54	1033b/06
R 2712	45° Elbow (Press x plain end)	22, 28, 35, 42, 54	1033b/07
R 2725	90° Bend (2 x plain end)	22, 28, 35, 42, 54	1033b/08
R 2724	60° Bend (2 x plain end)	28, 35, 42, 54	1033b/09
R 2723	30° Bend (2 x plain end)	28, 35, 42, 54	1033b/10
R 2722	15° Bend (2 x plain end)	28, 35, 42, 54	1033b/11
R 2717	Cross over (2 x plain end)	22, 28	1033b/12
R 2714	Tee equal (3 x Press)	22, 28, 35, 42, 54	1033b/13
R 2715	Tee reduced (3 x Press)	28x22x28, 35x22x35, 35x28x35, 42x22x42, 42x28x42, 42x35x42, 54x22x54, 54x28x54, 54x35x54, 54x42x54	1033b/14
R 2718	Tee threaded (Press x fem. thread x Press)	22x1/2"x22, 22x3/4"x22, 28x1/2"x28, 28x3/4"x28, 28x1"x28, 35x1/2"x35, 35x3/4"x35, 35x1x35, 42x1/2"x42, 42x3/4"x42, 42x1"x42, 54x1/2"x54, 54x3/4"x54, 54x1"x54, 54x2"x54	1033b/15
R 2707	Reducer (Plain end x Press)	28x22, 35x22, 35x28, 42x28, 42x35, 54x35, 54x42	1033b/16
R 2702	Straight connector (Press x female thread)	22x1/2", 22x3/4", 22x1", 28x1/2", 28x3/4", 28x1", 28x1/4", 35x1", 35x1/4", 35x1/2", 42x1/4", 42x1/2", 54x1/2", 54x2"	1033b/17
R 2705	Straight connector (Press x male thread)	22x 1/2", 22x 3/4", 22x1", 28x3/4", 28x1", 28x1/4", 35x1", 35x1/4", 35x1/2", 42x1/4", 42x1/2", 54x1/2", 54x2"	1033b/18
R 2735	Straight union (Press x male thread)	22x1/2", 22x3/4", 22x1", 28x1", 35x1/4", 42x1/2", 54x2"	1033b/19
R 2738	Straight union (Press x female thread)	22x3/4", 22x1", 28x1", 35x1/4", 42x1/2", 54x2"	1033b/20
R 2728	90° Angle adaptor (Press x male thread)	22x3/4", 28x1", 35x1/4", 42x1/2", 54x2"	1033b/21
R 2704	Coupling with nut (press x female thread)	22, 28, 35, 42, 54	1033b/23
R 2709	90° Angle adaptor (Press x female thread)	22x1/2", 22x3/4", 28x1/2", 28x3/4", 28x1", 35x1/2", 35x3/4", 35x1", 35x1/4"	1033b/22
R 2726	Flanged connector (press x flange)	22, 28, 35, 42, 54	1033b/24
R 2748	Transition connector (press x grooved)	28x33.7, 35x42.4, 42x48.3, 54x60.3	1033b/25
R 2729	Stop end (1 x press)	22, 28, 35, 42, 54	1033b/26
R 2741	Slip coupling (press x female thread)	22x1/2", 22x3/4", 28x1/2", 28x3/4"	1033b/27
R 2736	Coupling (press x flat seal)	22x1/4", 22x1/2", 28x1/2", 35x2", 42x2 1/4", 54x2 3/4"	1033b/28
R 2752	Stainless steel tube 1.4521	22, 28, 35, 42, 54	1033b/01
R 2753	Stainless steel tube 1.4520	22, 28, 35, 42, 54	1033b/01

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Certificate No: 1031a to TS1599 v5

LIGHTWEIGHT PIPEWORK SYSTEMS

Geberit Mapress Press-Fit Lightweight Galvanized Steel Sprinkler Pipework System

Product Name	Size / mm	LPCB Ref. No.
Pipe	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031a/01
Coupling	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031a/02
Slip Coupling	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031a/03
Bend 90°	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031a/04
Bend 90° with plain end	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031a/05
Bend 45°	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031a/06
Bend 45° with plain end	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031a/07
Reducer with plain end	28x22, 35x22, 35x28, 42x28, 42x35, 54x35, 54x42, 76.1x54, 88.9x54 88.9x76.1, 108x76.1, 108x88.9	1031a/08
T-piece equal	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031a/09
T-piece reduced	28x22x28, 35x22x35, 35x28x35, 42x22x42 42x28x42, 42x35x42, 54x22x54, 54x28x54 54x35x54, 54x42x54, 76.1x22x76.1, 76.1x28x76.1 76.1x35x76.1, 76.1x42x76.1, 76.1x54x76.1, 88.9x22x88.9 88.9x28x88.9, 88.9x35x88.9, 88.9x42x88.9, 88.9x54x88.9 88.9x76.1x88.9, 108x22x108, 108x28x108, 108x35x108 108x42x108, 108x54x108, 108x76.1x108, 108x88.9x108	1031a/10
T-piece with female thread	22x1/2"x22, 22x3/4"x22, 28x1/2"x28, 28x3/4"x28, 28x1"x28, 35x1/2"x35, 35x3/4"x35, 42x1/2"x42 42x3/4"x42, 54x1/2"x54, 54x3/4"x54, 54x2"x54 76.1x3/4"x76.1, 76.1x2"x76.1, 88.9x3/4"x88.9, 88.9x2"x88.9 108x3/4"x108, 108x2"x108	1031a/11
Adaptor with male thread	22x1/2", 22x3/4", 22x1", 28x3/4", 28x1", 28x1 1/4", 35x1", 35x1 1/4", 35x1 1/2", 42x 1 1/4", 42x1 1/2", 54x1 1/2", 54x2", 76.1x2 1/2", 88.9x3"	1031a/12
Adaptor with female thread	22x3/4", 28x1/2", 28x1"	1031a/13
Adaptor with plain and welding end	15, 18, 22, 28, 35, 42, 54	1031a/14
Adaptor for groove systems	54	1031a/15
Adaptor with brass union nut	22x1", 22x 1 1/4", 22x 1 1/2", 28x1", 28x1 1/4", 28x1 1/2", 35x1 1/2", 35x2", 42x1 3/4", 42x2", 42x 2 1/4", 42x 2 3/8", 42x 2 1/2", 54x 2 1/2", 54x 2 3/4"	1031a/16
Adaptor union with male thread	22x3/4", 28x1", 35x1 1/4", 42x1 1/2", 54x2"	1031a/17
Adaptor union with female thread, nut made of stainless steel	22x3/4", 22x1", 28x1", 35x1 1/4", 42x1 1/2", 54x2"	1031a/18
Elbow adaptor 90° with male thread	22x3/4"	1031a/19
Elbow adaptor 90° with female thread	28x1/2"	1031a/20
Bend adaptor 90° with female thread	22x3/4", 28x1/2"	1031a/21
Straight union with press fittings on both ends	22, 28, 35, 42, 54	1031a/22
Flange PN 10 / 16 with pressing socket	76.1, 88.9, 108	1031a/23
Cap	22, 28, 35, 42, 54	1031a/24

Certificate No: 1031b to TS1599 v5

Geberit Mapress Press-Fit Lightweight Stainless Steel Sprinkler Pipework System

Product Name	Size / mm	LPCB Ref. No.
Pipe	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031b/01
Coupling	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031b/02
Slip Coupling	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031b/03
Bend 90°	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031b/04
Bend 90° with plain end	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031b/05
Bend 45°	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031b/06
Bend 45° with plain end	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031b/07
Reducer with plain end	28x22, 35x22, 35x28, 42x28, 42x35, 54x35, 54x42, 76.1x54, 88.9x54 88.9x76.1, 108x76.1, 108x88.9	1031b/08
T-piece equal	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031b/09
T-piece reduced	28x22x28, 35x22x35, 35x28x35, 42x22x42 42x28x42, 42x35x42, 54x22x54, 54x28x54 54x35x54, 54x42x54, 76.1x22x76.1, 76.1x28x76.1 76.1x35x76.1, 76.1x42x76.1, 76.1x54x76.1, 88.9x22x88.9 88.9x28x88.9, 88.9x35x88.9, 88.9x42x88.9, 88.9x54x88.9 88.9x76.1x88.9, 108x22x108, 108x28x108, 108x35x108 108x42x108, 108x54x108, 108x76.1x108, 108x88.9x108	1031b/10
T-piece with female thread	22x1/2"x22, 22x3/4"x22, 28x1/2"x28, 28x3/4"x28, 28x1"x28, 35x1/2"x35, 35x3/4"x35, 42x1/2"x42 42x3/4"x42, 54x1/2"x54, 54x3/4"x54, 54x2"x54 76.1x3/4"x76.1, 76.1x2"x76.1, 88.9x3/4"x88.9, 88.9x2"x88.9 108x3/4"x108, 108x2"x108	1031b/11
Adaptor with male thread	22x1/2", 22x3/4", 22x1", 28x3/4", 28x1", 28x1 1/4", 35x1", 35x1 1/4", 35x1 1/2", 42x 1 1/4", 42x1 1/2", 54x1 1/2", 54x2", 76.1x2 1/2", 88.9x3"	1031b/12
Adaptor with	22x1/2", 22x3/4", 22x1", 28x1/2", 28x3/4", 28x1", 28x1 1/4", 35x1", 35x1 1/4", 35x1 1/2", 42x 1 1/4", 42x1 1/2", 54x1 1/2",	1031b/13

LIGHTWEIGHT PIPEWORK SYSTEMS

female thread	54x2"	
Adaptor with brass union nut	22x1", 22x 1 1/4", 22x 1 1/2", 28x1", 28x1 1/4" 28x1 1/2", 35x1 1/2", 42x1 3/4", 54x2 3/8", 76.1x3", 88.9x3 1/2"	1031b/14
Adaptor with stainless steel union nut	22x1", 28x1 1/2"	1031b/15
Adaptor union with male thread, nut made of stainless steel	22x1/2", 22x3/4", 22x1", 28x1/2", 28x3/4", 28x1" 35x1 1/4", 42x1 1/2", 54x2"	1031b/16
Adaptor union with male thread, nut made of brass	22x1/2", 22x3/4", 22x1", 28x1", 35x1 1/4", 42x1 1/2", 54x2"	1031b/17
Adaptor union with female thread, nut made of brass	22x3/4", 22x1", 28x1", 35x1 1/4", 42x 1 1/2", 54x2"	1031b/18
Adaptor union with female thread, nut made of stainless steel	22x3/4", 22x1", 28x1", 35x1 1/4", 42x1 1/2", 54x2"	1031b/19
Elbow adaptor 90° with male thread	22x3/4", 28x1", 35x1 1/4", 42x1 1/2", 54x2"	1031b/20
Elbow adaptor 90° with female thread	22x3/4", 28x1", 35x1 1/4"	1031b/21
Straight union with press fittings on both ends	22, 28, 35, 42, 54	1031b/22
Flange PN 10 / 16 with pressing socket	22, 28, 35, 42, 54, 76.1, 88.9, 108	1031b/23
Cap	22, 28, 35, 42, 54	1031b/24

Tyco Building Services Products B.V. part of the Johnson Controls group of Companies

Kopersteden 1, 7547 TJ Enschede, Netherlands

Tel: +31 53 4284444

E-mail: info-NL@tyco-bspd.com • Website: www.tycobuilding.com

Certificate No: 169f to TS1599: Issue draft 5

'Grinnell' G-Press Lightweight Galvanised Steel Sprinkler Pipework System

Product Name	Description	Size (mm)	LPCB Ref. No.
Pipe CS	Galvanised tube	22, 28, 35, 42, 54	169f/01
G05	Straight Coupling (2 x press)	22, 28, 35, 42, 54	169f/02
G10	Slip Coupling (2 x press)	22, 28, 35, 42, 54	169f/03
G15	90° Elbow (2 x press)	22, 28, 35, 42, 54	169f/04
G16	90° Elbow (press x plain end)	22, 28, 35, 42, 54	169f/05
G20	45° Elbow (2 x press)	22, 28, 35, 42, 54	169f/06
G21	45° Elbow (press x plain end)	22, 28, 35, 42, 54	169f/07
G25	90° Bend (2 x plain end)	22, 28, 35, 42, 54	169f/08
G30	Cross over (2 x plain end)	22, 28	169f/09
G35	Tee equal (3 x press)	22, 28, 35, 42, 54	169f/10
G36	Tee reduced (3 x press)	22x28x22, 28x22x28, 35x22x35, 35x28x35, 42x22x42, 42x28x42, 42x35x42, 54x22x54, 54x28x54, 54x35x54, 54x42x54	169f/11
G37	Tee threaded (press x fem. thread x press)	22x1/2"x22, 22x3/4"x22, 28x1/2"x28, 28x3/4"x28, 28x1"x28, 35x1/2"x35, 35x3/4"x35, 35x1"x35, 42x1/2"x42, 42x3/4"x42, 42x1"x42, 54x1/2"x54, 54x3/4"x54, 54x1"x54	169f/12
G40	Reducer (plain end x press)	28x22, 35x22, 35x28, 42x28, 42x35, 54x35, 54x42,	169f/13
G41	Reducer (2 x press)	28x22	169f/14
G51	Straight connector (plain end x female thread)	22x1/2", 22x3/4"	169f/15
G46	Straight connector (press x female thread)	22x1/2", 22x3/4", 28x1/2", 28x3/4", 28x1", 35x1/2", 35x3/4", 35x1", 35x1 1/4", 42x1 1/2", 54x2"	169f/16
G45	Straight connector (press x male thread)	22x1/2", 22x3/4", 22x1", 28x3/4", 28x1", 35x1", 35x1 1/4", 42x1 1/2", 54x2"	169f/17
G47	Straight union (press x male thread)	22x3/4", 28x1", 35x1 1/4", 42x1 1/2", 54x2"	169f/18
G19	90° Angle adaptor (press x male thread)	22x3/4"	169f/19
G17	90° Elbow (press x male thread)	22x3/4", 28x1", 35x1 1/4", 42x1 1/2", 54x2"	169f/20
G18	90° Elbow (press x female thread)	22x1/2", 22x3/4", 28x1/2", 28x3/4", 28x1", 35x1/2", 35x3/4", 35x1"	169f/21

LIGHTWEIGHT PIPEWORK SYSTEMS

G48	Transition connector (press x grooved)	28x33.7, 35x42.4, 42x48.3, 54x60.3	169f/22
G50	Stop end (1 x press)	22, 28, 35, 42, 54	169f/23
G11	Slip coupling (press x female thread)	22x $\frac{1}{2}$ ", 22x $\frac{3}{4}$ ", 28x $\frac{1}{2}$ ", 28x $\frac{3}{4}$ "	169f/24

Certificate No: 169g to TS1599: Issue draft 5

'Grinnell' G-Press Lightweight Stainless Steel Sprinkler Pipework System

Product Name	Description	Size (mm)	LPCB Ref. No.
PIPE SS1	Stainless steel tube 1.4401	22, 28, 35, 42, 54	169g/01
G05S	Straight Coupling (2 x Press)	22, 28, 35, 42, 54	169g/02
G10S	Slip Coupling (2 x Press)	22, 28, 35, 42, 54	169g/03
G15S	90° Elbow (2 x Press)	22, 28, 35, 42, 54	169g/04
G16S	90° Elbow (Press x plain end)	22, 28, 35, 42, 54	169g/05
G20S	45° Elbow (2 x Press)	22, 28, 35, 42, 54	169g/06
G21S	45° Elbow (Press x plain end)	22, 28, 35, 42, 54	169g/07
G25S	90° Bend (2 x plain end)	22, 28, 35, 42, 54	169g/08
G26S	60° Bend (2 x plain end)	28, 35, 42, 54	169g/09
G27S	30° Bend (2 x plain end)	28, 35, 42, 54	169g/10
G28S	15° Bend (2 x plain end)	28, 35, 42, 54	169g/11
G30S	Cross over (2 x plain end)	22, 28	169g/12
G35S	Tee equal (3 x Press)	22, 28, 35, 42, 54	169g/13
G36S	Tee reduced (3 x Press)	28x22x28, 35x22x35, 35x28x35, 42x22x42, 42x28x42, 42x35x42, 54x22x54, 54x28x54, 54x35x54, 54x42x54	169g/14
G37S	Tee threaded (Press x fem. thread x Press)	22x $\frac{1}{2}$ "x22, 22x $\frac{3}{4}$ "x22, 28x $\frac{1}{2}$ "x28, 28x $\frac{3}{4}$ "x28, 28x1"x28, 35x $\frac{1}{2}$ "x35, 35x $\frac{3}{4}$ "x35, 35x1"x35, 42x $\frac{1}{2}$ "x42, 42x $\frac{3}{4}$ "x42, 42x1"x42, 54x $\frac{1}{2}$ "x54, 54x $\frac{3}{4}$ "x54, 54x1"x54, 54x2"x54	169g/15
G40S	Reducer (Large Plain end x Press)	28x22, 35x22, 35x28, 42x28, 42x35, 54x35, 54x42,	169g/16
G46S	Straight connector (Press x female thread)	22x $\frac{1}{2}$ ", 22x $\frac{3}{4}$ ", 22x1", 28x $\frac{1}{2}$ ", 28x $\frac{3}{4}$ ", 28x1", 28x1 $\frac{1}{4}$ ", 35x1", 35x1 $\frac{1}{4}$ ", 35x1 $\frac{1}{2}$ ", 42x1 $\frac{1}{4}$ ", 42x1 $\frac{1}{2}$ ", 54x1 $\frac{1}{2}$ ", 54x2"	169g/17
G45S	Straight connector (Press x male thread)	22x $\frac{1}{2}$ ", 22x $\frac{3}{4}$ ", 22x1", 28x $\frac{3}{4}$ ", 28x1", 28x1 $\frac{1}{4}$ ", 35x1", 35x1 $\frac{1}{4}$ ", 35x1 $\frac{1}{2}$ ", 42x1 $\frac{1}{4}$ ", 42x1 $\frac{1}{2}$ ", 54x1 $\frac{1}{2}$ ", 54x2"	169g/18
G47S	Straight union (Press x male thread)	22x $\frac{1}{2}$ ", 22x $\frac{3}{4}$ ", 22x1", 28x1", 35x1 $\frac{1}{4}$ ", 42x1 $\frac{1}{2}$ ", 54x2"	169g/19
G51S	Straight union (Press x female thread)	22x $\frac{3}{4}$ ", 22x1", 28x1", 35x1 $\frac{1}{4}$ ", 42x1 $\frac{1}{2}$ ", 54x2"	169g/20
G17S	90° Elbow (Press x male thread)	22x $\frac{3}{4}$ ", 28x1", 35x1 $\frac{1}{4}$ ", 42x1 $\frac{1}{2}$ ", 54x2"	169g/21
G18S	90° Elbow (Press x female thread)	22x $\frac{1}{2}$ ", 22x $\frac{3}{4}$ ", 28x $\frac{1}{2}$ ", 28x $\frac{3}{4}$ ", 28x1", 35x $\frac{1}{2}$ ", 35x $\frac{3}{4}$ ", 35x1", 35x1 $\frac{1}{4}$ "	169g/22
G48S	Transition connector (Press x grooved)	28x33.7, 35x42.4, 42x48.3, 54x60.3	169g/25
G50S	Stop end (1 x press)	22, 28, 35, 42, 54	169g/26
G11S	Slip coupling (press x female thread)	22x $\frac{1}{2}$ ", 22x $\frac{3}{4}$ ", 28x $\frac{1}{2}$ ", 28x $\frac{3}{4}$ "	169g/27
PIPE SS2	Stainless steel tube 1.4520	22, 28, 35, 42, 54	169g/01
PIPE SS3	Stainless steel tube 1.4521	22, 28, 35, 42, 54	169g/01

LPS 1048 APPROVED SPRINKLER CONTRACTORS - UK AND IRELAND

Sprinkler systems are only effective if designed, installed and maintained correctly. The LPS 1048 scheme: *Requirements for the approval of Sprinkler Contractors in the UK and Ireland*, ensures that installers are capable of designing, installing and servicing sprinkler systems to acceptable installation standards.

Scheme Structure

There are 4 approval levels for Sprinkler Contractors in the LPS 1048 scheme. Figure 1 below shows the Categories of Work that are allowed to be carried out at each approval level in the LPS 1048 scheme.

Figure 1		Approval Level			
Category of Work		1	2	3	4
A	Pre-calculated ordinary hazard systems, installations, <u>extensions</u> and alterations (excluding water supplies)	✓①	✓②	✓②	✓③
B	Town's main water supplies	✓①	✓②	✓②	✓③
C	Pumped water supplies	✓①	✓②	✓②	✓③
D	Base build contracts (pre-calculated design principles)	X	✓②	✓②	✓③
E	Systems, installations, <u>extensions</u> and alterations involving FHC design principles	X	X	✓①	✓③

- ✓① - Allowed to undertake this Category of Work under supervision.
- ✓② - Allowed to undertake this Category of Work, supervision may be required depending on whether the Contractor has been granted self-certification for this Category of Work.
- ✓③ - Allowed to undertake this Category of Work, Contractor can self-certify this Category of Work.
- X - Not allowed to tender for or undertake this Category of Work.

Important Note to Specifiers

Specifiers should only use Sprinkler Contractors that are LPS 1048 approved to the appropriate level depending on the type of sprinkler work required, refer to the individual company listings for the approval level of Sprinkler Contractors.

Listing of Sprinkler Contractors

LPS 1048 Approved Sprinkler Contractors are listed alphabetically, regardless of their approval level.

Continual Assessment

The LPS 1048 scheme has over 80 sprinkler contractors that are continually assessed for their continued capability to undertake sprinkler contracts and for their compliance with the requirements of the LPS 1048 scheme.

Certificates of Conformity

In order to ensure that a sprinkler system is effective, specifiers should always request an LPS 1048

Certificate of Conformity. An LPS 1048 Certificate of Conformity may only be issued for a sprinkler system, installation, extension or alteration that is in full compliance with the one of the acceptable installation standards.

Any agreed minor deviations to the installation standard will be recorded on the LPS 1048 Certificate of Conformity. An LPS Certificate of Conformity cannot be issued if there is a major deviation to the installation standard. It should be noted that a Sprinkler Contractor's Completion Certificate is **NOT** an LPS 1048 Certificate of Conformity.

An LPS 1048 Certificate of Conformity only remains valid if the sprinkler system, installation, extension or alteration, covered by the certificate, is serviced and maintained in accordance with the original installation standard.

Supervision

Where an approved Sprinkler Contractor does not meet all the criteria set out in the LPS 1048 scheme document to self-certify any of the Categories of Work allowed under its approval level, it is required to have the Category (ies) of Work that it is not approved to self-certify supervised by an LPCB approved Supervising Body or the LPCB Supervisory Service.

Supervision involves a review of the design, an inspection of the installed sprinkler protection, and if water supplies are included in the scope of work, witnessing of the water supply proving tests, for compliance with the installation standard. For supervised contracts, the LPS 1048 Certificates of Conformity is issued by an LPCB approved Supervising Body or the LPCB Supervisory Service.

LPS 1048 APPROVED SPRINKLER CONTRACTORS - UK AND IRELAND

Details of the Categories of Work that each approved Sprinkler Contractor can self-certificate, can be found in the individual company listings.

Financial assessment

The assessment and listing of Sprinkler Contractors in the LPS 1048 scheme covers only technical and quality aspects. All other contractual requirements are the responsibility of the parties to the contract.

Service and maintenance

Installers that undertake service and maintenance work are assessed for their capability to carry out such work in accordance with EN 12845 clause 20 and Technical Bulletin 203 of the LPC Rules for Automatic Sprinkler Installations.

1 Fire Protection Ltd

128 City Road, London, EC1V 2NX, United Kingdom

Tel: 07933008997

E-mail: info@1fireprotection.co.uk • Website: www.1fireprotection.co.uk

Certificate No: 000333 to LPS 1531

Suspension Test 1 (Instant/Manual)

Approver Level 1

Not approved to self-certificate any Category of Work

The following Categories of Work to be supervised: A, B, C

Certificate No: 000333 to LPS 1531

Suspension Test 1 (Instant. Start 17/02 - End 18/02)

Approver Level 1

Not approved to self-certificate any Category of Work

The following Categories of Work to be supervised: A, B, C

Certificate No: 000333 to LPS 1531

Suspension Test 1 (Future. Start 18/02 - End 19/02)

Approver Level 1

Not approved to self-certificate any Category of Work

The following Categories of Work to be supervised: A, B, C

Certificate No: 111a to LPS 1048

The following scopes apply:

Certificate No: 123 to LPS 1673: Issue 1

The following scopes apply:

Certificate No: 7788 to LPS 1531

The following scopes apply: Daz test V2

11111

11111, United Kingdom

Certificate No: 0165 to LPS 1271

The following scopes apply: Darren Test

Certificate No: 0165 to LPS 1271

The following scopes apply: Darren test 2

Certificate No: 124578 to LPS 1048

level 1 test

Approver Level 1

Not approved to self-certify any Category of Work

The following Categories of Work to be supervised: A, B, C

247 National Limited

Unit 8, Laurel Trading Estate, Higginshaw Lane, Royton, Oldham, Lancashire, OL2 6LH, United Kingdom

Tel: +44 (0)1189771925

E-mail: info@surelock.co.uk

Certificate No: ASC-00056 to LPS 1048: Issue 6

The following scopes apply:

A & F Sprinklers Limited

Unit 4, Transpennine Trading Estate, Gorrels Way, Rochdale, Lancashire, OL11 2PX, United Kingdom

Tel: +44 (0)845 505 1550

E-mail: info@afsprinklers.co.uk • Website: www.afsprinklers.co.uk

Certificate No: ASC-001 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

Certificate No: QA TEST 45678 to LPS 1571

QA TEST 45678

A.M. Fire Systems Limited

Red Brook Mill, Bury Road, Rochdale, OL11 4EE, United Kingdom

Tel: +44 (0)1706 639439

E-mail: andyedmunds@amfiresystems.co.uk

Certificate No: ASC-076 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A, B, C

The following Categories of Work to be supervised: D, E

A2O Limited

The Old Barn, Pump House Farm, Ongar Road, Kelvedon Hatch, Essex, CM15 0LA, United Kingdom

Tel: 01277369555

E-mail: Martin.Coupe@a2ogroup.co.uk • Website: www.a2ocladding.co.uk

Certificate No: 123123 to LPS 1673: Issue 1

The following scopes apply:

ABUS (UK) Limited

Unit 30, Portishead Business Park, Old Mill Road, Portishead, Bristol, BS20 7BX, United Kingdom

Tel: +44 (0)117 204 7000

E-mail: info@abus-uk.com • Website: www.abus.com

Certificate No: 1048a to LPS 1301

The following scopes apply:

AD Sprinkler Protection Limited

103B Hyde Road, Denton, Manchester, M34 3BB, United Kingdom

Tel: +44 (0)161 336 0001

E-mail: enquiries@adsprinklers.co.uk • Website: www.adsprinklers.co.uk

Certificate No: ASC-102 to LPS 1048

Design, installation and commissioning of industrial & commercial fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A

The following Categories of Work to be supervised: B, C, D, E

Alpha Sprinkler Protection Limited

101 Innovation Centre, Evolution Park, Haslingden Road, Blackburn, BB1 2FD, United Kingdom

Tel: +44 (0)1254 584669

E-mail: info@alphasprinklers.co.uk • Website: www.alphasprinklers.co.uk

Certificate No: ASC-137 to LPS 1048

Design, installation and commissioning of industrial & commercial fire sprinklers systems.

Approver Level 2

Approved to self-certify the following Categories of Work: A

The following Categories of Work to be supervised: B, C, D

Alpine Fire Engineers Limited

Alpine House, Hollins Brook Park, Bury, Lancashire, BL9 8RN, United Kingdom

Tel: +44 (0)161 791 4500

E-mail: hello@alpinefire.co.uk • Website: www.alpinefire.co.uk

Certificate No: ASC-054 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

AML Fire Protection Limited

59 Carlton Avenue, Gillingham, Kent, ME7 2JX, United Kingdom

Tel: +44 (0)1634 581412

E-mail: enquiries@amlfireprotection.com • Website: www.amlfireprotection.co.uk

Certificate No: ASC-140 to LPS 1048

Design, installation and commissioning of industrial & commercial fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

All Categories of work to be supervised

APW Fire Protection Limited

Sydenham Business Park, 17 Heron Road, Belfast, Antrim, BT3 9LE, United Kingdom

Tel: +44 (0)28 90827046

E-mail: info@apwfp.com

Certificate No: ASC-107 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A

The following Categories of Work to be supervised: B, C, D, E

Argus Fire Protection Company Limited

Hendglade House, 46 New Road, Stourbridge, West Midlands, DY8 1PA, United Kingdom

Tel: +44 (0)1384 376256

E-mail: info@argusfire.co.uk • Website: www.argusfire.co.uk

Certificate No: ASC-005 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

Armstrong Priestley Limited

Seventy Seven, Holbeck Lane, Leeds, LS11 9UL, United Kingdom

Tel: +44 (0)113 3944040

E-mail: info@armstrongpriestley.co.uk • Website: www.armstrongpriestley.co.uk

Certificate No: ASC-016 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

Automatic Sprinkler Company (Ireland) Limited trading as Automatic Fire & Integrated Solutions

Unit 3 Parkwest Road, Parkwest Industrial Park, Dublin 12, Ireland

Tel: +353 1 453 3108

E-mail: info@automaticfire.ie • Website: www.automaticfire.ie

Certificate No: ASC-101 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

B4 Fire Protection Limited

Unit 16, Summerhill Industrial Estate, Goodman Street, Birmingham, B1 2SS, United Kingdom

Tel: +44 (0)121 820 6223

E-mail: info@b4fireprotection.co.uk • Website: www.b4fireprotection.co.uk

Certificate No: ASC-128 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Not approved to self-certify any categories of work

The following Categories of Work to be supervised: A, B, C, D, E

Bailey Fire Services Limited

Unit 22, The Colin Sanders Business Innovation Centre, Mewburn Road, Banbury, Oxon, OX16 9PA, United Kingdom

Tel: +44 (0)1295 817657

E-mail: info@baileyfire.co.uk • Website: www.baileyfire.co.uk

Certificate No: ASC-150 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

All Categories of work to be supervised

Besseges Limited

Riverside, Dukinfield, Cheshire, SK16 4HE, United Kingdom

Tel: +44 (0)161 308 3252

E-mail: sales@besseges.co.uk • Website: www.besseges.co.uk

Certificate No: ASC-041 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

Blue Shield Fire Protection Limited

Unit 9 Sovereign Park, Cleveland Way, Hemel Hempstead, Hertfordshire, HP2 7DA, United Kingdom

Tel: +44 (0)1442 828000

E-mail: sales@blueshieldfire.co.uk • Website: www.blueshieldfire.co.uk

Certificate No: ASC-083 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A

The following Categories of Work to be supervised: B, C, D, E

Bradbury Group Ltd T/A Bradbury Security

6 Atkinsons Way, Foxhills Industrial Estate, Scunthorpe, North Lincolnshire, DN15 8QJ, United Kingdom

Tel: +44 (0)1724 275724

E-mail: enquiries@bradburyuk.com • Website: www.bradburyuk.com

Certificate No: 1111111a to LPS 1048

The following scopes apply:

Bush (Fire Engineering) Limited

124 Barnfield Wood Road, Beckenham, BR3 6SX, United Kingdom

Tel: +44 (0)203 021 1999

E-mail: sales@bushengineering.com • Website: www.bushengineering.com

Certificate No: ASC-065 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Not approved to self-certify any categories of work

The following Categories of Work to be supervised: A, B, C, D, E

Chubb Fire and Security Limited trading as Vipond Fire Protection

10-12 Glenfield Road, Kelvin Industrial Estate, East Kilbride, Lanarkshire, G75 0RA, United Kingdom

Tel: +44 (0)1355 2375 25/80/88

E-mail: admin.uk@vipondltd.co.uk • Website: www.vipondfire.co.uk

Certificate No: ASC-024 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

Churches Fire Security Limited

Fire House, Mayflower Close, Chandlers Ford, Eastleigh, Hampshire, SO53 4AR, United Kingdom

Tel: 0370 608 4350

E-mail: sales@churchesfire.com • Website: www.churchesfire.com

Certificate No: ASC-068 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Not approved to self-certify any categories of work

The following Categories of Work to be supervised: A, B, C, D, E

Circum Fire Engineering Limited

Fountain Court, Rooms G9-G10, 2 Victoria Square, St Albans, Hertfordshire, AL1 3TF, United Kingdom

Tel: +44 (0)1727 821228

E-mail: info@circum.ltd.uk • Website: www.circum.ltd.uk

Certificate No: ASC-099 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A

The following Categories of Work to be supervised: B, C, D, E

Company by Ali

14-15 Crooked Billet, Wimbledon, SW19 4RQ, United Kingdom

Certificate No: SVC_19091910 to LPS 1673: Issue 1

The following scopes apply:

Compco Fire Systems Limited

Cleeve House, Malvern Road, Lower Wick, Worcester, WR2 4YX, United Kingdom

Tel: +44 (0)1905 741600

E-mail: enquiries@compcofire.co.uk • Website: www.compcofire.co.uk

Certificate No: ASC-049 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

Certificate No: SVC-1048-V2 to LPS 1048

LPS 1048 V2 scope

Cooper Industries Inc

Wheatley Hall Road, Doncaster, South Yorkshire, DN2 4NB, United Kingdom

Tel: +44 (0)1302 303303

E-mail: sales@cooper-ls.com • Website: www.cooper-ls.com

Certificate No: 1025 to LPS 1204

V2 Chuck Test

Crico Norway Ltd

Ursnis Veg 12, Jessheim, 2066, Norway

Tel: +32 475 834 835

E-mail: Christian@crico.no • Website: <https://www.crico.no/>

Certificate No: 1048Sue to LPS 1048: Issue 6

The following scopes apply:

CT Fire Protection Limited

39 Higham Road, Burton Latimer, Kettering, Northants, NN15 5PU, United Kingdom

Tel: +44 (0)1536 515872

E-mail: info@ct-fireprotection.co.uk

Certificate No: ASC-135 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

All Categories of work to be supervised

DIS Sprinklers Limited

First Floor, Cranham House, Falcon Close, Quedgeley, Gloucester, Gloucestershire, GL2 4LY, United Kingdom

Tel: +44 (0)1452 304927

E-mail: sprinklers@dis-ltd.co.uk • Website: www.dis-ltd.co.uk

Certificate No: ASC-030 to LPS 1048

Design, installation and commissioning of industrial & commercial fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A

The following Categories of Work to be supervised: B, C, D, E

EFT Systems Limited

Cobden House, 39a Cobden Road, Southport, PR9 7TR, United Kingdom

Tel: 01704 229431

E-mail: compliance@eftsystems.co.uk • Website: www.eftgroup.co.uk

Certificate No: ASC-859 to LPS 1048: Issue 6

The following scopes apply - excluding Bristol office.

