

VicFlex™ Sprinkler Fittings

Series AH2-300 and AH2-CC-300

Braided Flexible Hose Assemblies



1.0 PRODUCT DESCRIPTION

Available Sizes by Component

- **Series AH2-300 1"/DN25 Nominal ID Braided Hose:** 31"/790 mm, 36"/915 mm, 48"/1220 mm, 60"/1525 mm, 72"/1830 mm Note: length includes adapter nipple and 5.75"/146 mm straight reducer.
- **AH2-CC-300 1"/DN25 Nominal ID Braided Hose:** 31"/790 mm, 36"/915 mm, 48"/1220 mm, 60"/1525 mm, 72"/1830 mm Note: length includes branch-line nipple and 5.75"/146 mm straight reducer.

Connections

- **From Branchline**
 - 1"/25 mm NPT or BSPT Female Thread
 - 1"/25 mm Grooved IGS (Refer to [Publication 10.54](#) for additional IGS connections.)
 - No. 116 CPVC Adapter (1"/25 mm Female CPVC Socket × 1"/25 mm Grooved IGS)
 - No. 142 Welded Outlet
 - Style 922 Outlet-T
 - Style 920N Mechanical-T Outlet
 - No. 65 Grooved End of Run Fitting
- **Hose Inlet**
 - 1"/25 mm Grooved IGS
 - 1"/25 mm NPT or BSPT Male Thread
- **Sprinkler Reducer**
 - Sprinkler Connection: ½"/15 mm and ¾"/20 mm NPT or BSPT Female Thread
 - Straight Lengths: 5.75"/146 mm, 9"/230 mm, 13"/330 mm
 - 90° Elbows: Short elbows typically used with concealed sprinklers; Long elbows typically used with recessed pendent sprinklers.
 - Standard Short
 - Standard Long

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

1.0 PRODUCT DESCRIPTION (CONTINUED)

Brackets

- Style AB2 for suspended and hard-lid ceilings and sidewalls: allows for vertical sprinkler adjustment and installation before most ceiling tiles in place
- Style AB3 for surface mount applications: wood, metal and block walls, or ceilings
- Style AB4 for hard-lid ceilings with hat furring channel grid systems: allows for vertical sprinkler adjustment
- Style AB5 for hard-lid ceilings and sidewalls: allows for vertical sprinkler adjustment
- Style AB7 / Adjustable AB7 for suspended and hard-lid ceilings
- Style AB10 for Armstrong® TechZone™ ceilings
- Style AB12 for suspended and hard-lid ceilings: allows for vertical sprinkler adjustment, and allows for low-profile installation down to 4"/100mm
- Style ABBA bracket for suspended, exposed, and hard-lid ceilings
- Style ABMM bracket for surface mount and stand off-mount applications: wood, metal and block walls, or ceilings and hard-lid ceilings
- Strut channel and pipe clamp, not supplied by Victaulic

Maximum Working Temperature

- 225°F/107°C (FM)
- 150°F/65°C (UL)

Maximum Working Pressure

- 300 psi/2068 kPa

Connections

- To adapter nipple (inlet) via
 - 1"/25.4 mm Grooved IGS
 - 1"/25.4 mm NPT or BSPT Male Thread
- To sprinkler head (outlet) via ½" or ¾"/15 mm or 20 mm

Minimum Bend Radius

- 8"/203 mm (FM)
- 3"/76 mm (UL)

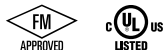
Maximum Number of Bends per Flexible Drop

- See [Section 5.0](#)

Maximum Allowable Sprinkler K-Factors

- FM (½"/15 mm reducer) K5.6/8.1 (S.I.), (¾"/20 mm reducer) K14.0/20.2 (S.I.)
- cULus (½"/15 mm reducer) K8.0/11.5 (S.I.), (¾"/20 mm reducer) K14.0/20.2 (S.I.)

2.0 CERTIFICATIONS/LISTINGS



3.0 SPECIFICATIONS – MATERIAL

Series AH2-300:

Flexible Hose: 300-Series Stainless Steel
Collar/Weld Fitting: 300-Series Stainless Steel
Gasket Seal: Victaulic EPDM
Isolation Ring: Nylon
Nut and Nipple: Carbon Steel, Zinc-Plated
Reducers (½ or ¾"): Carbon Steel, Zinc-Plated
Brackets: Carbon Steel, Zinc-Plated

Series AH2-CC-300

Flexible Hose: 300-Series Stainless Steel
Collar/Weld Fitting: 300-Series Stainless Steel
Gasket Seal: Victaulic EPDM
Isolation Ring: Nylon
Coupling Retainer Ring: Polyethylene
Nut and Nipple: Carbon Steel, Zinc-Plated
Reducer (½"/15 mm or ¾"/20 mm): Carbon Steel, Zinc-Plated
Housing: Ductile Iron conforming to ASTM A 536, Grade 65-45-12.
Ductile Iron conforming to ASTM A 395, Grade 65-45-15, is available upon special request.

Coupling Housing Coating:

- Orange Enamel (North America, Asia Pacific)
- Red Enamel (Europe)
- Hot Dipped Galvanized

Gasket¹:

Grade "E" EPDM (Type A) *Vic-Plus* Pre-lubricated Gasket

EPDM (Violet Color Code). Applicable for wet and dry (oil-free air) fire protection systems only. Listed/Approved for continuous use in wet and dry systems. Listed/Approved for dry systems at -40°F/-40°C and above.
NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES OR STEAM SERVICES.

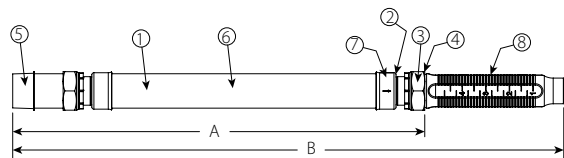
¹ Services listed are General Service Guidelines only. It should be noted that there are services for which these gaskets are not compatible. Reference should always be made to the latest [Victaulic Seal Selection Guide](#) for specific gasket service guidelines and for a listing of services which are not compatible.

