

Certificate of Product Approval

Certificate Number: 293b

Issue: 04

Spears Manufacturing Company Inc.

15853 Olden Street
Sylmar
California 91342
USA



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

Products

Plastic fittings

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

Plastic pipe

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

(refer to attached appendix for details)

Standards

LPS 1260: Issue 3.2

Plastic Fittings for Use in Automatic Sprinkler Systems

LPS 1260: Issue 3.1

Plastic Pipe for Use in Automatic Sprinkler Systems

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Signed for BRE Global Ltd.

Robert Brown

Verifier

16 April 2021

Date of Issue

25 January 2005

Date of First Issue



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Appendix to Certificate No: 293b Spears Manufacturing Company Inc.

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

Product	Nominal Size (in.)	Model	Maximum Working Pressure (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)	1½x1½x¾	4201-210	12	293b/02

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Product	Nominal Size (in.)	Model	Maximum Working Pressure (bar)	LPCB Ref. No.
Reducing Tee (Soc x Soc x Soc)	1½x1/½x1	4201-211	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1½x1/½x1¼	4201-212	12	293b/02
Reducing Tee (Soc x Soc x Soc)	1½x1/½x2	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

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Product	Nominal Size (in.)	Model	Maximum Working Pressure (bar)	LPCB Ref. No.
Sprinkler Head Tee (Soc x Soc x Metal FIPT)	1¼x1¼x½	4202-166	12	293b/04
Sprinkler Head Tee (Soc x Soc x Metal FIPT)	1½x1¼x1½	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
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

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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

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Product	Nominal Size (in.)	Model	Maximum Working Pressure (bar)	LPCB Ref. No.
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		293b/14
Sprinkler Head 90° Elbow (Socket x Metal FIPT)	1¼x½	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

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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
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

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Product	Nominal Size (in.)	Model	Maximum Working Pressure (bar)	LPCB Ref. No.
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

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Product	Nominal Size (in.)	Model	Maximum Working Pressure (bar)	LPCB Ref. No.
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)	3x½	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

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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

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Product	Nominal Size (in.)	Model	Maximum Working Pressure (bar)	LPCB Ref. No.
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
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

This certificate and appendix is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

RE Brown

Signed for BRE Global Ltd.

Robert Brown

Verifier

16 April 2021

Date of Issue

25 January 2005

Date of First Issue



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Appendix to Certificate No: 293b Spears Manufacturing Company Inc.

Issue: 04

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

Product	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

Notes:

1. The system of pipe and fittings must be installed in accordance with Spears Manufacturing Company installation instructions FG-3-0321 (March 1, 2021), which includes LPCB conditions of use agreed with Spears Manufacturing Company.
2. The maximum normal ambient temperature of use shall not exceed 50°C.
3. LPCB approval does not cover the use of CPVC fire sprinkler piping below ground.
4. The products shall only be installed in the UK by LPCB Certificated or Registered installing companies (see Part 3, Section 1.1, 1.2 and 1.3), or by firms outside the UK who can provide evidence of personnel training in the installation of the product.

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