Emtec Fire Systems Limited

1 Ellismuir Way, Tannochside Park, Uddingston, Glasgow, G71 5PW, United Kingdom

Tel: +44(0)1698 808 030

E-mail: info@emtecfire.co.uk • Website: www.emtecfire.co.uk

Certificate No: ASC-129 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Not approved to self-certify any categories of work

The following Categories of Work to be supervised: A, B, C, D, E

Eversafe Fire Protection Limited

Unit 14 Precision 2 Building Park, Bingham Road, Sittingbourne, Kent, ME10 3TR, United Kingdom

Tel: +44 (0)7730817785

E-mail: info@eversafefire.com

Certificate No: ASC-143 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

All Categories of work to be supervised

F.V.S. Limited

Broom Street, Off Huddersfield Road, Newhey, Rochdale, OL16 3RY, United Kingdom

Tel: +44 (0)1706 848599

E-mail: fvs@fvslimited.co.uk • Website: www.fvslimited.co.uk

Certificate No: ASC-031 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

FES Limited, FES Sprinklers

Forth House, Pirnhall Business Park, Stirling, FK7 8HW, United Kingdom

Tel: +44 (0)1786 819600

E-mail: hq@fes.ltd.uk

Certificate No: ASC-096 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: B, C, D

The following Categories of Work to be supervised: E, A

Fire Alarm Solutions Limited

Unit 2, Manor Way Business Centre, Fairview Industrial Park, Marsh Way, Rainham, Essex, RM13 8UG, United Kingdom

Tel: +44(0) 1708 521181

E-mail: enquiries@fas-ltd.com • Website: www.fas-ltd.com

Certificate No: ASC-110 to LPS 1048

Design, installation and commissioning of industrial & commercial fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

All Categories of work to be supervised

Fire Logistics Limited

Unit 11B, Airport Industrial Estate, Newcastle upon Tyne, NE3 2EF, United Kingdom

Tel: +44 (0)191 214 6400

E-mail: enquiries@firelogistics.co.uk • Website: www.firelogistics.co.uk

Certificate No: ASC-105 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A

The following Categories of Work to be supervised: B, C, D, E

Fire Security (Sprinkler Installations) Limited

Homefield Road, Haverhill, Suffolk, CB9 8QP, United Kingdom

Tel: +44 (0)1440 705815

E-mail: info@firesecurity.co.uk • Website: www.firesecurity.co.uk

Certificate No: ASC-018 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

Fireproof Fire Engineering Limited

The Old Brewery, 40 Coldhurst Street, Oldham, Lancashire, OL1 2BQ, United Kingdom

Tel: +44 (0)161 620 0902

E-mail: contactus@fireproofsprinklersystems.com • Website: www.fireproofsprinklersystems.com

Certificate No: ASC-019 to LPS 1048

The following scopes apply:x

First Fire Protection Limited

Unit 3, Network 4, Lincoln Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3RF, United Kingdom

Tel: +44 (0)1494 522031/2

E-mail: enquiries@firstfireprotection.co.uk • Website: www.firstfireprotection.co.uk

Certificate No: ASC-037 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A, B

The following Categories of Work to be supervised: C, D, E

Fortress Fire and Security Limited

Moorgate House, 5-8 Dysart Street, London, EC2A 2BX, United Kingdom

Tel: 07546739211 • Alt Tel: 07396 786790

E-mail: stewart@fortressuk.co.uk • Website: www.fortressuk.co.uk

Certificate No: ASC-152 to LPS 1048

Design, installation and commissioning of industrial & commercial fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

The following Categories of Work to be supervised: A, B, C

Gordonson Fire Protection Limited

Unit 2 Tawney Farm, Tawney Common, Theydon Mount, Epping, Essex, CM16 7PU, United Kingdom

Tel: +44 (0)207 237 6707

E-mail: Danielle@Gordonson.co.uk

Certificate No: ASC-062 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A, B, C

The following Categories of Work to be supervised: D, E

Irish Sprinkler & Fire Protection Limited

Damastown Green, Damastown Industrial Estate, Mulhuddart, Dublin 15, Ireland

Tel: +353 1 8614036

E-mail: irishsprinkler@joneseng.com • Website: www.joneseng.com

Certificate No: ASC-069 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

J & J Design Limited trading as J & J Fire Engineering

Riverside House, New Hall Hey Road, Rawtenstall, Rochdale, Lancashire, BB4 6HR, United Kingdom

Tel: +44 (0)1706 223414

E-mail: info@jjfe.co.uk • Website: www.jjfe.co.uk

Certificate No: ASC-052 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

J G Truty Sprinkler Installations Limited

Unit 3 Whitelocks Farm, Garsons Lane, Bracknell, Berkshire, RG42 6JA, United Kingdom

Tel: +44 (0)1494 443339

E-mail: info@jgtrutysi.co.uk • Website: www.jgtrutysi.co.uk

Certificate No: ASC-122 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A

The following Categories of Work to be supervised: B, C, D, E

Kean Building & Fire Protection Services Limited

39/43 Temple Bar, Willenhall, West Midlands, WV13 1SH, United Kingdom

Tel: +44 (0)1902 603550

E-mail: kean.fp@btconnect.com

Certificate No: ASC-061 to LPS 1048

Design, installation and commissioning of industrial & commercial fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A, B, C

The following Categories of Work to be supervised: D, E

Kentallen Fire Protection Limited

Lancaster Road, Lowmoss Industrial Estate, Bishopbriggs, Glasgow, G64 2LL, United Kingdom

Tel: +44 (0)141 762 2540

E-mail: kentallen@btconnect.com

Certificate No: ASC-032 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Not approved to self-certify any categories of work

The following Categories of Work to be supervised: A, B, C, D, E

KPFP Limited

3 Mulgrave Chambers, 26-28 Mulgrave Road, Sutton, Surrey, SM2 6LE, United Kingdom

Tel: +44 (0)20 8544 4844

E-mail: fire@kpfp.co.uk • Website: www.kpfp.co.uk

Certificate No: ASC-089 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A

The following Categories of Work to be supervised: B, C, D, E

LHS REFKO Fire Installations Limited

Unit 1 C, Cockridgen Farm Estate, Brentwood Road, Brentwood, Essex, CM13 3LH, United Kingdom

Tel: +44 (0)1277 815122

E-mail: rsmrefko@btconnect.com

Certificate No: ASC-043 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

All Categories of work to be supervised

Lloret Fire Solutions Limited

Lloret House, Ullswater Crescent, Coulsdon, Surrey, CR5 2HR, United Kingdom

Tel: +44 (0) 208 410 4600

E-mail: info@lloret.co.uk • Website: www.lloret.co.uk

Certificate No: ASC-999 to LPS 1048

The following scopes apply: - test

M & P Fire Protection Limited

Unit 12, Viewpoint, Boxley Road, Maidstone, Kent, ME14 2DZ, United Kingdom

Tel: +44 (0)800 043 1974

E-mail: info@mpfireprotection.com • Website: www.mpfireprotection.com

Certificate No: ASC-133 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Not approved to self-certify any categories of work

The following Categories of Work to be supervised: A, B, C, D, E

M & P Fire Solutions Ltd

Unit 9 Robinhood Business Park, Robinhood Road, Dublin 22, Ireland

Tel: +353 1 4508248

E-mail: admin@mpfiresolutions.com • Website: www.mpfiresolutions.com

Certificate No: ASC-095 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A

The following Categories of Work to be supervised: B, C, D, E

Mercury Engineering

Mercury House, Sandyford Industrial Estate, Foxrock, Dublin 18, D18 XH79, Ireland

Tel: +353 1 216 3000

E-mail: fireprotection@mercuryeng.com • Website: www.mercuryeng.com

Certificate No: ASC-058 to

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

Mitie FS (UK) Ltd

650 Pavilion Drive, Northampton Business Park, Northampton, NN4 7SL, United Kingdom

Tel: +44 (0)1926 495118

E-mail: Andrew.lewis@interserve.com • Website: www.mitie.com

Certificate No: ASC-123 to LPS 1048

Design, installation and commissioning of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

All Categories of work to be supervised

National Sprinkler Company Limited

Unit 4B, Fingal Bay Business Park, Balbriggan, Co Dublin, Ireland

Tel: +353 1 690 4001/4040

E-mail: info@nationalsprinkler.ie • Website: www.nationalsprinkler.ie

Certificate No: ASC-092 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A, B, C, D

The following Categories of Work to be supervised: E

Nu-Form Fire UK Limited

390 Manchester Road, Gollinrod, Bury, Lancashire, BL9 5NB, United Kingdom

Tel: +44 (0)1706 825111

E-mail: info@nuformfire.com • Website: www.nuformfire.com

Certificate No: ASC-040 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

Pinnacle Fire Protection Limited

29 Pennylets Green, Stoke Poges, Slough, Buckingham, SL2 4BU, United Kingdom

Tel: +44 (0)20 8611 2757

E-mail: enquiries@pinnaclefire.co.uk • Website: www.pinnaclefire.co.uk

Certificate No: ASC-146 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

All Categories of work to be supervised

Premier Mist UK Limited

Unit 1A Monckton Road Industrial Estate, Wakefield, WF2 7AL, United Kingdom

Tel: +44 (0)1924 330870

E-mail: info@premiermist.com • Website: www.premiermist.com

Certificate No: ASC-151 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

The following Categories of Work to be supervised: A, B, C

Protec Camerfield Limited

5 Churchill Way, Nelson, Lancashire, BB9 6RT, United Kingdom

Tel: +44 (0)1282 717474

E-mail: camerfield@protec.co.uk • Website: www.protec.co.uk

Certificate No: ASC-056 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

Provincial Sprinkler Co. Limited

Unit 3, Building 2500, Avenue 2000, Cork Airport Business Park, Cork, T12P6PT, Ireland

Tel: +353 (0)21 4965058

E-mail: info@pscl.ie • Website: www.pscl.ie

Certificate No: ASC-087 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

Pyro Protection Limited

Saddleworth Business Centre, Huddersfield Road, Delph, Oldham, Lancashire, OL3 5DF, United Kingdom

Tel: +44 (0)1457 879 222

E-mail: info@pyroprotection.co.uk • Website: www.pyroprotection.co.uk

Certificate No: ASC-144 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

QA TEST COMPANY

TEST, TEST, United Kingdom

Tel: TEST • Alt Tel: TEST

E-mail: TEST@TEST.COM

Certificate No: 222222 to LPS 1271

The following scopes apply: For testing V2 2 feb 2025

Certificate No: QA TEST to LPS 1271

The following scopes apply:

Certificate No: QA TESTING PURPOSES to .

The following scopes apply:xx

Certificate No: QA. TESTING to QA TESTING PURPOSES, standard 1(test) & standard 2, standard 3

QA. TESTING

Red Rose Fire Protection Limited

Unit 24, Greendfields, Parker Lane, Whitestake, Preston, Lancashire, PR4 4JX, United Kingdom

Tel: +44 (0)1772 822133

E-mail: redrosefp@aol.com

Certificate No: ASC-044 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

All Categories of work to be supervised

Redcroft Fire Limited

1A Hurst Road, Sidcup, Kent, DA15 9AE, United Kingdom
Tel: +44 (0)208 308 0232
E-mail: info@redcroftfire.co.uk • Website: www.redcroftfire.co.uk

Certificate No: ASC-127 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work
All Categories of work to be supervised

Richmond Fire Engineers Limited

30 Firby Road, Gallowfields Trading Estate, Richmond, North Yorkshire, DL10 4ST, United Kingdom
Tel: +44 (0)1748 825612
E-mail: enquiries@richmondfire.co.uk • Website: www.richmondfire.co.uk

Certificate No: ASC-059 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work
No supervision required

Ross Fire Protection Limited

29 Deerdykes View, Westfield, Cumbernauld, G68 9HN, United Kingdom
Tel: +44 (0)1236 738502
E-mail: info@rossfire.co.uk • Website: www.rossfire.co.uk

Certificate No: ASC-021 to LPS 1048

Design, installation and commissioning of industrial & commercial fire sprinklers systems.

Approver Level 3

Not approved to self-certify any categories of work
The following Categories of Work to be supervised: A, B, C, D, E

Select Fire Services Limited

Unit 3 Omni Business Park, Stadium Way, Harlow, Essex, CM19 5FT, United Kingdom
Tel: +44 (0)1279 641979
E-mail: info@selectfire.co.uk • Website: www.selectfire.co.uk

Certificate No: ASC-070 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A, B, C, D
The following Categories of Work to be supervised: E

Senseco Sprinkler Systems Limited

Unit 6, Fitzroy Business Park, Sandy Lane, Sidcup, Kent, DA14 5NL, United Kingdom
Tel: +44 (0)208 309 5203
E-mail: admin@cwfire.co.uk • Website: www.cwfire.co.uk

Certificate No: ASC-136 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A

The following Categories of Work to be supervised: B, C, D, E

Solent Fire Protection Services Limited

IN4 Invincible, Daedalus Park, Daedalus Drive, Lee-on-the-Solent, Hampshire, PO13 9FX, United Kingdom

Tel: +44 (0)2392 510230

E-mail: info@solentfire.co.uk • Website: www.solentfire.co.uk

Certificate No: ASC-057 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A, B, C

The following Categories of Work to be supervised: D, E

Spectrum Fire Protection (UK) Limited

Middlemore Lane, Aldridge, Walsall, West Midlands, WS9 8SP, United Kingdom

E-mail: enquiries@spectrumfire.co.uk • Website: www.spectrumfire.co.uk

Certificate No: ASC-108 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

All Categories of work to be supervised

Spence Refit Ltd trading as Hawk Fire

MacMillan House, Paddington Station, London, W2 1FT, United Kingdom

Tel: 0207 387 1268

E-mail: Nick.Moore@spenceltd.co.uk • Website: www.spenceltd.co.uk

Certificate No: ASC-149 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

The following Categories of Work to be supervised: A, B, C

Sunray Engineering Limited

Kingsnorth Industrial Estate, Wotton Road, Ashford, Kent, TN23 6LL, United Kingdom

Tel: +44 (0)1233 639039

E-mail: sales@sunraydoors.co.uk • Website: www.sunraydoors.co.uk

Certificate No: 222A to LPS 1048

The following scopes apply:

Target Fire Systems Limited

Otters Holt, 3 West Lodges, Dunston Business Village, Dunston, Stafford, Staffordshire, ST18 9AB, United Kingdom
Tel: +44 (0)1785 450279
E-mail: shaun.ellsmore@targetfiresystems.co.uk • Website: www.targetsiteservices.co.uk

Certificate No: ASC-124 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 3

Not approved to self-certify any categories of work

The following Categories of Work to be supervised: A, B, C, D, E

Taylor Fire Sprinklers Limited

Unit D, Avondale Way, Wakefield, West Yorkshire, WF2 7QU, United Kingdom
Tel: +44 (0)1924 375971
E-mail: info@taylorfiresprinklers.co.uk • Website: www.taylorfiresprinklers.co.uk

Certificate No: ASC-115 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A

The following Categories of Work to be supervised: B, C, D, E

TechniFire Solutions Limited

Elizabeth House, Holding Street, Rainham, Gillingham, Kent, ME8 7JP, United Kingdom
Tel: +44 (0)8454 679 383
E-mail: helpdesk@technifiresolutions.com • Website: www.technifiresolutions.com

Certificate No: ASC-145 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

All Categories of work to be supervised

Test Test V1 To V2

Bucknalls Lane, Garston, Hertfordshire, United Kingdom
Tel: 01528 7956258
E-mail: testtestV2@test.co.uk • Website: www.testtest.com

Certificate No: ASC-TEST-005 to LPS 1048: Issue 5

The following scopes apply:

Test Test V2

Bucknalls Lane, Garston, Hertfordshire, United Kingdom
Tel: 01528 7956258
E-mail: testtestV2@test.co.uk • Website: www.testtest.com

Certificate No: ASC-TEST01 to LPS 1048: Issue 6

The following scopes apply:

Test Test V2 WITH OFFICE

Bucknalls Lane, Garston, Hertfordshire, United Kingdom
Tel: 01528 7956258
E-mail: testtestV2@test.co.uk • Website: www.testtest.com

Certificate No: ASC-TEST to LPS 1048: Issue 6

The following scopes apply, excluding Hackney office:

Tew Plus Limited trading as LB Foster

Kings Cross HQ, 2nd Floor, Grays Inn Road, London, WC1X 8BP, United Kingdom
Tel: +44 (0)203 995 5055
E-mail: Dstark-ext@lbfoster.com • Website: //lbfoster.eu/en/

Certificate No: ASC-147 to LPS 1048

Design, installation and commissioning of industrial & commercial fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

All Categories of work to be supervised

Thameside Fire Protection Co. Limited

Unit 4, Sovereign Park, Cranes Farm Road, Basildon, Essex, SS14 3JD, United Kingdom
Tel: +44 (0)1268 597999
E-mail: darko.petrovic@thamesidefire.co.uk • Website: www.thamesidefire.co.uk

Certificate No: ASC-053 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A

The following Categories of Work to be supervised: B, C, D, E

Thermotech Fire Protection Limited

Thermotech House, Building 1, Hercules Office Park, Bird Hall Lane, Cheadle Hulme, Stockport, Cheshire, SK3 0UX, United Kingdom
Tel: +44 (0)161 476 5551
E-mail: info@thermotechsolutions.co.uk • Website: www.thermotechsolutions.co.uk

Certificate No: ASC-074 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 3

Approved to self-certify the following Categories of Work: A, B

The following Categories of Work to be supervised: C, D, E

ThorFire Limited

Kennet Suite, Earl Business Centre, Earl Marl, Dowry Street, Oldham, OL8 2PF, United Kingdom
Tel: +44 (0)161 339 7736
E-mail: info@thor-fire.co.uk • Website: www.thor-fire.co.uk

Certificate No: ASC-148 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

The following Categories of Work to be supervised: A, B, C

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)

Tyco Park, Grimshaw Lane, Newton Heath, Manchester, M40 2WL, United Kingdom

Tel: +44 (0)161 205 2321

Website: www.tycofis.com

Certificate No: ASC-007 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinkler systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

UK Fire Safety Limited

13-15 Lostock Road, Urmston, Manchester, M41 0ES, United Kingdom

Tel: +44 (0)161 746 8037

E-mail: mroyle@uk-firesafety.co.uk • Website: www.uk-firesafety.co.uk

Certificate No: ASC-098 to

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Not approved to self-certify any categories of work

The following Categories of Work to be supervised: A, B, C, D, E

Watermatic Fire Sprinklers Limited

11 Pleasant View, Macclesfield, SK10 3LJ, United Kingdom

Tel: +44 (0)333 77 22 321

E-mail: info@watermaticfire.co.uk • Website: www.watermaticfire.co.uk

Certificate No: ASC-141 to LPS 1048

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 1

Not approved to self-certify any Category of Work

All Categories of work to be supervised

Woodward & Co Fire Protection Ltd

The Courtyard, Severn Drive, Tewkesbury, Gloucestershire, GL20 8GD, United Kingdom

Tel: +44 (0)1684 850005

E-mail: office@woodward.uk.com • Website: www.woodward.uk.com

Certificate No: ASC-139 to LPS 1048

Design, installation and commissioning of industrial & commercial fire sprinklers systems.

Approver Level 3

Not approved to self-certify any categories of work

The following Categories of Work to be supervised: A, B, C, D, E

Writech Industrial Services Limited

Also including Writech Manufacturing Limited, Mullingar Business Park, Mullingar, Co. Westmeath, N91 Y657, Ireland

Tel: +353 44 9349857

E-mail: info@writechltd.com

Certificate No: ASC-067 to LPS 1048: Issue 6

Design, installation, commissioning and servicing of industrial & commercial and residential & domestic fire sprinklers systems.

Approver Level 3

Not approved to self-certificate any categories of work

The following Categories of Work to be supervised: A, B, C, D, E

LPS 1048 supervising bodies

LPCB Supervising Service

Bucknalls Lane, Watford, Hertfordshire, WD25 9XX, United Kingdom

Tel: +44 (0)333 321 8811

E-mail: activeinstallers@bregroup.com • Website: www.redbooklive.com

Certificate No: n/a to

LPS 1148 APPROVED SPRINKLER CONTRACTORS - OVERSEAS

LPS 1148 is a new scheme for installers of automatic fire sprinkler systems based overseas. This scheme is open to all Contractors operating anywhere in the World except the UK & Ireland and The Netherlands where LPCB operates different schemes for installers of automatic sprinkler systems.

Scheme Structure

There are 4 approval levels for Sprinkler Contractors in the LPS 1148 scheme. Figure 1 below shows the Categories of Work that are allowed to be carried out at each approval level in the LPS 1148 scheme.

Figure 1		Approval Level			
Category of Work		1	2	3	4
A	Pre-calculated ordinary hazard systems, installations, extensions and alterations (excluding water supplies)	✓	✓	✓	✓
B	Pre-calculated high hazard systems, installations, extensions and alterations (excluding water supplies)	✓	✓	✓	✓
C	Town's main water supplies	✓	✓	✓	✓
D	Pumped water supplies	✓	✓	✓	✓
E	Base build contracts (pre-calculated design principles)	X	✓	✓	✓
F	Systems, installations, extensions and alterations involving FHC design principles	X	X	✓	✓

Installation standard

Sprinkler contractors will be assessed for their capability to design, install, test & commission and service (where undertaken) automatic fire sprinkler systems using their national sprinkler standard.

Important note to Specifiers

Specifiers should only use Sprinkler Contractors that are LPS 1148 approved to the appropriate level depending on the type of sprinkler work required, refer to the individual company listings for the approval level of Sprinkler Contractors.

Listing of Sprinkler Contractors

LPS 1148 Approved Sprinkler Contractors are listed alphabetically, regardless of their approval level.

Continual assessment

LPS 1148 approved sprinkler contractors are continually assessed for their continued capability to undertake sprinkler contracts and for their compliance with the requirements of the LPS 1148 scheme.

Certificates of Conformity

In order to ensure that a sprinkler system is effective, specifiers should always request an LPS 1148 Certificate of Conformity. An LPS 1148 Certificate of Conformity may only be issued for a sprinkler system, installation, extension or alteration that is in full compliance with the one of the acceptable installation standards.

Any agreed minor deviations to the installation standard will be recorded on the LPS 1148 Certificate of Conformity. A certificate of conformity cannot be issued if there is a major deviation to the installation standard. It should be noted that a Sprinkler Contractor's Completion Certificate is **NOT** an LPS 1148 Certificate of Conformity.

An LPS 1148 Certificate of Conformity remains valid only if:

1. The sprinkler system user carries out and maintains adequate records of the programme of daily and weekly inspections and checks required by the applicable installation standard, which will also be detailed in the operating and maintenance manual provided by the LPS 1148 Approved Sprinkler contractor, and
2. The sprinkler system is serviced, maintained and inspected strictly in accordance with the applicable installation standard by an LPS 1148 Approved Sprinkler Contractor, and
3. All subsequent repairs, alterations or additions to the sprinkler system are carried out by an LPS 1148 listed Sprinkler Contractors whose level of approval in the LPS 1148 scheme is appropriate to the scope of work carried out.

Supervision

Where an approved Sprinkler Contractor does not meet all the criteria set out in the LPS 1148 scheme document to self-certify any of the Categories of Work allowed under its approval level, it is required to have the Category(ies) of Work that it is not approved to self-certify supervised by the LPCB Supervisory Service.

Supervision involves a review of the design, an inspection of the installed sprinkler protection, and if water supplies are included in the scope of work, witnessing of the water supply proving tests, for compliance with the nominated installation standard. LPS 1148 Certificates of Conformity are then issued by the LPCB Supervisory Service.

Details of the Categories of Work that each approved Sprinkler Contractor can self-certify, can be found in the individual company listings.

Service and maintenance

Installers that undertake service and maintenance work are assessed for their capability to carry out such work in accordance with the nominated installation standard.

Financial assessment

The assessment and listing of Sprinkler Contractors in the LPS 1148 scheme covers only technical and quality aspects. All other contractual requirements are the responsibility of the parties to the contract.

Alberta Fire & Security Equipment Limited

Zone 3, Triq San Gwakkın, Central Business District, Birkirkara, CBD 3030, Malta

Tel: +356 21 443538

E-mail: enquiries@alberta.com.mt • Website: www.alberta.com.mt

Certificate No: ASCO-001 to LPS 1148

Approval Level 4

Approved to self-certify all Categories of Work

No supervision required

QA TEST COMPANY

TEST, TEST, United Kingdom

Tel: TEST • Alt Tel: TEST

E-mail: TEST@TEST.COM

Certificate No: 12341414 to LPS 1673: Issue 1

Certificate No: ASCO-001 to LPS 1148

Design, installation and commissioning of industrial & commercial fire sprinklers systems.

Approver Level 4

Approved to self-certify all categories of work

No supervision required

LPS 1276 TANKS

LPS 1276 Tanks

1) In accordance with the requirements of EN 12845, the following definitions are derived:

Single supply tank A water storage tank which shall be designed and protected against corrosion such that the need for emptying the tank for maintenance is reduced to a period of **not less than 3 years**

Superior supply tank A water storage tank which shall be designed and protected against corrosion such that the need for emptying the tank for maintenance is reduced to a period of **not less than 10 years**

2) Each single-supply or multi-level take-off tank supplied under this approval scheme must not exceed a maximum capacity of 1300m³. Duplicate sub-divided tanks may have a total capacity not exceeding 2600m³, provided the dividing wall is structurally capable of supporting either compartment full whilst the other is empty, and the maximum capacity of each compartment does not exceed 1300m³.

3) It may be necessary for a current Regulations Advisory Scheme, WRAS (formerly WRC), certificate to be held by the manufacturer, specific to each tank listed.

4) Galvanised "Superior" steel tanks shall have the tank shell protected by:

(a) a coating weight of at least 610g/m² each side, with such tank entries marked 'g',
or

(b) an equivalent corrosion protection system which has been specifically approved and listed by the LPCB, with such tank entries marked 'e'.

5) The purchaser shall specify the required tank designation "Superior" or "Single" in accordance with the LPC *Rules for Automatic Sprinkler Installations*, together with the tank reference number.

6) The tank must bear a plate stating:

(i) The name and address of the manufacturer.

(ii) The date of installation.

(iii) The LPCB Reference Number, including the type suffix ("Superior" or "Single") which has been specified by the purchaser and agreed by the manufacturer.

(iv) The maximum capacity in cubic metres. Multi-supply tanks must indicate the capacity for the automatic sprinkler system separately.

Tanks which do not bear such a plate are not approved.

7) Specifiers of LPCB approved sprinkler suction tanks are advised to ensure that where a vortex inhibitor is used in accordance with the LPC Sprinkler Rules, that the vortex inhibitor used is listed in the Vortex Inhibitors section as LPCB approved.

8) Where "Superior" tank shell exteriors are not protected by 610g/m² or equivalent, appropriate inspection, service and maintenance shall be specified. Exterior shell protection of 300g/m² galvanising is set as the minimum acceptable level of exterior protection combined with specified inspection service and maintenance.

9) Immersion heaters used to prevent the ball valve and water in the vicinity from freezing shall be dual element type.

Balmoral Tanks Limited

Llantrisant Business Park, Llantrisant, Pontyclun, CF72 8LF, United Kingdom

Tel: +44 (0)1443 235170

E-mail: watertanksales@balmoral.co.uk • Website: www.balmoraltanks.com

Certificate No: 1761a to LPS 1276: Issue 2.0

Fire Sprinkler Tank

Product Name	Description	LPCB Ref. No.
Fire Sprinkler Tank	Cylindrical Galvanised Sprinkler Tank	1761a/01

Certificate No: 1761b to LPS 1276: Issue 2.0

Fire Sprinkler Tank

Product Name	Description	LPCB Ref. No.
Fire Sprinkler Tank	Sectional GRP Fire Sprinkler Tank	1761b/01

LPS 1276 TANKS

Chevalier (Building Supplies & Engineering) Ltd

22/F., Chevalier Commercial Centre, 8 Wang Hoi Road, Kowloon Bay, Hong Kong
E-mail: jacky_leung@chevalier.com

Certificate No: 1577a to LPS 1276: Issue 2.0

Fire Sprinkler Tank

Product Name	Description	LPCB Ref. No.
Type T1 and T2 Tanks	Hot pressed moulded sectional GRP tanks	1577a/01

CST Industries (UK) Limited

Unit 11A Farmwell Lane, Castlewood Business Park, South Normanton, Derbyshire, DE55 2JX, United Kingdom
Tel: +44 (0)1773 522266
E-mail: phart@cstindustries.com • Website: www.cstindustries.com

Certificate No: 044d to LPS 1276: Issue 2.0

Fire Sprinkler Tank

Product Name	Description	LPCB Ref. No.
Vulcan Storage Tank	Bolted, galvanised steel panel tank lined internally with PVC, butyl rubber or EPDM.	044d/01

Franklin Hodge Industries Ltd.

Jubilee Building, Faraday Road, Westfields Trading Estate, Hereford, HR4 9NS, United Kingdom
Tel: +44 (0)1432 269605
E-mail: sales@franklinhodge.co.uk • Website: www.franklinhodge.com

Certificate No: 037d to LPS 1276: Issue 2.0

Fire Sprinkler Tank

Product Name	Description	LPCB Ref. No.
Firestore – Cylindrical Tank	Bolted, galvanised steel panel tank lined internally with PVC, butyl rubber or EPDM.	037d/01
Firetainer – Rectangular Tank	Bolted, galvanised steel panel tank lined internally with PVC, butyl rubber or EPDM.	037d/02

Tricel (Weston) Limited

Winterstoke Road, Weston-Super-Mare, Somerset, BS24 9AN, United Kingdom
Tel: +44 (0)1934 421477
E-mail: sales@deweywaters.co.uk • Website: www.deweywaters.co.uk

Certificate No: 135c to LPS 1276: Issue 2.0

Sectional GRP Tanks

Product Name	Description	LPCB Ref. No.
Type T1 and T2 Tanks	Hot pressed moulded sectional GRP tanks.	135c/01

LPS 1301 APPROVED SPRINKLER INSTALLERS (RESIDENTIAL AND DOMESTIC)

Automatic sprinklers can be installed in residential and domestic premises to safeguard life, property and the environment yet two thirds of fire fatalities occur in unsprinklered residential and multi-occupancy properties such as care homes and blocks of flats.

Equipment designs and system configurations are constantly evolving. In order to ensure adequate protection, sprinkler system installers need and appropriate technical competency in both design and installation.

LPCB has developed LPS 1301 *Requirements for the approval of Sprinkler Installers in the UK and Ireland for Residential and Domestic Sprinkler Systems*. This scheme was produced with the assistance of installers, fire brigades, local government, insurers and end users.

The key requirements of the scheme are that:-

- The company must be totally responsible for all aspects of the project, including the work of any sub-contractors
- The company has designated permanent employees including a Design Supervisor and an Installation Supervisor who are suitably trained and experienced in their roles
- The company maintains adequate records of all aspects of its activities.

Firms approved under this scheme are audited every 6 months looking at their compliance to LPS 1301 including visits to site.

Ecotect Engineering Limited

5 Underbank Way, Rossendale, Lancashire, BB4 5HR, United Kingdom

Tel: +44 (0)333 456 0011

E-mail: ask@ecotectfire.com • Website: www.ecotectfire.com

Certificate No: ARI-002 to LPS 1301

Design, installation and servicing of residential and domestic sprinkler systems.

Harmony Fire Limited

Clarence House, Watercombe Lane, Lynx Trading Estate, Yeovil, Somerset, BA20 2SU, United Kingdom

Tel: +44 (0)1963 361250

E-mail: info@harmonyfire.co.uk • Website: www.harmonyfire.co.uk

Certificate No: ARI-004 to LPS 1301

Design, installation and servicing of residential and domestic sprinkler systems.

Marlowe Fire & Security Limited

Unit 8, Wilford Industrial Estate, Wilford, Nottingham, NG11 7EP, United Kingdom

Tel: 07891 584 759

E-mail: hello@marlowefireandsecurity.com • Website: www.marlowefireandsecurity.com

Certificate No: ARI-003 to LPS 1301

Design, installation and servicing of residential and domestic sprinkler systems.

QA TEST COMPANY

TEST, TEST, United Kingdom

Tel: TEST • Alt Tel: TEST

E-mail: TEST@TEST.COM

Certificate No: ARI-111 to LPS 1301

TEST SCOPE

METRON ACTUATORS

This section lists products approved in accordance with:

- LPCB Schedule of requirements

Metron actuators listed below have been evaluated in relation to their general performance capability but not in relation to their suitability for specific applications.

LPCB strongly recommends that:

- 1) Care shall be exercised to ensure that the monitoring current specified by the manufacturer is not exceeded.
- 2) The manufacturers installation instructions and product safety instructions shall be followed.
- 3) These devices shall be replaced every ten years.

Chemring Energetics Limited

Ardeer Site, Stevenston, Ayrshire, Scotland, KA20 3LN, United Kingdom

Tel: +44 (0)1294 487007

E-mail: campbell.howie@chemringenergetics.co.uk • Website: www.chemringenergetics.co.uk

Certificate No: 313a to an LPCB schedule of requirements

Protractor 'Metron' Actuators

Product Name	Stroke (mm)	Work Output J (minimum)	Resistance Range Ohms	Allfire Amps (50ms)	Nofire Amps (5 sec)	LPCB Ref. No.
DR2001/C13	3.4	0.69	0.9 to 1.6	0.6	0.3	313a/01
DR2003/C1	3.4	1.18	0.9 to 1.6	0.6	0.3	313a/02
DR2003/C6	3.4	1.18	0.9 to 1.6	0.6	0.3	313a/02
DR2003/C35	3.4	1.18	0.9 to 1.6	0.6	0.3	313a/02
DR2004/C1	9.5	3.43	0.9 to 1.6	0.6	0.3	313a/03
DR2005/C1	9.5	3.43	0.9 to 1.6	0.6	0.3	313a/04
DR2005/C2	9.5	3.43	0.9 to 1.6	0.6	0.3	313a/04
DR2005/C3	9.5	3.43	0.9 to 1.6	0.6	0.3	313a/04
DR2005/C6	9.5	3.43	0.9 to 1.6	0.6	0.3	313a/04
DR2005/C9	9.5	3.43	0.9 to 1.6	0.6	0.3	313a/04
DR2005/C35	9.5	3.43	0.9 to 1.6	0.6	0.3	313a/04
DR2006/C1	13.5	4.9	0.9 to 1.6	0.6	0.3	313a/05
DR2006/C2	13.5	4.9	0.9 to 1.6	0.6	0.3	313a/05
DR2014/C1	9.5	4.9	0.9 to 1.6	0.6	0.3	313a/06
DR2053	3.4	0.8	7 to 12	0.16	0.05	313a/07

MULTI-STAGE FIRE PUMPS

This section lists products approved in accordance with:

- LPS 1131 *Pumps for Automatic Sprinkler Installation. Pump Sets - Requirements and testing methods.*

Firms listed in this section shall control and be responsible for the design, construction, testing and performance of all fire pump sets incorporating their LPCB approved fire pumps.

All fire pump sets incorporating LPCB approved fire pumps shall conform to the *LPC Rules for Automatic Sprinkler Installations*, or Rules specified in the contract, and shall be tested in accordance with the LPCSprinkler Rules.

Only LPCB approved fire pumps shall be used to comply with the *LPC Rules for Automatic Sprinkler Installations*.

Pumps listed in this section are suitable for use in pump sets for high-rise and multi-storey buildings.

SPP Pumps Limited

Crucible Close, Mushet Industrial Park, Coleford, Gloucestershire, GL16 8PS, United Kingdom

Tel: +44 (0)1594 832 701

E-mail: enquiries@spppumps.com • Website: www.spppumps.com

Certificate No: 111b to LPS 1131: Issue 1.2

Multistage Fire Pumps

Product Name	Suction Inlet Diameter/Discharge Outlet Diameter (mm)	Delivery Configuration	Impeller Diameter (mm)	Rated Speed (rev/min)	Rated Flow (1/min) (at NPSHreq. 5.38m)	Rated Head (bar) (at NSPHreq. 5.38m)	Closed Valve Head (bar)	LPCB Ref. No.
CD10K 2-5 stage Multistream multistage pump	125/100	(1) Single stage - closed stage or final outlet	219	2950	2800	4.8	7.0	111b/22
CD10K 2-5 stage Multistream multistage pump	-	-	202	2950	2800	3.3	5.5	111b/22
CD10K 2-5 stage Multistream multistage pump	-	(2) Single stage - intermediate outlet	219	2950	2800	3.7	7.5	111b/22
CD10K 2-5 stage Multistream multistage pump	-	-	202	2950	2800	1.4	5.9	111b/22
CD10K 2-5 stage Multistream multistage pump	-	(3) Final outlet of five stage pump	219	2950	2800	24.0	35.0	111b/22
CD10K 2-5 stage Multistream multistage pump	-	-	202	2950	2800	16.5	27.5	111b/22

Certificate No: 111b to LPS 1131: Issue 1.2

CD12K 2-10 stage Multistream multistage pump

Product Name	Suction Inlet Diameter/Discharge Outlet diameter (mm)	Delivery Configuration	Impeller Diameter (mm)	Rated Speed (rev/min)	Rated Flow* (L/min) (at NPSHreq 5.38m)	Rated Head (bar) (at NSPHreq 5.38m)	Closed Valve Head (bar)
CD12K 2-10 stage Multistream multistage pump	150/125	(1) Single stage - closed stage or final outlet	308	1470	4290	2.3	3.7
CD12K 2-10 stage Multistream multistage pump	-	-	247	1470	3930	0.5	2.2
CD12K 2-10 stage Multistream multistage pump	-	(2) Single stage - intermediate outlet	308	1470	4290	0.8	3.7
CD12K 2-10 stage Multistream multistage pump	-	-	247	1470	3930	(-ve)	2.2
CD12K 2-10 stage	-	(3) Final outlet of ten stage pump	308	1470	4290	23.0	37.0

MULTI-STAGE FIRE PUMPS

Multistream multistage pump								
CD12K 2-10 stage Multistream multistage pump	-	-	247	1470	3930	5.0	22.0	

MULTIPLE JET CONTROLS

This section lists products approved in accordance with:

- LPCB Schedule of requirements

Multiple Jet Controls for use under the *LPC Rules for Automatic Sprinkler Installations* have been approved to a schedule of requirements developed by LPCB. The products shall be installed and maintained in accordance with the manufacturer's instructions.

