



Certificate of Compliance

This certificate is issued for the following:

FLEXIBLE SPRINKLER HOSE WITH THREADED END FITTINGS

FOR USE IN COMMERCIAL SUSPENDED CEILING

MODELS RD-SMB-01, RD-SMB-02, RD-SMB-03, RD-SMB-04 and RD-SMB-05

HOSE ASSEMBLY LENGTH 31, 39, 48, 60, 72 in. (780, 1000, 1220, 1540, 1830 mm)

Prepared for:

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To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in black ink that reads 'D B. Fuller'.

David B. Fuller
VP, Manager – Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
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Member of the FM Global Group

ATTACHMENT 2

Listings

Automatic Sprinkler Systems / Flexible Sprinkler Hose with Fittings / for Commercial Suspended Ceilings

for Commercial Suspended Ceilings

Flexible sprinkler hose with threaded end fittings are for use in commercial suspended ceilings. The flexible hoses are to be installed according to the manufacturer's directives.

Model RD-SMB-01

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-01	1/2	5.6	6-1/2 (165)	1	175 (1205)	31 (780)	23 (7.0)

RD-SMB-02

<i>Model</i>	<i>NPT/BSPT in..</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-02	1/2	5.6	6-1/2 (165)	3	175 (1205)	39 (1000)	31.4 (9.6)

RD-SMB-03

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-03	1/2	5.6	6-1/2 (165)	3	175 (1205)	48 (1220)	39.8 12.1)

RD-SMB-04

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-04	1/2	5.6	6-1/2 (165)	4	175 (1205)	60 (1540)	45.6 (13.9)

RD-SMB-05

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-05	1/2	5.6	6-1/2 (165)	4	175 (1205)	72 (1830)	50.9 (15.5)

RD-SMB-01

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-01	3/4	8.0	6-1/2 (165)	1	175 (1205)	31 (780)	16.8 (5.1)

RD-SMB-02

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-02	3/4	8.0	6-1/2 (165)	3	175 (1205)	39 (1000)	25.8 (7.9)

RD-SMB-03

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-03	3/4	8.0	6-1/2 (165)	4	175 (1205)	48 (1220)	34.8 (10.6)

RD-SMB-04

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-04	3/4	8.0	6-1/2 (165)	4	175 (1205)	60 (1540)	41.4 (12.6)

RD-SMB-05

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-05	3/4	8.0	6-1/2 (165)	4	175 (1205)	72 (1830)	47.3 (14.4)

RD-SMB-01

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-01	3/4	11.2	6-1/2 (165)	1	175 (1205)	31 (780)	17.7 (5.4)

RD-SMB-02

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-02	3/4	11.2	6-1/2 (165)	3	175 (1205)	39 (1000)	25.8 (7.9)

RD-SMB-03

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-03	3/4	11.2	6-1/2 (165)	3	175 (1205)	48 (1220)	33.5 (10.2)

RD-SMB-04

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-04	3/4	11.2	6-1/2 (165)	4	175 (1205)	60 (1540)	40.7 (12.4)

RD-SMB-05

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-05	3/4	11.2	6-1/2 (165)	4	175 (1205)	72 (1830)	47.2 (14.4)

RD-SMB-01

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-01	3/4	14	6-1/2 (165)	1	175 (1205)	31 (780)	18.4 (5.6)

RD-SMB-02

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-02	3/4	14	6-1/2 (165)	3	175 (1205)	39 (1000)	25.9 (7.9)

RD-SMB-03

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-03	3/4	14	6-1/2 (165)	4	175 (1205)	48 (1220)	33.4 (10.2)

RD-SMB-04

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k- Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-04	3/4	14	6-1/2 (165)	4	175 (1205)	60 (1540)	40.8 (12.4)

RD-SMB-05

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-05	3/4	14	6-1/2 (165)	4	175 (1205)	72 (1830)	47.6 (14.5)

90° Elbow outlet
RD-SMB-01

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-01	1/2	5.6	6-1/2 (165)	1	175 (1205)	31 (780)	27.2 (8.3)

90° Elbow outlet
RD-SMB-02

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-02	1/2	5.6	6-1/2 (165)	3	175 (1205)	39 (1000)	33.7 (10.2)

90° Elbow outlet
RD-SMB-03

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-03	1/2	5.6	6-1/2 (165)	3	175 (1205)	48 (1220)	40 (12.2)