Bolts/Nut: Zinc electroplated carbon steel, trackhead meeting the physical and chemical requirements of ASTM A 449 and physical requirements of ASTM A 183

Linkage: CrMo Alloy Steel zinc electroplated per ASTM B633 Fe/Zn 5, Type III Finish

4.0 DIMENSIONS

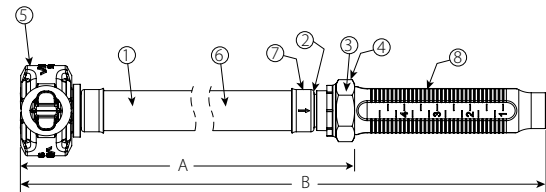
Product Details - Series AH2-300 Braided Hose



Item	Description
1	Flexible Hose
2	Isolation Ring
3	Gasket
4	Nut
5	Adapter Nipple
6	Braid
7	Collar/Weld Fitting
8	Reducer

Hose	Dimensions	
Series	A inches mm	B inches mm
AH2-300-31	25.6 650	31.0 790
AH2-300-36	30.6 777	36.0 915
AH2-300-48	42.6 1082	48.0 1220
AH2-300-60	54.6 1387	60.0 1525
AH2-300-72	66.6 1692	72.0 1830

Series AH2-CC-300 Braided Hose

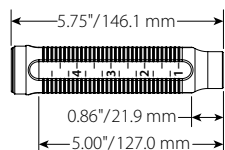


Item	Description
1	Flexible Hose
2	Isolation Ring
3	Gasket
4	Nut
5	Captured Coupling
6	Braid
7	Collar/Weld Fitting
8	Reducer

Hose	Dimensions	
Series	A inches mm	B inches mm
AH2-CC-300-31	24.5 622	29.8 760
AH2-CC-300-36	29.5 749	34.8 885
AH2-CC-300-48	41.5 1054	46.8 1190
AH2-CC-300-60	53.5 1359	58.8 1495
AH2-CC-300-72	65.5 1664	70.8 1800

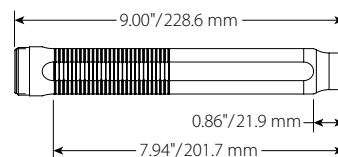
4.1 DIMENSIONS

Standard Reducer



5.75" Straight Reducer

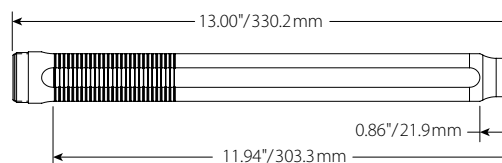
Optional Reducers



9.0" Straight Reducer

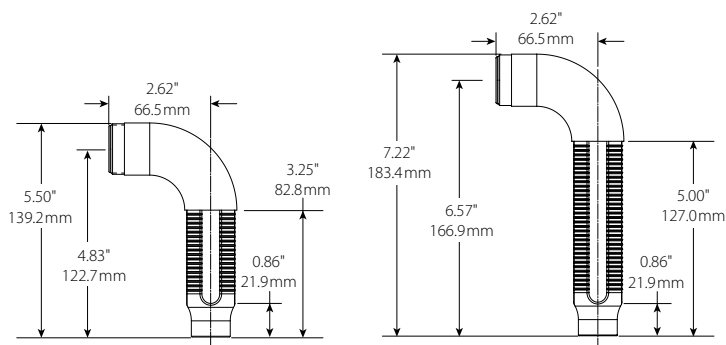
NOTE

- The center bracket can be installed anywhere along the flats of the reducer, not just the ribbed portion.
- The optional Straight Reducers are FM Approved only.



13.0" Straight Reducer

Standard Elbow Reducers



Short 90°
Elbow Reducer

Long 90°
Elbow Reducer

NOTES

- The Short 90° Elbow Reducer is typically used with concealed sprinklers while the Long 90° Elbow Reducer is typically used in the installation of recessed pendent sprinklers.
- FM Approved only

4.2 DIMENSIONS

VicFlex™ Brackets

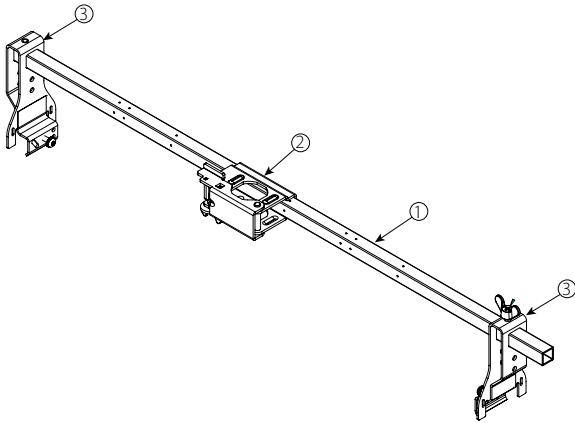
Style AB2

- Suspended Ceilings
- Hard-Lid Ceilings

Item	Description
1	24"/610 mm or 48"/1219 mm Square Bar
2	Patented Vertically Adjustable Center Bracket
3	End Bracket

NOTE

- Both sizes UL/FM Approved

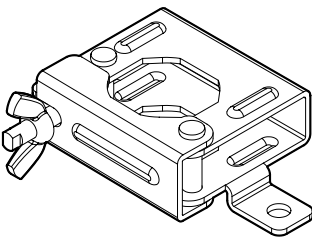


Style AB3

- Surface Mount Applications

NOTE

- FM Approved



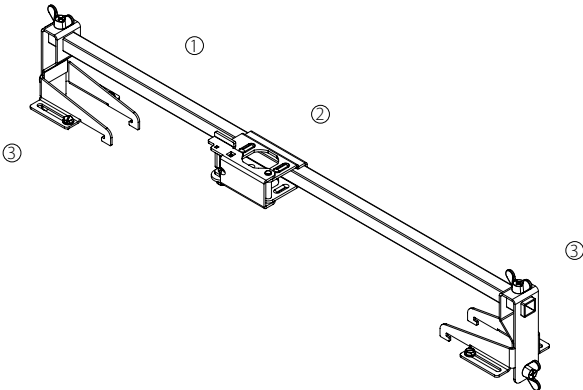
Style AB4

- Hard-Lid Ceilings with Hat Furring Channel Grid System

Item	Description
1	24"/610 mm or 48"/1219 mm Square Bar
2	Patented Vertically Adjustable Center Bracket
3	Adjustable End Bracket for Hat Furring Channel

NOTE

- FM Approved



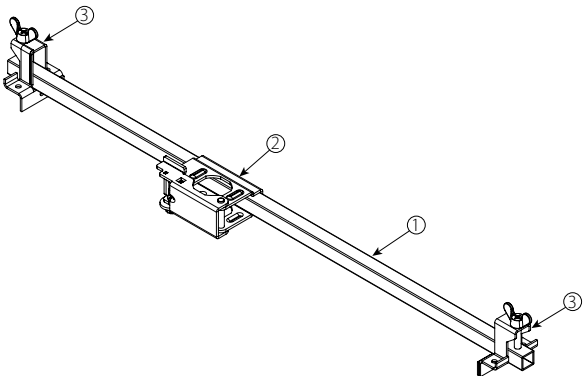
Style AB5

- Hard-Lid Ceilings

Item	Description
1	24"/610 mm or 48"/1219 mm Square Bar
2	Patented Vertically Adjustable Center Bracket
3	End Bracket