GW Sprinkler A/S

Kastanievej 15, Glamsbjerg, DK-5620 , Denmark

Tel: +45 64 72 2055

E-mail: sales.dep@gwsprinkler.com

Certificate No: 084f to an LPCB Schedule of Requirements

GW Multiple Control Model B/B3

Product Name	Description	LPCB Ref. No
GW Multiple Control Model B	(Double Outlet) 40mm Glass bulb type	084f/01
GW Multiple Control Model B	(Double Outlet) 50mm Glass bulb type.	084f/02
GW Multiple Control Model B3	(Single Outlet) 20mm Glass bulb type. Tested to the FOC Requirements and Testing Methods for Multiple Controls, April 1984 and approved with plain and chromium finish.	084f/03

Tyco Fire Products Manufacturing Limited (Stockport)

Stockport Trading Estate, Yew Street, Stockport, Cheshire, SK4 2JW, United Kingdom

Tel: +44 (0)161 429 3400

Website: www.tfpemea.com

Certificate No: 007f to

Tyco Multiple Jet Control

Product Name	Description	LPCB Ref. No
Tyco Multiple Jet Control	(Double Outlet) 20mm Glass bulb type. A corrosion-resistant coating for the body and yoke has been approved under the LPC Rules for automatic sprinkler installations.	007f/01
Tyco Multiple Jet Control	(Single Outlet) 20mm Glass bulb type. A corrosion-resistant coating for the body and yoke has been approved under the LPC Rules for automatic sprinkler installations.	007f/02
Tyco Multiple Jet Control	(Double Outlet) ¹ 25mm, 40mm and 50mm Glass bulb type (68°C only)	007f/03

Note:

1) May also be used as a single outlet (with one outlet blanked off).

PIPE COUPLINGS AND FITTINGS

This section lists products approved in accordance with:

- LPS 1219 *Specification for Pipe Couplings*

All pipe couplings and fittings should be the subject of a maintenance contract, satisfying the requirements of the *LPC Rules for Automatic Sprinkler Installations*.

Aalberts Integrated Piping Systems APAC Inc

No 295, Sec 3, Wandan Road, Wandan Township, Pingtung County 91345, Taiwan ROC

Tel: +886 8 752 5877

E-mail: info.apac@aalberts-ips.com • Website: www.shurjoint.com

Certificate No: 448a to LPS 1219

Pipe Couplings (SHURJOINT)

Product Name	Nominal Size(mm)	Pipe OutsideDiameter(mm)	Pipe Ends	GasketType	Maximum WorkingPressure(bar)	LPCB Ref. No.
Fig. 7705	50	60.3	R&C	EPDM	20	448a/01
Fig. 7705	65	76.1	R&C	EPDM	20	448a/01
Fig. 7705	80	88.9	R&C	EPDM	20	448a/01
Fig. 7705	100	114.3	R&C	EPDM	20	448a/01
Fig. 7705	125	139.7	R&C	EPDM	20	448a/01
Fig. 7705	150	165.1	R&C	EPDM	20	448a/01
Fig. 7705	200	219.1	R&C	EPDM	20	448a/01
Fig. K-9 Dogtooth	32	42.4	R&C	EPDM	15	448a/02
Fig. K-9 Dogtooth	40	48.3	R&C	EPDM	15	448a/02
Fig. K-9 Dogtooth	50	60.3	R&C	EPDM	12	448a/02
Fig. K-9 Dogtooth	65	76.1	R&C	EPDM	12	448a/02
Fig. K-9 Dogtooth	80	88.9	R&C	EPDM	12	448a/02
Fig. K-9 Dogtooth	100	114.3	R&C	EPDM	12	448a/02
Fig. K-9 Dogtooth	125	139.7	R&C	EPDM	15	448a/02
Fig. K-9 Dogtooth	150	165.1	R&C	EPDM	12	448a/02
Fig. K-9 Dogtooth	200	219.1	R&C	EPDM	15	448a/02
Rigid Coupling Model K-9H	200	219.1	R&C	EPDM	20	448a/16
Reducing Coupling Fig. 7706	50 x 40	60.3 x 48.3	R&C	EPDM	20	448a/03
Reducing Coupling Fig. 7706	65 x 50	76.1 x 60.3	R&C	EPDM	20	448a/03
Reducing Coupling Fig. 7706	80 x 50	88.9 x 60.3	R&C	EPDM	20	448a/03
Reducing Coupling Fig. 7706	80 x 65	88.9 x 76.1	R&C	EPDM	20	448a/03
Reducing Coupling Fig. 7706	100 x 50	114.3 x 60.3	R&C	EPDM	20	448a/03
Reducing Coupling Fig. 7706	100 x 65	114.3 x 76.1	R&C	EPDM	20	448a/03
Reducing Coupling Fig. 7706	100 x 80	114.3 x 88.9	R&C	EPDM	20	448a/03
Reducing Coupling Fig. 7706	150 x 100	165.1 x 114.3	R&C	EPDM	20	448a/03
Reducing Coupling Fig. 7706	200 x 150	219.1 x 165.1	R&C	EPDM	16	448a/03
Mechanical Tees Model 7721	65 x 32	76.1 x 42.4	T	EPDM	20	448a/04
Mechanical Tees Model 7721	65 x 40	76.1 x 48.3	T	EPDM	20	448a/04
Mechanical Tees Model 7721	80 x 32	88.9 x 42.4	T	EPDM	20	448a/04
Mechanical Tees Model 7721	80 x 40	88.9 x 48.3	T	EPDM	20	448a/04
Mechanical Tees Model 7721	80 x 50	88.9 x 60.3	T	EPDM	20	448a/04
Mechanical Tees Model 7721	100 x 32	114.3 x 42.4	T	EPDM	20	448a/04
Mechanical Tees Model 7721	100 x 40	114.3 x 48.3	T	EPDM	20	448a/04
Mechanical Tees Model 7721	100 x 50	114.3 x 60.3	T	EPDM	20	448a/04
Mechanical Tees Model 7721	100 x 65	114.3 x 76.1	T	EPDM	20	448a/04
Mechanical Tees Model 7721	100 x 80	114.3 x 88.9	T	EPDM	20	448a/04
Mechanical Tees Model 7721	150 x 32	165.1 x 42.4	T	EPDM	20	448a/04
Mechanical Tees Model 7721	150 x 40	165.1 x 48.3	T	EPDM	20	448a/04
Mechanical Tees Model 7721	150 x 50	165.1 x 60.3	T	EPDM	20	448a/04
Mechanical Tees Model 7721	150 x 65	165.1 x 76.1	T	EPDM	20	448a/04
Mechanical Tees Model 7721	150 x 80	165.1 x 88.9	T	EPDM	20	448a/04
Mechanical Tees Model 7721	150 x 100	165.1 x 114.3	T	EPDM	20	448a/04
Fig. 7722	80 x 40	88.9 x 48.3	G	EPDM	20	448a/05
Fig. 7722	80 x 50	88.9 x 60.3	G	EPDM	20	448a/05
Fig. 7722	100 x 40	114.3 x 48.3	G	EPDM	20	448a/05
Fig. 7722	100 x 50	114.3 x 60.3	G	EPDM	20	448a/05
Fig. 7722	100 x 65	114.3 x 76.1	G	EPDM	20	448a/05
Fig. 7722	100 x 80	114.3 x 88.9	G	EPDM	20	448a/05
Fig. 7722	150 x 40	165.1 x 48.3	G	EPDM	20	448a/05
Fig. 7722	150 x 50	165.1 x 60.3	G	EPDM	20	448a/05
Fig. 7722	150 x 65	165.1 x 76.1	G	EPDM	20	448a/05
Fig. 7722	150 x 80	165.1 x 88.9	G	EPDM	20	448a/05

PIPE COUPLINGS AND FITTINGS

Fig. 7722	150 x 100	165.1 x 114.3	G	EPDM	20	448a/05
Fig. 723	32 x 15	42.2 x 21.3	T	EPDM	12	448a/06
Fig. 723	32 x 20	42.2 x 26.7	T	EPDM	12	448a/06
Fig. 723	32 x 25	42.2 x 33.7	T	EPDM	12	448a/06
Fig. 723	40 x 15	48.3 x 21.3	T	EPDM	12	448a/06
Fig. 723	40 x 20	48.3 x 26.7	T	EPDM	12	448a/06
Fig. 723	40 x 25	48.3 x 33.7	T	EPDM	12	448a/06
Fig. 723	50 x 15	60.3 x 21.3	T	EPDM	12	448a/06
Fig. 723	50 x 20	60.3 x 26.7	T	EPDM	12	448a/06
Fig. 723	50 x 25	60.3 x 33.7	T	EPDM	12	448a/06
Fig. 723	65 x 15	76.1 x 21.3	T	EPDM	12	448a/06
Fig. 723	65 x 20	76.1 x 26.7	T	EPDM	12	448a/06
Fig. 723	65 x 25	76.1 x 33.7	T	EPDM	12	448a/06
Transition Flange Model 7041	50	60.3	R&C	EPDM	16	448a/15
Transition Flange Model 7041	65	76.1	R&C	EPDM	16	448a/15
Transition Flange Model 7041	80	88.9	R&C	EPDM	16	448a/15
Transition Flange Model 7041	100	114.3	R&C	EPDM	16	448a/15
Transition Flange Model 7041	150	165.1	R&C	EPDM	16	448a/15
Transition Flange Model 7041	200	219.1	R&C	EPDM	16	448a/15
Angle Pad Rigid Coupling Model Z05	32	42.4	R&C	EPDM	12	448a/16
Angle Pad Rigid Coupling Model Z05	40	48.3	R&C	EPDM	12	448a/16
Angle Pad Rigid Coupling Model Z05	50	60.3	R&C	EPDM	12	448a/16
Angle Pad Rigid Coupling Model Z05	65	76.1	R&C	EPDM	12	448a/16
Angle Pad Rigid Coupling Model Z05	80	88.9	R&C	EPDM	12	448a/16
Angle Pad Rigid Coupling Model Z05	100	114.3	R&C	EPDM	12	448a/16
Angle Pad Rigid Coupling Model Z05	125	139.7	R&C	EPDM	12	448a/16
Angle Pad Rigid Coupling Model Z05	150	165.1	R&C	EPDM	12	448a/16
Angle Pad Rigid Coupling Model Z05	200	219.1	R&C	EPDM	12	448a/16
Angle Pad Rigid Coupling Model Z07	32	42.4	R&C	EPDM	20	448a/17
Angle Pad Rigid Coupling Model Z07	40	48.3	R&C	EPDM	20	448a/17
Angle Pad Rigid Coupling Model Z07	50	60.3	R&C	EPDM	20	448a/17
Angle Pad Rigid Coupling Model Z07	65	76.1	R&C	EPDM	20	448a/17
Angle Pad Rigid Coupling Model Z07	80	88.9	R&C	EPDM	20	448a/17
Angle Pad Rigid Coupling Model Z07	100	114.3	R&C	EPDM	20	448a/17
Angle Pad Rigid Coupling Model Z07	125	139.7	R&C	EPDM	20	448a/17
Angle Pad Rigid Coupling Model Z07	150	165.1	R&C	EPDM	20	448a/17
Angle Pad Rigid Coupling Model Z07	200	219.1	R&C	EPDM	20	448a/17
Angle Pad Rigid Coupling Model Z07	250	273.0	R&C	EPDM	20	448a/17
Angle Pad Rigid Coupling Model Z07	300	323.9	R&C	EPDM	20	448a/17

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Pipe Fittings (SHURJOINT)

Product Name	Pipe Outside Diameter (mm)	Maximum Working Pressure (bar)	LPCB Ref. No.
90° Elbows Fig. 7110	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 219.1	20	448a/07
45° Elbows Fig. 7111	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 219.1	20	448a/08
Tees - Fig. 7120	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 219.1	20	448a/09
Caps. - Fig. 7160	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 219.1	20	448a/10
Concentric reducer - Fig. 7150	76.1 x 60.3, 88.9 x 60.3, 88.9 x 76.1, 114.3 x 60.3, 114.3 x 76.1, 114.3 x 88.9, 165.1 x 88.9, 165.1 x 114.3, 219.1 x 165.1	20	448a/11
Reducing tee - Fig. 7121	114.3 x 114.3 x 76.1, 114.3 x 114.3 x 88.9, 165.1 x 165.1 x 88.9, 219.1 x 219.1 x 114.3, 219.1 x 219.1 x 165.1	20	448a/12
Pitcher Tee - Fig 7133	114.3 x 114.3 x 76.1, BSP thread	20	448a/14
Short Radius 90° Elbow - Fig 901	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 219.1	20	448a/18
Short Radius Tee - Fig 903	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 219.1	20	448a/19

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'Gr8LOK' Pipe Couplings

Product Name	Nominal Size	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Fig 8000 - Flexible Coupling	25	33.7	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	32	42.4	R&C	EPDM	25	988Ea/01

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Fig 8000 - Flexible Coupling	40	48.3	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	50	60.3	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	65	73.0	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	65	76.1	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	80	88.9	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	100	108.0	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	100	114.3	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	125	133.0	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	125	139.7	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	125	141.3	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	150	159.0	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	150	165.1	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	150	168.3	R&C	EPDM	25	988Ea/01
Fig 8000 - Flexible Coupling	200	219.1	R&C	EPDM	25	988Ea/01
Fig 8400 - Rigid Coupling	25	33.7	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	32	42.4	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	40	48.3	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	50	60.3	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	65	73.0	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	65	76.1	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	80	88.9	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	100	108.0	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	100	114.3	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	125	133.0	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	125	139.7	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	125	141.3	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	150	159.0	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	150	165.1	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	150	168.3	R&C	EPDM	25	988Ea/02
Fig 8400 - Rigid Coupling	200	219.1	R&C	EPDM	25	988Ea/02
Fig 8010 - Reducing Flexible Coupling	50 x 40	60.3 x 48.3	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	65 x 50	73.0 x 60.3	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	65 x 40	76.1 x 48.3	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	65 x 50	76.1 x 60.3	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	80 x 50	88.9 x 60.3	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	80 x 65	88.9 x 73.0	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	80 x 65	88.9 x 76.1	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	100 x 50	114.3 x 60.3	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	100 x 65	114.3 x 73.0	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	100 x 65	114.3 x 76.1	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	100 x 80	114.3 x 88.9	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	150 x 100	165.1 x 114.3	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	150 x 100	168.3 x 114.3	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	200 x 150	219.1 x 165.1	R&C	EPDM	16	988Ea/03
Fig 8010 - Reducing Flexible Coupling	200 x 150	219.1 x 168.3	R&C	EPDM	16	988Ea/03
Fig 8400S - Light Duty Rigid Coupling	80	88.9	R&C	EPDM	16	988Ea/04
Fig 8400S - Light Duty Rigid Coupling	100	108.0	R&C	EPDM	16	988Ea/04
Fig 8400S - Light Duty Rigid Coupling	100	114.3	R&C	EPDM	16	988Ea/04
Fig 8400S - Light Duty Rigid Coupling	125	139.7	R&C	EPDM	16	988Ea/04
Fig 8400S - Light Duty Rigid Coupling	125	141.3	R&C	EPDM	16	988Ea/04
Fig 8400S - Light Duty Rigid Coupling	150	159.0	R&C	EPDM	16	988Ea/04
Fig 8400S - Light Duty Rigid Coupling	150	165.1	R&C	EPDM	16	988Ea/04
Fig 8400S - Light Duty Rigid Coupling	150	168.3	R&C	EPDM	16	988Ea/04
Fig 8400S - Light Duty Rigid Coupling	200	219.1	R&C	EPDM	16	988Ea/04
Fig 8045 - Mechanical Tee, Threaded Outlet	100 x 65	114.3 x 76.1	T	EPDM	16	988Ea/05
Fig 8045 - Mechanical Tee, Threaded Outlet	100 x 80	114.3 x 88.9	T	EPDM	16	988Ea/05
Fig 8045 - Mechanical Tee, Threaded Outlet	125 x 65	139.7 x 76.1	T	EPDM	16	988Ea/05
Fig 8045 - Mechanical Tee, Threaded Outlet	125 x 80	139.7 x 88.9	T	EPDM	16	988Ea/05
Fig 8045 - Mechanical Tee, Threaded Outlet	125 x 100	139.7 x 114.3	T	EPDM	16	988Ea/05
Fig 8045 - Mechanical Tee, Threaded Outlet	150 x 65	165.1 x 76.1	T	EPDM	16	988Ea/05
Fig 8045 - Mechanical Tee, Threaded Outlet	150 x 80	165.1 x 88.9	T	EPDM	16	988Ea/05
Fig 8045 - Mechanical Tee, Threaded Outlet	150 x 100	165.1 x 114.3	T	EPDM	16	988Ea/05
Fig 8045 - Mechanical Tee, Threaded Outlet	150 x 65	168.3 x 76.1	T	EPDM	16	988Ea/05
Fig 8045 - Mechanical Tee, Threaded Outlet	150 x 80	168.3 x 88.9	T	EPDM	16	988Ea/05
Fig 8045 - Mechanical Tee, Threaded Outlet	150 x 100	168.3 x 114.3	T	EPDM	16	988Ea/05
Fig 8045 - Mechanical Tee, Threaded Outlet	200 x 65	219.1 x 76.1	T	EPDM	16	988Ea/05
Fig 8045 - Mechanical Tee, Threaded Outlet	200 x 80	219.1 x 88.9	T	EPDM	16	988Ea/05
Fig 8045 - Mechanical Tee, Threaded Outlet	200 x 100	219.1 x 114.3	T	EPDM	16	988Ea/05
Fig 8046 - Mechanical Tee, Grooved Outlet	100 x 65	114.3 x 76.1	G	EPDM	16	988Ea/06
Fig 8046 - Mechanical Tee, Grooved Outlet	100 x 80	114.3 x 88.9	G	EPDM	16	988Ea/06
Fig 8046 - Mechanical Tee, Grooved Outlet	125 x 65	139.7 x 76.1	G	EPDM	16	988Ea/06
Fig 8046 - Mechanical Tee, Grooved Outlet	125 x 80	139.7 x 88.9	G	EPDM	16	988Ea/06
Fig 8046 - Mechanical Tee, Grooved Outlet	125 x 100	139.7 x 114.3	G	EPDM	16	988Ea/06

PIPE COUPLINGS AND FITTINGS

Fig 8046 - Mechanical Tee, Grooved Outlet	150 x 65	165.1 x 76.1	G	EPDM	16	988Ea/06
Fig 8046 - Mechanical Tee, Grooved Outlet	150 x 80	165.1 x 88.9	G	EPDM	16	988Ea/06
Fig 8046 - Mechanical Tee, Grooved Outlet	150 x 100	165.1 x 114.3	G	EPDM	16	988Ea/06
Fig 8046 - Mechanical Tee, Grooved Outlet	150 x 65	168.3 x 76.1	G	EPDM	16	988Ea/06
Fig 8046 - Mechanical Tee, Grooved Outlet	150 x 80	168.3 x 88.9	G	EPDM	16	988Ea/06
Fig 8046 - Mechanical Tee, Grooved Outlet	150 x 100	168.3 x 114.3	G	EPDM	16	988Ea/06
Fig 8046 - Mechanical Tee, Grooved Outlet	200 x 65	219.1 x 76.1	G	EPDM	16	988Ea/06
Fig 8046 - Mechanical Tee, Grooved Outlet	200 x 80	219.1 x 88.9	G	EPDM	16	988Ea/06
Fig 8046 - Mechanical Tee, Grooved Outlet	200 x 100	219.1 x 114.3	G	EPDM	16	988Ea/06
Fig 8012 - Grooved Flange	40	48.3	R&C	EPDM	16	988Ea/08
Fig 8012 - Grooved Flange	50	60.3	R&C	EPDM	16	988Ea/08
Fig 8012 - Grooved Flange	65	76.1	R&C	EPDM	16	988Ea/08
Fig 8012 - Grooved Flange	80	88.9	R&C	EPDM	16	988Ea/08
Fig 8012 - Grooved Flange	100	114.3	R&C	EPDM	16	988Ea/08
Fig 8012 - Grooved Flange	125	139.7	R&C	EPDM	16	988Ea/08
Fig 8012 - Grooved Flange	150	165.1	R&C	EPDM	16	988Ea/08
Fig 8012 - Grooved Flange	150	168.3	R&C	EPDM	16	988Ea/08
Fig 8012 - Grooved Flange	200	219.1	R&C	EPDM	16	988Ea/08

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'Gr8LOK' Pipe Fittings

Product Name	Pipe Outside Diameter (mm)	Max Working Pressure (bar)	LPCB Ref. No.
Fig 8050 - 90° Elbow	33.7 , 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Ea/09
Fig 8450 - 90° Short Elbow	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	16	988Ea/10
Fig 8060 - Tee	33.7 , 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Ea/11
Fig 8460 - Short Tee	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	16	988Ea/12
Fig 8051 - 45° Elbow	33.7 , 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Ea/13
Fig 8074 - Cap	33.7 , 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Ea/14
Fig 8068 - Cross	42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Ea/15
Fig 8052 - 22.5° Elbow	76.1, 88.9, 114.3, 139.7, 165.1, 219.1	25	988Ea/16
Fig 8053 - 11.25° Elbow	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 219.1	25	988Ea/17
Fig 8084 - Adaptor Flange	33.7 , 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	16	988Ea/18
Fig. 8072 Concentric Reducer Grooved	42.4 x 33.7, 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 168.3	25	988Ea/19
Fig. 8087 Concentric Reducer Threaded	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	25	988Ea/20
Fig 8061 - Reducing Tee	60.3 x 33.7, 60.3 x 48.3, 76.1 x 48.3, 76.1 x 60.3, 88.9 x 33.7, 88.9 x 48.3, 88.9 x 60.3, 88.9 x 76.1, 114.3 x 33.7, 114.3 x 48.3, 114.3 x 60.3, 114.3 x 76.1, 114.3 x 88.9, 139.7 x 114.3, 165.1 x 88.9, 165.1 x 114.3, 165.1 x 139.7, 168.3 x 60.3, 168.3 x 76.1, 168.3 x 88.9, 168.3 x 114.3, 168.3 x 139.7, 219.1 x 60.3, 219.1 x 88.9, 219.1 x 114.3, 219.1 x 168.3	25	988Ea/21

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Pipe Couplings

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Flexible Coupling Fig 1N	25	33.7	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	32	42.4	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	40	48.3	R&C	EPDM	25	988a/01

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Flexible Coupling Fig 1N	50	60.3	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	65	73	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	65	76.1	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	80	88.9	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	100	108	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	100	114.3	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	125	133	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	125	139.7	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	125	141.3	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	150	159	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	150	165.1	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	150	168.3	R&C	EPDM	25	988a/01
Flexible Coupling Fig 1N	200	219.1	R&C	EPDM	25	988a/01
Rigid Coupling Fig 1G	25	33.7	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	32	42.4	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	40	48.3	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	50	60.3	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	65	73	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	65	76.1	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	80	88.9	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	100	108	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	100	114.3	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	125	133	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	125	139.7	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	125	141.3	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	150	159	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	150	165.1	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	150	168.3	R&C	EPDM	25	988a/02
Rigid Coupling Fig 1G	200	219.1	R&C	EPDM	25	988a/02
Reducing Flexible Coupling Fig 1N	50 x 32	60.3x42.4	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	50 x 40	60.3x48.3	R&C	EPDM	15	988a/03
Reducing Flexible Coupling Fig 1N	65 x 50	73x0x60.3	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	65 x 40	76.1x48.3	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	65 x 50	76.1x60.3	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	80 x 50	88.9x60.3	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	80 x 60	88.9 x 73	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	80 x 65	88.9 x 76.1	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	100 x 50	114.3 x 60.3	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	100 x 60	114.3 x 73.0	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	100 x 65	114.3 x 76.1	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	100 x 80	114.3 x 88.9	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	150 x 100	165.1 x 114.3	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	150 x 100	168.3 x 114.3	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	200 x 150	219.1 x 165.1	R&C	EPDM	16	988a/03
Reducing Flexible Coupling Fig 1N	200 x 150	219.1 x 168.3	R&C	EPDM	16	988a/03
Light Duty Rigid Coupling Fig 1GS	65	76.1	R&C	EPDM	16	988a/04
Light Duty Rigid Coupling Fig 1GS	80	88.9	R&C	EPDM	16	988a/04
Light Duty Rigid Coupling Fig 1GS	100	108	R&C	EPDM	16	988a/04
Light Duty Rigid Coupling Fig 1GS	100	114.3	R&C	EPDM	16	988a/04
Light Duty Rigid Coupling Fig 1GS	125	139.7	R&C	EPDM	16	988a/04
Light Duty Rigid Coupling Fig 1GS	125	141.3	R&C	EPDM	16	988a/04
Light Duty Rigid Coupling Fig 1GS	150	159	R&C	EPDM	16	988a/04
Light Duty Rigid Coupling Fig 1GS	150	165.1	R&C	EPDM	16	988a/04
Light Duty Rigid Coupling Fig 1GS	150	168.3	R&C	EPDM	16	988a/04
Light Duty Rigid Coupling Fig 1GS	200	219.1	R&C	EPDM	16	988a/04
Threaded Mechanical Tee Fig 3J	100 x 65	114.3 x 76.1	T	EPDM	16	988a/05
Threaded Mechanical Tee Fig 3J	100 x 80	114.3 x 88.9	T	EPDM	16	988a/05
Threaded Mechanical Tee Fig 3J	125 x 65	139.7 x 76.1	T	EPDM	16	988a/05
Threaded Mechanical Tee Fig 3J	125 x 80	139.7 x 88.9	T	EPDM	16	988a/05
Threaded Mechanical Tee Fig 3J	125 x 100	139.7 x 114.3	T	EPDM	16	988a/05
Threaded Mechanical Tee Fig 3J	150 x 65	165.1 x 76.1	T	EPDM	16	988a/05
Threaded Mechanical Tee Fig 3J	150 x 80	165.1 x 88.9	T	EPDM	16	988a/05
Threaded Mechanical Tee Fig 3J	150 x 100	165.1 x 114.3	T	EPDM	16	988a/05
Threaded Mechanical Tee Fig 3J	150 x 65	168.3 x 76.1	T	EPDM	16	988a/05
Threaded Mechanical Tee Fig 3J	150 x 80	168.3 x 88.9	T	EPDM	16	988a/05
Threaded Mechanical Tee Fig 3J	150 x 100	168.3 x 114.3	T	EPDM	16	988a/05
Threaded Mechanical Tee Fig 3J	200 x 65	219.1 x 76.1	T	EPDM	16	988a/05
Threaded Mechanical Tee Fig 3J	200 x 80	219.1 x 88.9	T	EPDM	16	988a/05
Threaded Mechanical Tee Fig 3J	200 x 100	219.1 x 114.3	T	EPDM	16	988a/05
Grooved Mechanical Tee Fig 3G	100 x 65	114.3 x 76.1	G	EPDM	16	988a/06
Grooved Mechanical Tee Fig 3G	100 x 80	114.3 x 88.9	G	EPDM	16	988a/06
Grooved Mechanical Tee Fig 3G	125 x 65	139.7 x 76.1	G	EPDM	16	988a/06
Grooved Mechanical Tee Fig 3G	125 x 80	139.7 x 88.9	G	EPDM	16	988a/06

PIPE COUPLINGS AND FITTINGS

Grooved Mechanical Tee Fig 3G	125 x 100	139.7 x 114.3	G	EPDM	16	988a/06
Grooved Mechanical Tee Fig 3G	150 x 65	165.1 x 76.1	G	EPDM	16	988a/06
Grooved Mechanical Tee Fig 3G	150 x 80	165.1 x 88.9	G	EPDM	16	988a/06
Grooved Mechanical Tee Fig 3G	150 x 100	165.1 x 114.3	G	EPDM	16	988a/06
Grooved Mechanical Tee Fig 3G	150 x 65	168.3 x 76.1	G	EPDM	16	988a/06
Grooved Mechanical Tee Fig 3G	150 x 80	168.3 x 88.9	G	EPDM	16	988a/06
Grooved Mechanical Tee Fig 3G	150 x 100	168.3 x 114.3	G	EPDM	16	988a/06
Grooved Mechanical Tee Fig 3G	200 x 65	219.1 x 76.1	G	EPDM	16	988a/06
Grooved Mechanical Tee Fig 3G	200 x 80	219.1 x 88.9	G	EPDM	16	988a/06
Grooved Mechanical Tee Fig 3G	200 x 100	219.1 x 114.3	G	EPDM	16	988a/06
Grooved Flange Fig 321	40	48.3	R&C	EPDM	16	988a/08
Grooved Flange Fig 321	50	60.3	R&C	EPDM	16	988a/08
Grooved Flange Fig 321	65	76.1	R&C	EPDM	16	988a/08
Grooved Flange Fig 321	80	88.9	R&C	EPDM	16	988a/08
Grooved Flange Fig 321	100	114.3	R&C	EPDM	16	988a/08
Grooved Flange Fig 321	125	139.7	R&C	EPDM	16	988a/08
Grooved Flange Fig 321	150	165.1	R&C	EPDM	16	988a/08
Grooved Flange Fig 321	150	168.3	R&C	EPDM	16	988a/08
Grooved Flange Fig 321	200	219.1	R&C	EPDM	16	988a/08

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Pipe Fittings

Product Name	Pipe Outside Diameter (mm)	Max Working Pressure (bar)	LPCB Ref. No.
90° Elbow Fig 90	33.7 , 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988a/09
Short Style 90° Elbow Fig 90S	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	16	988a/10
Tee Fig 130	33.7 , 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988a/11
Short Style Tee Fig 130S	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	16	988a/12
45° Elbow Fig 120	33.7 , 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988a/13
Cap Fig 300	33.7 , 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1, 273.0, 323.9	25	988a/14
Cross Fig 180	42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988a/15
22.5° Elbow Fig 110	76.1, 88.9, 114.3, 139.7, 165.1, 219.1	25	988a/16
11.25° Elbow Fig 105	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 219.1	25	988a/17
Adaptor Flange Fig 321G	33.7 , 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	16	988a/18
Concentric Reducer Grooved Fig 240	42.4 x 33.7, 48.3 x 33.7, 48.3 x 42.4, 60.3 x 33.7, 60.3 x 42.4, 60.3 x 48.3, 76.1 x 42.4, 76.1 x 48.3, 76.1 x 60.3, 88.9 x 60.3, 88.9 x 76.1, 114.3 x 48.3, 114.3 x 60.3, 114.3 x 76.1, 114.3 x 88.9, 139.7 x 114.3, 165.1 x 88.9, 165.1 x 114.3, 165.1 x 139.7, 168.3 x 114.3, 168.3 x 139.7, 219.1 x 88.9, 219.1 x 114.3, 219.1 x 139.7, 219.1 x 168.3	25	988a/19
Concentric Reducer Threaded Fig 240N	60.3 x 26.9, 60.3 x 33.7, 60.3 x 42.4, 60.3 x 48.3, 76.1 x 42.4, 76.1 x 48.3, 76.1 x 60.3, 88.9 x 60.3, 88.9 x 76.1, 114.3 x 48.3, 114.3 x 60.3, 114.3 x 76.1, 114.3 x 88.9, 139.7 x 114.3, 165.1 x 88.9, 219.1 x 88.9	25	988a/20
Reducing Tee Fig 130R	60.3 x 33.7, 60.3 x 48.3, 76.1 x 48.3, 76.1 x 60.3, 88.9 x 33.7, 88.9 x 48.3, 88.9 x 60.3, 88.9 x 76.1, 114.3 x 33.7, 114.3 x 48.3, 114.3 x 60.3, 114.3 x 76.1, 114.3 x 88.9, 139.7 x 114.3, 165.1 x 88.9, 165.1 x 114.3, 165.1 x 139.7, 168.3 x 60.3, 168.3 x 76.1, 168.3 x 88.9, 168.3 x 114.3, 168.3 x 139.7, 219.1 x 60.3, 219.1 x 88.9, 219.1 x 114.3, 219.1 x 168.3	25	988a/21

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Certificate No: 1118b to LPS 1219: Issue 3.1

Pipe Couplings

Product Name	Nominal size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Type 900	32	42.4	R&C	EPDM	21	1118b/01
Type 900	40	48.3	R&C	EPDM	21	1118b/01
Type 900	50	60.3	R&C	EPDM	21	1118b/01

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Type 900	65	76.1	R&C	EPDM	21	1118b/01
Type 900	80	88.9	R&C	EPDM	21	1118b/01
Type 900	100	114.3	R&C	EPDM	21	1118b/01
Type 900	125	139.7	R&C	EPDM	21	1118b/01
Type 900	150	168.3	R&C	EPDM	21	1118b/01
Type 900	200	219.1	R&C	EPDM	21	1118b/01
Type 900	25	33.7	R&C	EPDM	20	1118b/01
Type 900	65	73.0	R&C	EPDM	21	1118b/01
Type 900	150	165.1	R&C	EPDM	21	1118b/01
Type 900	250	273.0	R&C	EPDM	20	1118b/01
Type 900	300	323.9	R&C	EPDM	20	1118b/01
Type 901	32	42.4	R&C	EPDM	20	1118b/07
Type 901	40	48.3	R&C	EPDM	20	1118b/07
Type 901	50	60.3	R&C	EPDM	20	1118b/07
Type 901	65	76.1	R&C	EPDM	20	1118b/07
Type 901	80	88.9	R&C	EPDM	20	1118b/07
Type 901	100	114.3	R&C	EPDM	20	1118b/07
Type 901	125	139.7	R&C	EPDM	20	1118b/07
Type 901	150	165.1	R&C	EPDM	20	1118b/07
Type 901	150	168.3	R&C	EPDM	20	1118b/07
Type 901	200	219.1	R&C	EPDM	20	1118b/07

Certificate No: 1118b to

Pipe Fittings

Product Name	Model No.	Pipe Outside Diameter (mm)	Maximum Working Pressure (bar)	LPCB Ref. No.
90° elbow	910	33.7, 42.4, 48.3, 273.0	20	1118b/02
45° elbow	920	42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1, 273.0	20	1118b/03
tee	930	33.7, 42.4, 48.3, 273.0	20	1118b/04
cap	940	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1, 273.0	20	1118b/05
cap	941	60.3, 73.0, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1, 273.0	20	1118b/06
Short Radius 90° elbow	910S	60.3, 73.0, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	20	1118b/08
Long Radius 90° elbow	910LR	114.3	20	1118b/09
Short Radius tee	930S	60.3, 73.0, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	20	1118b/10
Pitcher-tee	935	114.3 x 114.3 x 88.9 – G2.1/2 thread	20	1118b/11

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Certificate No: 060c to LPS 1219

Live Tap Mechanical Tees

Product Name	Nominal Size(m)	Pipe Ends	Gasket Type	Maximum Working Pressure(bar)	LPCB Ref. No.
Model LT-KD-002 (Kwik Drain)	65 x 25.4	T	EPDM	12	060c/01
Model LT-KD-002 (Kwik Drain)	80 x 25.4	T	EPDM	12	060c/01
Model LT-KD-002 (Kwik Drain)	100 x 25.4	T	EPDM	12	060c/01
Model LT-KD-002 (Kwik Drain)	150 x 25.4	T	EPDM	12	060c/01
Model LT-NDT (50)-002 (No Drain-T)	80 x 50.8	T	EPDM	12	060c/02
Model LT-NDT (50)-002 (No Drain-T)	100 x 50.8	T	EPDM	12	060c/02
Model LT-NDT (50)-002 (No Drain-T)	150 x 50.8	T	EPDM	12	060c/02
Model LT-KC(15-32)-002 (Kwik-Clamp)	32 x 15	T	EPDM	12	060c/03
Model LT-KC(15-40)-002 (Kwik-Clamp)	40 x 15	T	EPDM	12	060c/03
Model LT-KC(15-50)-002 (Kwik-Clamp)	50 x 15	T	EPDM	12	060c/03
Model LT-KD-002 (Kwik-Drain)	50 x 25.4	T	EPDM	12	060c/01
Model LT-KD-50-002 (Kwik-Drain 50mm outlet)	80 x 50.8	T	EPDM	12	060c/01
Model LT-KD-50-002 (Kwik-Drain 50mm outlet)	100 x 50.8	T	EPDM	12	060c/01
Model LT-KD-50-002 (Kwik-Drain 50mm outlet)	150 x 50.8	T	EPDM	12	060c/01
Model LT-KD-SA-001 (Kwik-Drain S.A.)	50 x 25.4	T	EPDM	12	060c/01
Model LT-KD-SA-001 (Kwik-Drain S.A.)	65 x 25.4	T	EPDM	12	060c/01
Model LT-KD-SA-001 (Kwik-Drain S.A.)	80 x 25.4	T	EPDM	12	060c/01
Model LT-KD-SA-001 (Kwik-Drain S.A.)	100 x 25.4	T	EPDM	12	060c/01
Model LT-KD-SA-001 (Kwik-Drain S.A.)	150 x 25.4	T	EPDM	12	060c/01
Model LT-NDT(50)-002 (No-Drain-T)	50 x 32	T	EPDM	12	060c/02
Model LT-NDT(50)-002 (No-Drain-T)	65 x 40	T	EPDM	12	060c/02
Model LT-KV-SA-001 (Kwik-Vent S.A.)	32 x 15	T	EPDM	12	060c/06
Model LT-KV-SA-001 (Kwik-Vent S.A.)	40 x 15	T	EPDM	12	060c/06

PIPE COUPLINGS AND FITTINGS

Model LT-KV-SA-001 (Kwik-Vent S.A.)

