Reliable

Product Description

RASCOFLEX® Sprinkler Connections are intended to connect a branch line to a sprinkler using a flexible stainless steel hose assembly. RASCOFLEX® Sprinkler Connections are suitable for use in suspended and hard ceiling applications such as T-Bar ceiling grids, wood, metal stud, or hat furring channel hard lid ceilings.

RASCOFLEX® Sprinkler Connections are designed for use in hydraulically calculated wet, preaction, or dry sprinkler systems per NFPA 13, 13R, 13D, and FM Global Loss Prevention Data Sheets.

RASCOFLEX® Model RFBW Sprinkler Connections feature inlet and outlet adapters that are welded to the stainless steel flexible tube.

Technical Data Table A				
Maximum Wo	rking Pressure	FM: 200 psi (13.8 bar) UL: 175 psi (12.1 bar)		
Maximum Work	ing Temperature	300°F (149°C)		
Connections	Inlet/Branch Line	1" NPT		
	Outlet/Reducer	1/2" or 3/4" NPT		
Minimum Be	ending Radius	UL: 2" (51 mm) FM: 7" (178 mm)		
Maximum Nu	mber of Bends	See Friction Loss Chart		
Maximum K-Factor	1/2" Outlet	5.6 (80 metric)		
	3/4" Outlet	14.0 (200 metric)		

Maintenance

RASCOFLEX® Sprinkler Connections should be inspected and the sprinkler system maintained in accordance with NFPA 25, as well as the requirements of any Authorities Having Jurisdiction.

Patents

RASCOFLEX® Sprinkler Connections may be covered by one or more of the following US Patent Nos. 10,173,088 and 10.328,296.

Listings and Approvals

FM Approved Class No. 1637 (FM)

UL Listed and UL Certified for Canada to ANSI/UL 2443 (cULus)

RASCOFLEX® Model RFBW Sprinkler Connections with Welded Adapters

cULus Listed, FM Approved



RASCOFLEX® Model RFBW Sprinkler Connections

Ordering Information

Specify:

Model Name

Model RFBW

Nominal Hose Length

- 24" (610 mm)
- 31" (790 mm)
- 40" (1015 mm)
- 48" (1220 mm)
- 60" 1525 mm)
- 72" (1830 mm)

Reducer Outlet: 1/2" NPT or 3/4" NPT

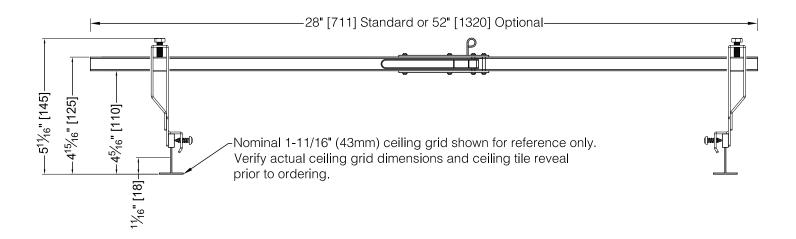
Bracket Assembly Length

- 24" (610 mm) standard
- 48" (1220 mm) optional

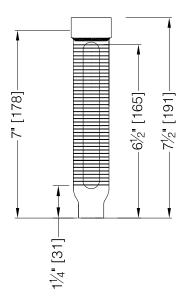
Accessories

• See Table F

Bracket Dimensions Figure 1

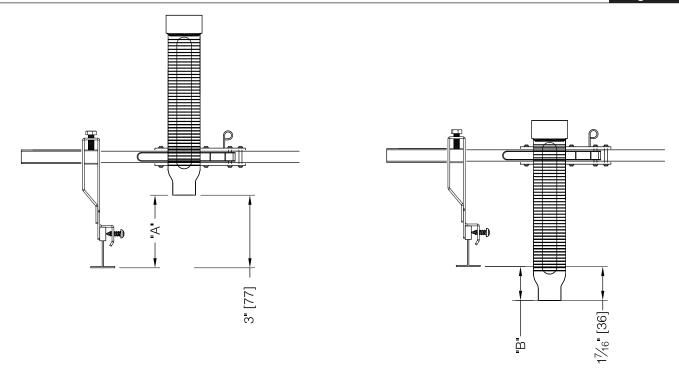


Reducer Dimensions Figure 2



7" (178mm) Straight

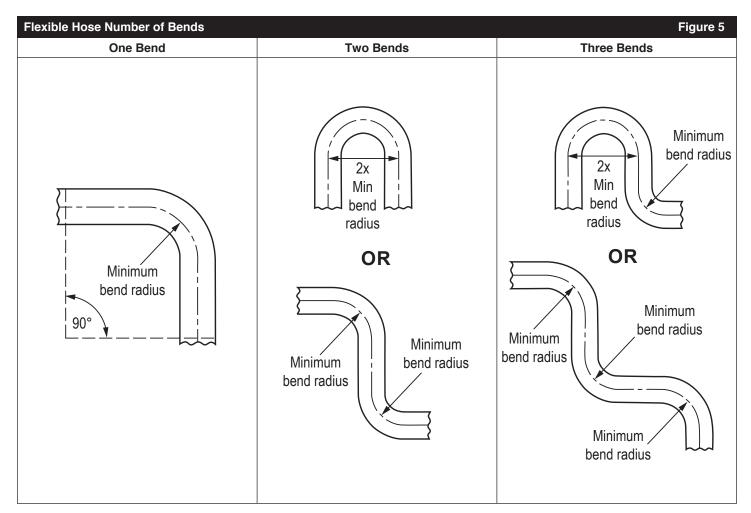
Installation Dimensions Figure 3



inimum and Maximum Face of Fitting to Bottom of Ceiling Grid		
	7" (178 mm) Straight	
Fig. 3 Dimension A Max. Face of Fitting Distance above Bottom of Ceiling Grid	4" (102 mm)	
Fig. 3 Dimension B Max. Face of Fitting Distance from Bottom of Ceiling Grid	1-7/16" (36 mm) below	

Note: Based on 1-11/16" (43mm) tall ceiling grid.