NOTE

- FM Approved



4.2 DIMENSIONS (CONTINUED)

VicFlex™ Brackets

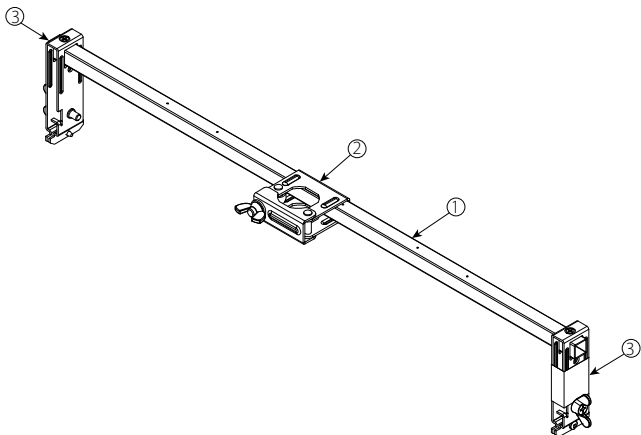
Style AB7

- Suspended Ceilings
- Hard-Lid Ceilings

Item	Description
1	24"/610 mm or 48"/1219 mm Square Bar
2	1-Bee2™ Center Bracket
3	End Bracket

NOTE

- FM Approved



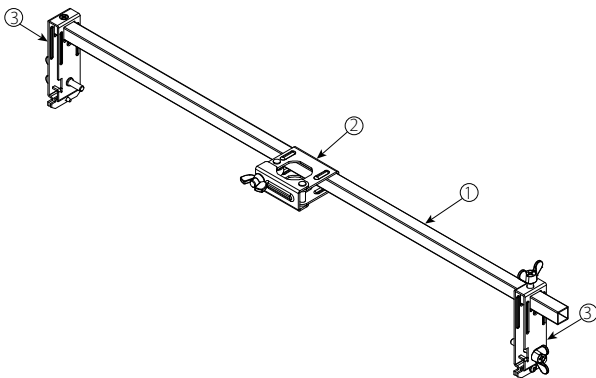
Style AB7 Adjustable

- Suspended Ceilings
- Hard-Lid Ceilings

Item	Description
1	700 mm or 1400 mm Square Bar
2	1-Bee2™ Center Bracket
3	End Bracket (adjustable)

NOTE

- FM Approved



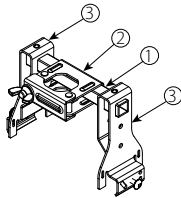
Style AB10

- Suspended Ceilings
- Armstrong® TechZone™

Item	Description
1	6"/152 mm Square Bar
2	1-Bee2™ Center Bracket
3	End Bracket

NOTE

- FM Approved



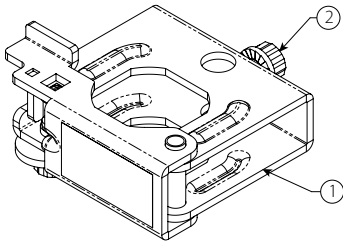
Style AB12

- Suspended Ceilings
- Hard-Lid Ceilings

Item	Description
1	Style AB12 Bracket Body
2	T25 Drive Set Screw

NOTE

- FM Approved



4.2 DIMENSIONS (CONTINUED)

VicFlex™ Brackets

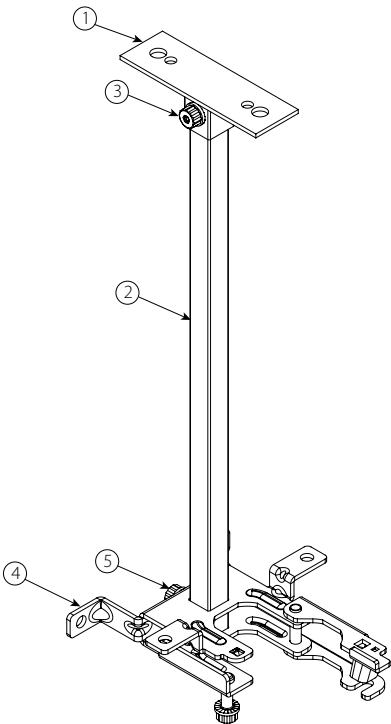
Style ABBA

- Floor-Above Mount
- Cantilever Mount
- Temporary Mount in Exposed Ceilings

Item	Description
1	Style ABBA Mounting Plate
2	Style ABBA Square Bar
3	Cap Screw, Serrated Flange, M6 x 1 x 20, T25 Torx Drive Recessed
4	Style ABMM Bracket Body
5	Cap Screw, Serrated Flange, M6 x 1 x 15.24, T25 Torx Drive Recessed

NOTE

- FM Approved



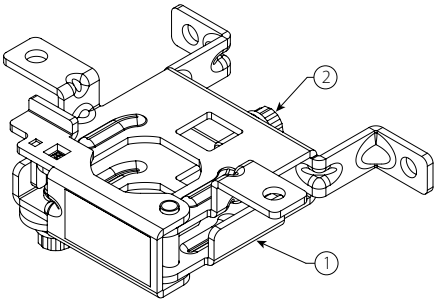
Style ABMM

- Surface Mount
- Stand-off Mount

Item	Description
1	Style ABMM Bracket Body
2	Cap Screw, Serrated Flange, M6 x 1 x 15.24, T25 Torx Drive Recessed