50 x 15

T

EPDM

12

060c/06

Certificate No: 060d to LPS 1219

Model LT-C-100-80 (No-Drain-T) Grooved Outlet

Product Name	Nominal Size (m)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Model LT-C-100-80 (No-Drain-T)	100 x 80	G	EPDM	12	060d/01

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Certificate No: 1433a to LPS 1219: Issue 3.1

'LEDE' and 'PREM' Pipe Couplings

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
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
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
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

PIPE COUPLINGS AND FITTINGS

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
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
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 x 76.1	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
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

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 48.3, 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

PIPE COUPLINGS AND FITTINGS

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'SHIELD' Pipe Couplings

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
SDG 25 Flexible Coupling	25	33.7	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	32	42.4	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	40	48.3	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	50	60.3	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	65	73.0	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	65	76.1	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	80	88.9	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	100	108.0	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	100	114.3	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	125	133.0	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	125	139.7	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	125	141.3	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	150	159.0	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	150	165.1	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	150	168.3	R&C	EPDM	25	988Da/01
SDG 25 Flexible Coupling	200	219.1	R&C	EPDM	25	988Da/01
SDG 22 Rigid Coupling	25	33.7	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	32	42.4	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	40	48.3	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	50	60.3	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	65	73.0	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	65	76.1	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	80	88.9	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	100	108.0	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	100	114.3	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	125	133.0	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	125	139.7	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	125	141.3	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	150	159.0	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	150	165.1	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	150	168.3	R&C	EPDM	25	988Da/02
SDG 22 Rigid Coupling	200	219.1	R&C	EPDM	25	988Da/02
SDG 30 Reducing Flexible Coupling	50 x 32	60.3 x 42.4	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	50 x 40	60.3 x 48.3	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	65 x 50	73.0 x 60.3	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	65 x 40	76.1 x 48.3	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	65 x 50	76.1 x 60.3	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	80 x 50	88.9 x 60.3	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	80 x 65	88.9 x 73.0	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	80 x 65	88.9 x 76.1	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	100 x 50	114.3 x 60.3	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	100 x 65	114.3 x 73.0	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	100 x 65	114.3 x 76.1	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	100 x 80	114.3 x 88.9	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	150 x 100	165.1 x 114.3	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	150 x 100	168.3 x 114.3	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	200 x 150	219.1 x 165.1	R&C	EPDM	16	988Da/03
SDG 30 Reducing Flexible Coupling	200 x 150	219.1 x 168.3	R&C	EPDM	16	988Da/03
SDG 20 Light Duty Rigid Coupling	65	76.1	R&C	EPDM	16	988Da/04
SDG 20 Light Duty Rigid Coupling	80	88.9	R&C	EPDM	16	988Da/04
SDG 20 Light Duty Rigid Coupling	100	108.0	R&C	EPDM	16	988Da/04
SDG 20 Light Duty Rigid Coupling	100	114.3	R&C	EPDM	16	988Da/04
SDG 20 Light Duty Rigid Coupling	125	139.7	R&C	EPDM	16	988Da/04
SDG 20 Light Duty Rigid Coupling	125	141.3	R&C	EPDM	16	988Da/04
SDG 20 Light Duty Rigid Coupling	150	159.0	R&C	EPDM	16	988Da/04
SDG 20 Light Duty Rigid Coupling	150	165.1	R&C	EPDM	16	988Da/04
SDG 20 Light Duty Rigid Coupling	150	168.3	R&C	EPDM	16	988Da/04
SDG 20 Light Duty Rigid Coupling	200	219.1	R&C	EPDM	16	988Da/04
SDG 42 Threaded Mechanical Tee	100 x 65	114.3 x 76.1	T	EPDM	16	988Da/05
SDG 42 Threaded Mechanical Tee	100 x 80	114.3 x 88.9	T	EPDM	16	988Da/05

PIPE COUPLINGS AND FITTINGS

SDG 42 Threaded Mechanical Tee	125 x 65	139.7 x 76.1	T	EPDM	16	988Da/05
SDG 42 Threaded Mechanical Tee	125 x 80	139.7 x 88.9	T	EPDM	16	988Da/05
SDG 42 Threaded Mechanical Tee	125 x 100	139.7 x 114.3	T	EPDM	16	988Da/05
SDG 42 Threaded Mechanical Tee	150 x 65	165.1 x 76.1	T	EPDM	16	988Da/05
SDG 42 Threaded Mechanical Tee	150 x 80	165.1 x 88.9	T	EPDM	16	988Da/05
SDG 42 Threaded Mechanical Tee	150 x 100	165.1 x 114.3	T	EPDM	16	988Da/05
SDG 42 Threaded Mechanical Tee	150 x 65	168.3 x 76.1	T	EPDM	16	988Da/05
SDG 42 Threaded Mechanical Tee	150 x 80	168.3 x 88.9	T	EPDM	16	988Da/05
SDG 42 Threaded Mechanical Tee	150 x 100	168.3 x 114.3	T	EPDM	16	988Da/05
SDG 42 Threaded Mechanical Tee	200 x 65	219.1 x 76.1	T	EPDM	16	988Da/05
SDG 42 Threaded Mechanical Tee	200 x 80	219.1 x 88.9	T	EPDM	16	988Da/05
SDG 42 Threaded Mechanical Tee	200 x 100	219.1 x 114.3	T	EPDM	16	988Da/05
SDG 44 Grooved Mechanical Tee	100 x 65	114.3 x 76.1	G	EPDM	16	988Da/06
SDG 44 Grooved Mechanical Tee	100 x 80	114.3 x 88.9	G	EPDM	16	988Da/06
SDG 44 Grooved Mechanical Tee	125 x 65	139.7 x 76.1	G	EPDM	16	988Da/06
SDG 44 Grooved Mechanical Tee	125 x 80	139.7 x 88.9	G	EPDM	16	988Da/06
SDG 44 Grooved Mechanical Tee	125 x 100	139.7 x 114.3	G	EPDM	16	988Da/06
SDG 44 Grooved Mechanical Tee	150 x 65	165.1 x 76.1	G	EPDM	16	988Da/06
SDG 44 Grooved Mechanical Tee	150 x 80	165.1 x 88.9	G	EPDM	16	988Da/06
SDG 44 Grooved Mechanical Tee	150 x 100	165.1 x 114.3	G	EPDM	16	988Da/06
SDG 44 Grooved Mechanical Tee	150 x 65	168.3 x 76.1	G	EPDM	16	988Da/06
SDG 44 Grooved Mechanical Tee	150 x 80	168.3 x 88.9	G	EPDM	16	988Da/06
SDG 44 Grooved Mechanical Tee	150 x 100	168.3 x 114.3	G	EPDM	16	988Da/06
SDG 44 Grooved Mechanical Tee	200 x 65	219.1 x 76.1	G	EPDM	16	988Da/06
SDG 44 Grooved Mechanical Tee	200 x 80	219.1 x 88.9	G	EPDM	16	988Da/06
SDG 44 Grooved Mechanical Tee	200 x 100	219.1 x 114.3	G	EPDM	16	988Da/06
SDG 15 Grooved Flange	40	48.3	R&C	EPDM	16	988Da/08
SDG 15 Grooved Flange	50	60.3	R&C	EPDM	16	988Da/08
SDG 15 Grooved Flange	65	76.1	R&C	EPDM	16	988Da/08
SDG 15 Grooved Flange	80	88.9	R&C	EPDM	16	988Da/08
SDG 15 Grooved Flange	100	114.3	R&C	EPDM	16	988Da/08
SDG 15 Grooved Flange	125	139.7	R&C	EPDM	16	988Da/08
SDG 15 Grooved Flange	150	165.1	R&C	EPDM	16	988Da/08
SDG 15 Grooved Flange	150	168.3	R&C	EPDM	16	988Da/08
SDG 15 Grooved Flange	200	219.1	R&C	EPDM	16	988Da/08

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'SHIELD' Pipe Fittings

Product Name	Pipe Outside Diameter (mm)	Maximum Working Pressure (bar)	LPCB Ref. No.
SDG 100 90° Elbow	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Da/09
SDG 105 Short Style 90° Elbow	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	16	988Da/10
SDG 12 Tee	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Da/11
SDG 102 Short Style Tee	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	16	988Da/12
SDG 200 45° Elbow	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Da/13
SDG 14 Cap	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Da/14
SDG 13 Cross	42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Da/15
SDG 225 22.5° Elbow	76.1, 88.9, 114.3, 139.7, 165.1, 219.1	25	988Da/16
SDG 112 11.25° Elbow	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 219.1	25	988Da/17
SDG 16 Adaptor Flange	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	16	988Da/18
SDG 35 Concentric Reducer Grooved	42.4 x 33.7, 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 168.3	25	988Da/19
SDG 37 Concentric Reducer Threaded	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	25	988Da/20
SDG 53 Reducing	60.3 x 33.7, 60.3 x 48.3, 76.1 x 48.3, 76.1 x 60.3, 88.9 x 33.7, 88.9 x 48.3, 88.9 x 60.3, 88.9 x 76.1, 114.3 x 33.7, 114.3 x 48.3, 114.3 x 60.3, 114.3 x 76.1, 114.3 x 88.9, 139.7 x 114.3, 165.1 x 88.9, 165.1 x 114.3, 165.1 x 139.7,	25	988Da/21

PIPE COUPLINGS AND FITTINGS

Tee 168.3 x 60.3, 168.3 x 76.1, 168.3 x 88.9, 168.3 x 114.3, 168.3 x 139.7, 219.1 x 60.3, 219.1 x 88.9, 219.1 x 114.3, 219.1 x 168.3

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Certificate No: 988Ba to LPS 1219 issue 3

Pipe Couplings (AQUILA)

Product Name	Nominal Size	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
1N - Flexible Coupling	25	33.7	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	32	42.4	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	40	48.3	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	50	60.3	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	65	73.0	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	65	76.1	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	80	88.9	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	100	108.0	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	100	114.3	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	125	133.0	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	125	139.7	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	125	141.3	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	150	159.0	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	150	165.1	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	150	168.3	R&C	EPDM	25	988Ba/01
1N - Flexible Coupling	200	219.1	R&C	EPDM	25	988Ba/01
1G - Rigid Coupling	25	33.7	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	32	42.4	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	40	48.3	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	50	60.3	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	65	73.0	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	65	76.1	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	80	88.9	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	100	108.0	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	100	114.3	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	125	133.0	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	125	139.7	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	125	141.3	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	150	159.0	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	150	165.1	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	150	168.3	R&C	EPDM	25	988Ba/02
1G - Rigid Coupling	200	219.1	R&C	EPDM	25	988Ba/02
1GS - Light Duty Rigid Coupling	65	76.1	R&C	EPDM	16	988Ba/04
1GS - Light Duty Rigid Coupling	80	88.9	R&C	EPDM	16	988Ba/04
1GS - Light Duty Rigid Coupling	100	108.0	R&C	EPDM	16	988Ba/04
1GS - Light Duty Rigid Coupling	100	114.3	R&C	EPDM	16	988Ba/04
1GS - Light Duty Rigid Coupling	125	139.7	R&C	EPDM	16	988Ba/04
1GS - Light Duty Rigid Coupling	125	141.3	R&C	EPDM	16	988Ba/04
1GS - Light Duty Rigid Coupling	150	159.0	R&C	EPDM	16	988Ba/04
1GS - Light Duty Rigid Coupling	150	165.1	R&C	EPDM	16	988Ba/04
1GS - Light Duty Rigid Coupling	150	168.3	R&C	EPDM	16	988Ba/04
1GS - Light Duty Rigid Coupling	200	219.1	R&C	EPDM	16	988Ba/04
3J - Mechanical Tee, Threaded Outlet	100 x 65	114.3 x 76.1	T	EPDM	16	988Ba/05
3J - Mechanical Tee, Threaded Outlet	100 x 80	114.3 x 88.9	T	EPDM	16	988Ba/05
3J - Mechanical Tee, Threaded Outlet	125 x 65	139.7 x 76.1	T	EPDM	16	988Ba/05
3J - Mechanical Tee, Threaded Outlet	125 x 80	139.7 x 88.9	T	EPDM	16	988Ba/05
3J - Mechanical Tee, Threaded Outlet	125 x 100	139.7 x 114.3	T	EPDM	16	988Ba/05
3J - Mechanical Tee, Threaded Outlet	150 x 65	165.1 x 76.1	T	EPDM	16	988Ba/05
3J - Mechanical Tee, Threaded Outlet	150 x 80	165.1 x 88.9	T	EPDM	16	988Ba/05
3J - Mechanical Tee, Threaded Outlet	150 x 100	165.1 x 114.3	T	EPDM	16	988Ba/05
3J - Mechanical Tee, Threaded Outlet	150 x 65	168.3 x 76.1	T	EPDM	16	988Ba/05
3J - Mechanical Tee, Threaded Outlet	150 x 80	168.3 x 88.9	T	EPDM	16	988Ba/05
3J - Mechanical Tee, Threaded Outlet	150 x 100	168.3 x 114.3	T	EPDM	16	988Ba/05
3J - Mechanical Tee, Threaded Outlet	200 x 65	219.1 x 76.1	T	EPDM	16	988Ba/05
3J - Mechanical Tee, Threaded Outlet	200 x 80	219.1 x 88.9	T	EPDM	16	988Ba/05
3J - Mechanical Tee, Threaded Outlet	200 x 100	219.1 x 114.3	T	EPDM	16	988Ba/05
3G - Mechanical Tee, Grooved Outlet	100 x 65	114.3 x 76.1	G	EPDM	16	988Ba/06

PIPE COUPLINGS AND FITTINGS

3G - Mechanical Tee, Grooved Outlet	100 x 80	114.3 x 88.9	G	EPDM	16	988Ba/06
3G - Mechanical Tee, Grooved Outlet	125 x 65	139.7 x 76.1	G	EPDM	16	988Ba/06
3G - Mechanical Tee, Grooved Outlet	125 x 80	139.7 x 88.9	G	EPDM	16	988Ba/06
3G - Mechanical Tee, Grooved Outlet	125 x 100	139.7 x 114.3	G	EPDM	16	988Ba/06
3G - Mechanical Tee, Grooved Outlet	150 x 65	165.1 x 76.1	G	EPDM	16	988Ba/06
3G - Mechanical Tee, Grooved Outlet	150 x 80	165.1 x 88.9	G	EPDM	16	988Ba/06
3G - Mechanical Tee, Grooved Outlet	150 x 100	165.1 x 114.3	G	EPDM	16	988Ba/06
3G - Mechanical Tee, Grooved Outlet	150 x 65	168.3 x 76.1	G	EPDM	16	988Ba/06
3G - Mechanical Tee, Grooved Outlet	150 x 80	168.3 x 88.9	G	EPDM	16	988Ba/06
3G - Mechanical Tee, Grooved Outlet	150 x 100	168.3 x 114.3	G	EPDM	16	988Ba/06
3G - Mechanical Tee, Grooved Outlet	200 x 65	219.1 x 76.1	G	EPDM	16	988Ba/06
3G - Mechanical Tee, Grooved Outlet	200 x 80	219.1 x 88.9	G	EPDM	16	988Ba/06
3G - Mechanical Tee, Grooved Outlet	200 x 100	219.1 x 114.3	G	EPDM	16	988Ba/06
321 - Grooved Flange	40	48.3	R&C	EPDM	16	988Ba/08
321 - Grooved Flange	50	60.3	R&C	EPDM	16	988Ba/08
321 - Grooved Flange	65	76.1	R&C	EPDM	16	988Ba/08
321 - Grooved Flange	80	88.9	R&C	EPDM	16	988Ba/08
321 - Grooved Flange	100	114.3	R&C	EPDM	16	988Ba/08
321 - Grooved Flange	125	139.7	R&C	EPDM	16	988Ba/08
321 - Grooved Flange	150	165.1	R&C	EPDM	16	988Ba/08
321 - Grooved Flange	150	168.3	R&C	EPDM	16	988Ba/08
321 - Grooved Flange	200	219.1	R&C	EPDM	16	988Ba/08

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Pipe Fittings (AQUILA)

Product Name	Pipe Outside Diameter (mm)	Max Working Pressure (bar)	LPCB Ref. No.
90 - 90° Elbow	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Ba/09
90S - 90° Short Elbow	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	16	988Ba/10
130 - Tee	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Ba/11
130S - Short Tee	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	16	988Ba/12
120 - 45° Elbow	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Ba/13
300 - Cap	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Ba/14
180 - Cross	42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	25	988Ba/15
110 - 22.5° Elbow	76.1, 88.9, 114.3, 139.7, 165.1, 219.1	25	988Ba/16
105 - 11.25° Elbow	60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 219.1	25	988Ba/17
321G - Grooved Flange Adaptor	33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 165.1, 168.3, 219.1	16	988Ba/18
240 - Grooved Concentric Reducer	42.4 x 33.7, 48.3 x 33.7, 48.3 x 42.4, 60.3 x 33.7, 60.3 x 42.4, 60.3 x 48.3, 76.1 x 42.4, 76.1 x 48.3, 76.1 x 60.3, 88.9 x 60.3, 88.9 x 76.1, 114.3 x 48.3, 114.3 x 60.3, 114.3 x 76.1, 139.7 x 48.3, 139.7 x 60.3, 139.7 x 76.1, 165.1 x 48.3, 165.1 x 60.3, 165.1 x 76.1, 168.3 x 48.3, 168.3 x 60.3, 168.3 x 76.1, 219.1 x 48.3, 219.1 x 60.3, 219.1 x 76.1, 219.1 x 168.3	25	988Ba/19
240N - Female Threaded Concentric Reducer	60.3 x 26.9, 60.3 x 33.7, 60.3 x 42.4, 60.3 x 48.3, 76.1 x 42.4, 76.1 x 48.3, 76.1 x 60.3, 88.9 x 60.3, 88.9 x 76.1, 114.3 x 60.3, 114.3 x 76.1, 114.3 x 88.9, 139.7 x 48.3, 139.7 x 60.3, 139.7 x 76.1, 165.1 x 48.3, 165.1 x 60.3, 165.1 x 76.1, 168.3 x 48.3, 168.3 x 60.3, 168.3 x 76.1, 219.1 x 48.3, 219.1 x 60.3, 219.1 x 76.1, 219.1 x 168.3	25	988Ba/20
130R - Reducing Tee	60.3 x 33.7, 60.3 x 48.3, 76.1 x 48.3, 76.1 x 60.3, 88.9 x 33.7, 88.9 x 48.3, 88.9 x 60.3, 88.9 x 76.1, 114.3 x 33.7, 114.3 x 48.3, 114.3 x 60.3, 114.3 x 76.1, 139.7 x 48.3, 139.7 x 60.3, 139.7 x 76.1, 165.1 x 48.3, 165.1 x 60.3, 165.1 x 76.1, 168.3 x 48.3, 168.3 x 60.3, 168.3 x 76.1, 219.1 x 48.3, 219.1 x 60.3, 219.1 x 76.1, 219.1 x 168.3	25	988Ba/21

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Certificate No: 1333a to LPS 1219: Issue 3.1

'Grinnell' Pipe Couplings

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
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Fig 71 Flange Adapter	50	60.3	Rolled	EPDM	20	1333a/06
Fig 71 Flange Adapter	65	76.1	Rolled	EPDM	20	1333a/06
Fig 71 Flange Adapter	80	88.9	Rolled	EPDM	20	1333a/06
Fig 71 Flange Adapter	100	114.3	Rolled	EPDM	20	1333a/06
Fig 71 Flange Adapter	150	165.1	Rolled	EPDM	20	1333a/06
Fig 71 Flange Adapter	150	168.3	Rolled	EPDM	20	1333a/06
Fig 71 Flange Adapter	200	219.1	Rolled	EPDM	20	1333a/06
Fig 71 Flange Adapter	250	273.0	Rolled	EPDM	20	1333a/06
Fig 71 Flange Adapter	300	323.9	Rolled	EPDM	16	1333a/06

Certificate No: 1333a to LPS 1219: Issue 3.1

'Grinnell' Pipe Fittings

Product Name	Pipe Outside Diameter (mm)				Maximum Working Pressure (bar)	LPCB Ref. No.
Fig 201 / 501 45° Elbow	42.2, 48.3, 60.3, 76.1, 88.9, 114.3, 165.1, 168.3, 219.1, 273.0, 323.9				20	1333a/07
Fig 501 'G-FIRE' 45° Elbow	60.3, 76.1, 88.9, 114.3, 165.1, 168.3, 219.1				20	1333a/21
Fig 210 / 510 90° Elbow	42.2, 48.3, 60.3, 76.1, 88.9, 114.3, 165.1, 168.3, 219.1, 273.0, 323.9				20	1333a/08
Fig 510 'G-FIRE' 90° Elbow	42.2, 48.3, 60.3, 76.1, 88.9, 114.3, 165.1, 168.3, 219.1				20	1333a/22
Fig 219 / 519 Tee	42.2, 48.3, 60.3, 76.1, 88.9, 114.3, 165.1, 168.3, 219.1, 273.0, 323.9				20	1333a/09
Fig 519 'G-FIRE' Tee	42.2, 48.3, 60.3, 76.1, 88.9, 114.3, 165.1, 168.3, 219.1				20	1333a/23
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	1333a/10
Fig 250 / 550 Concentric Reducer	42.4 x 33.4, 48.3 x 33.4, 48.3 x 42.2, 60.3 x 42.2, 60.3 x 48.3, 76.1 x 60.3, 88.9 x 76.1, 114.3 x 88.9, 219.1 x 165.1				20	1333a/12
Fig 510S 'G-FIRE' 90° Short Elbow	60.3, 76.1, 88.9, 114.3, 165.1, 168.3, 219.1				20	1333a/13
Fig 519S 'G-FIRE' Short Tee	60.3, 76.1, 88.9, 114.3, 165.1, 168.3, 219.1				20	1333a/14
Fig 221 Reducing Tee	60.3x60.3x48.5, 76.1x76.1x48.3, 76.1x76.1x60.3, 88.9x88.9x33.4, 88.9x88.9x60.3, 88.9x88.9x76.1, 114.3x114.3x60.3, 114.3x114.3x76.1, 114.3x114.3x88.9, 139.7x139.7x88.9, 139.7x139.7x114.3, 165.1x165.1x88.9, 165.1x165.1x114.3, 168.3x168.3x60.3, 168.3x168.3x76.1, 168.3x168.3x88.9, 168.3x168.3x114.3, 168.3x168.3x139.7, 219.1x219.1x139.7, 219.1x219.1x165.1, 273.0x273.0x114.3, 273.0x273.0x168.3, 273.0x273.0x219.1				20	1333a/15
Fig 222 Hydrant Tee	114.3 x 114.3 x 76.1				20	1333a/16
Fig 212 / 512 22.5° Elbow	76.1, 139.7				20	1333a/17
Fig 211 / 511 11.25° Elbow	76.1, 139.7, 165.1				20	1333a/18
Fig 210LR 90° Long Radius Elbow	60.3, 76.1, 88.9, 114.3, 165.1, 168.3, 219.1				20	1333a/19
Fig 227 Cross	42.2, 48.3, 60.3, 76.1, 88.9, 114.3, 139.7, 168.3, 219.1				20	1333a/20

Certificate No: 921a to LPS 1219: Issue 3.1

'Grinnell' Pipe Couplings

Product Name	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

PIPE COUPLINGS AND FITTINGS

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 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
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 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
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
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

PIPE COUPLINGS AND FITTINGS

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
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 716 Reducing Coupling	65 x 50	76.1 x 60.3	Rolled	EPDM	20	921a/05
Fig 716 Reducing Coupling	80 x 65	88.9 x 76.1	Rolled	EPDM	20	921a/05
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
Fig 774 Rigid Pipe Coupling	25	33.7	Rolled	EPDM	20	921a/24
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	50	60.3	Rolled	EPDM	20	921a/25
Fig 579 Rigid Pipe Coupling	65	76.1	Rolled	EPDM	20	921a/25
Fig 579 Rigid Pipe Coupling	80	88.9	Rolled	EPDM	20	921a/25
Fig 579 Rigid Pipe Coupling	100	114.3	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	100 x 80	114.3 x 88.9	Rolled	EPDM	20	921a/05
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 579 Rigid Pipe Coupling	32	42.2	Rolled	EPDM	20	921a/25
Fig 579 Rigid Pipe Coupling	40	48.3	Rolled	EPDM	20	921a/25

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PIPE COUPLINGS AND FITTINGS

'Grinnell' Pipe Fittings

Product Name	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

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Fittings

Product Name	Model No.	Pipe Outside Diameter (mm)	Maximum Working Pressure (bar)	LPCB Ref. No.
90° Elbow	10	20, 25, 32, 40, 50, 65, 80, 100, 150, 200	20	104-1a/12
90° Elbow	125	20	20	078a/15
90° Long Radius Elbow	100	50, 80, 100, 150, 200	20	104-1a/13
45° Elbow	11	20, 25, 32, 40, 50, 80, 100, 150, 200	20	104-1a/14
45° Elbow	65, 125	20	20	078a/16
45° Long Radius Elbow	110	50, 80, 100, 150, 200	20	104-1a/15
22.5° Elbow	12	25, 32, 40, 50, 65, 80, 100, 150, 200	20	104-1a/16
11.25° Elbow	13	25, 32, 40, 50, 80, 100, 150, 200	20	104-1a/17
Tee	20	20, 25, 32, 40, 50, 80, 100, 150, 200	20	104-1a/18
Tee	125	20	20	078a/17
Cross	35	20, 25, 32, 40, 50, 80, 100, 200	20	104-1a/19
Cap	60	25, 32, 40, 50, 80, 100, 150, 200	20	104-1a/20
45° Lateral	30	20, 25, 32, 40, 50, 80, 100, 150, 200	20	104-1a/21
90° True Y	33	25, 32, 40, 50, 80, 100, 200	20	104-1a/22
Concentric Reducer	50	40 x 25, 50 x 20, 50 x 25, 50 x 32, 50 x 40, 80 x 25, 80 x 50, 100 x 125, 100 x 40, 100 x 50, 100 x 80, 200 x 80, 200 x 100	20	104-1a/23
Eccentric Reducer	51	40 x 25, 50 x 20, 50 x 25, 50 x 32, 50 x 40, 80 x 25, 80 x 50, 100 x 125, 100 x 40, 100 x 50, 100 x 80, 200 x 80, 200 x 100 x 25, 80 x 80 x 40, 80 x 80 x 50, 100 x 100 x 25, 100 x 100 x 50, 100 x 100 x 80, 150 x 150 x 50, 150 x 150 x 100, 200 x 200 x 50, 200 x 200 x 80, 200 x 200 x 100, 200 x 200 x 150	20	104-1a/23
45° Reducing Lateral	30R	80 x 80 x 50, 100 x 100 x 50, 100 x 100 x 80, 200 x 200 x 100	20	104-1a/24
Reducing Tee Grooved	25	50 x 50 x 20, 50 x 50 x 25, 50 x 50 x 40, 80 x 80 x 25, 80 x 80 x 40, 80 x 80 x 50, 100 x 100 x 25, 100 x 100 x 50, 100 x 100 x 80, 150 x 150 x 50, 150 x 150 x 100, 200 x 200 x 50, 200 x 200 x 80, 200 x 200 x 100, 200 x 200 x 150	20	104-1a/25
Reducing Tee Threaded	29R	50 x 50 x 20, 50 x 50 x 25, 50 x 50 x 40, 80 x 80 x 25, 80 x 80 x 40, 80 x 80 x 50, 100 x 100 x 25, 100 x 100 x 50, 100 x 100 x 80, 150 x 150 x 50, 150 x 150 x 100, 200 x 200 x 50, 200 x 200 x 80, 200 x 200 x 100, 200 x 200 x 150	20	104-1a/25
Blank End Grooved (Radial Branch)	65, 125	20	20	078a/18
Pitcher Tee	100 x 100 x 2.5 in BSP	20	20	078a/19
Firelock 90° Elbow	001	60.3, 73, 76.1, 88.9, 114.3, 139.7, 141.3, 165.1, 168.3, 219.1	16	104-1a/28
Firelock Tee	002	60.3, 73, 76.1, 88.9, 114.3, 139.7, 141.3, 165.1, 168.3, 219.1	16	104-1a/29

PIPE COUPLINGS AND FITTINGS

Firelock 45° Elbow	003	60.3, 73, 76.1, 88.9, 114.3, 139.7, 141.3, 165.1, 168.3, 219.1	16	104-1a/30
OGS Groove Adaptor	Style 144	42.4 x 33.7, 48.3 x 33.7	25	104-1a/41
Reducing Elbow	Style 65	42.2 x 33.7, 48.3 x 33.7, 60.3 x 33.7, 73 x 33.7	25	104-1a/42
Cap	60	250, 300	20.7	104-1a/20

Notes:

All coupling and fittings to be installed in accordance with Victaulic Field Assembly and Installation Handbook.

(1) Only to be use as end of line fitting with flexible connector.

Certificate No: 104-1a/01 to LPS 1219: Issue 3.1

Certificate No: 104-1a/02 to LPS 1219: Issue 3.1

Certificate No: 104-1a/04 to LPS 1219: Issue 3.1

Certificate No: 104-1a/05 to LPS 1219: Issue 3.1

Certificate No: 104-1a/11 to LPS 1219: Issue 3.1

Certificate No: 104-1a/26 to LPS 1219: Issue 3.1

Pipe Couplings

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Style 005H	50(2)	60.3	R&C	EPDM	16(3)	104-1a/01
Style 005H	50(2)	73.0(1)	R&C	EPDM	16(3)	104-1a/01
Style 005H	65(2)	76.1	R&C	EPDM	16(3)	104-1a/01
Style 005H	80(2)	88.9	R&C	EPDM	16(3)	104-1a/01
Style 005H	80(2)	108.0(1)	R&C	EPDM	16(3)	104-1a/01
Style 005H	100(2)	114.3	R&C	EPDM	16(3)	104-1a/01
Style 005H	100(2)	133.4(1)	R&C	EPDM	16(3)	104-1a/01
Style 005H	125(2)	139.7	R&C	EPDM	16(3)	104-1a/01
Style 005H	125(2)	141.3(1)	R&C	EPDM	16(3)	104-1a/01
Style 005H	125(2)	158.8(1)	R&C	EPDM	16(3)	104-1a/01
Style 005H	150(2)	165.1	R&C	EPDM	16(3)	104-1a/01
Style 005H	150(2)	168.3	R&C	EPDM	16(3)	104-1a/01
Style 005H	200(2)	219.1	R&C	EPDM	16	104-1a/01
Style 07	25	33.7	R&C	EPDM	40 (3)	104-1a/02
Style 07	32	42.4	R&C	EPDM	40 (3)	104-1a/02
Style 07	40	48.3	R&C	EPDM	40 (3)	104-1a/02
Style 07	50	60.3	R&C	EPDM	40 (3)	104-1a/02
Style 07	50	73.0(1)	R&C	EPDM	40 (3)	104-1a/02
Style 07	65	76.1	R&C	EPDM	40 (3)	104-1a/02
Style 07	80	88.9	R&C	EPDM	40 (3)	104-1a/02
Style 07	80	108.0(1)	R&C	EPDM	40 (3)	104-1a/02
Style 07	100	114.3	R&C	EPDM	40 (3)	104-1a/02
Style 07	100	133.4(1)	R&C	EPDM	20 (3)	104-1a/02
Style 07	125	139.7	R&C	EPDM	20 (3)	104-1a/02
Style 07	125	141.3(1)	R&C	EPDM	20 (3)	104-1a/02
Style 07	125	158.8(1)	R&C	EPDM	40 (3)	104-1a/02
Style 07	150	165.1	R&C	EPDM	40 (3)	104-1a/02
Style 07	150	168.3	R&C	EPDM	40 (3)	104-1a/02
Style 07	200	219.1	R&C	EPDM	35 (3)	104-1a/02
Style 77	20	26.9	R&C	EPDM	20	104-1a/04
Style 77	25	33.7	R&C	EPDM	20(3)	104-1a/04
Style 77	32	42.4	R&C	EPDM	20(3)	104-1a/04
Style 77	40	48.3	R&C	EPDM	20(3)	104-1a/04
Style 77	50	60.3	R&C	EPDM	20(3)	104-1a/04
Style 77	65	76.2	R&C	EPDM	20(3)	104-1a/04
Style 77	80	88.9	R&C	EPDM	20(3)	104-1a/04
Style 77	100	114.3	R&C	EPDM	20(3)	104-1a/04
Style 77	150	165.1	R&C	EPDM	20(3)	104-1a/04
Style 77	200	219.1	R&C	EPDM	20(3)	104-1a/04
Style 750 Reducing	50 x 40	60.3 x 48.3	R&C	EPDM	20	104-1a/05
Style 750 Reducing	80 x 50	88.9 x 60.3	R&C	EPDM	20	104-1a/05
Style 750 Reducing	100 x 50	114.3 x 60.3	R&C	EPDM	20	104-1a/05
Style 750 Reducing	100 x 80	114.3 x 88.9	R&C	EPDM	20	104-1a/05
Style 750 Reducing	150 x 100	165.1 x 114.3	R&C	EPDM	20	104-1a/05
Style 750 Reducing	200 x 150	219.1 x 165.1	R&C	EPDM	20	104-1a/05
Style 750 Reducing	65 x 50	76.1 x 60.3	R&C	EPDM	20	104-1a/05
Style 750 Reducing	80 x 65	88.9 x 76.1	R&C	EPDM	20	104-1a/05

PIPE COUPLINGS AND FITTINGS

Style 750 Reducing	100 x 65	114.3 x 76.1	R&C	EPDM	16	104-1a/05
Style 750 Reducing	150 x 80	165.1 x 88.9	R&C	EPDM	15	104-1a/05
Victaulic Mechanical Tees	100 x 50	114.3 x 60.3	G	EPDM	20	104-1a/06
Victaulic Mechanical Tees	100 x 80	114.3 x 88.9	G	EPDM	20	104-1a/06
Victaulic Mechanical Tees	150 x 50	165.1 x 60.3	G	EPDM	15	104-1a/07
Victaulic Mechanical Tees	150 x 80	165.1 x 88.9	G	EPDM	15	104-1a/07
Victaulic Mechanical Tees	150 x 100	165.1 x 114.3	G	EPDM	15	104-1a/07
Victaulic Mechanical Tees	200 x 80	219.1 x 88.9	G	EPDM	20	104-1a/08
Victaulic Mechanical Tees	200 x 100	219.1 x 114.3	G	EPDM	20	104-1a/08
Style 741 (Flange adaptors)	80	88.9	R&C	EPDM	20	104-1a/10
Style 741 (Range adaptors)	125	139.7	R&C	EPDM	20	104-1a/10
Style 741 (Range adaptors)	150	165.1	R&C	EPDM	20	104-1a/10
Style 741 (Flange adaptors)	150	168.3	R&C	EPDM	20	104-1a/10
Style 741 (Flange adaptors)	200	219.1	R&C	EPDM	20	104-1a/10
Mechanical Tees Style 920	80 x 32	88.9 x 42.4	T	EPDM	20	104-1a/11
Mechanical Tees Style 920	80 x 40	88.9 x 48.3	T	EPDM	20	104-1a/11
Mechanical Tees Style 920	80 x 40	88.9 x 48.3	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	100 x 32	114.3 x 42.4	T	EPDM	20	104-1a/11
Mechanical Tees Style 920	100 x 40	114.3 x 48.3	T	EPDM	20	104-1a/11
Mechanical Tees Style 920	100 x 40	114.3 x 48.3	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	100 x 65	114.3 x 76.1	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	100 x 65	114.3	T (2.5 in BSP)	EPDM	20	104-1a/11
Mechanical Tees Style 920	100 x 65	114.3 x 76.1	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	100 x 80	114.3 x 88.9	T	EPDM	20	104-1a/11
Mechanical Tees Style 920	125 x 65	141.3 x 76.1	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	150 x 40	165.1 x 48.3	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	150 x 50	165.1 x 60.3	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	150 x 50	165.1	T (2.5 in BSP)	EPDM	20	104-1a/11
Mechanical Tees Style 920	150 x 65	165.1 x 73.0	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	150 x 65	168.3 x 76.1	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	150 x 65	165.1 x 76.1	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	150 x 80	165.1 x 88.9	T	EPDM	20	104-1a/11
Mechanical Tees Style 920	150 x 80	168.3 x 88.9	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	150 x 80	165.1 x 88.9	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	150 x 100	165.1 x 114.3	T	EPDM	20	104-1a/11
Mechanical Tees Style 920	150 x 100	168.3 x 114.3	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	150 x 100	165.1 x 114.3	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	200 x 50	219.1 x 60.3	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	200 x 65	219.1 x 76.1	T	EPDM	20	104-1a/11
Mechanical Tees Style 920	200 x 65	219.1 x 76.1	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	200 x 80	219.1 x 88.9	T	EPDM	20	104-1a/11
Mechanical Tees Style 920	200 x 80	219.1 x 88.9	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	200 x 100	219.1 x 114.3	G	EPDM	20	104-1a/11
Mechanical Tees Style 920	200 x 100	219.1 x 114.3	T	EPDM	20	104-1a/11
Mechanical Tees Style 920N	50 x 32	60.3 x 42.4	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	50 x 32	60.3 x 42.4	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	50 x 40	60.3 x 48.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	50 x 40	60.3 x 48.3	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	50 x 15	60.3 x 21.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	50 x 20	60.3 x 26.9	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	(1) x 25	73 x 33.7	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	(1) x 32	73 x 42.4	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	(1) x 32	73 x 42.4	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	(1) x 40	73 x 48.4	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	(1) x 40	73 x 48.3	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	(1) x 15	73 x 21.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	(1) x 15	73 x 26.7	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	80 x 15	88.9 x 21.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	80 x 20	88.9 x 26.9	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	80 x 25	88.9 x 33.7	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	80 x 32	88.9 x 42.4	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	80 x 32	88.9 x 42.4	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	80 x 40	88.9 x 48.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	80 x 40	88.9 x 48.3	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	80 x 50	88.9 x 60.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	100 x 20	114.3 x 26.9	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	100 x 25	114.3 x 33.7	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	80 x 50	88.9 x 60.3	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	100 x 15	114.3 x 21.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	100 x 32	114.3 x 42.4	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	100 x 32	114.3 x 42.4	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	100 x 40	114.3 x 48.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	100 x 40	114.3 x 48.3	G	EPDM	20	104-1a/26