Materials			Figure 4
Number	Item Description	Material	0
1	Flexible Hose/Bellow	AISI Type 304 Stainless Steel	
2	Braid	AISI Type 304 Stainless Steel	3 2
3	Branch Line Nipple (1")	AISI Type 304 Stainless Steel	4-
4	Welded Collar Fitting	AISI Type 304 Stainless Steel	5 →
5	Reducer	AISI Type 304 Stainless Steel	



Note: Do NOT install RASCOFLEX Sprinkler Connections with the flexible hose pulled straight or tight. Some flexibility in the form of an allowable bend or bends must be provided.





Table D **cULus Friction Loss Data**

Nominal Length of Flexible Hose in (mm)	Reducer		Maximum Sprinkler	Maximum Number of	Equivalent Length of 1" (33.7mm)
	NPT Threads	Туре	K-Factor gpm/psi ^{1/2} (lpm/bar ^{1/2})	90° Bends at 2" (51 mm) Bend Radius	Sch. 40 Pipe (C=120), ft (m)
24 (610)	1/2	Straight	5.6 (80)	2	11 (3.4)
	3/4	Straight	14.0 (200)	2	14 (4.3)
31	1/2	Straight	5.6 (80)	4	18 (5.5)
(790)	3/4	Straight	14.0 (200)	4	22 (6.7)
40	1/2	Straight	5.6 (80)	5	25 (7.6)
(1015)	3/4	Straight	14.0 (200)	5	29 (8.8)
48 (1220)	1/2	Straight	5.6 (80)	8	37 (11.3)
	3/4	Straight	14.0 (200)	8	43 (13.1)
60 (1525)	1/2	Straight	5.6 (80)	10	48 (14.6)
	3/4	Straight	14.0 (200)	10	51 (15.5)
72	1/2	Straight	5.6 (80)	12	52 (15.8)
(1830)	3/4	Straight	14.0 (200)	12	55 (16.8)

UL Notes:

- Available data for use with 7" straight reducers.
 RASCOFLEX® Sprinkler Connections have been tested and approved by Underwriter's Laboratories, Inc. for use in wet, preaction, and dry sprinkler systems per NFPA 13, 13D, 13R and UL2443.





Nominal Length of Flexible Hose in (mm)	Reducer		Maximum Sprinkler K-Factor	Maximum Number of 90° Bends at 7"	Equivalent Length of 1" (33.7mm)
	NPT Threads	Туре	gpm/psi ^{1/2} (lpm/bar ^{1/2})	(178mm) Bend Radius	Sch. 40 Pipe (C=120), ft (m)
24	1/2	Straight	5.6 (80)	1	9.7 (2.9)
	3/4 Straight		8.0 (115)	1	9.9 (3)
(610)		Straight	11.2 (160)	1	9.8 (2.9)
		14.0 (200)	1	9.6 (2.9)	
	1/2	Straight	5.6 (80)	2	12.4 (3.8)
31	3/4 Straight		8.0 (115)	2	13.7 (4.1)
(790)		Straight	Straight 11.2 (160)	2	12.9 (3.9)
		14.0 (200)	2	12.2 (3.7)	
	1/2	Straight	5.6 (80)	2	15.9 (4.8)
40	3/4 Straight		8.0 (115)	2	18.5 (5.6)
(1015)		Straight	11.2 (160)	2	17.4 (5.3)
		14.0 (200)	2	16.3 (4.9)	
48 (1220)	1/2	Straight	5.6 (80)	3	19.0 (5.8)
	3/4 Straight		8.0 (115)	3	22.7 (6.9)
		11.2 (160)	3	21.5 (6.5)	
			14.0 (200)	3	20.5 (6.2)
	1/2	Straight	5.6 (80)	4	23.7 (7.2)
60	3/4 Straight		8.0 (115)	4	29.1 (8.8)
(1525)		Straight	11.2 (160)	4	28 (8.5)
		14.0 (200)	4	27 (8.2)	
	1/2	Straight	5.6 (80)	4	28.4 (8.6)
72	3/4 Straight		8.0 (115)	4	35.5 (10.8)
(1830)		Straight	11.2 (160)	4	34.3 (10.4)
		14.0 (200)	4	33.2 (10.1)	

FM Notes:



^{1.} RASCOFLEX® Sprinkler Connections have been tested and approved by FM Approvals for use in wet, preaction, and dry sprinkler systems per FM data sheets 2-0, 2-5, and 2-8 per FM1637.

^{2.} Differences in equivalent lengths are due to varying test methods, per FM 1637 standards.

^{3.} Above data of friction loss for use with 7" straight reducers.

Accessories List Table F



Hat Channel End Bracket- Short 3" (76mm) 7M99003310



Hat Channel End Bracket- Long 3-3/4" (95mm) 7M99003311



Metal Stud End Bracket-Short 1-1/2" (38mm) 7M99003312



Metal Stud End Bracket- Long 2-1/16" (53mm) 7M99003313



T-Bar End Bracket-Short 2-5/8" (68mm) 7M99003314



T-Bar End Bracket-Long 4-1/8" (105mm) 7M99003316



Wood Beam Stud End Bracket 7M99003317



Replacement Center Bracket 7M99003321



2" (50 mm) Bend Radius Indicator 7M99004179



#2 Square Drive Bit 7M99004539



48" (1220mm) Bracket Assembly 7M99004840