90° Elbow outlet
RD-SMB-04

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-04	1/2	5.6	6-1/2 (165)	4	175 (1205)	60 (1540)	49.6 (15.1)

90° Elbow outlet
RD-SMB-05

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-05	1/2	5.6	6-1/2 (165)	4	175 (1205)	72 (1830)	58.4 (17.8)

90° Elbow outlet
RD-SMB-01

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-01	3/4	8.0	6-1/2 (165)	1	175 (1205)	31 (780)	22.8 (6.9)

90° Elbow outlet
RD-SMB-02

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-02	3/4	8.0	6-1/2 (165)	3	175 (1205)	39 (1000)	26.8 (8.1)

90° Elbow outlet
RD-SMB-03

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-03	3/4	8.0	6-1/2 (165)	3	175 (1205)	48 (1220)	30.9 (9.4)

90° Elbow outlet
RD-SMB-04

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-04	3/4	8.0	6-1/2 (165)	4	175 (1205)	60 (1540)	40.9 (12.5)

90° Elbow outlet
RD-SMB-05

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-05	3/4	8.0	6-1/2 (165)	4	175 (1205)	72 (1830)	49.9 (15.2)

90° Elbow outlet
RD-SMB-01

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-01	3/4	11.2	6-1/2 (165)	1	175 (1205)	31 (780)	22.6 (6.9)

90° Elbow outlet
RD-SMB-02

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-02	3/4	11.2	6-1/2 (165)	3	175 (1205)	39 (1000)	26.2 (7.9)

90° Elbow outlet
RD-SMB-03

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-03	3/4	11.2	6-1/2 (165)	3	175 (1205)	48 (1220)	29.9 (9.1)

90° Elbow outlet
RD-SMB-04

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-04	3/4	11.2	6-1/2 (165)	4	175 (1205)	60 (1540)	40.1 (12.2)

90° Elbow outlet
RD-SMB-05

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-05	3/4	11.2	6-1/2 (165)	4	175 (1205)	72 (1830)	49.4 (15)

90° Elbow outlet
RD-SMB-01

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-01	3/4	14	6-1/2 (165)	1	175 (1205)	31 (780)	21.9 (6.7)

90° Elbow outlet
RD-SMB-02

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-02	3/4	14	6-1/2 (165)	3	175 (1205)	39 (1000)	25.9 (7.9)

90° Elbow outlet
RD-SMB-03

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-03	3/4	14	6-1/2 (165)	4	175 (1205)	48 (1220)	30 (9.1)

90° Elbow outlet
RD-SMB-04

Model	NPT/BSPT in.	k- Factor	Minimum Bend Radius in. (mm)	Number of Bends	Rated Working Pressure psi (kPa)	Hose Assembly length in. (mm)	Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)
RD-SMB-04	3/4	14	6-1/2 (165)	4	175 (1205)	60 (1540)	41.1 (12.5)

90° Elbow outlet
RD-SMB-05

<i>Model</i>	<i>NPT/BSPT in.</i>	<i>k-Factor</i>	<i>Minimum Bend Radius in. (mm)</i>	<i>Number of Bends</i>	<i>Rated Working Pressure psi (kPa)</i>	<i>Hose Assembly length in. (mm)</i>	<i>Equivalent Length of 1 in. Schedule 40 Pipe, ft (m)</i>
RD-SMB-05	3/4	14	6-1/2 (165)	4	175 (1205)	72 (1830)	51.2 (15.6)

1 in. nominal diameter flexible metal hose for providing a connection to automatic sprinklers in T-Bar Grid commercial suspended ceilings. Approval is limited for use in commercial suspended ceilings with the following bracket systems manufactured by Rapidrop Global Ltd:

- **A1 Centre Bracket**
- A2A Centre Bracket
- ARF02 Centre Bracket
- B100Side Brackets pre-assembled with 600 mm (24 in.) bar
- **B7 and B11 side brackets for use with the 640, 1000 and 1240 mm (25, 39 and 48 inch) square bar**
- Strait Outlet, with 110 or 140 mm reducer
- 90° Elbow Reducer Small

The naming convention for these flexible hose model designations is as follows:

<i>Marking</i>	<i>Description</i>
RD	Rapidrop
SM	-
B	Braided
01	780 Hose Length in mm
02	1000 Hose Length in mm
03	1220 Hose Length in mm
04	1540 Hose Length in mm
05	1830 Hose Length in mm