PIPE COUPLINGS AND FITTINGS

Mechanical Tees Style 920N	100 x 50	114.3 x 60.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	150 x 50	114.3 x 60.3	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	150 x 32	165.1 x 42.4	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	150 x 32	168.3 x 42.4	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	150 x 40	165.1 x 48.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	150 x 50	165.1 x 60.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	150 x 32	168.3 x 42.4	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	150 x 40	168.3 x 48.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	150 x 40	168.3 x 48.3	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	150 x 50	168.3 x 60.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	150 x 50	168.3 x 60.3	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	(1) x 32	108 x 42.2	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	(1) x 40	108 x 48.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	(1) x 50	159 x 60.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	65 x 32	76.1 x 42.4	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	65 x 32	76.1 x 42.4	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	65 x 40	76.1 x 48.3	T	EPDM	20	104-1a/26
Mechanical Tees Style 920N	65 x 40	76.1 x 48.3	G	EPDM	20	104-1a/26
Mechanical Tees Style 920N	50 x 25	60.3 x 33.4	T	EPDM	20	104-1a/26
Firelock Outlet-Tee Style 922	32 x 15	42.4 x 21.3	T	EPDM	16	491a/27
Firelock Outlet-Tee Style 922	32 x 18	42.4 x 26.9	T	EPDM	16	491a/27
Firelock Outlet-Tee Style 922	40 x 15	48.3 x 21.3	T	EPDM	16	491a/27
Firelock Outlet-Tee Style 922	40 x 18	48.3 x 26.9	T	EPDM	16	491a/27
Firelock Outlet-Tee Style 922	40 x 25	48.3 x 33.7	T	EPDM	16	491a/27
Firelock Outlet-Tee Style 922	50 x 15	60.3 x 21.3	T	EPDM	16	491a/27
Firelock Outlet-Tee Style 922	50 x 18	60.3 x 26.9	T	EPDM	16	491a/27
Firelock Outlet-Tee Style 922	50 x 21	60.3 x 33.7	T	EPDM	16	491a/27
Firelock Outlet-Tee Style 922	65 x 15	76.1 x 21.3	T	EPDM	16	491a/27
Firelock Outlet-Tee Style 922	65 x 18	76.1 x 26.9	T	EPDM	16	491a/27
Firelock Outlet-Tee Style 922	65 x 21	76.1 x 33.7	T	EPDM	16	491a/27
Style 741 (Vic-Flange Adaptors)	100	114.3	R&C	EPDM	20	104-1a/10
Firelock Sprinkler Outlet Tee Style 912	25 x 15	33.7 x 21.3	T	EDPM	16	104-1a/34
Firelock Sprinkler Outlet Tee Style 912	32 x 15	42.4 x 21.3	T	EDPM	16	104-1a/34
Firelock Sprinkler Outlet Tee Style 912	40 x 15	48.3 x 21.3	T	EDPM	16	104-1a/34
Style 009N	32(4)	42.2	R&C	EPDM	25(3)	104-1a/36
Style 009N	40(4)	48.3	R&C	EPDM	25(3)	104-1a/36
Style 009N	50(4)	60.3	R&C	EPDM	25(3)	104-1a/36
Style 009N	65(4)	73.0	R&C	EPDM	25(3)	104-1a/36
Style 009N	65(4)	76.1	R&C	EPDM	25(3)	104-1a/36
Style 009N	80(4)	88.9	R&C	EPDM	25(3)	104-1a/36
Style 009N	100(4)	114.3	R&C	EPDM	25(3)	104-1a/36
Style 009H	125	139.7	R&C	EPDM	25	104-1a/35
Style 009H	125	141.3	R&C	EPDM	25	104-1a/35
Style 009H	150	165.1	R&C	EPDM	25	104-1a/35
Style 009H	150	168.3	R&C	EPDM	25	104-1a/35
Style 009H	200	219.1	R&C	EPDM	25	104-1a/35
Style 107V (5)	250	273.0	R&C	EPDM	20	104-1a/40
Style 107V (5)	300	323.9	R&C	EPDM	20	104-1a/40
Style 009N	125(4)	139.7	R&C	EPDM	25(3)	104-1a/36
Style 009N	125(4)	141.3	R&C	EPDM	25(3)	104-1a/36
Style 009N	150(4)	165.1	R&C	EPDM	25(3)	104-1a/36
Style 009N	150(4)	168.3	R&C	EPDM	25(3)	104-1a/36
Style 009N	200(4)	219.1	R&C	EPDM	25(3)	104-1a/36
Style 77	50	73.0 (1)	R&C	EPDM	20(3)	104-1a/04
Style 77	125	139.7	R&C	EPDM	20(3)	104-1a/04
Style 77	125	141.3(1)	R&C	EPDM	20(3)	104-1a/04
Style 77	150	168.3	R&C	EPDM	20(3)	104-1a/04
Style 115	32 x 25	42.4 x 33.7	G	EPDM	25	104-1a/39
Style 115	40 x 25	48.3 x 33.7	G	EPDM	25	104-1a/39
Style 009N	250(4)	273.0	R&C	EPDM	20	104-1a/36
Style 009N	300(4)	323.9	R&C	EPDM	20	104-1a/36

Notes: All products to be installed in accordance with the relevant Victaulic Instructions, additional references below

(1) These sizes are not suitable for installations that requires BS 1387 pipework due to the sizes not being included in that standard. (2) These products to be installed in accordance with Victaulic Installation Handbook I-100 3698 Rev_F Updated 09/2021. (3) These products are approved to the above stated maximum working pressures with zinc-electroplated bolts and nuts and also approved to 25 bar working pressure with hot dipped galvanized bolts and nuts.

(4) These products to be installed in accordance with Victaulic Installation Instructions I-009N 4079 Rev_N Updated 10/2022.

(5) I-107V REV_B Style 107V QuickVic Installation-Ready rigid coupling

PIPE COUPLINGS AND FITTINGS

Certificate No: 104-1a/03 to LPS 1219: Issue 3.1

Style 75 Couplings

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Style 75 Coupling	40	48.3	R&C	EPDM	20	104-1a/03
Style 75 Coupling	50	60.3	R&C	EPDM	20	104-1a/03
Style 75 Coupling	65	76.1	R&C	EPDM	20	104-1a/03
Style 75 Coupling	80	88.9	R&C	EPDM	20	104-1a/03
Style 75 Coupling	100	114.3	R&C	EPDM	20	104-1a/03
Style 75 Coupling	125	139.7	R&C	EPDM	20	104-1a/03
Style 75 Coupling	150	165.1	R&C	EPDM	20	104-1a/03
Style 75 Coupling	200	219.1	R&C	EPDM	20	104-1a/03

Certificate No: 104-1a/09 to LPS 1219: Issue 3.1

Pipe Couplings

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Style 927 Coupling	32x15	42.4 x 21.3	T	EPDM	12	104-1a/09
Style 927 Coupling	32 x 20	42.4 x 26.7	T	EPDM	12	104-1a/09
Style 927 Coupling	40 x 15	48.3 x 21.3	T	EPDM	12	104-1a/09
Style 927 Coupling	32 x 25	42.4 x 26.9	T	EPDM	12	104-1a/09
Style 927 Coupling	40 x 20	48.3 x 26.9	T	EPDM	12	104-1a/09
Style 927 Coupling	40 x 25	48.3 x 33.7	T	EPDM	12	104-1a/09
Style 927 Coupling	50 x 15	60.3 x 21.3	T	EPDM	12	104-1a/09
Style 927 Coupling	50 x 25	60.3 x 33.7	T	EPDM	12	104-1a/09
Style 927 Coupling	50 x 20	60.3 x 26.9	T	EPDM	12	104-1a/09

Certificate No: 104-1a/38 to LPS 1219: Issue 3.1

Installation Ready Fittings

Product Name	Model No.	Pipe Outside Diameter (mm)	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
90° Elbow	101	42.4(1), 48.3(1), 60.3(2), 73.0(2), 76.1(2)	EPDM	25	104-1a/38
Tee	102	42.4(1), 48.3(1), 60.3(2), 73.0(2), 76.1(2)	EPDM	25	104-1a/38
45° Elbow	103	42.4(1), 48.3(1), 60.3(2), 73.0(2), 76.1(2)	EPDM	25	104-1a/38

Certificate No: 104-1b to LPS 1219: Issue 3.1

IGS Fittings

Product Name	Model No.	Pipe Outside Diameter (mm)	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Installation-Ready 90° Elbow	101	33.3(1)	EPDM	25	104-1b/01
Installation-Ready Tee	102	33.3(1)	EPDM	25	104-1b/02
Male Threaded x Grooved Adaptor	140	33.3	-	25	104-1b/03
Female Threaded x Grooved Adaptor	141	33.3	-	25	104-1b/04
Welded Outlet	142	33.3	-	25	104-1b/05
Close Nipple	143	33.3	-	25	104-1b/06
Female Threaded x Grooved 90° Elbow	145	33.3	-	25	104-1b/07
Cap	146	33.3	-	25	104-1b/08
Sprinkler Reducer Outlet	148	33.3	-	25	104-1b/09
Installation-Ready Rigid Coupling	108	33.3	EPDM	25	104-1b/10
Grooved Flexible Drop Outlet-T	922	33.3(1)	EPDM	25	104-1b/11
Installation-Ready 45° Elbow	103	33.3	-	25	104-1b/12
Grooved End 90° Elbow	111	33.3	-	25	104-1b/13
Grooved Tee	114	33.3	-	25	104-1b/14
45° Elbow	117	33.3	-	25	104-1b/15

Certificate No: 104p to LPS 1219: Issue 3.1

Style 109 One-bolt coupling

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Style 109 One-bolt coupling	32	42.4	R	EPDM	25	104p/01
Style 109 One-bolt coupling	40	48.3	R	EPDM	25	104p/02
Style 109 One-bolt coupling	50	60.3	R	EPDM	25	104p/03
Style 109 One-bolt coupling	65	76.1	R	EPDM	25	104p/04
Style 109 One-bolt coupling	80	88.9	R	EPDM	25	104p/05
Style 109 One-bolt coupling	100	114.3	R	EPDM	20	104p/06

PIPE COUPLINGS AND FITTINGS

Certificate No: 104q to LPS 1219: Issue 3.1

Style 118 Outlet coupling

Product Name	Nominal Size	Pipe Outside Diameter (mm)	Pipe Ends	Gasket Type	Maximum Working Pressure (bar)	LPCB Ref. No.
Style 118 Firelock IGS Installation-Ready Outlet coupling	1"	33.7	IGS	EPDM	25	104q/07

Certificate No: 1803a to LPS 1219: Issue 3.1

Pipe Fittings

Product Name	Model No.	Pipe Outside Diameter (mm)	Maximum Working Pressure (bar)	LPCB Ref. No.
Tee	20	219.1	20	1803a /01
Reducing Tee Grooved	25	219.1 X 219.1 X 114.3	20	1803a /02

Certificate No: 1807a to LPS 1219: Issue 3.1

Pipe Fittings

Product Name	Model No.	Pipe Outside Diameter (mm)	Maximum Working Pressure (bar)	LPCB Ref. No.
FIRELOCK™ 90° Elbow	001	60.3, 73.0, 88.9, 114.3, 168.3	16	1807a /01
FIRELOCK™ Straight Tee	002	60.3, 73.0, 88.9, 114.3, 168.3	16	1807a /02
FIRELOCK™ 45° Elbow	003	60.3, 73.0, 88.9, 114.3, 168.3	16	1807a /03

PIPEWORK SUPPORTS

This section lists products approved in accordance with:

- LPS 1194 *Requirements and Testing Methods for Pipe Hangers*.

Components of pipe support systems listed below are considered acceptable for use in installations conforming to the *LPC Rules for Automatic Sprinkler Installations*. The products shall be installed and maintained in accordance with the manufacturer's instructions.

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Certificate No: 1568a to LPS 1194: Issue 1.2

Pipe Hangers

Product Name	Pipe Size (DN)	Material	Finish	LPCB Ref. No.
FIL015LPCB	15	Mild Steel	Galvanised	1568a/01
FIL020LPCB	20	Mild Steel	Galvanised	1568a/02
FIL025LPCB	25	Mild Steel	Galvanised	1568a/03
FIL032LPCB	32	Mild Steel	Galvanised	1568a/04
FIL040LPCB	40	Mild Steel	Galvanised	1568a/05
FIL050LPCB	50	Mild Steel	Galvanised	1568a/06
FIL065LPCB	65	Mild Steel	Galvanised	1568a/07
FIL080LPCB	80	Mild Steel	Galvanised	1568a/08
FIL100LPCB	100	Mild Steel	Galvanised	1568a/09
FIL125LPCB	125	Mild Steel	Galvanised	1568a/10
FIL150LPCB	150	Mild Steel	Galvanised	1568a/11

WOPF Befestigungselemente GmbH

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Certificate No: 918a to LPS 1194: Issue 1.2

'KWIKSTRUT' Filbow Pipe Hangers

Product Name	Pipe Size (mm)	Material	Finish	LPCB Ref. No.
FIL00272	20	Mild Steel	Galvanised	918a/01
FIL00342	25	Mild Steel	Galvanised	918a/01
FIL00422	32	Mild Steel	Galvanised	918a/01
FIL00482	40	Mild Steel	Galvanised	918a/01
FIL00602	50	Mild Steel	Galvanised	918a/01
FIL00762	65	Mild Steel	Galvanised	918a/01
FIL00892	80	Mild Steel	Galvanised	918a/01
FIL01142	100	Mild Steel	Galvanised	918a/01
FIL01682	150	Mild Steel	Galvanised	918a/01
FIL02192	200	Mild Steel	Galvanised	918a/01

PLASTIC PIPES AND FITTINGS

This section lists products approved in accordance with:

- LPS 1260 *Requirements for testing plastic pipes and fittings for sprinkler systems.*

The scope of use of plastic pipe shall be agreed between the plastics suppliers, purchaser/installer, authority having jurisdiction and/or insurer in accordance with documented supplier Installation Instructions but subject to the following criteria taking precedence.

- 1) Use of plastic pipe and fittings is subject to water authority agreement for the district or territory concerned.
- 2) LPCB Approved quick response sprinklers shall be used with exposed (i.e. fire exposure) plastic pipe and fittings.
- 3) Plastic pipe and fittings are suitable for use only with wet pipe systems.
- 4) Use of water additives is only permitted in accordance with the manufacturers installation instructions.
- 5) Care should be exercised to ensure that the adhesive joints are adequately cured, in accordance with the manufacturers installation instructions, prior to pressurisation.
- 6) Plastic pipe and fittings shall not be installed outdoors.
- 7) Where plastic pipe and fittings are exposed (i.e. fire exposure), the system shall be installed close to a flat ceiling construction.
- 8) Sprinkler systems which employ plastic pipe and fittings shall be designed where possible to ensure there are no no flow sections of pipework in the event of sprinkler operation.

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Certificate No: 684a to LPS 1260

'Red Pipe' PPR Plastic Pipe & Fittings

Product Name	Nominal DiameterRange(mm)	MaximumWorking Pressure(bar)	LPCB Ref. No.
'Red Pipe' Sprinkler Pipe	20, 25, 32, 40, 50, 63, 75, 90, 110, 125	12	684a/01
Socket	20, 25, 32, 40, 50, 63, 75, 90, 110, 125	12	684a/02
Reducer	25/20, 32/25, 40/32, 50/20, 50/32, 50/40, 63/20, 63/50, 75/50, 75/63, 90/63, 90/75, 110/63, 110/90, 125/90, 125/110	12	684a/03
Elbow, 90°	20, 25, 32, 40, 50, 63, 75, 90, 110, 125	12	684a/04
Elbow, 45°	20, 25, 32, 40, 50, 63, 75, 90, 110, 125	12	684a/05
Tee	20, 25, 32, 40, 50, 63, 75, 90, 110, 125	12	684a/06
Reducing Tee	20x25x20, 25x20x20, 25x20x25, 32x20x20, 32x20x32, 32x25x32, 40x20x40, 40x25x40, 40x32x40, 50x20x50, 50x25x50, 50x32x50, 50x40x50, 63x32x63, 63x40x63, 63x50x63, 75x40x75, 75x50x75, 75x63x75, 90x40x90, 90x50x90, 90x63x90, 90x75x90, 110x63x110, 110x75x110, 110x90x110, 125x75x125, 125x90x125, 125x110x125	12	684a/07
End Cap	20, 25, 32, 40, 50, 63, 75, 90, 110, 125	12	684a/08
Socket Welded Nipple	32, 40, 50, 63, 75, 90, 110, 125	12	684a/09
Saddle Weld-in	40/20, 40/25, 50/20, 50/25, 63/20, 63/25, 63/32, 75/20, 75/25, 75/32, 75/40, 90/20, 90/25, 90/32, 90/40, 110/20, 110/25, 110/32, 110/40, 110/50, 125/20, 125/25, 125/32, 125/40, 125/50, 125/63	12	684a/10
Coupling screw joint	32, 40, 50, 63, 75	12	684a/11
Wall connection	20x1/2"F, 25x3/4"F	12	684a/12
Transition piece Female	20x1/2"F, 20x3/4"F, 25x1/2"F, 25x3/4"F, 32x1/2"F, 32x3/4"F, 32x1"F, 40x1/2"F, 40x1"F, 40x1 1/4"F, 50x1 1/4"F, 50x1 1/2"F, 63x1 1/2"F, 63x2"F, 75x2"	12	684a/13
Transition piece Male	20x1/2"M, 20x3/4"M, 25x1/2"M, 25x3/4"M, 32x3/4"M, 32x1 1/4"M, 40x1"M, 40x1 1/4"M, 50x1 1/4"M, 50x1 1/2"M, 63x1 1/2"M, 63x2"M, 75x2"M, 75x2 1/2"M, 90x3"M, 110x4"M	12	684a/14
Connecting Union	20/nut R 1", 25/nut R 1 1/4", 32/nut R 1 1/2", 40/nut R 2", 50/nut R 2 1/4", 50/nut 2 1/2", 63/nut R 2 3/4", 75/nut R3 1/2", 90/nut R 4"	12	684a/15
Transition joint	nut R 1"x20, nut R 1 1/4"x25, nut R 1 1/2"x32, nut R 2"x40, nut R 2 1/4"x50, nut R 2 3/4"x63, nut R 3 1/2"x75	12	684a/16
Counterpart	1"Mx20, 1 1/4"Mx25, 1 1/2"Mx32, 2"Mx40, 2 1/4"Mx50, 2 3/4"Mx63, 3 1/2"Mx75	12	684a/17
Transition Tee	20x1/2"Fx20, 20x3/4"Fx20, 25x1/2"Fx25, 25x3/4"Fx25, 32x1/2"Fx32, 32x3/4"Fx32, 32x1"Fx32, 40x1/2"Fx40, 40x3/4"Fx40, 50x1"Fx40, 50x1 1/4"Fx50, 50x1 1/2"Fx50	12	684a/18
Saddle Weld-in with Female thread & hexagon socket	40/25x1/2"F, 50/25x1/2"F, 63/25x1/2"F, 75/25x1/2"F, 90/25x1/2"F, 110/25x1/2"F, 125/25x1/2"F, 40/25x3/4"F, 50/25x3/4"F, 63/25x3/4"F, 75/25x3/4"F, 90/25x3/4"F, 110/25x3/4"F, 125/125x3/4"F, 75/32x1"F, 90/32x1"F, 110/32x1"F, 125/32x1"F	12	684a/19
Screw-down valve	20, 25, 32, 40	12	684a/20
Inclined valve	20, 25, 32, 40	12	684a/21
Ball cock	75, 90	12	684a/22
Draining branch	40, 50, 63	12	684a/23
Reducing Socket	63/50, 75/63, 90/75	12	684a/24

PLASTIC PIPES AND FITTINGS

Elbow, 90° Female/Male	20, 25, 32, 40	12	684a/25
Elbow, 45° Female/Male	20, 25, 32, 40	12	684a/26
Cross	32, 40	12	684a/27
Reducing cross	50/32, 63/32, 63/40, 75/32, 75/40, 75/50, 90/50	12	684a/28
Transition piece round Female	20x½"F, 25x½"F, 25x¾"F, 32x½"F, 32x¾"F, 40x¾"F, 40x½"F	12	684a/29
Transition Elbow, 90°C	20x½"F, 20x¾"F, 25x½"F, 25x¾"F, 32x½"F, 32x¾"F, 32x1"F, 40x½"F, 40x1"F	12	684a/30
Transition piece for groove connection	40x1", 50x1¼", 63x1½" 75x2", 90x3", 110x4", 125x5"	12	684a/31

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Certificate No: 293b to LPS 1260: Issue 3.1

Spears® FlameGuard® Chlorinated Polyvinyl Chloride (CPVC) Sprinkler Fittings

Product Name	Nominal Size(in.)	Part Number	MaximumWorkingPressure(bar)	LPCB Ref. No.
Tee (Soc x Soc x Soc)	¾	4201-007	12	293b/01
Tee (Soc x Soc x Soc)	1	4201-010	12	293b/01
Tee (Soc x Soc x Soc)	1¼	4201-012	12	293b/01
Tee (Soc x Soc x Soc)	1½	4201-015	12	293b/01
Tee (Soc x Soc x Soc)	2	4201-020	12	293b/01
Tee (Soc x Soc x Soc)	2½	4201-025	12	293b/01
Tee (Soc x Soc x Soc)	3	4201-030	12	293b/01
Reducing Tee (Soc x Soc x Soc)	¾x¾x1	4201-102	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1x¾x¾	4201-125	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1x¾x1	4201-126	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1x1x¾	4201-131	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1¼x1x¾	4201-157	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1¼x1x1	4201-158	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1¼x1x1¼	4201-159	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1¼x1¼x¾	4201-167	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1¼x1¼x1	4201-168	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1¼x1¼x1½	4201-169	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1½x1¼x¾	4201-201	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1½x1¼x1	4201-202	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1½x1¼x¾	4201-210	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1½x1¼x1	4201-211	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1½x1½x1¼	4201-212	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1½x1½x2	4201-213	12	293b/02
Reducing Tee (Soc x Soc x Soc)	2x2x¾	4201-248	12	293b/02
Reducing Tee (Soc x Soc x Soc)	2x2x1	4201-249	12	293b/02
Reducing Tee (Soc x Soc x Soc)	2x2x1½	4201-251	12	293b/02
Reducing Tee (Soc x Soc x Soc)	2½x2½x1	4201-289	12	293b/02
Reducing Tee (Soc x Soc x Soc)	2½x2½x1¼	4201-290	12	293b/02
Reducing Tee (Soc x Soc x Soc)	2½x2½x1½	4201-291	12	293b/02
Reducing Tee (Soc x Soc x Soc)	3x3x2	4201-338	12	293b/02
Reducing Tee (Soc x Soc x Soc)	3x3x2½	4201-339	12	293b/02
Street Tee (Sprig x Soc x Soc)	¾	4244-007	12	293b/03
Street Tee (Sprig x Soc x Soc)	1	4244-010	12	293b/03
Street Tee (Sprig x Soc x Soc)	1¼	4244-012	12	293b/03
Street Tee (Sprig x Soc x Soc)	1½	4244-015	12	293b/03
Street Tee (Sprig x Soc x Soc)	2	4244-020	12	293b/03
Sprinkler Head Tee (Soc x Soc x Metal FIPT)	¾x¾x½	4202-101	12	293b/04
Sprinkler Head Tee (Soc x Soc x Metal FIPT)	1x¾x½	4202-124	12	293b/04
Sprinkler Head Tee (Soc x Soc x Metal FIPT)	1x1x½	4202-130	12	293b/04
Sprinkler Head Tee (Soc x Soc x Metal FIPT)	1x1x1	4202-010	12	293b/04
Sprinkler Head Tee (Soc x Soc x Metal FIPT)	1¼x1x½	4202-156	12	293b/04
Sprinkler Head Tee (Soc x Soc x Metal FIPT)	1¼x1¼x½	4202-166	12	293b/04
Sprinkler Head Tee (Soc x Soc x Metal FIPT)	1½x1¼x½	4202-199	12	293b/04
Sprinkler Head Tee (Soc x Soc x Metal FIPT)	1½x1½x½	4202-209	12	293b/04
Sprinkler Head Tee (Soc x Soc x Metal FIPT)	2x1½x½	4202-237	12	293b/04
Sprinkler Head Tee (Soc x Soc x Metal FIPT)	2x2x½	4202-247	12	293b/04
Sprinkler Head Tee (Soc x Soc x SR FIPT)	¾x¾x½	4202-101SR	12	293b/05

PLASTIC PIPES AND FITTINGS

Sprinkler Head Tee (Soc x Soc x SR FIPT)	1x¾x½	4202-124SR	12	293b/05
Sprinkler Head Tee (Soc x Soc x SR FIPT)	1x1x½	4202-130SR	12	293b/05
Sprinkler Head Tee (Soc x Soc x SR FIPT)	1x1x1	4202-010SR	12	293b/05
Sprinkler Head Tee (Soc x Soc x SR FIPT)	1¼x1x½	4202-156SR	12	293b/05
Sprinkler Head Tee (Soc x Soc x SR FIPT)	1¾x1¾x½	4202-166SR	12	293b/05
Sprinkler Head Tee (Soc x Soc x SR FIPT)	1½x1¼x½	4202-199SR	12	293b/05
Sprinkler Head Tee (Soc x Soc x SR FIPT)	1½x1½x½	4202-209SR	12	293b/05
Sprinkler Head Tee (Soc x Soc x SR FIPT)	1½x1½x1	4202-211SR	12	293b/05
Sprinkler Head Tee (Soc x Soc x SR FIPT)	2x1½x½	4202-237SR	12	293b/05
Sprinkler Head Tee (Soc x Soc x SR FIPT)	2x2x½	4202-247SR	12	293b/05
Sprinkler Head Tee (Soc x Metal FIPT x Soc)	1x½x1	4203-122	12	293b/06
Sprinkler Head Tee (Soc x SR FIPT x Soc)	1x½x1	4203-122SR	12	293b/06
Sprinkler Head Tee, Sidewall (SR FIPT x SR FIPT x Soc)	½x½x1	4243-075SR	12	293b/07
Cross (All Socket)	¾	4220-007	12	293b/08
Cross (All Socket)	1	4220-010	12	293b/08
Cross (All Socket)	1¼	4220-012	12	293b/08
Cross (All Socket)	1½	4220-015	12	293b/08
Cross (All Socket)	2	4220-020	12	293b/08
Cross (All Socket)	2½	4220-025	12	293b/08
Cross (All Socket)	3	4220-030	12	293b/08
Reducing Cross (All Socket)	1x1x¾x¾	4220-131	12	293b/09
Sprinkler Head Cross, Sidewall (Soc x SR FIPT)	1x½	4221-130SR	12	293b/10
Sprinkler Head Cross, Sidewall (Soc x SR FIPT)	1x¾	4221-131SR	12	293b/10
90° Elbow (All Socket)	¾	4206-007	12	293b/11
90° Elbow (All Socket)	1	4206-010	12	293b/11
90° Elbow (All Socket)	1¼	4206-012	12	293b/11
90° Elbow (All Socket)	1½	4206-015	12	293b/11
90° Elbow (All Socket)	2	4206-020	12	293b/11
90° Elbow (All Socket)	2½	4206-025	12	293b/11
90° Elbow (All Socket)	3	4206-030	12	293b/11
Reducing 90° Elbow (All Socket)	1x¾	4206-131	12	293b/12
90° Street Elbow (Spig x Soc)	¾	4209-007	12	293b/13
90° Street Elbow (Spig x Soc)	1	4209-010	12	293b/13
90° Street Elbow (Spig x Soc)	1-¼	4209-012	12	293b/13
90° Street Elbow (Spig x Soc)	1-½	4209-015	12	293b/13
90° Street Elbow (Spig x Soc)	2	4209-020	12	293b/13
Sprinkler Head 90° Elbow (Socket x Metal FIPT)	¾x½	4207-101	12	293b/14
Sprinkler Head 90° Elbow (Socket x Metal FIPT)	1x½	4207-130	12	293b/14
Sprinkler Head Cross, Sidewall (Soc x SR FIPT)	1x¾	4207-131	12	293b/14
Sprinkler Head 90° Elbow (Socket x Metal FIPT)	1¾x½	4207-166	12	293b/14
Sprinkler Head 90° Elbow (Socket x Metal FIPT)	¾x½	4207-101SR	12	293b/14
Sprinkler Head 90° Elbow (Socket x Metal FIPT)	1x½	4207-130SR	12	293b/14
Sprinkler Head 90° Elbow (Socket x Metal FIPT)	1x¾	4207-131SR	12	293b/14
Sprinkler Head 90° Elbow (Socket x Metal FIPT)	1¾x½	4207-166SR	12	293b/14
45° Elbow (All Socket)	¾	4217-007	12	293b/15
45° Elbow (All Socket)	1	4217-010	12	293b/15
45° Elbow (All Socket)	1¼	4217-012	12	293b/15
45° Elbow (All Socket)	1½	4217-015	12	293b/15
45° Elbow (All Socket)	2	4217-020	12	293b/15
45° Elbow (All Socket)	2½	4217-025	12	293b/15
45° Elbow (All Socket)	3	4217-030	12	293b/15
Coupling (Soc x Soc)	¾	4229-007	12	293b/16
Coupling (Soc x Soc)	1	4229-010	12	293b/16
Coupling (Soc x Soc)	1¼	4229-012	12	293b/16
Coupling (Soc x Soc)	1½	4229-015	12	293b/16
Coupling (Soc x Soc)	2	4229-020	12	293b/16
Coupling (Soc x Soc)	2½	4229-025	12	293b/16
Coupling (Soc x Soc)	3	4229-030	12	293b/16
Reducer Coupling (Soc x Soc)	1x¾	4229-131	12	293b/17
Reducer Coupling (Soc x Soc)	1¼x¾	4229-167	12	293b/17
Reducer Coupling (Soc x Soc)	1¼x1	4229-168	12	293b/17
Reducer Coupling (Soc x Soc)	1½x¾	4229-210	12	293b/17
Reducer Coupling (Soc x Soc)	1½x1	4229-211	12	293b/17
Reducer Coupling (Soc x Soc)	1½x1¼	4229-212	12	293b/17
Reducer Coupling (Soc x Soc)	2x¾	4229-248	12	293b/17
Reducer Coupling (Soc x Soc)	2x1	4229-249	12	293b/17
Reducer Coupling (Soc x Soc)	2x1¼	4229-250	12	293b/17
Reducer Coupling (Soc x Soc)	2x1½	4229-251	12	293b/17
Reducer Coupling (Soc x Soc)	2½x1½	4229-291	12	293b/17
Reducer Coupling (Soc x Soc)	2½x2	4229-292	12	293b/17
Reducer Bushing (Spig x Soc)	1x¾	4237-131	12	293b/18
Reducer Bushing (Spig x Soc)	1¼x¾	4237-167	12	293b/18
Reducer Bushing (Spig x Soc)	1¼x1	4237-168	12	293b/18

PLASTIC PIPES AND FITTINGS

Reducer Bushing (Spig x Soc)	1½x¾	4237-210	12	293b/18
Reducer Bushing (Spig x Soc)	1½x1	4237-211	12	293b/18
Reducer Bushing (Spig x Soc)	1½x1¼	4237-212	12	293b/18
Reducer Bushing (Spig x Soc)	2x¾	4237-248	12	293b/18
Reducer Bushing (Spig x Soc)	2x1	4237-249	12	293b/18
Reducer Bushing (Spig x Soc)	2x1¼	4237-250	12	293b/18
Reducer Bushing (Spig x Soc)	2x1½	4237-251	12	293b/18
Reducer Bushing (Spig x Soc)	2½x1¼	4237-290	12	293b/18
Reducer Bushing (Spig x Soc)	2½x1½	4237-291	12	293b/18
Reducer Bushing (Spig x Soc)	2½x2	4237-292	12	293b/18
Reducer Bushing (Spig x Soc)	3x2	4237-338	12	293b/18
Reducer Bushing (Spig x Soc)	3x2½	4237-339	12	293b/18
Cap (Soc)	¾	4247-007	12	293b/19
Cap (Soc)	1	4247-010	12	293b/19
Cap (Soc)	1¼	4247-012	12	293b/19
Cap (Soc)	1½	4247-015	12	293b/19
Cap (Soc)	2	4247-020	12	293b/19
Cap (Soc)	2½	4247-025	12	293b/19
Cap (Soc)	3	4247-030	12	293b/19
Grooved Coupling Adapter (Grv x Soc)	1¼	4233-012	12	293b/20
Grooved Coupling Adapter (Grv x Soc)	1½	4233-015	12	293b/20
Grooved Coupling Adapter (Grv x Soc)	2	4233-020	12	293b/20
Grooved Coupling Adapter (Grv x Soc)	2½	4233-025	12	293b/20
Grooved Coupling Adapter (Grv x Soc)	3	4233-030	12	293b/20
Female Adapter (Soc x Metal FIPT)	¾	4235-007	12	293b/21
Female Adapter (Soc x Metal FIPT)	1	4235-010	12	293b/21
Female Adapter (Soc x Metal FIPT)	1¼	4235-012	12	293b/21
Female Adapter (Soc x Metal FIPT)	1½	4235-015	12	293b/21
Female Adapter (Soc x Metal FIPT)	2	4235-020	12	293b/21
Sprinkler Head Adapter Long Body (Soc x Metal FIPT)	1x½	L4235-130	12	293b/22
Sprinkler Head Adapter With Positioning Ring (Soc x Metal FIPT)	¾x½	R4235-101	12	293b/22
Sprinkler Head Adapter (Soc x Metal FIPT)	¾x½	4235-101	12	293b/22
Sprinkler Head Adapter (Soc x Metal FIPT)	1x½	4235-130	12	293b/22
Sprinkler Head Adapter (Soc x Metal FIPT)	1x¾	4235-131	12	293b/22
Female Adapter (Soc x SR FIPT)	¾	4235-007SR	12	293b/23
Female Adapter (Soc x SR FIPT)	1	4235-010SR	12	293b/23
Female Adapter (Soc x SR FIPT)	1¼	4235-012SR	12	293b/23
Sprinkler Head Adapter (Soc x SR FIPT)	¾x½	4235-101SR	12	293b/24
Sprinkler Head Adapter (Soc x SR FIPT)	1x1½	4235-130SR	12	293b/24
Sprinkler Head Adapter (Soc x SR FIPT)	1x¾	4235-131SR	12	293b/24
Spigot Sprinkler Head Adapter (Spig x Metal FIPT)	3/8x½	4238-101	12	293b/25
Spigot Sprinkler Head Adapter (Spig x Metal FIPT)	1x1½	4238-130	12	293b/25
Spigot Sprinkler Head Adapter (Spig x SR FIPT)	¾x½	4238-101SR	12	293b/26
Spigot Sprinkler Head Adapter (Spig x SR FIPT)	1x½	4238-130SR	12	293b/26
Spigot Female Adapter (Spig x Metal FIPT)	¾	4278-007	12	293b/27
Spigot Female Adapter (Spig x Metal FIPT)	1	4278-010	12	293b/27
Spigot Female Adapter (Spig x SR FIPT)	¾	4278-007SR	12	293b/28
Spigot Female Adapter (Spig x SR FIPT)	1	4278-010SR	12	293b/28
Adjustable Sprinkler Head Adapter (Soc x Metal FIPT)	¾x½	42001	12	293b/29
Adjustable Sprinkler Head Adapter (Soc x Metal FIPT)	1x½	42011	12	293b/29
Adjustable Sprinkler Head Adapter (Spig x Metal FIPT)	¾x½	42004	12	293b/30
Adjustable Sprinkler Head Adapter (Spig x Metal FIPT)	1x½	42014	12	293b/30
Adjustable Sprinkler Head Adapter (Soc x SR FIPT)	¾x½	42001SR	12	293b/31
Adjustable Sprinkler Head Adapter (Soc x SR FIPT)	1x½	42011SR	12	293b/31
Adjustable Sprinkler Head Adapter (Spig x SR FIPT)	¾x½	42004SR	12	293b/32
Adjustable Sprinkler Head Adapter (Spig x SR FIPT)	1x½	42014SR	12	293b/32
Flange (Soc)	¾	4251-007	12	293b/33
Flange (Soc)	1	4251-010	12	293b/33
Flange (Soc)	1¼	4251-012	12	293b/33
Flange (Soc)	1½	4251-015	12	293b/33
Flange (Soc)	2	4251-020	12	293b/33
Flange (Soc)	2½	4251-025	12	293b/33
Flange (Soc)	3	4254-030	12	293b/33
Flange, Van Stone Style (Spig)	¾	4256-007	12	293b/34
Flange, Van Stone Style (Spig)	1	4256-010	12	293b/34
Flange, Van Stone Style (Spig)	1¼	4256-012	12	293b/34
Flange, Van Stone Style (Spig)	1½	4256-015	12	293b/34
Flange, Van Stone Style (Spig)	2	4256-020	12	293b/34
Flange, Van Stone Style (Spig)	2½	4256-025	12	293b/34
Flange, Van Stone Style (Spig)	3	4256-030	12	293b/34
Flange, Blind	¾	4253-007	12	293b/35
Flange, Blind	1	4253-010	12	293b/35
Flange, Blind	1¼	4253-012	12	293b/35
Flange, Blind	1½	4253-015	12	293b/35