NOTE

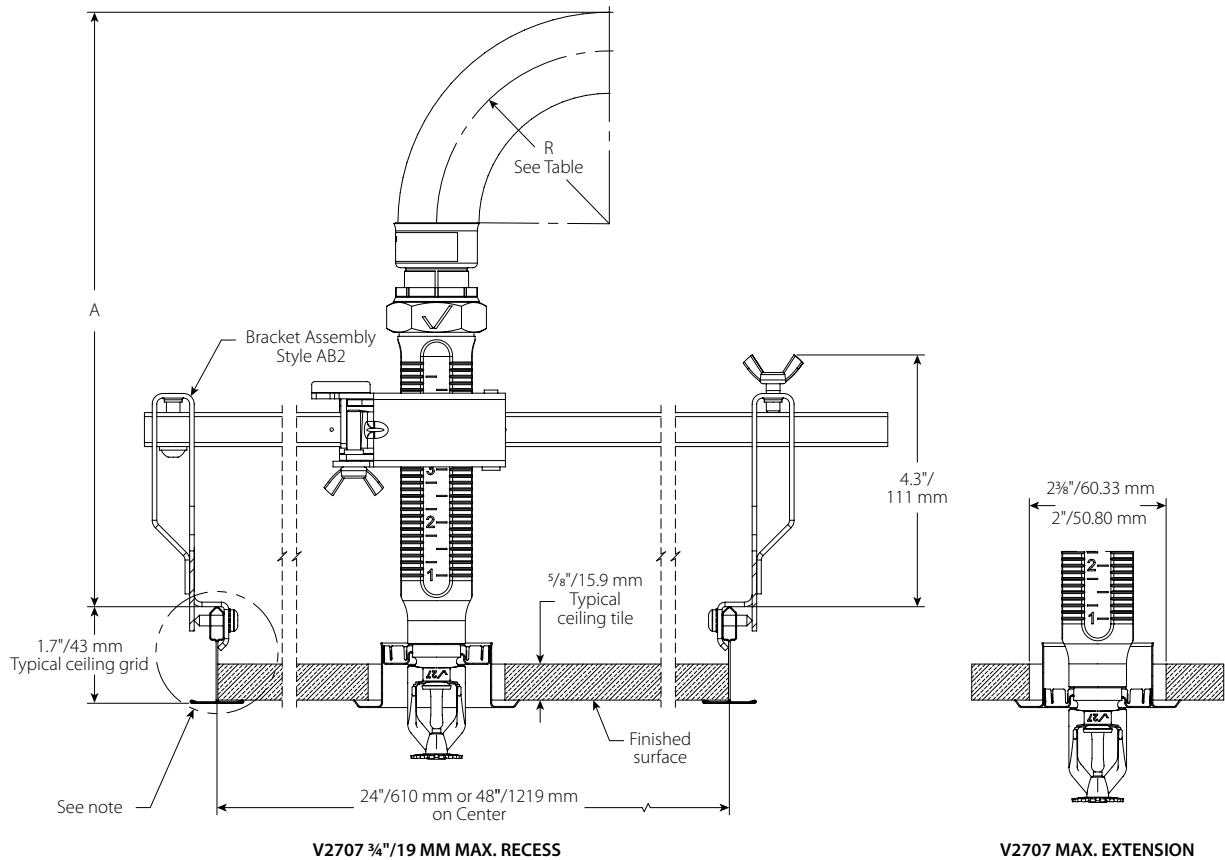
- FM Approved



4.3 DIMENSIONS

Clearances

Series AH2-300 Braided Hose and Style AB2 Bracket with Suspended T-Grid Ceilings



Dimension		Hose Clearance					
		Straight Reducer				Long Elbow	Short Elbow
		V2707 3/4" Max Recess inches mm	V3802 1/2" Max Recess inches mm	V2707 3/4" Max Recess inches mm	V3802 1/2" Max Recess inches mm	V2707 3/4" Max Recess inches mm	V3802 1/2" Max Recess inches mm
R	Bend Radius	3.0 76		8.0 203		—	
A	Minimum Required Installation Space	9.6 244	11.1 282	14.6 371	16.1 409	5.8 147	5.8 147

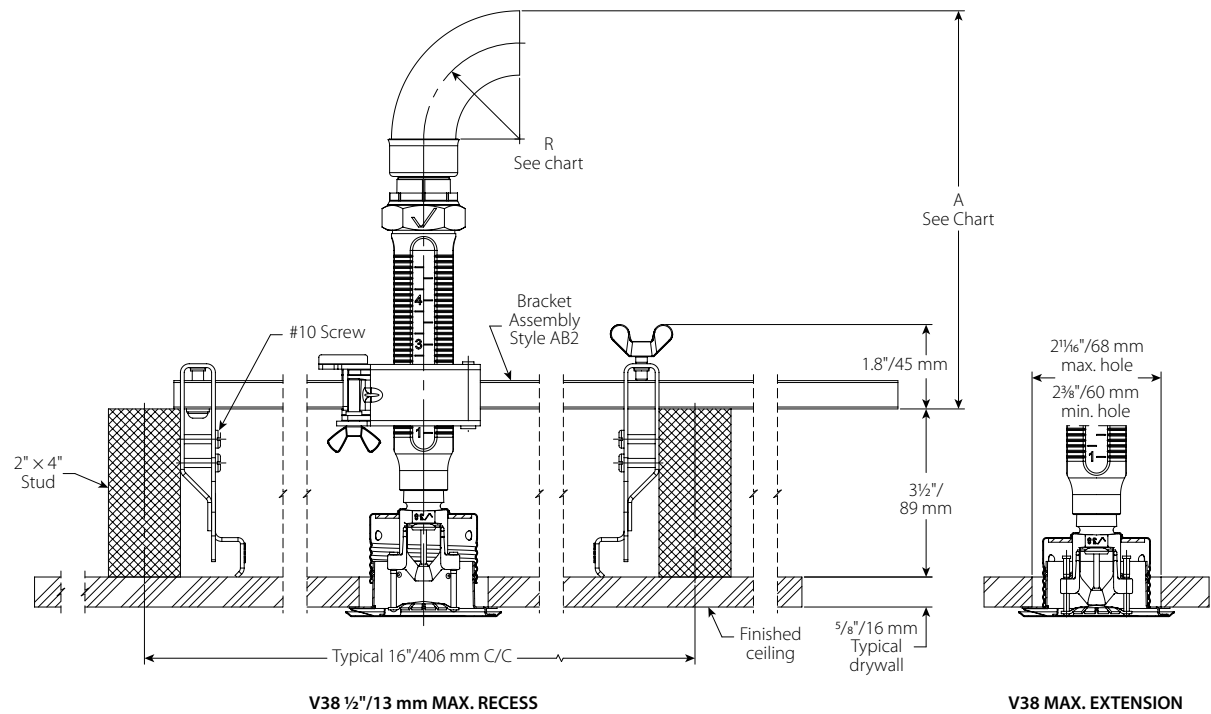
NOTE

- Variations of ceiling grids, sprinkler heads, brackets, and hoses are permitted but may result in clearance differences from the figures above.