PLASTIC PIPES AND FITTINGS

Flange, Blind	2	4253-020	12	293b/35
Flange, Blind	2½	4253-025	12	293b/35
Flange, Blind	3	4253-030	12	293b/35
Union (Soc x Soc)	¾	4257-007	12	293b/36
Union (Soc x Soc)	1	4257-010	12	293b/36
Union (Soc x Soc)	1¼	4257-012	12	293b/36
Union (Soc x Soc)	1½	4257-015	12	293b/36
Union (Soc x Soc)	2	4257-020	12	293b/36
Union (Soc x Metal FIPT)	¾	4259-007BR	12	293b/37
Union (Soc x Metal FIPT)	1	4259-010BR	12	293b/37
Union (Soc x Metal FIPT)	1¼	4259-012BR	12	293b/37
Union (Soc x Metal FIPT)	1½	4259-015BR	12	293b/37
Union (Soc x Metal FIPT)	2	4259-020BR	12	293b/37

Certificate No: 293b to LPS 1260: Issue 3.1

Spears® FlameGuard® Chlorinated Polyvinyl Chloride (CPVC) Sprinkler Pipe

Product Name	Nominal Size (in.)	Maximum Working Pressure (bar)	LPCB Ref. No.
Spears FlameGuard Fire Sprinkler Pipe	¾, 1, 1¼, 1½, 2, 2½, 3	12	293b/38

Certificate No: 293b to LPS 1260: Issue 3.1

Spears® FlameGuard® QuickTorque™ Gasket Sealed Special Reinforced Chlorinated Polyvinyl Chloride (CPVC) Sprinkler Fittings

Product Name	Nominal Size (in.)	Part Number	Maximum Working Pressure (bar)	LPCB Ref. No.
Female Sprinkler Head Adapter - Metal Thread Insert (Soc X SR FIPT)	¾"x½"	4235-101GMR	12	293b/39
Female Sprinkler Head Adapter - Metal Thread Insert (Soc X SR FIPT)	1"x½"	4235-130GMR	12	293b/39

Certificate No: 293b to LPS 1260: Issue 3.1

Spears® FlameGuard® TorqueSafe™ Gasket Sealed Chlorinated Polyvinyl Chloride (CPVC) Sprinkler Fittings

Product Name	Nominal Size (in.)	Part Number	Maximum Working Pressure (bar)	LPCB Ref. No.
Female Sprinkler Head Adapter - Brass Thread Insert (Soc X FIPT)	¾"x½"	4235-101G	12	293b/40
Female Sprinkler Head Adapter - Brass Thread Insert (Soc X FIPT)	1"x½"	4235-130GS	12	293b/40
Female Sprinkler Head Adapter - Brass Thread Insert (Soc X FIPT)	1"x¾"	4235-131G	12	293b/40
Sprinkler Head 90° elbow- Brass Thread Insert (Soc X FIPT)	¾"x½"	4207-101G	12	293b/41
Sprinkler Head 90° elbow- Brass Thread Insert (Soc X FIPT)	1"x½"	4207-130G	12	293b/41
Sprinkler Head 90° elbow- Brass Thread Insert (Soc X FIPT)	1¼"x½"	4207-166G	12	293b/41
Sprinkler Head Tee - Brass Thread Insert (Soc X Soc X FIPT)	¾"x½"	4202-101G	12	293b/42
Sprinkler Head Reducing Tee - Brass Thread Insert (Soc X Soc X FIPT)	1"x¾"x½"	4202-124G	12	293b/42
Sprinkler Head Tee - Brass Thread Insert (Soc X Soc X FIPT)	1"x½"	4202-130G	12	293b/42
Sprinkler Head Tee - Brass Thread Insert (Soc X Soc X FIPT)	1¼"x½"	4202-166G	12	293b/42
Sprinkler Head Tee - Brass Thread Insert (Soc X Soc X FIPT)	1½"x½"	4202-209G	12	293b/42
Sprinkler Head Tee - Brass Thread Insert (Soc X Soc X FIPT)	2"x½"	4202-247G	12	293b/42
Sprinkler Head Reducing Tee - Brass Thread Insert (Soc X FIPT X Soc)	1"x½"x1"	4203-122G	12	293b/43
Female Spigot Adapter - Brass Thread Insert (Spigot X FIPT)	¾"x½"	4238-101G	12	293b/44
Female Spigot Adapter - Brass Thread Insert (Spigot X FIPT)	1"x½"	4238-130G	12	293b/44
Bushing Brass Thread Insert (Spigot X FIPT)	1"x½"	4238-130BRG	12	293b/45

Certificate No: 293b to LPS 1260: Issue 3.1

Spears® FlameGuard® SofTorque™ Gasket Sealed Special Reinforced Chlorinated Polyvinyl Chloride (CPVC) Sprinkler Fittings

Product Name	Nominal Size (in.)	Part Number	Maximum Working Pressure (bar)	LPCB Ref. No.
Sprinkler Head Tee (Soc X Soc X SR FIPT)	¾"x½"	4202-101GSR	12	293b/46
Sprinkler Head Tee (Soc X Soc X SR FIPT)	1"x¾"x½"	4202-124GSR	12	293b/46
Sprinkler Head Tee (Soc X Soc X SR FIPT)	1"x½"	4202-130GSR	12	293b/46
Sprinkler Head Reducing Tee (Soc X SR FIPT X Soc)	1"x½"x1"	4202-122GSR	12	293b/47
Sprinkler Head 90° elbow (Soc X SR FIPT)	¾"x½"	4207-101GSR	12	293b/48
Sprinkler Head 90° elbow (Soc X SR FIPT)	1"x½"	4207-130GSR	12	293b/48
Sprinkler Head 90° elbow (Soc X SR FIPT)	1¼"x½"	4207-166GSR	12	293b/48
Female Sprinkler Head Adapter - (Soc X SR FIPT)	¾"x½"	4235-101GSR	12	293b/49
Female Sprinkler Head Adapter - (Soc X SR FIPT)	1"x½"	4235-130GSR	12	293b/49
Female Sprinkler Head Adapter - (Soc X SR FIPT)	1"x¾"	4235-131GSR	12	293b/49
Bushing (Spigot X SR FIPT)	1"x½"	4238-130GSR	12	293b/50
Spigot Female Head Adapter - (Spigot X SR FIPT)	¾"x½"	4278-101GSR	12	293b/51
Spigot Female Head Adapter - (Spigot X SR FIPT)	1"x½"	4278-130GSR	12	293b/51

PLASTIC PIPES AND FITTINGS

Tyco Fire & Building Products (Madison)

245 Swancott Road, Madison, Alabama 35756, USA

Tel: +1 256 464 5633

Certificate No: 420a to LPS 1260: Issue 3.1

TYCO FIRE PRODUCTS CHLORINATED POLYVINYLCHLORIDE (CPVC) BLAZEMASTER SPRINKLER FITTINGS

Product Name	Nominal Diameter Range	Maximum Working Pressure(bar)	LPCB Ref. No.
Cap	0.75", 1.0", 1.25", 1.5", 2.0", 2.5", 3.0"	12	420a/01
Straight coupling	0.75", 1.0", 1.25", 1.5", 2.0", 2.5", 3.0"	12	420a/02
Reducer bush	1.0"x0.75", 1.25"x0.75", 1.25"x1.0", 1.5"x0.75", 1.5"x1.0", 1.5"x1.25", 2.0"x0.75", 2.0"x1.0", 2.5"x1.0", 2.0"x1.25", 2.0"x1.5", 2.5"x1.25", 2.5"x1.5", 2.5"x2.0"	12	420a/03
90° Elbow	0.75", 1.0", 1.25", 1.5", 2.0", 2.25", 2.5", 3"	12	420a/04
45° Elbow	0.75", 1.0", 1.25", 1.5", 2.0"	12	420a/05
Tee	0.75", 1.0", 1.25", 1.5", 2.0", 2.5", 3"	12	420a/06
Reducing Tee	0.75"x0.75"x1.0", 1.0"x0.75"x0.75", 1.0"x0.75"x1.0", 1.0"x1.0"x0.75", 1.25"x1.0"x0.75", 1.25"x1.0"x1.0", 1.25"x1.0"x1.25", 1.25"x1.25"x0.75", 1.25"x1.25"x1.0", 1.25"x1.25"x1.5", 1.5"x1.25"x0.75", 1.5	12	420a/07
Cross	0.75", 1.0", 1.25", 1.5", 2.0", 2.5", 3"	12	420a/08
Slip sprinkler head adapters	0.75"x0.5", 1.0"x0.5", 1.0"x0.75"	12	420a/09
Reducer Coupling	1.0"x0.75"	12	420a/11
Spigot sprinkler head Adaptor	0.75"x0.5", 1.0"x0.5"	12	420a/12
Sprinkler head 90° Elbow	0.75"x0.5", 1.0"x0.5"	12	420a/19
Sprinkler head tee	0.75"x0.75"x0.5", 1.0"x1.0"x0.5", 1.0"x1.0"x1.0", 1.25"x1.25"x0.5", 1.25"x1.0"x0.5", 1.5"x1.25"x0.5", 1.5"x1.5"x0.5", 2.0"x1.5"x0.5", 2.0"x2.0"x0.5"	12	420a/20
Reducing elbow 90°	1.0"x0.75"	12	420a/23
Male adapter NPT	0.75", 1.0"	12	420a/24
Male adapter ISO 7/1	1.0"	12	420a/24
Sprinkler head tee (back to back)	1.0"x0.5" NPT (3D8"), 1.0"x0.5" NPT (5D8")	12	420a/26
Cross (back to back)	1.0"x0.5" NPT (3D8"), 1.0"x0.5" NPT (5D8")	12	420a/27
Female adapter NPT	0.75", 1", 1.25", 1.5", 2.0"	12	420a/28
Female adapter ISO 7/1	1", 1.25", 1.5", 2.0"	12	420a/28
Reducing Cross	1"x1"x0.75"x0.75"	12	420a/29
Grooved Adapter	1.25", 1.50", 2", 2.50" x 76.1mm, 3"	12	420a/30
NPS Female 90° Adapter Elbow	¾" x ½", 1" x ½"	12	420a/31
NPS Female Adapter	¾" x ½", 1" x ½"	12	420a/32
NPS Female Adapter-Spigot	1" x ½"	12	420a/33
RSA 2.0 Female & Spigot Combo	¾" x 1"	12.07	420a/34
RSA 2.0, 90° Elbow	1", ¾"	12.07	420a/35
RSA 2.0 Female	1"	12.07	420a/36
RSA 2.0 Tee	1"x1"x½", ¾"x¾" x½"	12.07	420a/37
RSA 2.0 Spigot	¾" x½"	12.07	420a/38
RSA 2.0 Back to Back Tee	1"x½"x½", 3 ⅜", 1"x½"x½", 3 ⅝"	12.07	420a/39
RSA 2.0 Back to Back Cross	1"x1"x½"x½", 3 ⅜", 1"x1"x½"x½", 3 ⅝"	12.07	420a/40

Certificate No: 420a to LPS 1260: Issue 3.1

TYCO FIRE PRODUCTS CHLORINATED POLYVINYLCHLORIDE (CPVC) BLAZEMASTER SPRINKLER PIPE

Product Name	Nominal Diameter Range	Maximum Working Pressure(bar)	LPCB Ref. No.
Pipe	0.75", 1.0", 1.25", 1.5", 2.0", 2.5", 3.0"	12	420a/21

PLASTIC PIPES AND FITTINGS

Viking Plastics

202 Industrial Drive, Huntsville, AL 35811, USA

Tel: 001 256 858 3711

E-mail: techsvcs@vikingcorp.com • Website: www.vikingcorp.com

Certificate No: 837a to LPS 1260

Viking Plastics 'Blazemaster®' Chlorinated Polyvinyl Chloride (CPVC) Sprinkler Pipe

Product Name	Nominal Diameter Range	Maximum Working Pressure (bar)	LPCB Ref. No.
CPVC Sprinkler Pipe	0.75", 1", 1.25", 1.5" 2", 2.5", 3"	12	837a/01

Viking Plastics LLC

105 Quality Court, Charlestown, Indiana, 47111, USA

Tel: +1 269 945 9501

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Certificate No: 1559a to LPS 1260: Issue 3.1

Viking Plastics Blazemaster® Chlorinated Polyvinyl Chloride (CPVC) Sprinkler Fittings

Product Name	Size	Model	LPCB Ref. No.
Coupling	¾"	V5001-007	1559a/01
Coupling	1"	V5001-010	1559a/01
Coupling	1¼"	V5001-012	1559a/01
Coupling	1½"	V5001-015	1559a/01
Coupling	2"	V5001-020	1559a/01
Reducing Coupling	1"x¾"	V5001R-131	1559a/02
Reducing Coupling	1¼"x1"	V5001R-168	1559a/02
Female Adapter w/Metal Thd Insert	¾"	V5003-2-BI-007	1559a/04
Female Adapter w/Metal Thd Insert	1"	V5003-2-BI-010	1559a/04
Female Sprinkler Head Adapter w/Metal Thd Insert	¾"x½"	V5003-2-S-BI-101	1559a/05
Female Sprinkler Head Adapter w/Metal Thd Insert	1"x½"	V5003-2-S-BI-130	1559a/05
Female Adapter w/Metal Thd Insert	¾"	V5003-BI-007	1559a/06
Female Adapter w/Metal Thd Insert	1"	V5003-BI-010	1559a/06
Female Adapter w/Metal Thd Insert	1¼"	V5003-BI-012	1559a/06
Female Adapter w/Metal Thd Insert	1½"	V5003-BI-015	1559a/06
Female Adapter w/Metal Thd Insert	2"	V5003-BI-020	1559a/06
Female Sprinkler Head Adapter w/Metal Thd Insert	¾"x½"	V5003-S-BI-101	1559a/07
Female Sprinkler Head Adapter w/Metal Thd Insert	1"x½"	V5003-S-BI-130	1559a/07
Female Sprinkler Head Adapter w/Metal Thd Insert	1"x¾"	V5003-S-BI-131	1559a/07
Male Adapter w/Metal Thd Insert	¾"	V5004-BI-007	1559a/09
Male Adapter w/Metal Thd Insert	1"	V5004-BI-010	1559a/09
Male Adapter w/Metal Thd Insert	1¼"	V5004-BI-012	1559a/09
Male Adapter w/Metal Thd Insert	1½"	V5004-BI-015	1559a/09
Male Adapter w/Metal Thd Insert	2"	V5004-BI-020	1559a/09
45 Elbow	¾"	V5006-007	1559a/10
45 Elbow	1"	V5006-010	1559a/10
45 Elbow	1¼"	V5006-012	1559a/10
45 Elbow	1½"	V5006-015	1559a/10
45 Elbow	2"	V5006-020	1559a/10
90 Elbow	¾"	V5007-007	1559a/11
90 Elbow	1"	V5007-010	1559a/11
90 Elbow	1¼"	V5007-012	1559a/11
90 Elbow	1½"	V5007-015	1559a/11
90 Elbow	2"	V5007-020	1559a/11
Sprinkler Head 90 w/Metal Thd Insert	¾"x½"	V5007-3-S-BI-101	1559a/12
Sprinkler Head 90 w/Metal Thd Insert	1"x½"	V5007-3-S-BI-130	1559a/12
Sprinkler Head 90 w/Metal Thd Insert	1"x¾"	V5007-3-S-BI-131	1559a/12
Sprinkler Head 90 w/Metal Thd Insert	1¼"x½"	V5007-3-S-BI-166	1559a/12
90 Reducing Elbow	1"x¾"	V5007R-131	1559a/13
Tee	¾"	V5011-007	1559a/14
Tee	1"	V5011-010	1559a/14
Tee	1¼"	V5011-012	1559a/14
Tee	1½"	V5011-015	1559a/14

PLASTIC PIPES AND FITTINGS

Tee	2"	V5011-020	1559a/14
Reducing Tee	¾"x¾"x1"	V5011R-102	1559a/14
Reducing Tee	1"x1"x¾"	V5011R-131	1559a/14
Reducing Tee	1"x¾"x1"	V5011R-126	1559a/14
Reducing Tee	1"x¾"x¾"	V5011R-125	1559a/14
Reducing Tee	1¼"x1¼"x1"	V5011R-168	1559a/14
Reducing Tee	1¼"x1¼"x¾"	V5011R-167	1559a/14
Reducing Tee	1¼"x1"x1¼"	V5011R-159	1559a/14
Reducing Tee	1¼"x1"x1"	V5011R-158	1559a/14
Reducing Tee	1¼"x1"x¾"	V5011R-157	1559a/14
Reducing Tee	1¼"x1¼"x1½"	V5011R-169	1559a/14
Reducing Tee	1½"x1½"x1¼"	V5011R-212	1559a/14
Reducing Tee	1½"x1½"x1"	V5011R-211	1559a/14
Reducing Tee	1½"x1½"x¾"	V5011R-210	1559a/14
Reducing Tee	1½"x1¼"x1"	V5011R-202	1559a/14
Reducing Tee	1½"x1¼"x¾"	V5011R-201	1559a/14
Reducing Tee	1½"x1½"x2"	V5011R-213	1559a/14
Reducing Tee	2"x2"x1½"	V5011R-251	1559a/14
Reducing Tee	2"x2"x1¼"	V5011R-250	1559a/14
Reducing Tee	2"x2"x1"	V5011R-249	1559a/14
Reducing Tee	2"x2"x¾"	V5011R-248	1559a/14
Sprinkler Head Tee w/Metal Thd Insert	1"x¾"x1½"	V5012R-S-BI-124	1559a/15
Sprinkler Head Tee w/Metal Thd Insert	1"x½"x1"	V5012R-S-BI-122	1559a/15
Sprinkler Head Tee w/Metal Thd Insert	1¼"x1"x1½"	V5012R-S-BI-156	1559a/15
Sprinkler Head Tee w/Metal Thd Insert	1½"x1½"x1½"	V5012R-S-BI-199	1559a/15
Sprinkler Head Tee w/Metal Thd Insert	2"x1½"x1½"	V5012R-S-BI-237	1559a/15
Sprinkler Head Tee w/Metal Thd Insert	1"	V5012-S-BI-010	1559a/16
Sprinkler Head Tee w/Metal Thd Insert	¾"x¾"x1½"	V5012-S-BI-101	1559a/16
Sprinkler Head Tee w/Metal Thd Insert	1"x1"x1½"	V5012-S-BI-130	1559a/16
Sprinkler Head Tee w/Metal Thd Insert	1¼"x1¼"x1½"	V5012-S-BI-166	1559a/16
Sprinkler Head Tee w/Metal Thd Insert	1½"x1½"x1½"	V5012-S-BI-209	1559a/16
Sprinkler Head Tee w/Metal Thd Insert	2"x2"x1½"	V5012-S-BI-247	1559a/16
Cap	¾"	V5017-007	1559a/17
Cap	1"	V5017-010	1559a/17
Cap	1¼"	V5017-012	1559a/17
Cap	1½"	V5017-015	1559a/17
Cap	2"	V5017-020	1559a/17
Bushing	1"x¾"	V5018-131	1559a/18
Bushing	1¼"x1"	V5018-168	1559a/18
Bushing	1¼"x¾"	V5018-167	1559a/18
Bushing	1½"x1¼"	V5018-212	1559a/18
Bushing	1½"x1"	V5018-211	1559a/18
Bushing	1½"x¾"	V5018-210	1559a/18
Bushing	2"x1½"	V5018-251	1559a/18
Bushing	2"x1¼"	V5018-250	1559a/18
Bushing	2"x1"	V5018-249	1559a/18
Bushing	2"x¾"	V5018-248	1559a/18
Cross	¾"	V5035-007	1559a/20
Cross	1"	V5035-010	1559a/20
Cross	1¼"	V5035-012	1559a/20
Cross	1"x1"x¾"x¾"	V5035R-131	1559a/21
45 Elbow	2½"	V5006-025	1559a/10
45 Elbow	3"	V5006-030	1559a/10
Tee	3"	V5011-030	1559a/14
Reducing Tee	3"x3"x2"	V5011R-338	1559a/14
Reducing Tee	2½"x2½"x2"	V5011R-292	1559a/14
Reducing Tee	2½"x2½"x1½"	V5011R-291	1559a/14
Reducing Tee	2½"x2½"x1¼"	V5011R-290	1559a/14
Reducing Tee	2½"x2½"x1"	V5011R-289	1559a/14
Reducing Tee	3"x3"x2½"	V5011R-339	1559a/14
Reducing Tee	3"x3"x1½"	V5011R-337	1559a/14
Cap	2½"	V5017-025	1559a/17
Cap	3"	V5017-030	1559a/17
Bushing	2½"x2"	V5018-292	1559a/18
Flush Bushing SHA (Spg x Thd)	1" x 1½"	V5018-S-BI-130	1559a/19
Cross	1½"	V5035-015	1559a/20
Cross	2"	V5035-020	1559a/20
Cross	2½"	V5035-025	1559a/20
Cross	3"	V5035-030	1559a/20
Grooved Coupling	1¼"	V5001-G-012	1559a/03
Grooved Coupling	1½"	V5001-G-015	1559a/03
Grooved Coupling	2"	V5001-G-020	1559a/03
Grooved Coupling	2½"	V5001-G-025	1559a/03

PLASTIC PIPES AND FITTINGS

Grooved Coupling	65mm x 2½"	V5001-G	1559a/03
Grooved Coupling	3"	V5001-G-030	1559a/03
Female Adapter w/ Metal BSPT Thd Insert	1"	V5003-BI-BSP-010	1559a/08
Female Adapter w/ Metal BSPT Thd Insert	1¼"	V5003-BI-BSP-012	1559a/08
Female Adapter w/ Metal BSPT Thd Insert	1½"	V5003-BI-BSP-015	1559a/08
Female Adapter w/ Metal BSPT Thd Insert	2"	V5003-BI-BSP-020	1559a/08
Rubber Seated Sprinkler Head Adapter – Socket	¾"x½"	5003-S-BG	1559a/22
Rubber Seated Sprinkler Head Adapter – Socket	1"x½"	5003-S-BG	1559a/22
Rubber Seated Sprinkler Head Adapter – Spigot	¾"x½"	5003-2-S-BG	1559a/23
Rubber Seated Sprinkler Head Adapter – Spigot	1"x½"	5003-2-S-BG	1559a/23

POLYMERIC COMPOUNDS FOR PLASTIC PIPES AND FITTINGS

This section lists products approved in accordance with:

- LPS 1260 *Requirements for testing plastic pipes and fittings for sprinkler systems.*

Notes:

The compounds listed in this section have been tested and approved for the production of the plastic pipes and fittings listed in Plastic Pipes and Fittings section.

As the pipes and fittings themselves must be tested and approved to LPS 1260, only those products listed in Plastic Pipes and Fittings section are LPCB approved. Products manufactured from compounds in this section but not listed in Plastic Pipes and Fittings section are not LPCB approved.

Lubrizol Advanced Materials Inc

4200 Bells Lane, Louisville, Kentucky, 40211, USA

Tel: +1 502 7725709

E-mail: Forest.Hampton@Lubrizol.com • Website: www.lubrizol.com

Additional address:

Lubrizol Advanced Materials Inc, 9911 Brecksville Road, Cleveland, Ohio, 44141, USA

Email: Forest.Hampton@Lubrizol.com

Certificate No: 535a to LPS 1260: Issue 3.1

CPVC Compounds

Product Name	Part No.	LPCB Ref. No.
CPVC Pipe Compound	3138 Orange 734G	535a/07
CPVC Pipe Compound	88738 Orange 734G	535a/05
CPVC Fitting Compound	3238 Orange 734G	535a/08
CPVC Fitting Compound	88065 Orange 734G	535a/06
CPVC Pipe Compound	88738 Orange 734O	535a/09
CPVC Pipe Compound	3138 Orange 734O	535a/11
CPVC Fitting Compound	88065 Orange 734O	535a/10
CPVC Fitting Compound	3238 Orange 734O	535a/12
CPVC Pipe Compound	88738 Orange 734M	535a/13
CPVC Pipe Compound	3138 Orange 734M	535a/15
CPVC Fitting Compound	3238 Orange 734M	535a/16
CPVC Fitting Compound	88065 Orange 734M	535a/14

PRE-ACTION CONTROL SYSTEMS

This section lists products approved in accordance with:

- LPCB Schedule of requirements

Pre-action control systems for use under the *LPC Rules for Automatic Sprinkler Installations* have been approved to a schedule of requirements developed by LPCB (please contact LPCB for further details). The products shall be installed and maintained in accordance with the manufacturer's instructions.

The Reliable Automatic Sprinkler Co., Inc,

1470 Smith Grove Road, Liberty, South Carolina 29657, USA

Tel: +1 864 843 1734

E-mail: jcevallos@reliablesprinkler.com • Website: www.reliablesprinkler.com

Certificate No: 034d to an LPCB Technical Approval for Pre-Action Systems

Certificate No: 034m to an LPCB Technical Approval for Pre-Action Systems

RELIABLE SINGLE INTERLOCK PRE-ACTION SYSTEM (Pre-action Control Valve Description)

Product Name	Size(s)(mm)	Mounting Attitude	Body Material	Type	MaximumWorkingPressure	Flangedor Grooved	LPCB Ref. No.
BX/E	100	Vertical	Cast Iron	Pre-action	12 bar	Flanged	034d/01
BX/E	150	Vertical	Cast Iron	Pre-action	12 bar	Flanged	034d/01
DDX 4"	100	Verticle	Ductile Iron	Pre-action	17.2	Grooved	034m/01
DDX 6"	150	Verticle	Ductile Iron	Pre-action	17.2	Grooved	034m/01
DDX 165mm	165	Verticle	Ductile Iron	Pre-action	17.2	Grooved	034m/01

Certificate No: 034d to

RELIABLE SINGLE INTERLOCK PRE-ACTION SYSTEM (Solenoid Valve Description)

Product Name	Manufacturer	Voltage (V)	Power (W)	LPCB Ref. No.
LV2LBX25	Skinner	24 DC	11	034d/01
R8210A107	ASCO	24 DC	10.6	034d/01

Approval Conditions: 1) The above pre-action system employs duplicate solenoid valves, which are manufactured by firms, as detailed above. One of each shall be used. 2) Solenoid valves shall be installed in parallel. 3) Solenoid valves shall function in pneumatic condition only, and be protected by a strainer. 4) LPCB Certificated detectors compatible with the control and indicating equipment shall be used. 5) Suitable electrical detection control and indicating equipment and pneumatic systems which are compatible with the equipment identified above shall be used. The control and indicating equipment should be LPCB approved/certificated. 6) Connecting cables shall comply with BS 6387: 1994, classification C, W, Z evidenced by LPCB certification. 7) The system shall be electrically monitored to demonstrate that it is in a 'ready-to-operate' state at all times. 8) Clean dry air shall be used. 9) The equipment must be installed, operated and maintained as prescribed in The Reliable Automatic Sprinkler Co Inc installation, operating and maintenance manual. 10) The pre-action system shall be configured in accordance with Reliable specifications. 11) The pre-action systems shall comply with the details specified in LPC Technical Bulletin 21 Supplementary Requirements for sprinkler installations which can operate in the dry mode and in the LPC Rules for Automatic Sprinkler Installations. 12) The Reliable Automatic Sprinkler Company Inc are the firm responsible for the complete pre-action station, including electrics. It should be noted that only the equipment specifically referenced above under (a) and (b) is LPCB approved.

Certificate No: 034t to LPS 2071 Issue 01

Pre-Action Control Systems

Product Name	Size	Mounting Attitude	Body material	Maximum working Pressure (bar)	Connections	LPCB Ref. No.
EX	2"	Vertical/Horizontal	Ductile Iron	20.7	Grooved	034t/01
EX	2 ½"	Vertical/Horizontal	Ductile Iron	20.7	Grooved	034t/02
EX	76mm	Vertical/Horizontal	Ductile Iron	20.7	Grooved	034t/03
EX	4"	Vertical/Horizontal	Ductile Iron	20.7	Grooved	034t/04
EX	6"	Vertical/Horizontal	Ductile Iron	20.7	Grooved	034t/05
EX	165mm	Vertical/Horizontal	Ductile Iron	20.7	Grooved	034t/06
EX	8"	Vertical/Horizontal	Ductile Iron	20.7	Grooved	034t/07

The Viking Corporation

210 N Industrial Park, Hastings, Michigan 49058, USA

Tel: +1 269 945 9501

E-mail: techsvcs@vikingcorp.com • Website: www.vikingcorp.com

Certificate No: 096f to an LPCB Technical Approval for Pre-Action Systems

PRE-ACTION CONTROL SYSTEMS

Viking Pre-Action Systems (Pre-Action Control Valves descriptions)

Product Name	Size(s) (mm)	Mounting Attitude	Body Material	Type	Maximum Working Pressure(bar)	Connections	LPCB Ref. No.
Non-Interlocked, Single or Double Interlocked Pre-action system	40, 50, 65	Vertical	Ductile Iron	F-1 F-2 J-1 J-2	16	Screwed / Screwed Grooved / Grooved	096f/07
Non-Interlocked, Single or Double Interlocked Pre-action system	80, 100, 150	Vertical	Ductile Iron	F-1 F-2 J-1 J-2	16	Flanged / Grooved	096f/08
Non-Interlocked, Single or Double Interlocked Pre-action system	80, 100, 150, 200	Vertical	Ductile Iron	F-1 F-2 J-1 J-2	16	Flanged / Flanged Grooved / Grooved	096f/09

Victaulic Company

4901 Kesslersville Road, Easton, Pennsylvania 18040, USA

Tel: +1 610 559 3300

E-mail: victaulic@victaulic.com • Website: www.victaulic.com

Certificate No: 104k to an LPCB Technical Approval for Pre-Action Systems

Victaulic Series 769 & 769N Pre-Action System (Pre-action Control Valve Description)

Product Name	Nominal Size	Mounting Attitude	Body Material	Type	Max Working Pressure (bar)	Connections	LPCB Ref. No.
Series 769 Single Interlock (Electric)	40, 50, 65, 76.1, 80, 100, 150, 165.1, 200	Vertical	Cast Iron	Pre-action	20	Grooved	104k/01
Series 769 Single Interlock (Pneumatic/Electric)	40, 50, 65, 76.1, 80, 100, 150, 165.1, 200	Vertical	Cast Iron	Pre-action	20	Grooved	104k/02
Series 769 Double Interlock	40, 50, 65, 76.1, 80, 100, 150, 165.1, 200	Vertical	Cast Iron	Pre-action	20	Grooved	104k/03
Series 769N Single Interlock (Electric)	40, 50, 65, 80, 100, 150 & 200	Vertical	Cast Iron	Pre-action	20	Grooved	104k/06
Series 769N Single Interlock (Pneumatic/Electric)	40, 50, 65, 80, 100, 150 & 200	Vertical	Cast Iron	Pre-action	20	Grooved	104k/07
Series 769N Double Interlock	40, 50, 65, 80, 100, 150 & 200	Vertical	Cast Iron	Pre-action	20	Grooved	104k/08

PRESSURE SWITCHES

This section lists products approved in accordance with:

- LPCB Schedule of requirements

Pressure switches for use under *LPC Rules for Automatic Sprinkler Installations* have been approved to a schedule of requirements developed by LPCB. The products shall be installed and maintained in accordance with the manufacturer's instructions.

Bailey & Mackey Limited

Baltimore Road, Birmingham, B42 1DE, United Kingdom

Tel: +44 (0)121 357 5351

E-mail: enquiries@baileymackey.com • Website: www.baileymackey.com

Certificate No: 085a to LPS 1226 Draft B

Pressure switches

Product Name	Maximum Rated Working Pressure (bar)	Maximum Rated Current and Voltage AC	Maximum Rated Current and Voltage DC	LPCB Ref. No.
Type 1381	17.2	5 Amps @ 250 Volts	1 Amp @ 30 Volts	085a/01
Type 1381P	17.2	5 Amps @ 250 Volts	1 Amp @ 30 Volts	085a/01
Type 1381V	17.2	5 Amps @ 250 Volts	1 Amp @ 30 Volts	085a/01
Type 1381PV	17.2	5 Amps @ 250 Volts	1 Amp @ 30 Volts	085a/01
Type 1391	17.2	5 Amps @ 250 Volts	1 Amp @ 30 Volts	085a/03
Type 1391P	17.2	5 Amps @ 250 Volts	1 Amp @ 30 Volts	085a/03
Type 1391V	17.2	5 Amps @ 250 Volts	1 Amp @ 30 Volts	085a/03
Type 1391PV	17.2	5 Amps @ 250 Volts	1 Amp @ 30 Volts	085a/03

Potter Electric Signal Company LLC

1609 Park 370 Place, Hazelwood, St Louis, Missouri, 63042, USA

Tel: +1 314 595 6900

E-mail: info@pottersignal.com • Website: www.pottersignal.com

Certificate No: 125a to LPS 1226 Draft 1

Pressure Switches

Product Name	Maximum Rated Working Pressure (bar)	Maximum Rated Current and Voltage AC	Maximum Rated Current and Voltage DC	LPCB Ref. No.
Model PS10-1	17.2	10.1 Amps @ 125/250 Volts	2 Amps @ 30 Volts	125a/05
Model PS10-2	17.2	10.1 Amps @ 125/250 Volts	2 Amps @ 30 Volts	125a/06
Model PS40-1	17.2	10.1 Amps @ 125/250 Volts	2 Amps @ 30 Volts	125a/07
Model PS40-2	17.2	10.1 Amps @ 125/250 Volts	2 Amps @ 30 Volts	125a/08
Model PS100-2	17.2	10.1 Amps @ 125/250 Volts	2 Amps @ 30 Volts	125a/09
Model PS120-1	17.2	10.1 Amps @ 125/250 Volts	2 Amps @ 30 Volts	125a/10
Model PS120-2	17.2	10.1 Amps @ 125/250 Volts	2 Amps @ 30 Volts	125a/11
Model PS15-2	17.2	10.1 Amps @ 125/250 Volts	2 Amps @ 30 Volts	125a/12
Model PS25-2	17.2	10.1 Amps @ 125/250 Volts	2 Amps @ 30 Volts	125a/13

Blvd. Eje 1 S/N, Esquina con Eje A, Navojoa, Sonora, Mexico

Manufacturer

1 Test, Test, Test, SA9 6YN, United Kingdom

Email: Test@t.co.uk

Certificate No: 125g to LPS 1226: Draft 1

'Safe Signal' Pressure Switches

Product Name	Maximum Rated Working Pressure (bar)	Maximum Rated Current and Voltage AC	Maximum Rated Current and Voltage DC	LPCB Ref. No.
EPS10-2-EU	17.2	8 A, 125/250 VAC	2.5 A, 6/12/24 VDC	125g/02
EPS40-1-EU	17.2	8 A, 125/250 VAC	2.5 A, 6/12/24 VDC	125g/03

PRESSURE SWITCHES

Tyco Fire & Building Products (Part of the Johnson Control Group of Companies (Cranston))

Research & Development Center, 1467 Elmwood Avenue, Cranston, RI 02910, USA

Tel: +1 401 781 8220

E-mail: Bob.Bandura@jci.com

Certificate No: 570a to LPS 1226 Issue 1 Draft

Pressure Switches

Product Name	Maximum Rated Working Pressure (bar)	Maximum Rated Current and Voltage AC	Maximum Rated Current and Voltage DC	LPCB Ref. No.
TPS10-1	16	10A 125/250VAC	2.5A 30VDC	570a/01
TPS10-2	16	10A 125/250VAC	2.5A 30VDC	570a/02
TPS40-1	16	10A 125/250VAC	2.5A 30VDC	570a/03
TPS40-2	16	10A 125/250VAC	2.5A 30VDC	570a/04
TPS120-1	16	10A 125/250VAC	2.5A 30VDC	570a/05
TPS120-2	16	10A 125/250VAC	2.5A 30VDC	570a/06

Weflo Valve Co. Ltd.