4.4 DIMENSIONS

Clearances

Series AH2-300 Braided Hose and Style AB2 Bracket with Wood/Metal Joist Ceilings



Dimension		Hose Clearance								
		Straight Reducer						Long Elbow		Short Elbow
		V2707 ¾" / 20 mm Max Recess inches mm	V3802 ½" / 13 mm Max Recess inches mm	V2709 ¾" / 20 mm Sidewall inches mm	V2707 ¾" / 20 mm Max Recess inches mm	V3802 ½" / 13 mm Max Recess inches mm	V2709 ¾" / 20 mm Sidewall inches mm	V2707 ¾" / 20 mm Max Recess inches mm	V2709 ¾" / 20 mm Sidewall inches mm	V3802 ½" / 13 mm Max Recess inches mm
R	Bend Radius	3.0 76			8.0 203			—		
A	Minimum Required Installation Space	7.2 183	8.6 218	7.1 180	12.2 310	13.6 345	12.1 307	3.3 84	3.6 91	3.3 84

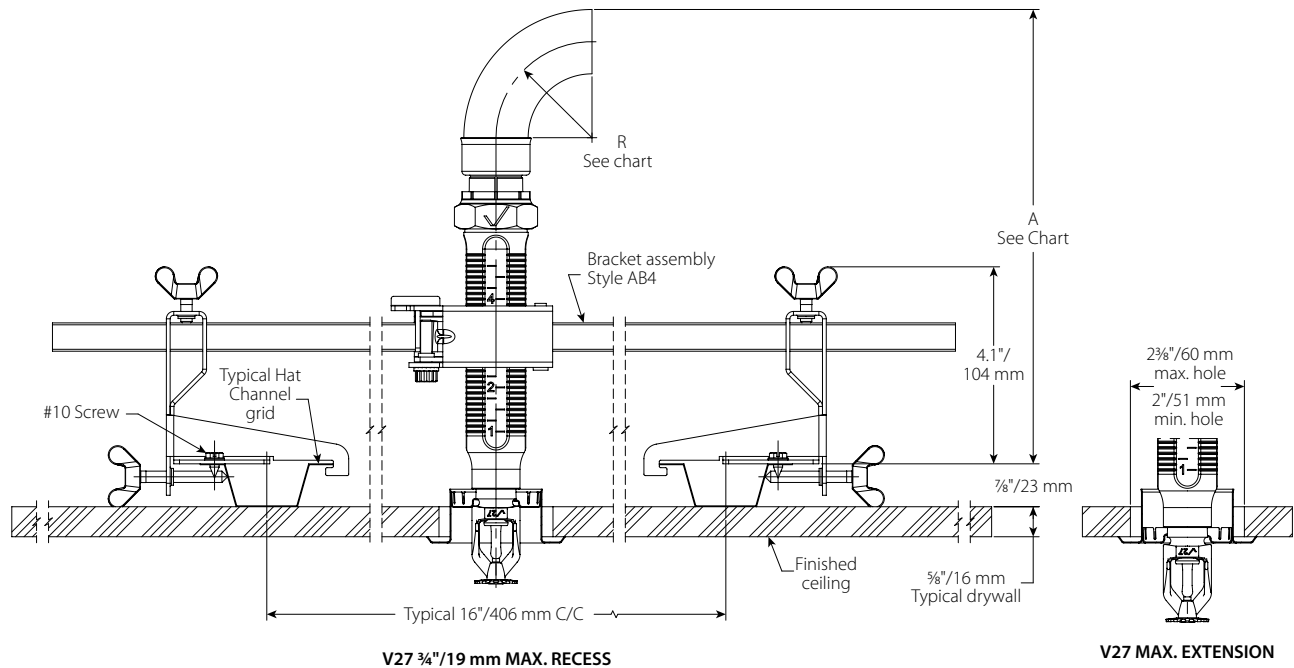
NOTE

- Variations of ceiling grids, sprinkler heads, brackets, and hoses are permitted but may result in clearance differences from the figures above.

4.5 DIMENSIONS

Clearances

Series AH2-300 Braided Hose and Style AB4 Bracket with Hat Furring Channel Ceiling



Dimension		Hose Clearance			
		Straight Reducer		Long Elbow	Short Elbow
		V27 Pendent inches mm	V38 inches mm	V27 Pendent inches mm	V38 inches mm
R	Bend Radius	8.0 203		—	
A	Minimum Required Installation Space	14.8 376	16.2 411	8.0 203	5.9 150

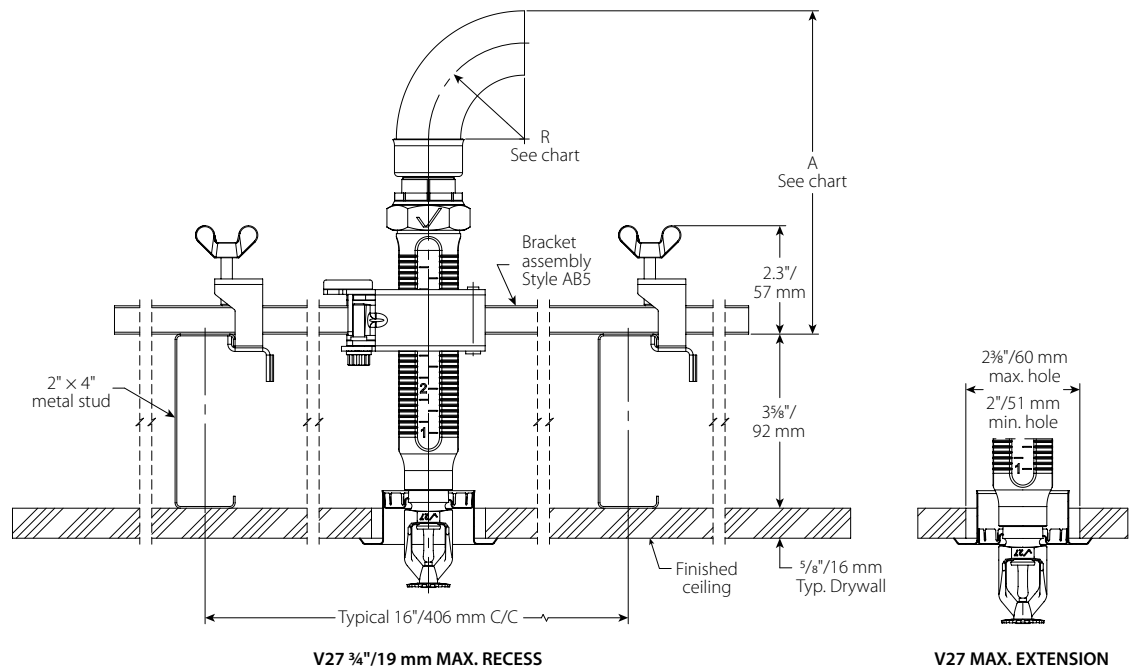
NOTE

Variations of ceiling grids, sprinkler heads, brackets, and hoses are permitted but may result in clearance differences from the figures above.

4.6 DIMENSIONS

Clearances

Series AH2-300 Braided Hose and Style AB5 Bracket with Metal Joist Ceiling



Dimension		Hose Clearance						
		Straight Reducer			Long Elbow			Short Elbow
		V2707 3/4" / 20 mm Max Recess inches mm	V3802 1/2" / 13 mm Max Recess inches mm	V2709 3/4" / 20 mm Sidewall inches mm	V2707 3/4" / 20 mm Max Recess inches mm	V3802 1/2" / 13 mm Max Recess inches mm	V2709 3/4" / 20 mm Sidewall inches mm	V3802 1/2" / 13 mm Max Recess inches mm
R	Bend Radius	8.0 203			—			—
A	Minimum Required Installation Space	12.0 305	13.7 348	12.1 307	3.5 89	4.9 124	3.6 91	3.3 84

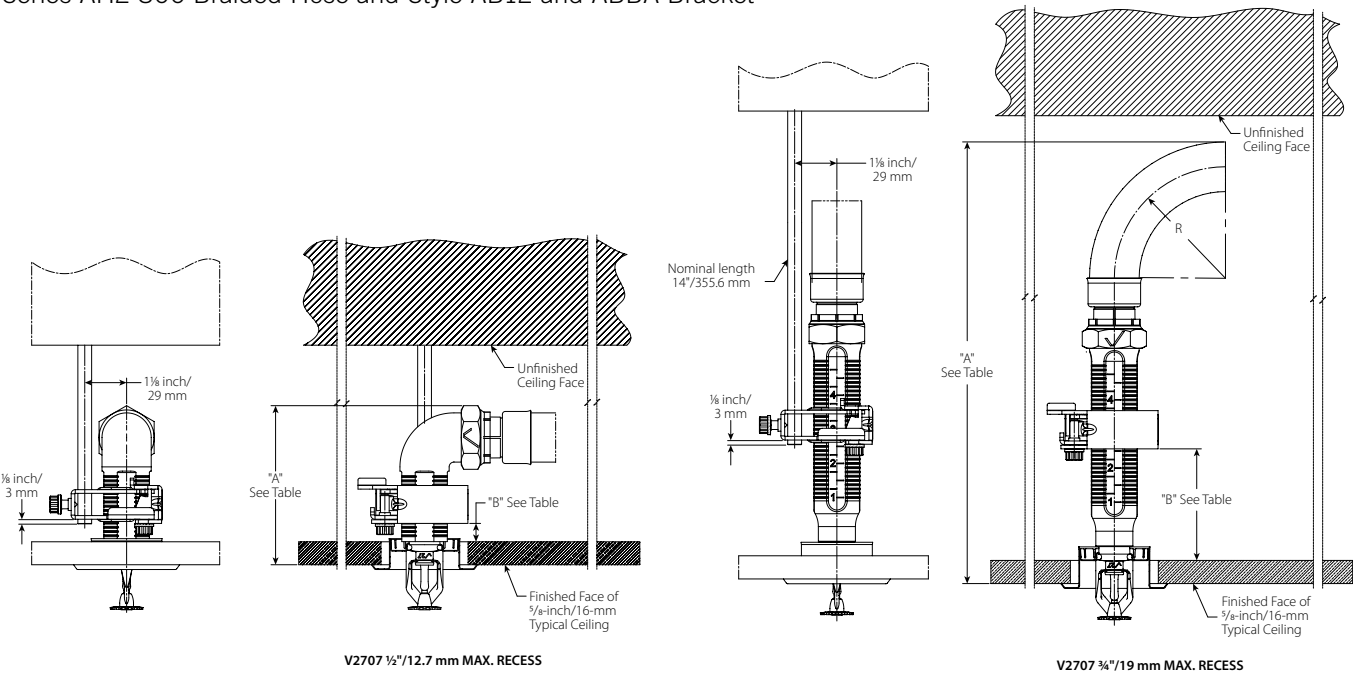
NOTE

- Variations of ceiling grids, sprinkler heads, brackets, and hoses are permitted but may result in clearance differences from the figures above.

4.7 DIMENSIONS

Clearances

Series AH2-300 Braided Hose and Style AB12 and ABBA Bracket



Dimension		Hose Clearance					
		Standard Short Elbow		Standard Long Elbow		Standard Straight Reducer	
		3/4" / 19 mm Recessed inches mm	Concealed inches mm	3/4" / 19 mm Recessed inches mm	Concealed inches mm	3/4" / 19 mm Recessed inches mm	Concealed inches mm
R	Bend Radius	—		—		8.0 203	
A	Minimum Required Installation Space	5.9 149.9	7.5 190.5	7.7 195.6	9.3 236.2	16.0 406.4	17.6 447.0
B	Distance from Top of Typical Ceiling Tile to Bottom of Gate	1.5 38.1	1.5 38.1	3.0 76.2	3.0 76.2	4.0 101.6	4.0 101.6

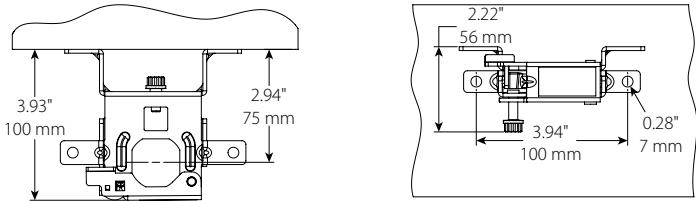
NOTE

- For Style AB12 Bracket Sprinkler location relative to 3/8" threaded rod is 1 1/8"/29 mm center-to-center.
- Variations of ceiling grids, sprinkler heads, brackets, and hoses are permitted but may result in clearance differences from the figures above.

4.8 DIMENSIONS

Stand-off Dimensions

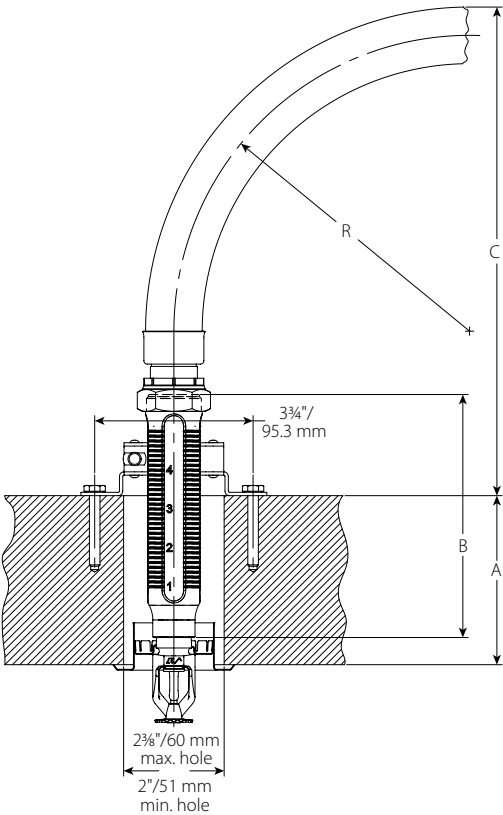
Style ABMM Bracket



4.9 DIMENSIONS

Clearances

Series AH2-300 Braided Hose and Style AB3 and ABMM Bracket for Surface Mount Application