789 Chunyang Road, Qingdao Nat'l High-Tech Ind Dev Zone, Qingdao, Shangdong, 266111, China

Tel: +86-532-8790 5016

E-mail: Zhang.H.T@weflovalve.com • Website: www.weflovalve.com

Certificate No: 1725a to LPS 1226 Issue 1 Draft

Pressure Switches

Product Name	Maximum Rated Working Pressure (bar)	Maximum Rated Current and Voltage AC	Maximum Rated Current and Voltage DC	LPCB Ref. No.
WPS10-1	16	10A 125/250VAC	2.5A 30VDC	1725a/01
WPS10-2	16	10A 125/250VAC	2.5A 30VDC	1725a/02
WPS40-1	16	10A 125/250VAC	2.5A 30VDC	1725a/03
WPS40-2	16	10A 125/250VAC	2.5A 30VDC	1725a/04
WPS120-1	16	10A 125/250VAC	2.5A 30VDC	1725a/05
WPS120-2	16	10A 125/250VAC	2.5A 30VDC	1725a/06

RESIDENTIAL SPRINKLER HEADS BS EN12259-14

This section lists products approved in accordance with EN12259-14 Fixed firefighting systems - Components for sprinkler and water spray systems - Part 14: Sprinklers for Residential applications.

Each entry includes the nominal orifice size in millimetres and the temperature range in degrees centigrade.

† indicates glass bulb sprinkler head; all others are fusible element sprinkler heads.

The type of sprinkler is indicated by the abbreviations as listed in the Sprinkler Heads section.

Note: Sprinklers are not allocated a response time category in EN12259-14 for classification.

Glass bulb concealed sprinklers are listed as incorporating either 5mm or 3mm bulb. No response classification is implied or should be inferred from the stated bulb size.

The Reliable Automatic Sprinkler Co., Inc,

1470 Smith Grove Road, Liberty, South Carolina 29657, USA

Tel: +1 864 843 1734

E-mail: jcevallos@reliablesprinkler.com • Website: www.reliablesprinkler.com

Certificate No: 034u to EN 12259-14:2020+A1:2022

Residential Sprinklers

Product Name	Nominal Orifice Size, mm	Type	Temperature rating (°C)	LPCB Ref. No.
RFS42	15	CCWH	74 (link) with 57 cover plate	034u/01

The Viking Corporation

210 N Industrial Park, Hastings, Michigan 49058, USA

Tel: +1 269 945 9501

E-mail: techsvcs@vikingcorp.com • Website: www.vikingcorp.com

Certificate No: 096y to EN 12259-14:2020

Residential sprinklers

Product Name	Nominal Orifice Size (mm)	Type	Temperature rating (°C)	LPCB Ref. No.
Viking VK480 (1)	15	CCWH	74 (link)	096y/01
Viking VK494 (2) (3)	15	CCP	68, 93 (3mm bulb)	096y/02

SPRINKLER BULBS

This section lists products approved in accordance with:

- LPS 1039 *Requirements & Testing Methods for Automatic Sprinklers*
- LPS 1258 *Requirements & Testing Methods for Automatic Sprinkler Glass Bulbs with a Narrow Operating Temperature Band*
- EN 12259-1 *Fixed firefighting systems. Components for sprinkler and water spray systems.*

These bulbs may be used in sprinkler heads listed in the following sections: Sprinkler Heads, Electrically Operated Sprinkler Heads, Dual Sensing Sprinkler Heads and Residential Sprinkler Heads BS EN12259-14.

Job GmbH

Kurt-Fischer-Strasse 30, D-22926 Ahrensburg, Hamburg, Germany

Tel: +49 4102 21140

E-mail: job@job-bulbs.com • Website: www.job-bulbs.com

Certificate No: 351a to LPS 1039: Issue 5.2 (Appropriate parts)

Sprinkler Bulbs

Product Name	Bulb Size(mm)	Temperature Rating °C)	LPCB Ref. No.
F3 Quick Response(1)	3	57,68,79,93,141	351a/02
F3-SP 'superior' Quick Response(1)	3	57,68,79,93,141	351a/04
G5	5	57,68,79,93,141,182	351a/03

SPRINKLER HEADS

This section lists products approved in accordance with:

- EN 12259-1 *Fixed firefighting systems. Components for sprinkler and water spray systems. Sprinklers*
- LPS 1039 *Requirements and testing methods for automatic sprinklers*
- LPCB Schedule of requirements

LPCB recommends the removal and testing of sprinkler heads from a system after 25 years and every 5 years thereafter. The areas from which the sprinkler heads are removed should take account of the different makes and models used and variation of atmospheric conditions. LPCB further recommends that sprinkler heads are replaced where problems are found.

The type of sprinkler is indicated by the following abbreviations:

Type	LPS	EN 12259-1
Conventional (upright and pendent)	CUP, CU/P	CUP
Conventional (Upright)	CU	CU
Conventional (Pendent)	CP	CP
Spray (Upright)	SU	SU
Spray (Pendent)	SP	SP
Spray, recessed (Pendent)	-	RP
Flat spray (Upright)	-	FU
Flat spray (Pendant)	-	FP
Sidewall (Upright and pendent)	WUP, WU/P	WUP
Sidewall (Upright)	WU	WU
Sidewall (Pendent)	WP	WP
Sidewall (Horizontal)	WH	WH
Sidewall, recessed (Horizontal)	-	RWH, WHR
Sidewall, concealed (Horizontal)	-	WHSCC
Sidewall, dry (Horizontal)	-	DWH
Sidewall, dry, recessed (Horizontal)	-	RDWH
Sidewall, flush (Horizontal)	WHF	WLH
Sidewall, extended coverage (Horizontal)	WHEC	-
Conventional, dry (Upright and Pendent)	CDU/P	CDUP
Conventional, dry (Upright)	CDU	CDU
Conventional, dry (Pendent)	CDP	CDP
Spray, dry (Upright)	SDU	SDU, DSU
Spray, dry (Pendent)	SDP	SDP, DSP
Conventional, flush (Pendent)	CF	CLP
Spray, flush (Pendent)	SF	SLP
Spray, dry, flush (Pendent)	SFD	SDLP
Spray, dry, recessed (Pendent)	-	DRSP
Spray, concealed, dry (Pendent)	-	CCDSP
Spray, recessed (Pendent)	SR	SRP
Spray, concealed (Pendent)	SK	SCCP, CCP, CCSP
Early suppression fast response	ESFR	-
Early protection enhanced coverage	EPEC	-

Notes:

1. A dash (-) indicates that the type is not recognised in the standard concerned.
2. Concealed (CC) sprinklers are not allocated a response time category (in the listings) as there is no requirement in EN12259-1 for testing or classification. Thus, Concealed sprinklers are listed as incorporating either 5mm or 3mm bulb. No response classification should be implied or inferred from the stated bulb size.

SPRINKLER HEADS

Duyar Vana Makina Sanayi ve Ticaret A.S

Ferhatpasa Mah. 39. Sk No:16 A/3, Atasehir, Istanbul, 34888, Turkey

Tel: +90 444 82 62

Website: www.duyarvana.com.tr

Head Office

Osmangazi Mh. 2653 Sk. No:7/1, Kirac-Esenyurt, Istanbul, 34522, Turkey

Email: recep.guler@duyarvana.com.tr

Certificate No: 1402a to EN 12259-1:1999 + A3:2006

Duyar Vana Sprinkler Heads

Product Name	Nominal Orifice Size (mm)	Type	Temperature Rating (°C)	LPCB Ref. No.
DY-3327	15	SP	68 (5mm bulb)	1402a/01
DY-3323	15	SU	68 (5mm bulb)	1402a/02
DY-3329	15	WH	68 (5mm bulb)	1402a/03
DY-3427	15	SP	68 (quick response)	1402a/04
DY-3423	15	SU	68 (quick response)	1402a/05
DY-3429	15	WH	68 (quick response)	1402a/06

Johnson Controls International Plc

8902 North Interstate 27, Lubbock, Texas 79403, USA

Tel: +1 806 472 2400

E-mail: bob.bandura@jci.com • Website: <https://www.johnsoncontrols.com/fire-suppression>

Certificate No: 094a to EN 12259-1:1999 + A3:2006

Certificate No: 094b to A technical approval based upon EN 12259-1:1999 + A3:2006

Certificate No: 094c to A technical approval based upon EN 12259-1:1999 (+A3:2006) & CEA4023

Sprinkler Heads

Product Name	Nominal Orifice Size (mm)	Type	Temperature Rating (°C)	LPCB Ref. No.
TY3351	15	WH	57, 68, 79, 93, 141, 182 (5mm bulb)	094a/05
TY4251	20	SP	57, 68, 79, 93, 141, 182, 260 (5mm bulb)	094a/05
TY4151	20	SU	57, 68, 79, 93, 141, 182, 260 (5mm bulb)	094a/05
TY4651	20	CU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	094a/05
TY3331	15	WH	57, 68, 79, 93, 141	094a/06
TY4631	20	CU/P	57, 68, 79, 93, 141 (quick response)	094a/06
TY4131	20	SU	57, 68, 79, 93, 141 (quick response)	094a/06
TY4231	20	SP	57, 68, 79, 93, 141 (quick response)	094a/06
TY3221 (Nickel Link)	15	SP	74 (quick response)	094a/03
TY3551	15	CCP	(adjustable) 68 sprinkler with 59 ceiling plate (5mm bulb)	094a/09
TY3551	15	CCP	(adjustable) 93 sprinkler with 74 ceiling plate (5mm bulb)	094a/09
TY3531	15	CCP	(adjustable) 68 sprinkler with 59 ceiling plate (3mm bulb)	094a/10
TY3531	15	CCP	(adjustable) 93 sprinkler with 74 ceiling plate (3mm bulb)	094a/10
TY3155	15	DSU	57, 68, 79, 93, 141	094a/11
TY3255	15	DSP	57, 68, 79, 93, 141	094a/11
TY3355	15	DWH	57, 68, 79, 93, 141	094a/11
TY3191	15	SU	260	094a/01
TY3296	15	SP	260	094a/01
TY9226 / ESFR-25	N/A	SP	74, 100	094b/03
TY3250	15	SP	68, 93, 141, (5mm bulb)	094a/12
ELO 231 (TY5131)	20	SU	68, 93, 141, (quick response)	094c/01
ELO 231 (TY5231)	20	SP	68, 93, 141, (quick response)	094c/02
TY8223 / EFSR-22	N/A	SP	74, 100	094b/04

Notes:

SPRINKLER HEADS

Minimax Fire Protection

321 N. Industrial Park Drive, Hastings, MI 49058, USA

Tel: 269-945-8291

E-mail: slester@mx-vk.us • Website: www.minimax-fire.com

Certificate No: 096Ag to EN 12259-1:1999

Sprinkler heads

Product Name	Nominal Orifice Size (mm)	Type	Temperature Rating (°C)	LPCB Ref. No.
MX 8510	(1)	Pend.	74, 96 (Link)	096Ag/01

Minimax GmbH

Industriestrasse 10/12, D-23840 Bad Oldesloe, Germany

Tel: +49 4531 803 8064

Website: www.minimax.de

Certificate No: 096e to EN 12259-1 + A3

Sprinkler Heads

Product Name	Nominal Orifice Size, mm	Type	Temperature rating, (°C)	LPCB Ref. No.
VK1510	15	DSP	68 (5mm bulb)	096e/16
VK1550 Adjustable standard	15	DSP	68 (5mm bulb)	096e/16
VK1590 Adjustable recessed	15	RDSP	68 (5mm bulb)	096e/16

Certificate No: 1118a to EN 12259-1

Sprinkler Heads

Product Name	SIN	Nominal Orifice size (mm)	Thread (inches)	K-Factor	Type	Temperature rating (°C)	LPCB Ref. No.
MX5-24	MX507	15	½	80	SP	57, 68, 79, 93, 141 (5mm bulb)	1118a/01
MX3	MX3021	15	½	80	SP	57, 68, 79, 93, 141 (quick response)	1118a/02
MX3	MX3001	15	½	80	SU	57, 68, 79, 93, 141 (quick response)	1118a/02
MX3	MX3522	15	½	115	SP	57, 68, 79, 93, 141 (quick response)	1118a/02
MX3	MX3502	15	½	115	SU	57, 68, 79, 93, 141 (quick response)	1118a/02
MX3	MX3521	20	¾	115	SP	57, 68, 79, 93, 141 (quick response)	1118a/02
MX3	MX3501	20	¾	115	SU	57, 68, 79, 93, 141 (quick response)	1118a/02
MX5	MX1021	15	½	80	SP	57, 68, 79, 93, 141 (5mm Bulb)	1118a/03
MX5	MX1001	15	½	80	SU	57, 68, 79, 93, 141 (5mm Bulb)	1118a/03
MX5	MX2022	15	½	115	SP	57, 68, 79, 93, 141 (5mm Bulb)	1118a/03
MX5	MX2002	15	½	115	SU	57, 68, 79, 93, 141 (5mm Bulb)	1118a/03
MX5	MX2021	20	¾	115	SP	57, 68, 79, 93, 141 (5mm Bulb)	1118a/03
MX5	MX2001	20	¾	115	SU	57, 68, 79, 93, 141 (5mm Bulb)	1118a/03

Rapidrop Global Limited

Rutland Business Park, Newark Road, Peterborough, PE1 5WA, United Kingdom

Tel: +44 (0)1733 847 510

E-mail: rapidrop@rapidrop.com • Website: www.rapidrop.com

Certificate No: 566d to EN 12259-1:1999 + Amendment A3:2006

Sprinkler Heads

Product Name	Nominal orifice size (mm)	Type	Temperature rating (°C)	LPCB Ref. No.
Rapidrop RD020 (1)	15	CU/P	57, 68, 79, 93, 141 (5mm bulb)	566d/01
Rapidrop RD022 (1)	15	SP	57, 68, 79, 93, 141 (5mm bulb)	566d/01
Rapidrop RD024 (1)	15	SU	57, 68, 79, 93, 141 (5mm bulb)	566d/01
Rapidrop RD021 (1)	15	CU/P	57, 68, 79, 93, 141(6), (quick response)	566d/02
Rapidrop RD023 (1)	15	SP	57, 68, 79, 93, 141(6), (quick response)	566d/02
Rapidrop RD025 (1)	15	SU	57, 68, 79, 93, 141(6), (quick response)	566d/02
Rapidrop RD030(1)	15	CU/P	57, 68, 79, 93, 141, (4mm bulb)	566d/03
Rapidrop RD031(1)	15	SP	57, 68, 79, 93, 141, (4mm bulb)	566d/03
Rapidrop RD032(1)	15	SU	57, 68, 79, 93, 141, (4mm bulb)	566d/03
Rapidrop RD042 (1)	20	SP	57, 68, 79, 93, 141 (5mm bulb)	566d/04

SPRINKLER HEADS

Rapidrop RD044 (1)	20	SU	57, 68, 79, 93, 141 (5mm bulb)	566d/04
Rapidrop RD043 (1)	20	SP	57, 68, 79, 93, 141 (quick response)	566d/04
Rapidrop RD045 (1)	20	SU	57, 68, 79, 93, 141 (quick response)	566d/04
Rapidrop RD060 (1)	15	WH	57, 68, 79, 93, 141 (5mm bulb)	566d/01
Rapidrop RD061 (1)	15	WH	57, 68, 79, 93, 141 (quick response)	566d/02
Rapidrop RD052 (1)(7)	20	SP	57, 68, 79, 93, 141 (5mm bulb)	566d/05
Rapidrop RD054 (1)(7)	20	SU	57, 68, 79, 93, 141 (5mm bulb)	566d/05
Rapidrop RD053 (1)(7)	20	SP	57, 68, 79, 93, 141 (quick response)	566d/05
Rapidrop RD055 (1)(7)	20	SU	57, 68, 79, 93, 141 (quick response)	566d/05
Rapidrop RD041 (1)	20	CU/P	57, 68, 79, 93, 141 (quick response)	566d/06
Rapidrop RD040 (1)	20	CU/P	57, 68, 79, 93, 141 (5mm bulb)	566d/07

Certificate No: 566e to EN 12259-1:1999 including amendment +A3:2006

Model RD Sprinklers

Product Name	Nominal orifice size (mm)	Type	Temperature rating (°C)	LPCB Ref. No.
Rapidrop RD101 (1)(2)(4)	15	SLP	72, 96 (quick response)	566e/01
Rapidrop RD102 (3)(4)	15	SLP	72, (quick response)	566e/02

Certificate No: 566f to EN 12259-1:1999 including amendment +A3:2006

Model RD107 Sprinkler

Product Name	Nominal orifice size (mm)	Type	Temperature rating (°C)	LPCB Ref. No.
Rapidrop RD107	15	SCCP	72 with 60 cover plate	566f/01

Rolland Sprinklers

235 Route de la Biolle, ZA le Sauvage, Mognard, 73410, France

Tel: +33 479 547 250

E-mail: info@rolland-sprinklers.com

Certificate No: 295a to EN 12259-1:1999 + Amendment A3:2006

Sprinkler Heads

Product Name	NominalOrificeSize(mm)	Type	Temperature Rating °C)	LPCB Ref. No.
Rolland Model N (1),(2)	15	SP	57, 68, 79, 93, 141 (quick response)	295a/01
Rolland Model N (1),(2)	15	SU	57, 68, 79, 93, 141 (quick response)	295a/01
Rolland Model N (1),(2)	15	CU/P	57, 68, 79, 93, 141 (quick response)	295a/01
Rolland Model N (1),(2)	15	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	295a/02
Rolland Model N (1),(2)	15	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	295a/02
Rolland Model N (1),(2)	15	CU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	295a/02

The Reliable Automatic Sprinkler Co., Inc,

1470 Smith Grove Road, Liberty, South Carolina 29657, USA

Tel: +1 864 843 1734

E-mail: jcevallos@reliablesprinkler.com • Website: www.reliablesprinkler.com

Certificate No: 034g to LPS 1039

Certificate No: 034i to An LPCB Schedule of Requirements

Certificate No: 034k to An LPCB Schedule of Requirements

Certificate No: 034l to An LPCB Schedule of Requirements

Certificate No: 034r to An LPCB Schedule of Requirements

Sprinkler Heads

Product Name	NominalOrificeSize(mm)	Type	Temperature Rating °C)	LPCB Ref. No.
Reliable F1	10	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	034g/02
Reliable F1	10	SR	57, 68, 79, 93 (5mm bulb)	034g/02
Reliable F1	20	CU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	034g/02
Reliable F1	20	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	034g/02
Reliable F1	20	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	034g/02
Reliable F1	20	SR	57, 68, 79, 93 (5mm bulb)	034g/02
Reliable F1FR	10	SP	57, 68, 79, 93, 141 (quick response)	034g/03
Reliable F1FR	10	SR	57, 68, 79, 93	034g/03

SPRINKLER HEADS

Reliable F1FR	20	SP	57, 68, 79, 93, 141 (quick response)	034g/03
Reliable F1FR	20	CU/P	57, 68, 79, 93, 141 (quick response)	034g/03
Reliable F1FR	20	SU	57, 68, 79, 93, 141 (quick response)	034g/03
Reliable F1FR	20	SR	57, 68, 79, 93	034g/03
Reliable G	15	CU/P	57, 74, 100, 141	034g/04
Reliable G	15	SU	57, 74, 100, 141	034g/04
Reliable G	15	SP	57, 74, 100, 141	034g/04
Reliable G	15	WU/P	57, 74, 100, 141	034g/04
Reliable G	15	SR	57, 74, 100	034g/04
Reliable G3	15	SDP	(fixed and adjustable) 57, 74	034g/06
Reliable G/F	10	SR	57, 74, 100	034g/07
Reliable G/F	15	SR	57, 74, 100	034g/07
Reliable G4FR	15	SK	(adjustable ceiling plate) 74 with 57 ceiling plate	034g/11
Reliable F3	15	DRSP	57, 68, 93, 141	034i/01
Reliable F3	15	CCDSP	57 with 57 ceiling plate	034i/01
Reliable F3	15	CCDSP	68 with 57 ceiling plate	034i/01
Reliable F3	15	CCDSP	93 with 74 ceiling plate	034i/01
Reliable F3	15	DWH	57, 68, 93, 141	034i/01
Reliable F3	15	RDWH	57, 68, 93, 141	034i/01
Reliable XL Commercial	15	SF	74 (quick response)	034g/12
Reliable XL Commercial	15	WHF	74 (quick response)	034g/12
Reliable F1FR-EPEC	20	SP	57, 68, 79	034i/01
Reliable ESFR-HL22	N/A	Pend.	74, 100	034k/02
Reliable JL-14	N/A	Pend.	74, 100	034r/01
Reliable JL-17	N/A	Pend.	74, 100	034r/02
Reliable F1 56	15	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	034g/13
Reliable F1 56	15	CU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	034g/13
Reliable F1 56	15	WU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	034g/13
Reliable F1FR 56	15	SU	57, 68, 79, 93, 141(quick response)	034g/14
Reliable F1FR 56	15	CU/P	57, 68, 79, 93, 141(quick response)	034g/14
Reliable F1FR 56	15	WU/P	57, 68, 79, 93, 141(quick response)	034g/14
Reliable F1FR 56	15	SP	57, 68, 79, 93, 141 (quick response)	034g/14
Reliable F1FR 56	15	SR	57, 68, 79, 93, 141 (3mm bulb)	034g/14
Reliable F1 56	15	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	034g/13
Reliable F1 56	15	SR	57, 68, 79, 93, 141, 182 (5mm bulb)	034g/13
Reliable F3	15	DSP	57, 68, 93, 141	034i/01
Reliable G5-56	15	CCP	74 with 57 ceiling plate 100 with 74 ceiling plate	034g/15
Reliable XL Institutional	15	SF	74 (quick response)	034g/16
Reliable XL Institutional	15	WHF	74 (quick response)	034g/17
Reliable F1-80	20	SU,SP	57, 68, 79, 93, 141 (5mm bulb)	034g/18
Reliable F1FR80	20	SU,SP	57, 68, 79, 93, 141 (quick response)	034g/19
Reliable KFR56	15	SU, SP, WH	74, 100, (quick response)	034g/20
Reliable KFR80	20	SU, SP	74, 100, (quick response)	034g/21
Reliable G6-56	15	CCWH	74, with 57 cover plate	034g/22

Notes:

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E-mail: techsvcs@vikingcorp.com • Website: www.vikingcorp.com

Certificate No: 096e to LPS 1039 or EN12259-1:1999

Sprinkler Heads

Product Name	NominalOrificeSize(mm)	Type	Temperature Rating °C)	LPCB Ref. No.
Viking M Microfast VK345	15	SU	57, 68, 79, 93, 141, (quick response)	096e/03
Viking M Microfast VK302	15	SP	57, 68, 79, 93, 141, (quick response)	096e/03
Viking M Microfast VK310	15	CU/P	57, 68, 79, 93, 141, (quick response)	096e/03
Viking F-1 Microfast VK302	15	SR	57, 68, 79, 93, 141, (recessed and adjustable)	096e/04
Viking M VK118	15	CU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	096e/06
Viking M VK145	15	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	096e/06
Viking M VK102	15	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	096e/06
Viking M VK104	15	WH	57, 68, 79, 93, 141, 182 (5mm bulb)	096e/06

SPRINKLER HEADS

Viking M VK120	20	CU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	096e/06
Viking M VK200	20	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	096e/06
Viking M VK202	20	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	096e/06
Viking M/E-1 VK102	15	SR	57, 68, 79, 93 (5mm bulb)	096e/06
Viking M/E-1 VK202	20	SR	57, 68, 79, 93 (5mm bulb)	096e/06
Viking VK130	15	SU	68, 79, 93, 141, 182 (5mm bulb)	096e/09
Viking VK132	15	SP	68, 79, 93, 141, 182 (5mm bulb)	096e/09
Viking Mirage Concealed VK462	15	CCP	68 Sprinkler with 59 ceiling plate (3 mm bulb)	096e/12
Viking Mirage Concealed VK462	15	CCP	79 Sprinkler with 74 ceiling plate (3 mm bulb)	096e/12
Viking Mirage Concealed VK462	15	CCP	93 Sprinkler with 74 ceiling plate (3 mm bulb)	096e/12
Viking M Microfast VK350	20	SU	57, 68, 79, 93, 141, (quick response)	096e/03
Viking M Microfast VK352	20	SP	57, 68, 79, 93, 141, (quick response)	096e/03
Viking M Microfast VK354	20	CU/P	57, 68, 79, 93, 141, (quick response)	096e/03
Viking K160 VK377	20	SP	57, 68, 79, 93, 141, (quick response)	096e/14
Viking K160 VK5311	20	SU	57, 68, 79, 93, 141, (quick response)	096e/14
Viking VK478	15	SLP	74,96 (quick response)	096e/15
Viking VK1510	15	DSP	68 (5mm bulb)	096e/16
Viking VK1550 Adjustable standard	15	DSP	68 (5mm bulb)	096e/16
Viking VK1590 Adjustable recessed	15	RDSP	68 (5mm bulb)	096e/16
Viking VK4621	15	CCP	68 with 59 coverplate. (3mm bulb) 79 with 74 coverplate. (3mm bulb) 93 with 74 coverplate (3mm bulb)	096e/17
Viking VK4921	15	CCP	68 with 59 coverplate. (5mm bulb) 79 with 74 coverplate. (5mm bulb) 93 with 74 coverplate (5mm bulb)	096e/17

Certificate No: 096g to An LPCB Schedule of requirements based on EN 12259-1: 1999, incorporating amendments 1, 2 and 3

Viking K25 ESFR Sprinkler Head

Product Name	Nominal Orifice Size, mm	Type	Temperature rating, (°C)	LPCB Ref. No.
Viking K25 ESFR VK510	25	ESFR	74, 96 (Link)	096g/01

Certificate No: 096m to EN 12259-1:1999

Viking XT-1 Sprinkler Heads

Product Name	Thread size (in)	K-factor	Type	Temperature rating (°C)	LPCB Ref. No.
VK1001 (2)	½	80	SU	57, 68, 79, 93, 141 (5mm bulb)	096m/01
VK1021	½	80	SP	57, 68, 79, 93, 141 (5mm bulb)	096m/01
VK1021	½	80	SR	57, 68, 79, 93, 141 (5mm bulb)	096m/01
VK1181	½	80	CU/P	57, 68, 79, 93, 141 (5mm bulb)	096m/01
VK3001 (2)	½	80	SU	57, 68, 79, 93, 141 (quick response)	096m/02
VK3021	½	80	SP	57, 68, 79, 93, 141 (quick response)	096m/02
VK3021	½	80	SR	57, 68, 79, 93, 141 (quick response)	096m/02
VK3101	½	80	CU/P	57, 68, 79, 93, 141 (quick response)	096m/02
VK2002 (2)	½	115	SU	57, 68, 79, 93, 141 (5mm bulb)	096m/03
VK2022	½	115	SP	57, 68, 79, 93, 141 (5mm bulb)	096m/03
VK2022	½	115	SR	57, 68, 79, 93, 141 (5mm bulb)	096m/03
VK1202	½	115	CU/P	57, 68, 79, 93, 141 (5mm bulb)	096m/03
VK3502 (2)	½	115	SU	57, 68, 79, 93, 141 (quick response)	096m/04
VK3522	½	115	SP	57, 68, 79, 93, 141 (quick response)	096m/04
VK3522	½	115	SR	57, 68, 79, 93, 141 (quick response)	096m/04
VK3542	½	115	CU/P	57, 68, 79, 93, 141 (quick response)	096m/04
VK2001 (2)	¾	115	SU	57, 68, 79, 93, 141 (5mm bulb)	096m/05
VK2021	¾	115	SP	57, 68, 79, 93, 141 (5mm bulb)	096m/05
VK2021	¾	115	SR	57, 68, 79, 93, 141 (5mm bulb)	096m/05
VK1201	¾	115	CU/P	57, 68, 79, 93, 141 (5mm bulb)	096m/05
VK3501 (2)	¾	115	SU	57, 68, 79, 93, 141 (quick response)	096m/06
VK3521	¾	115	SP	57, 68, 79, 93, 141 (quick response)	096m/06
VK3521	¾	115	SR	57, 68, 79, 93, 141 (quick response)	096m/06
VK3541	¾	115	CU/P	57, 68, 79, 93, 141 (quick response)	096m/06

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SPRINKLER HEADS

Certificate No: 007k to EN 12259-1:1999, EN 12259-1:1999+A3:2006

Certificate No: 007l to A technical approval based upon EN 12259-1:1999 (A1, A2 A3 & C1)

Certificate No: 007q to EN 12259-1:1999

Certificate No: 007r to EN 12259-1:1999, EN 12259-1:1999+A3:2006

Sprinkler Heads

Product Name	Nominal Orifice Size (mm)	Type	Temperature Rating °C	LPCB Ref. No.
TY2208	10	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	007k/03
TY2108	10	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	007k/03
TY3351	15	WH	57, 68, 79, 93, 141, 182 (5mm bulb)	007k/03
TY4251	20	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	007k/03
TY4151	20	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	007k/03
TY4651	20	CU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	007k/03
TY4251	20	RP	57, 68, 79, 93 (5mm bulb)	007k/03
TY4851	20	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	007k/03
TY4951	20	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	007k/03
TY2209	10	SP	57, 68, 79, 93, 141 (quick response)	007k/04
TY2109	10	SU	57, 68, 79, 93, 141 (quick response)	007k/04
TY3431	15	WU/P	57, 68, 79, 93, 141 (quick response)	007k/04
TY3331	15	WH	57, 68, 79, 93, 141	007k/04
TY3331	15	WHR	57, 68, 79, 93	007k/04
TY4631	20	CU/P	57, 68, 79, 93, 141 (quick response)	007k/04
TY4131	20	SU	57, 68, 79, 93, 141 (quick response)	007k/04
TY4231	20	SP	57, 68, 79, 93, 141 (quick response)	007k/04
TY4831	20	SU	57, 68, 79, 93, 141 (quick response)	007k/04
TY4931	20	SP	57, 68, 79, 93, 141 (quick response)	007k/04
TY6226 / ESFR-1	(16)	Pend.	74, 100	007l/01
TY7226 / ESFR-17	(14)	Pend.	74, 100	007l/02
TY9226 / ESFR-25	(9)	Pend.	74, 100	007l/03
TY8181	15	SU	57, 68, 79, 93, 141 (quick response)	007q/01
TY8281	15	SP	57, 68, 79, 93, 141 (quick response)	007q/01
TY8681	15	CU/P	57, 68, 79, 93, 141 (quick response)	007q/01
TY8481	15	WU/P	57, 68, 79, 93, 141 (quick response)	007q/01
TY8381	15	WH	57, 68, 79, 93, 141 (quick response)	007q/01
TY9281	20	SP	57, 68, 79, 93, 141 (quick response)	007q/01
TY9181	20	SU	57, 68, 79, 93, 141 (quick response)	007q/01
TY8191	15	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	007q/02
TY8291	15	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	007q/02
TY8691	15	CU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	007q/02
TY8491	15	WU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	007q/02
TY8391	15	WH	57, 68, 79, 93, 141, 182 (5mm bulb)	007q/02
TY9291	20	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	007q/02
TY3136	15	FU	57, 68, 79, 93, 141 (quick response)	007r/02
TY3236	15	FP	57, 68, 79, 93, 141 (quick response)	007r/02
TY2208	10	RP	57, 68, 79, 93 (5mm bulb)	007k/03
TY2209	10	RP	57, 68, 79, 93 (3mm bulb)	007k/04
TY315	15mm	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	007k/05
TY325	15	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	007k/05
TY313	15	SU	57, 68, 79, 93, 141, (quick response)	007k/05
TY323	15mm	SP	57, 68, 79, 93, 141, (quick response)	007k/05
TY3650	15mm	CU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	007k/05
TY3630	15mm	CU/P	57, 68, 79, 93, 141, (quick response)	007k/05
TY8223 / EFSR-22	(17)	Pend.	74, 100	007l/04
TY4631	20	RP	57, 68, 79, 93 (3mm bulb)	007k/04

Certificate No: 007s to A technical approval based upon EN 12259-1:1999 (+A3:2006) & CEA4023

ELO 231 Sprinkler Heads

Product Name	Nominal Orifice Size (mm)	Type	Temperature Rating °C	LPCB Ref. No.
ELO 231 (TY5231) (1), (2)	20	SP	68, 93, 141, (quick response)	007s/01

Victaulic Company

4901 Kesslersville Road, Easton, Pennsylvania 18040, USA

Tel: +1 610 559 3300

E-mail: victaulic@victaulic.com • Website: www.victaulic.com

Certificate No: 104b to EN 12259-1:1999

SPRINKLER HEADS

Sprinkler Heads

Product Name	NominalOrificeSize(mm)	Type	Temperature Rating °C)	LPCB Ref. No.
V2727 (1)	15	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	104b/01
V2703 (1)	15	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	104b/01
V2725 (1)	15	CU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	104b/01
V2709 (1)	15	WH	57, 68, 79, 93, 141, 182 (5mm bulb)	104b/01
V2728 (1)	15	SP	57, 68, 79, 93, 141 (quick response)	104b/02
V2704 (1)	15	SU	57, 68, 79, 93, 141 (quick response)	104b/02
V2726 (1)	15	CU/P	57, 68, 79, 93, 141 (quick response)	104b/02
V2710 (1)	15	WH	57, 68, 79, 93, 141 (quick response)	104b/02
V3423 (1)	20	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	104b/03
V3401 (1)	20	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	104b/03
V3424 (1)	20	SP	57, 68, 79, 93, 141 (quick response)	104b/04
V3402 (1)	20	SU	57, 68, 79, 93, 141 (quick response)	104b/04
V3801	15	CCSP	68, with 59 ceiling plate (5mm bulb) 79, 93 with 74 ceiling plate (5mm bulb)	104b/05
V3802	15	CCSP	68 with 59 ceiling plate (3mm bulb) 79, 93 with 74 ceiling plate (3mm bulb)	104b/06
V8169 (2)	20	CU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	104b/07
V8125 (2)	20	CU/P	57, 68, 79, 93, 141 (quick response)	104b/08
V2763 (1)	15	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	104b/09
V2762 (1)	15	SP	57, 68, 79, 93, 141 (quick response)	104b/10
V3701 (3)	15	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	104b/11
V3701 (3)	15	RP	57, 68, 79, 93, 141, 182 (5mm bulb)	104b/11
V3702 (3)	15	SP	57, 68, 79, 93, 141 (quick response)	104b/12
V3702 (3)	15	RP	57, 68, 79, 93, 141 (quick response)	104b/12

Certificate No: 104n to EN 12259-1:1999 including amendment +A3:2006

Globe Sprinklers

Product Name	NominalOrificeSize(mm)	Type	Temperature Rating °C)	LPCB Ref. No.
Globe Model GL5668	15	CU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	104n/04
Globe Model GL5661	15	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	104n/04
Globe Model GL5651	15	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	104n/04
Globe Model GL5651	15	SR	57, 68, 79, 93, 141, 182 (5mm bulb)	104n/04
Globe Model GL5654	15	CCP	57° with 57° cover plate, 68° with 57° or 68° cover plate, 79° with 68° cover plate, 93° with 68° cover plate (5mm bulb)	104n/04
Globe Model GL8164	20	SU	57, 68, 79, 93, 141, 182 (5mm bulb)	104n/04
Globe Model GL8156	20	SP	57, 68, 79, 93, 141, 182 (5mm bulb)	104n/04
Globe Model GL8156	20	SR	57, 68, 79, 93, 141, 182 (5mm bulb)	104n/04
Globe Model GL5624	15	CU/P	57, 68, 79, 93, 141 (quick response)	104n/05
Globe Model GL5615	15	SU	57, 68, 79, 93, 141 (quick response)	104n/05
Globe Model GL5601	15	SP	57, 68, 79, 93, 141 (quick response)	104n/05
Globe Model GL5601	15	SR	57, 68, 79, 93, 141 (3mm bulb)	104n/05
Globe Model GL5604	15	CCP	57° with 57° cover plate, 68° with 57° or 68° cover plate, 79° with 68° cover plate, 93° with 68° cover plate (5mm bulb)	104n/05
Globe Model GL8118	20	SU	57, 68, 79, 93, 141 (quick response)	104n/05
Globe Model GL8106	20	SP	57, 68, 79, 93, 141 (quick response)	104n/05
Globe Model GL8106	20	SR	57, 68, 79, 93, 141 (3mm bulb)	104n/05
Globe Model GL5671	15	WH	57°, 68°, 79°, 93°, 141° (5mm bulb)	104n/04
Globe Model GL5671	15	RWH	57°, 68°, 79°, 93°, 141° (5mm bulb)	104n/04
Globe Model GL5627	15	WH	57°, 68°, 79°, 93°, 141° (quick response)	104n/05
Globe Model GL5627	15	RWH	57°, 68°, 79°, 93°, 141° (quick response)	104n/05
Globe Model GL5607	15	CCP	68, (with 57 large cover plate) (3mm bulb) 79, 93, (with 68 small cover plate) (3mm bulb)	104n/06
Globe Model GL5658	15	CCP	68, (with 57 large cover plate) (5mm bulb) 79, 93, (with 68 small cover plate) (5mm bulb)	104n/06
Globe Model	20	CU/P	57, 68, 79, 93, 141, 182 (5mm bulb)	104n/07

SPRINKLER HEADS

GL8169				
Globe Model	20	CU/P	57, 68, 79, 93, 141 (quick response)	104n/08
GL8125				

STOP VALVES

This section lists products approved in accordance with:

- LPS 1185 - *Requirements for Testing Methods for Remote Monitored Gear Operated Butterfly Stop Valves.*
- LPS 2083 - *Automatic Water Level Control Valves for use in Sprinkler Suction Tanks.*

Stop valves listed below are considered acceptable for use in installations conforming to the *LPC Rules for Automatic Sprinkler Installations*. The products shall be installed and maintained in accordance with the manufacturer's instructions.