Dimension		Hose Clearance									
		inches mm									
R	Bend Radius	8 203									
A	Wall Thickness	2 50	4 100			6 150		8 203	10 250		
B	Outlet Length	5.75 146.1	9 228.6	13 330.2	5.75 146.1	9 228.6	13 330.2	9 228.6	13 330.2	13 330.2	13 330.2
C	Distance from Top of Ceiling to Top of Hose	12.6 319	15.8 402	19.8 503	10.6 268	13.8 351	17.8 452	11.8 300	15.8 402	13.8 351	11.8 300

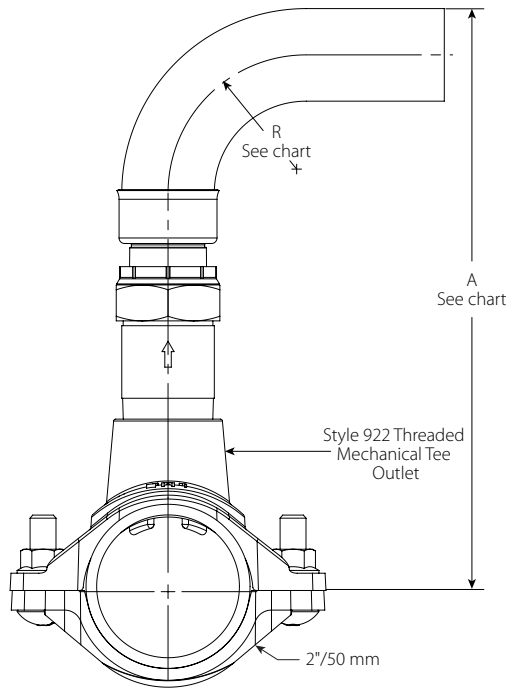
NOTES

- Variations of ceiling grids, sprinkler heads, brackets, and hoses are permitted but may result in clearance differences from the figures above.
- See installation instructions for mounting screw type and size.

4.10 DIMENSIONS

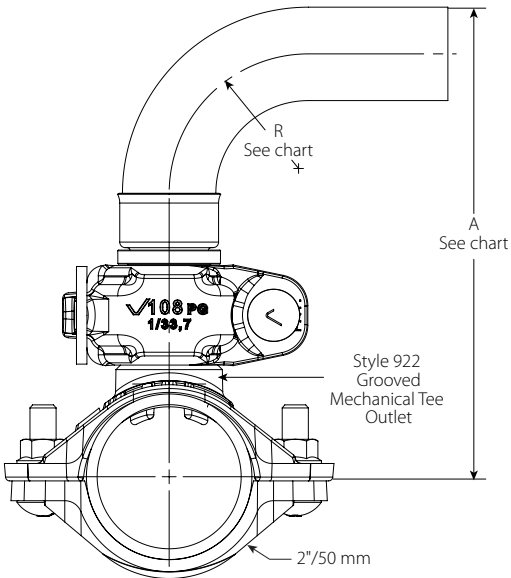
Branchline Clearances

Series AH2-300 Braided Hose with Style 922 Threaded Outlet



Dimension		Hose Clearance	
		inches	mm
R	Bend Radius	3 76	8.0 203
A	Min.	9.4 239	14.4 366

Series AH2-CC-300 Braided Hose with Style 922 Grooved Outlet

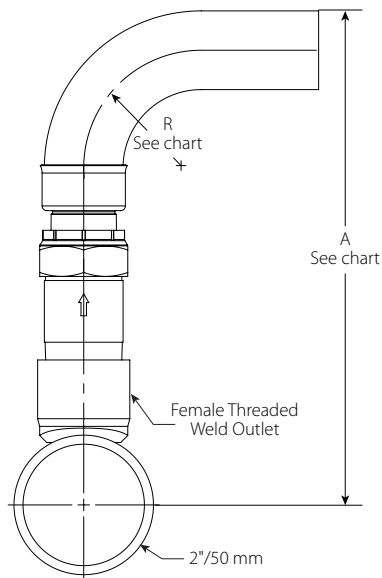


Dimension		Hose Clearance	
		inches	mm
R	Bend Radius	3 76	8.0 203
A	Min.	7.7 197	12.7 323

4.11 DIMENSIONS

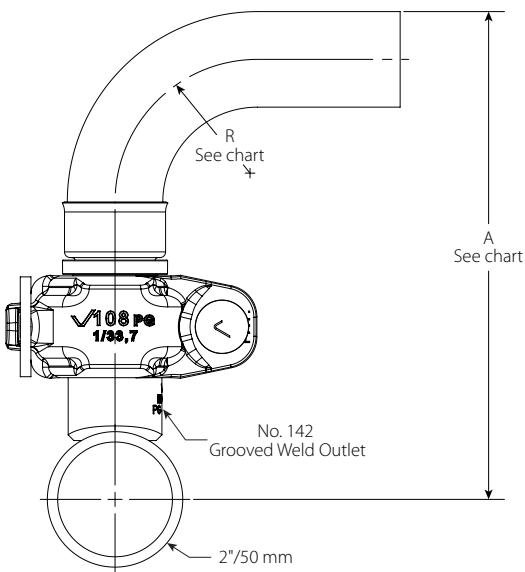
Branchline Clearances

Series AH2-300 Braided Hose with Female Threaded Outlet



Dimension		Hose Clearance	
		inches	mm
R	Bend Radius	3.0 76	8.0 203
A	Min.	9.4 239	14.4 366

Series AH2-CC-300 Braided Hose with Grooved Outlet



Dimension		Hose Clearance	
		inches	mm
R	Bend Radius	3.0 76	8.0 203
A	Min.	8.1 206	13.1 333

5.0 PERFORMANCE – FRICTION LOSS DATA



Series AH2-300 and AH2-CC-300 Braided Hoses
Style AB2 VicFlex™ Brackets

Hose Length inches mm	Reducer Type	Nominal Outlet Size inches mm	UL	
			Equivalent Length of 1"/DN25 Sch. 40 Steel Pipe (C-120) feet meters	Maximum Number of 90° Bends at 3"/76mm Bend Radius
31 790	Straight	1/2 DN15	17 5.2	3
		3/4 DN20	16 4.9	
36 915	Straight	1/2 DN15	25 7.6	4
		3/4 DN20	22 6.7	
48 1220	Straight	1/2 DN15	30 9.1	4
		3/4 DN20	28 8.5	
60 1525	Straight	1/2 DN15	32 9.8	4
		3/4 DN20	31 9.5	
72 1830	Straight	1/2 DN15	40 12.2	5
		3/4 DN20	36 11.0	