Jinan Mech Valve Technology Co Ltd

No.2, Meide Street Meigui Town, Pingyin County, Jinan City, Shandong Province, 250400, China

Tel: (86)531 87885013

E-mail: info@meide-casting.com • Website: http://www.meide-casting.com

Certificate No: 988c to LPS 1185 Issue 3.2

Butterfly Valves

Product Name	Nominal size (DN)	Pipe Outside Diameter (mm)	Body and Disc Material	Maximum Working Pressure (bar)	End Connections	LPCB Ref. No.
D381X	50	60.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/01
D381X	65	73.0	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/01
D381X	65	76.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/01
D381X	80	88.9	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/01
D381X	100	114.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/01
D381X	125	139.7	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/01
D381X	125	141.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/01
D381X	150	165.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/01
D381X	150	168.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/01
D381X	200	219.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/01
XD381X – with supervisory switch	50	60.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/02
XD381X – with supervisory switch	65	73.0	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/02
XD381X – with supervisory switch	65	76.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/02
XD381X – with supervisory switch	80	88.9	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/02
XD381X – with supervisory switch	100	114.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/02
XD381X – with supervisory switch	125	139.7	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/02
XD381X – with supervisory switch	125	141.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/02
XD381X – with supervisory switch	150	165.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/02
XD381X – with supervisory switch	150	168.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/02
XD381X – with supervisory switch	200	219.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	988c/02

Keraflo Ltd

Unit 1 Woodley Park Estate, 59-69 Reading Road, Woodley, Berkshire, RG5 3AN, United Kingdom

Tel: 0118 921 9920

E-mail: info@keraflo.co.uk • Website: https://www.keraflo.co.uk/

Certificate No: 1642a to Draft LPS 2083

Keraflo Model FB Water Level Control Valves

25 Apr 2025

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STOP VALVES

Product Name	Description	LPCB Ref. No.
FB25	Keraflo Fire FB Type Valve 1" (25mm)	1642a/01
FB50SF	Keraflo Fire FB Type Valve Standard Flow 2" (50mm)	1642a/02
FB80	Keraflo Fire FB Type Valve Standard Flow 3" (80mm)	1642a/03

Rapidrop Global Limited

Rutland Business Park, Newark Road, Peterborough, PE1 5WA, United Kingdom

Tel: +44 (0)1733 847 510

E-mail: rapidrop@rapidrop.com • Website: www.rapidrop.com

Certificate No: 566m to LPS 1185: Issue 3.2

Stop Valves

Product Name	Nominal size (DN)	Pipe Outside Diameter (mm)	Body and Disc Material	Maximum Working Pressure (bar)	End Connections	LPCB Ref. No.
Fig.216 'Rapidrop' Butterfly Valve	50	60.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	566m/01
Fig.216 'Rapidrop' Butterfly Valve	65	73.0	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	566m/01
Fig.216 'Rapidrop' Butterfly Valve	65	76.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	566m/01
Fig.216 'Rapidrop' Butterfly Valve	80	88.9	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	566m/01
Fig.216 'Rapidrop' Butterfly Valve	100	114.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	566m/01
Fig.216 'Rapidrop' Butterfly Valve	125	139.7	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	566m/01
Fig.216 'Rapidrop' Butterfly Valve	125	141.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	566m/01
Fig.216 'Rapidrop' Butterfly Valve	150	165.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	566m/01
Fig.216 'Rapidrop' Butterfly Valve	150	168.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	566m/01
Fig.216 'Rapidrop' Butterfly Valve	200	219.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	566m/01

The Peter Smith Valve Company Ltd

Occupation Road, Cinderhill Road, Bulwell, Nottingham, NG6 8RX, United Kingdom

Tel: +44 (0)115 927 2831

E-mail: chrishardcastle@petersmithvalve.co.uk • Website: www.petersmithvalve.co.uk

Certificate No: 1791a to

Automatic Water Level Control Valves

Product Name	Description	Sizes	Maximum Working Pressure	LPCB Ref. No.
FIG 501 Equilibrium ball float valve	Cast iron	50mm, 80mm, 100mm & 150mm	10bar	1791a

The Viking Corporation

210 N Industrial Park, Hastings, Michigan 49058, USA

Tel: +1 269 945 9501

E-mail: techsvcs@vikingcorp.com • Website: www.vikingcorp.com

Certificate No: 096n to LPS 1185: Issue 3.2

Stop Valves

Product Name	Product Name	Nominal size (DN)	Pipe Outside Diameter (mm)	Body and Disc Material	Maximum Working Pressure (bar)	End Connections	LPCB Ref. No.
Fireking Butterfly Valve	BVG-2	50	60.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/01
Fireking Butterfly Valve	BVG-2	65	73.0	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/01
Fireking Butterfly Valve	BVG-2	65	76.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/01

STOP VALVES

Fireking Butterfly Valve	BVG-2	80	88.9	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/01
Fireking Butterfly Valve	BVG-2	100	114.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/01
Fireking Butterfly Valve	BVG-2	125	139.7	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/01
Fireking Butterfly Valve	BVG-2	125	141.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/01
Fireking Butterfly Valve	BVG-2	150	165.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/01
Fireking Butterfly Valve	BVG-2	150	168.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/01
Fireking Butterfly Valve	BVG-2	200	219.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/01
Fireking Butterfly Valve	BVG-1	50	60.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/02
Fireking Butterfly Valve	BVG-1	65	73.0	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/02
Fireking Butterfly Valve	BVG-1	65	76.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/02
Fireking Butterfly Valve	BVG-1	80	88.9	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/02
Fireking Butterfly Valve	BVG-1	100	114.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/02
Fireking Butterfly Valve	BVG-1	125	139.7	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/02
Fireking Butterfly Valve	BVG-1	125	141.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/02
Fireking Butterfly Valve	BVG-1	150	165.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/02
Fireking Butterfly Valve	BVG-1	150	168.3	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/02
Fireking Butterfly Valve	BVG-1	200	219.1	ASTM A536 disc with EPDM coat	16	Grooved x Grooved	096n/02

Victaulic Company

4901 Kesslersville Road, Easton, Pennsylvania 18040, USA

Tel: +1 610 559 3300

E-mail: victaulic@victaulic.com • Website: www.victaulic.com

Certificate No: 104i to LPS 1185: Issue 3.1

Series 728 Ball Valves

Product Name	Nominal Size(mm)	Body Material	Maximum WorkingPressure(bar)	Connections	LPCB Ref. No.
Series 728 Ball Valves	DN25	Brass	20	Threaded	104i/01
Series 728 Ball Valves	DN32	Brass	20	Threaded	104i/01
Series 728 Ball Valves	DN40	Brass	20	Threaded	104i/01
Series 728 Ball Valves	DN50	Brass	20	Threaded	104i/01
Series 728 Ball Valves	DN32	Brass	20	Grooved	104i/01
Series 728 Ball Valves	DN40	Brass	20	Grooved	104i/01
Series 728 Ball Valves	DN50	Brass	20	Grooved	104i/01

Certificate No: 104j to LPS 1185 Issue 3.1, LPS 1185 Issue 3.2

Series 705 & 707C Butterfly valve

Product Name	Nominal Size(mm)	Pipe OutsideDiameter(mm)	BodyMaterial	Max.WorkingPressure(bar)	Connections	LPCB Ref. No.
Series 705 & 707C Butterfly valve	65	73.0	Ductile iron	21	Grooved	104j/01
Series 705 & 707C Butterfly valve	65	76.1	Ductile iron	21	Grooved	104j/01
Series 705 & 707C Butterfly valve	80	88.9	Ductile iron	21	Grooved	104j/01
Series 705 & 707C Butterfly valve	100	114.3	Ductile iron	21	Grooved	104j/01
Series 705 & 707C Butterfly valve	125	139.7	Ductile iron	21	Grooved	104j/01
Series 705 & 707C Butterfly valve	141.3	Ductile iron	21	Grooved	Grooved	104j/01
Series 705 & 707C Butterfly valve	150	165.1	Ductile iron	21	Grooved	104j/01
Series 705 & 707C Butterfly valve	168.3	Ductile iron	21	Grooved	Grooved	104j/01
Series 705 & 707C Butterfly valve	200	219.3	Ductile iron	21	Grooved	104j/01
Series 705 & 707C Butterfly valve	250	273.0	Ductile iron	21	Grooved	104j/01
Series 705 & 707C Butterfly valve	300	323.9	Ductile iron	21	Grooved	104j/01

STOP VALVES

Certificate No: 104j to LPS 1185 Issue 3.1, LPS 1185 Issue 3.2

Series 765 & 766 Butterfly valve

Product Name	Nominal Size(mm)	Pipe Outsidediameter(mm)	BodyMaterial	Max WorkingPressure(bar)	Connections	LPCB Ref. No.
Series 765 & 766 Butterfly valve	65	73.0	Ductile iron	25	Grooved	104j/02
Series 765 & 766 Butterfly valve	65	76.1	Ductile iron	25	Grooved	104j/02
Series 765 & 766 Butterfly valve	80	88.9	Ductile iron	25	Grooved	104j/02
Series 765 & 766 Butterfly valve	100	114.3	Ductile iron	25	Grooved	104j/02
Series 765 & 766 Butterfly valve	125	139.7	Ductile iron	25	Grooved	104j/02
Series 765 & 766 Butterfly valve	141.3	Ductile iron	25	Grooved	Grooved	104j/02
Series 765 & 766 Butterfly valve	150	165.1	Ductile iron	25	Grooved	104j/02
Series 765 & 766 Butterfly valve	168.3	Ductile iron	25	Grooved	Grooved	104j/02
Series 765 & 766 Butterfly valve	200	219.3	Ductile iron	25	Grooved	104j/02
Series 765 & 766 Butterfly valve	250	273.0	Ductile iron	25	Grooved	104j/02
Series 765 & 766 Butterfly valve	300	323.9	Ductile iron	25	Grooved	104j/02

Certificate No: 846a to LPS 1185: Issue 3.1

Firelock Butterfly Stop Valves

Product Name	Nominal Size (mm)	Pipe Outside Diameter (mm)	Body Material	Max. Working Pressure (bar)	Connections	LPCB Ref. No.
Series 705 & 707C Butterfly valve	80	108.0	Ductile iron	21	Grooved	846a/01
Series 765 & 766 Butterfly Valves	80	108.0	Ductile iron	25	Grooved	846a/02

VORTEX INHIBITORS

This section lists products approved in accordance with:

- LPCB Schedule of requirements

The new edition of the LPC Sprinkler Rules, incorporating EN12845 *Fixed Firefighting Systems. Automatic Sprinkler Systems. Design, Installation and Maintenance*, includes requirements whereby the minimum dimension from the suction pipe to the minimum low water level can be reduced if a suitable vortex inhibitor is installed. Where the listed vortex inhibitors meet this requirement this is shown by a note in the listing.

Balmoral Tanks Limited

Llantrisant Business Park, Llantrisant, Pontyclun, CF72 8LF, United Kingdom

Tel: +44 (0)1443 235170

E-mail: watertanksales@balmoral.co.uk • Website: www.balmoraltanks.com

Certificate No: 1761c to LPS 2070: Draft 1

Balmoral FireFlow Vortex Inhibitors

Product Name	Description	LPCB Ref. No.
FireFlow Vortex Inhibitors	Inhibitors suitable for the following nominal bore suction pipes (mm): 80, 100, 150, 200, 250, 300, 350, 400, 450	1761c/01

CST Industries (UK) Limited

Unit 11A Farmwell Lane, Castlewood Business Park, South Normanton, Derbyshire, DE55 2JX, United Kingdom

Tel: +44 (0)1773 522266

E-mail: phart@cstindustries.com • Website: www.cstindustries.com

Certificate No: 044b to

CST Vortex Inhibitors

Product Name	Description	LPCB Ref. No.
CST Vortex Inhibitors	Inhibitors suitable for the following nominal bore suction pipes (mm):- 80, 100, 150, 200, 250, 300, 350, 400 and 450 mm These Vortex Inhibitors have been assessed as being in compliance with the requirements of EN12845, Fixed firefighting systems - Automatic sprinkler systems - Design, installation and maintenance.	044b/01

Franklin Hodge Industries Ltd.

Jubilee Building, Faraday Road, Westfields Trading Estate, Hereford, HR4 9NS, United Kingdom

Tel: +44 (0)1432 269605

E-mail: sales@franklinhodge.co.uk • Website: www.franklinhodge.com

Certificate No: 037b to EN 12845

F.H.I. Anti - Vortex Plate

Product Name	Description	LPCB Ref. No.
F.H.I. Anti - Vortex Plate	Suitable for the following nominal bore suction pipes (mm): 100, 150, 200, 250, 300, 350, 400 and 450 These Vortex Inhibitors have been assessed as being in compliance with the requirements of EN12845, Fixed firefighting systems - Automatic sprinkler systems - Design, installation and maintenance.	037b/01

WATER FLOW ALARM SWITCHES

This section lists products approved in accordance with:

- EN12259-5 *Fixed firefighting systems. Components for sprinkler and water spray systems. Water flow detectors.*
- LPCB Schedule of requirements.

The following water flow alarm switches have been approved for use in wet pipe sprinkler systems in accordance with the *LPC Rules for Automatic Sprinkler Installations*. The products shall be installed and maintained in accordance with the manufacturer's instructions.

Applications Engineering LTD

Liberty House, Unit 9C Michael Way, Ashdown Business Park, Maresfield, Uckfield, TN22 2DU, United Kingdom

Tel: +44 1825 764737

E-mail: info@appeng.co.uk • Website: <http://www.appeng.co.uk>

Certificate No: 1738a to EN 12259-5

Water flow alarm switches

Product Name	Size	Maximum Working Pressure (bar)	LPCB Ref. No.
AE-VKS25M2APENG14/JB	DN25	16	1738a/01
AE-VKS40M2APENG17/JB	DN32	16	1738a/02
AE-VKS40M2APENG18/JB	DN40	16	1738a/03
AE-VKS50M0APENG19/JB	DN50	16	1738a/04

Influx Measurements Limited

1A Bennett House, The Dean, Alresford, Hampshire, SO24 9BQ, United Kingdom

Tel: +44 (0)1962 736736

E-mail: sales@influxmeasurements.com

Certificate No: 464b to EN 12259-5:2002

SprinklerSense Waterflow Switch

Product Name	Model	Sizes (mm)	Maximum Working Pressure (bar)	LPCB Ref. No.
SprinklerSense Waterflow Switch	SPDB 30	50, 65, 80, 100, 150	20	464b/01

Certificate No: 464b to

SprinklerSense test interface unit

Product Name	Description	LPCB Ref. No.
SprinklerSense test interface unit	-	464b/02

Certificate No: 464b to EN 12259-5:2002 (with the exception of clause 4.6.1)

SprinklerSense Waterflow Switch

Product Name	Model	Sizes (mm)	Maximum Working Pressure (bar)	LPCB Ref. No.
SprinklerSense Waterflow Switch	SPDB 90	50, 65, 80, 100, 150	20	464b/03

Certificate No: 464c to EN 12259-5:2002

INFLUX SPFS Water Flow Alarm Switches

Product Name	Size	Maximum Working Pressure (bar)	LPCB Ref. No.
SPFS 1"	DN25	20	464c/01
SPFS 1½"	DN32	20	464c/02
SPFS 2"	DN50	20	464c/04
SPFS 1½"	DN40	20	464c/03

WATER FLOW ALARM SWITCHES

Potter Electric Signal Company LLC

1609 Park 370 Place, Hazelwood, St Louis, Missouri, 63042, USA

Tel: +1 314 595 6900

E-mail: info@pottersignal.com • Website: www.pottersignal.com

Certificate No: 125c to EN 12259-5 (with the exception of clause 4.6.11) of maximum 30 second alarm delay changed to 90 seconds)

VSR & VSR (EU) Water Flow Alarms

Product Name	Size	Maximum Working Pressure(bar)	LPCB Ref. No.
VSR 2"	DN 50	16	125c/01
VSR 2.5"	DN 65	16	125c/01
VSR 3"	DN 80	16	125c/01
VSR 4"	DN 100	16	125c/01
VSR 5"	DN 125	16	125c/01
VSR 6"	DN 150	16	125c/01
VSR 8"	DN 200	16	125c/01

Certificate No: 125c to EN 12259-5

Water Flow Alarm

Product Name	Size	Maximum Working Pressure(bar)	LPCB Ref. No.
VSR 2" (EU)	DN 50	16	125c/02
VSR 2.5" (EU)	DN 65	16	125c/02
VSR 3" (EU)	DN 80	16	125c/02
VSR 4" (EU)	DN 100	16	125c/02
VSR 6" (EU)	DN 150	16	125c/02
VSR 8" (EU)	DN 200	16	125c/02

Certificate No: 125d to EN 12259-5 (with the exception of clause 4.6.11) of maximum 30 second alarm delay changed to 90 seconds)

VSR-S & VSR-S (EU) Water flow alarms

Product Name	Size	Maximum Working Pressure (bar)	LPCB Ref. No.
VSR-S 1"	DN 25	20.7	125d/01
VSR-S 1 ¼"	DN 32	20.7	125d/01
VSR-S 1 ½"	DN 38	20.7	125d/01
VSR-S 2"	DN 50	20.7	125d/01

Certificate No: 125d to EN 12259-5

VSR-S & VSR-S (EU) Water flow alarms

Product Name	Size	Maximum Working Pressure (bar)	LPCB Ref. No.
VSR-S (EU) 1"	DN 25	20.7	125d/02
VSR-S (EU) 1 ¼"	DN 32	20.7	125d/02
VSR-S (EU) 1 ½"	DN 38	20.7	125d/02
VSR-S (EU) 2"	DN 50	20.7	125d/02

Certificate No: 125e to EN 12259-5

VSR-AT Water Flow Detectors

Product Name	Size	Maximum Working Pressure (bar)	LPCB Ref. No.
VSR-AT 2" (EU)	DN 50	16	125e/01
VSR-AT 2.5" (EU)	DN 65	16	125e/02
VSR-AT 3" (EU)	DN 80	16	125e/03
VSR-AT 4" (EU)	DN 100	16	125e/04
VSR-AT 5" (EU)	DN 125	16	125e/05
VSR-AT 6" (EU)	DN 150	16	125e/06
VSR-AT 8" (EU)	DN 200	16	125e/07

Certificate No: 125f to EN 12259-5:2002

Water flow alarm switches

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WATER FLOW ALARM SWITCHES

Product Name	Size	Maximum Working Pressure (bar)	LPCB Ref. No.
WFD20EN	DN50	16	125f/01
WFD25EN	DN65	16	125f/02
WFD30EN	DN80	16	125f/03
WFD40EN	DN100	16	125f/04
WFD60EN	DN150	16	125f/05
WFD80EN	DN200	16	125f/06

Sika Dr. Siebert & Kuhn GmbH & Co. KG

Struthweg 7-9, Kaufungen, 34260, Germany

Tel: +44 (0) 7749603461

E-mail: sales@sika-instruments.co.uk • Website: www.sika.net; www.riserteq.com

Certificate No: 1606a to EN 12259-5

Water flow alarm switches

Product Name	Size	Maximum Working Pressure (bar)	LPCB Ref. No.
VKF 25 M2 BRASS	DN 25	12	1606a/01
VKF 32 M2 BRASS	DN 32	12	1606a/02
VKF 32 M2 PLASTIC	DN 32	12	1606a/03
VKF 40 M2 BRASS	DN 40	12	1606a/04
VKF 50 M2 BRASS	DN 50	12	1606a/05

WATER MOTOR ALARMS

This section lists products approved in accordance with:

- EN12259-4 *Fixed firefighting systems. Components for sprinkler & water spray systems. Water motor alarms.*

Rapidrop Global Limited

Rutland Business Park, Newark Road, Peterborough, PE1 5WA, United Kingdom

Tel: +44 (0)1733 847 510

E-mail: rapidrop@rapidrop.com • Website: www.rapidrop.com

Certificate No: 566c to EN 12259-4:2000 + Amendment A1:2001

Water Motor Alarms

Product Name	Model	LPCB Ref. No.
Water Motor Alarm	Model E	566c/01

Rolland Sprinklers

235 Route de la Biolle, ZA le Sauvage, Mognard, 73410, France

Tel: +33 479 547 250

E-mail: info@rolland-sprinklers.com

Certificate No: 295d to EN 12259-4

Model E Water Motor Alarm

Product Name	Model	LPCB Ref. No.
Water Motor Alarm	Model E	295d/01

The Reliable Automatic Sprinkler Co., Inc,

1470 Smith Grove Road, Liberty, South Carolina 29657, USA

Tel: +1 864 843 1734

E-mail: jcevallos@reliablesprinkler.com • Website: www.reliablesprinkler.com

Certificate No: 034f to EN 12259-4

Model C Water Motor Alarm

Product Name	Description	LPCB Ref. No.
Water Motor Alarm	Model C	034f/01

The Viking Corporation

210 N Industrial Park, Hastings, Michigan 49058, USA

Tel: +1 269 945 9501

E-mail: techsvcs@vikingcorp.com • Website: www.vikingcorp.com

Certificate No: 096u to EN 12259-4:2000 +Amendment A1:2001

F-2 Water Motor Alarm

Product Name	Model	LPCB Ref. No.
Water Motor Alarm (1)	F-2	096u/01

WATER MOTOR ALARMS

Tyco Building Services Products B.V. part of the Johnson Controls group of Companies

Kopersteden 1, 7547 TJ Enschede, Netherlands

Tel: +31 53 4284444

E-mail: info-NL@tyco-bspd.com • Website: www.tycobuilding.com

Certificate No: 169k to EN 12259-4: 2000 +A1

Water Motor Alarm

Product Name	Model	LPCB Ref. No.
Water Motor Alarm	WMA-1	169k/01

Venus Fire Protection Ltd

4105, Portland Blvd, Sherbrooke (Quebec), J1L 1X9, Canada

Tel: +1 819 820 8000

E-mail: venus@venus.ca • Website: www.venus-fire.com

Certificate No: 638b to EN 12259-4:2000 including amendment A1:2001

Astra Model E Water Motor Alarm

Product Name	Description	LPCB Ref. No
Water Motor Alarm	Model E	638b/01

Victaulic Company

4901 Kesslersville Road, Easton, Pennsylvania 18040, USA

Tel: +1 610 559 3300

E-mail: victaulic@victaulic.com • Website: www.victaulic.com

Certificate No: 104f to EN 12259-4

Series 760 Water Motor Alarm

Product Name	Description	LPCB Ref. No
Water Motor Alarm	Series 760	104f/01

Certificate No: 104o to EN 12259-4:2000 + A1:2001

Globe Water Motor Alarm

Product Name	Model	LPCB Ref. No.
Water Motor Alarm	Model WM	104o/01

WATER SPRAY SYSTEMS (MEDIUM AND HIGH VELOCITY)

This section lists products approved in accordance with:

- LPCB Schedule of requirements

Medium and high velocity sprayers for use under *LPC Rules for Automatic Sprinkler Installations* on oil and flammable liquid hazards have been approved to a schedule of requirements developed by LPCB. The products shall be installed and maintained in accordance with the manufacturer's instructions.

The Reliable Automatic Sprinkler Co., Inc,

1470 Smith Grove Road, Liberty, South Carolina 29657, USA

Tel: +1 864 843 1734

E-mail: jcevallos@reliablesprinkler.com • Website: www.reliablesprinkler.com

Certificate No: 034e to LPS 1227 DRAFT

Reliable Medium Velocity Water Spray System

Product Name	Description	LPCB Ref. No
Reliable Medium Velocity Water Spray System	-	034e/01

Tyco Fire and Integrated Solutions (the trading company for Tyco Fire and Integrated Solutions (UK) Limited and Tyco Fire and Integrated Solutions (Ireland) Limited)

Tyco Park, Grimshaw Lane, Newton Heath, Manchester, M40 2WL, United Kingdom

Tel: +44 (0)161 205 2321

Website: www.tycofis.com

Certificate No: 014d to LPS 1227 DRAFT

Water spray systems (medium and high velocity)

Product Name	LPCB Ref. No.
Mulsifyre System	014d/01
Protectospray System	014d/02
Wormald High Velocity Water Spray System	014d/03
Wormald Medium Velocity Water Spray System	014d/04

WATER SPRAYERS

This section lists products approved in accordance with:

- LPCB Schedule of requirements

Water sprayers for use under *LPC Rules for Automatic Sprinkler Installations* on oil and flammable liquid hazards have been approved to a schedule of requirements developed by LPCB. The products shall be installed and maintained in accordance with the manufacturer's instructions.

WET ALARM VALVE STATIONS

This section lists products approved in accordance with:

- LPCB Schedule of requirements
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WET ALARM VALVE TESTING DEVICE FOR SPRINKLER SYSTEMS

This section lists products approved in accordance with:

- LPCB Schedule of requirements

Wet alarm valve testing devices for use with automatic sprinkler systems have been approved to a schedule of requirements developed by LPCB. The products shall be installed and maintained in accordance with the manufacturer's instructions.

WET AND DRY ALARM VALVES FOR SPRINKLER SYSTEMS

This section lists products approved in accordance with:

- EN12259-2 *Fixed firefighting systems. Components for sprinkler and water spray systems. Wet alarm valve assemblies*
- EN12259-3 *Fixed firefighting systems. Components for sprinkler and water spray systems. Dry alarm valve assemblies*
- LPCB Schedule of requirements

It is strongly recommended that all alarm valves, dry-pipe valves and back-pressure valves be the subject of a maintenance contract, satisfying the requirements of the *LPCB Rules for Automatic Sprinkler Installations*.

The nominal orifice size of valves listed is given in millimetres.

The products shall be installed and maintained in accordance with the manufacturer's instructions.

Minimax GmbH

Industriestrasse 10/12, D-23840 Bad Oldesloe, Germany

Tel: +49 4531 803 8064

Website: www.minimax.de

Certificate No: 1118c to EN 12259-3:2000 + Amendment A1:2001 & Amendment A2: 2005

Dry Alarm Valve

Product Name	Model (alternative designations)	Sizes (mm)	LPCB Ref. No.
Dry Alarm Valve with and without Model D-2 Accelerator	AVD-1	80,100, 150, 165	1118c/01

Rapidrop Global Limited

Rutland Business Park, Newark Road, Peterborough, PE1 5WA, United Kingdom

Tel: +44 (0)1733 847 510

E-mail: rapidrop@rapidrop.com • Website: www.rapidrop.com

Certificate No: 566b to EN 12259-2:1999 + Amendment A1:2001 & Amendment A2: 2005

Wet Alarm Valves

Product Name	Model	Sizes(mm)	LPCB Ref. No.
Wet Alarm Valve	B	80, 100, 150, 200(1, 2, 3, 4)	566b/01
Wet Alarm Valve	D	100, 150, 200(1, 2, 3, 5)	566b/02
Wet Alarm Valve	E	100, 150,(1, 2, 3, 6)	566b/03

Rolland Sprinklers

235 Route de la Biolle, ZA le Sauvage, Mognard, 73410, France

Tel: +33 479 547 250

E-mail: info@rolland-sprinklers.com

Certificate No: 295b to EN 12259-2 & EN 12259-3

Wet and Dry Alarm Valves

Product Name	Model	Sizes (mm)	LPCB Ref. No.
Wet Alarm Valve	B	80, 100, 150, 200 (1, 2, 3, 4)	295b/01
Wet Alarm Valve	D	80, 100, 150, 200 (1, 2, 3, 5)	295b/02
Wet Alarm Valve	E	80, 100, 150, 200 (1, 2, 3, 6)	295b/03
Dry Alarm Valve	A	80 (1, 2, 4, 7)	295b/04
Dry Alarm Valve	B	100, 150 (1, 2, 5, 7)	295b/05
Dry Alarm Valve	E	100 (1, 2, 6, 7)	295b/06

WET AND DRY ALARM VALVES FOR SPRINKLER SYSTEMS

The Reliable Automatic Sprinkler Co., Inc,

1470 Smith Grove Road, Liberty, South Carolina 29657, USA

Tel: +1 864 843 1734

E-mail: jcevallos@reliablesprinkler.com • Website: www.reliablesprinkler.com

Certificate No: 034b to

Wet & Dry Alarm Valves

Product Name	Model	Sizes (DN (mm))	LPCB Ref. No.
Reliable Alarm Valve (1) (5) (7)	E	65, 100, 150, 200	034b/01
Reliable Alarm Valve (3) (6) (7)	D	100, 150	034b/02
Reliable Dry Pipe Valve (4) (6) (7)	A	65	034b/03
Reliable High Pressure Alarm Valve (2) (5) (8)	E3	100, 165, 200	034b/04

Notes: 1) With flanged inlet and flanged outlet. 2) With grooved inlet and grooved outlet. 3) With flanged inlet and flanged or grooved outlet. 4) With threaded inlet and outlet. 5) Vertical or horizontal. 6) Vertical. 7) Maximum working pressure of 12 bar. 8) Maximum working pressure of 21 bar.

Certificate No: 034n to EN 12259-3

Dry Alarm Valves

Product Name	Model	Sizes DN (mm)	LPCB Ref. No.
Reliable Dry Alarm Valve	DDX	100	034n/01
Reliable Dry Alarm Valve	DDX	150	034n/02
Reliable Dry Alarm Valve	DDX	165	034n/03
Reliable Dry Alarm Valve	DDX	50	034n/04
Reliable Dry Alarm Valve	DDX	65 (73.0)	034n/05
Reliable Dry Alarm Valve	DDX	65 (76.1)	034n/06
Reliable Dry Alarm Valve	DDX	80	034n/07

Certificate No: 034s to EN 12259-3

Model EX Dry Pipe Alarm Valves

Product Name	Model	Sizes (mm)	LPCB Ref. No.
Reliable Dry Pipe Alarm Valve - 17.2 bar (Groove/Groove)	EX	DN50 (60.3 mm)	034s/01
Reliable Dry Pipe Alarm Valve - 17.2 bar (Groove/Groove)	EX	DN65 (73.0 mm)	034s/02
Reliable Dry Pipe Alarm Valve - 17.2 bar (Groove/Groove)	EX	DN65 (76.1 mm)	034s/03
Reliable Dry Pipe Alarm Valve - 17.2 bar (Groove/Groove)	EX	DN80 (88.9 mm)	034s/04
Reliable Dry Pipe Alarm Valve - 20.7 bar (Groove/Groove or Flange/Groove or Flange/Flange)	EX	DN100 (114.3 mm)	034s/05
Reliable Dry Pipe Alarm Valve - 20.7 bar (Groove/Groove or Flange/Groove or Flange/Flange)	EX	DN150 (165.1 mm)	034s/06
Reliable Dry Pipe Alarm Valve - 20.7 bar (Groove/Groove or Flange/Groove or Flange/Flange)	EX	DN150 (168.3 mm)	034s/07
Reliable Dry Pipe Alarm Valve - 17.2 bar (Groove/Groove or Flange/Groove or Flange/Flange)	EX	DN 200 (219.1 mm)	034s/08

Certificate No: 034v to EN12259-3:2000

FX Dry Alarm Valve

Product Name	Sizes DN	Pipe Sizes, mm	Max, Working Pressure, bar	LPCB Ref. No.
FX Dry Alarm Valve	DN50	60.3	17.2	034v/01
FX Dry Alarm Valve	DN65	73.0	20.7	034v/02
FX Dry Alarm Valve	-	76.1	20.7	034v/03
FX Dry Alarm Valve	DN150	168.3	20.7	034v/07
FX Dry Alarm Valve	DN80	88.9	20.7	034v/04
FX Dry Alarm Valve	DN100	114.3	20.7	034v/05
FX Dry Alarm Valve	-	165.1	20.7	034v/06

The Viking Corporation

210 N Industrial Park, Hastings, Michigan 49058, USA

Tel: +1 269 945 9501

E-mail: techsvcs@vikingcorp.com • Website: www.vikingcorp.com

Certificate No: 096b to EN12259-2:1999 + A3

Viking Wet Alarm Valve for Sprinkler Systems

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WET AND DRY ALARM VALVES FOR SPRINKLER SYSTEMS

Product Name	Model	Sizes(mm)	LPCB Ref. No.
Viking Wet Alarm Valve	J-1	80,100,150, 165 (OD) 200	096b/05

Certificate No: 096x to EN 12259-3:2000

Viking Dry Alarm Valve

Product Name	Description	LPCB Ref. No.
DRV-1	Dry Alarm valve	096x/01

Tyco Building Services Products B.V. part of the Johnson Controls group of Companies

Kopersteden 1, 7547 TJ Enschede, Netherlands

Tel: +31 53 4284444

E-mail: info-NL@tyco-bspd.com • Website: www.tycobuilding.com

Certificate No: 169b to EN 12259-2

Tyco Model AV-1 Wet Alarm valve

Product Name	Model	Sizes(mm)	LPCB Ref. No.
AV-1 Alarm Valve (Flange/Flange) (1, 2)	AV-1	100, 150, 200	169b/01
AV-1 Alarm Valve (Flange/Groove) (1, 2)	AV-1	100, 150, 200	169b/02
AV-1 Alarm Valve (Groove/Groove) (1, 2)	AV-1	100, 150, 200	169b/03

Certificate No: 169j to EN 12259-3:2000 + Amendment A1:2001 & Amendment A2: 2005

Dry Alarm Valve

Product Name	Model (alternative designations)	Sizes (mm)	LPCB Ref. No.
Dry Alarm Valve	DPV-1	65, 80	169j/01
Dry Alarm Valve	DPV-1	100, 150	169j/02

Venus Fire Protection Ltd

4105, Portland Blvd, Sherbrooke (Quebec), J1L 1X9, Canada

Tel: +1 819 820 8000

E-mail: venus@venus.ca • Website: www.venus-fire.com

Certificate No: 638a to EN 12259-2:1999 including amendment A1:2001 and A2:2005

Astra Wet Alarm Valves

Product Name	Model	Sizes (mm)	LPCB Ref. No.
Wet Alarm Valve	B	80, 100, 150, 200(1, 2, 3, 4)	638a/01
Wet Alarm Valve	D	100, 150, 200(1, 2, 3, 5)	638a/02
Wet Alarm Valve	E	100, 150,(1, 2, 3, 6)	638a/03

Certificate No: 638c to EN 12259-3:2000

Dry Alarm Valves

Product Name	Model	Sizes (mm)	LPCB Ref. No.
Dry Alarm Valve	A	80 (1, 2, 4, 7)	638c/04
Dry Alarm Valve	B	100, 150 (1, 2, 5, 7)	638c/05
Dry Alarm Valve	E	100 (1, 2, 6, 7)	638c/06

Victaulic Company

4901 Kesslersville Road, Easton, Pennsylvania 18040, USA

Tel: +1 610 559 3300

E-mail: victaulic@victaulic.com • Website: www.victaulic.com

WET AND DRY ALARM VALVES FOR SPRINKLER SYSTEMS

Certificate No: 104c to EN 12259-3

Model 768N Dry Alarm Valve

Product Name	Model	Sizes(mm)	LPCB Ref. No.
Series 768N Dry Alarm Valve	Series 768N	40, 50, 65, 80, 100, 150 & 200	104c/02

Certificate No: 104e to EN 12259-2

Series 751 Wet Alarm Valve

Product Name	Model	Sizes	LPCB Ref. No.
Series 751 Wet Alarm Valve	Series 751	80, 100, 150 & 200	104e/01

Certificate No: 104m to EN 12259-2:1999 + Amendment A1:2001 & Amendment A2: 2005

Globe Alarm Valve

Product Name	Model	Sizes(mm)	LPCB Ref. No.
Globe Alarm Valve	H1	80(2) (3) (6), 100(1) (3) (6), 150(1) (3) (6) 200(2) (3) (7)	104m/01
Globe Alarm Valve	H3	80(2) (4) (6), 100(2) (4) (6), 150(2) (4) (6), 200(2) (4) (7)	104m/02
Globe Alarm Valve	H2	80(1) (5) (6), 100(1) (5) (6), 150(1) (5) (6), 200(1) (5) (7)	104m/03