5.0 PERFORMANCE – FRICTION LOSS DATA (CONTINUED)



Series AH2-300 and AH2-CC-300 Braided Hoses

Style AB2, AB3, AB4, AB5, AB7, AB7 Adj., AB10, AB12, ABBA, ABMM VicFlex™ Brackets

Hose	Sprinkler	Reducer		FM	
Length inches mm	K-factor Imperial S.I.	Nominal Outlet Size inches DN	Type	Equivalent Length of 1"/DN25 Sch. 40 Pipe feet meters	Maximum Bends
31 790	5.6 8.1	½ DN15	Straight	13.8 4.2	2
			Elbow	23.5 7.2	
	8.0 11.5	¾ DN20	Straight	16.8 5.1	
			Elbow	16.8 5.1	
	11.2 16.1	¾ DN20	Straight	16.5 5.0	
			Elbow	17.8 5.4	
	14.0 20.2	¾ DN20	Straight	14.9 4.5	
			Elbow	15.5 4.7	
36 915	5.6 8.1	½ DN15	Straight	16.6 5.1	2
			Elbow	25.6 7.8	
	8.0 11.5	¾ DN20	Straight	20.0 6.1	
			Elbow	19.7 6.0	
	11.2 16.1	¾ DN20	Straight	19.5 5.9	
			Elbow	20.7 6.3	
	14.0 20.2	¾ DN20	Straight	19.4 5.9	
			Elbow	19.6 6.0	
48 1220	5.6 8.1	½ DN15	Straight	23.4 7.1	3
			Elbow	30.7 9.4	
	8.0 11.5	¾ DN20	Straight	27.8 8.5	
			Elbow	26.6 8.1	
	11.2 16.1	¾ DN20	Straight	26.7 8.1	
			Elbow	27.9 8.5	
	14.0 20.2	¾ DN20	Straight	30.3 9.2	
			Elbow	29.5 9.0	

FM NOTES

- The Series AH2-300 and AH2-CC-300 Braided Flexible Hoses have been tested and Approved by FM Global for use in wet, dry and preaction systems per NFPA 13, 13R, and 13D and FM data sheets 2-0, 2-5, and 2-8. FM 1637 standard for safety include, but are not limited to, pressure cycling, corrosion resistance, flow characteristics, vibration resistance, leakage, mechanical and hydrostatic strength.
- EXAMPLE: A 48-inch Series AH2-300 hose installed with two 30° bends and two 90° bends at a 7-inch bend radius is permitted and considered equivalent to the data in the table shown above. In this example, the total number of degrees is 240°, which is less than the allowable 270°.

5.0 PERFORMANCE – FRICTION LOSS DATA (CONTINUED)



Series AH2-300 and AH2-CC-300 Braided Hoses

Style AB2, AB3, AB4, AB5, AB7, AB7 Adj., AB10, AB12, ABBA, ABMM VicFlex™ Brackets

Hose	Sprinkler	Reducer		FM	
Length inches mm	K-factor Imperial S.I.	Nominal Outlet Size inches DN	Type	Equivalent Length of 1"/DN25 Sch. 40 Pipe feet meters	Maximum Bends
60 1525	5.6 8.1	½ DN15	Straight	30.2 9.2	4
			Elbow	35.9 10.9	
	8.0 11.5	¾ DN20	Straight	35.7 10.9	
			Elbow	33.6 10.2	
	11.2 16.1	¾ DN20	Straight	33.9 10.3	
			Elbow	35.0 10.7	
	14.0 20.2	¾ DN20	Straight	33.9 10.3	
			Elbow	34.1 10.4	
72 1830	5.6 8.1	½ DN15	Straight	37.0 11.3	4
			Elbow	41.1 12.5	
	8.0 11.5	¾ DN20	Straight	43.5 13.3	
			Elbow	40.6 12.4	
	11.2 16.1	¾ DN20	Straight	41.3 12.6	
			Elbow	42.2 12.9	
	14.0 20.2	¾ DN20	Straight	37.5 11.4	
			Elbow	38.6 11.8	

FM NOTES

- The Series AH2-300 and AH2-CC-300 Braided Flexible Hoses have been tested and Approved by FM Global for use in wet, dry and preaction systems per NFPA 13, 13R, and 13D and FM data sheets 2-0, 2-5, and 2-8. FM 1637 standard for safety include, but are not limited to, pressure cycling, corrosion resistance, flow characteristics, vibration resistance, leakage, mechanical and hydrostatic strength.
- EXAMPLE: A 48-inch Series AH2-300 hose installed with two 30° bends and two 90° bends at a 7-inch bend radius is permitted and considered equivalent to the data in the table shown above. In this example, the total number of degrees is 240°, which is less than the allowable 270°.

6.0 NOTIFICATIONS

⚠ WARNING



- Read and understand all instructions before attempting to install any Victaulic products.
 - Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
 - Wear safety glasses, hardhat, and foot protection.
- Failure to follow these instructions could result in death or serious personal injury and property damage.

- These products shall be used only in fire protection systems that are designed and installed in accordance with current, applicable National Fire Protection Association (NFPA) standards, or equivalent local and national fire protection standards, and in accordance with applicable building and fire codes. These standards and codes contain important information regarding protection of systems from freezing temperatures, corrosion, mechanical damage, etc.
- The installer shall understand the use of this product and why it was specified for the particular application.
- The installer shall understand common industry safety standards and potential consequences of improper product installation.
- It is the system designer's responsibility to verify suitability of materials for use with the intended fluid media within the piping system and external environment.
- The material specifier shall evaluate the internal and external effect of chemical composition, pH level, operating temperature, chloride level, oxygen level, and flow rate on materials to confirm system life will be acceptable for the intended service.
- It is the responsibility of the owner of a building or their authorized agent to provide the sprinkler system installer with any knowledge that the water supply might be contaminated with or conducive to the development of microbiologically influenced corrosion (MIC), including as required by NFPA 13. Failure to identify adverse water quality issues may affect the *VicFlex* product and void the manufacturer's warranty.

Failure to follow installation requirements and local and national codes and standards could compromise system integrity or cause system failure, resulting in death or serious personal injury and property damage.

Victaulic VicFlex™ Braided Hoses may be painted/coated or caulked around, including fire barrier sealant, provided that the substance is compatible with stainless steel and zinc-plated carbon steel or ductile iron. Care shall be taken to ensure that the sprinkler and associated components do not come into contact with paint/coatings and caulking.

Victaulic VicFlex™ Braided Hoses that penetrate through non-fire rated gypsum wall (drywall) will function as designed, provided the components are installed in accordance with the respective installation instructions referenced in this document.

7.0 REFERENCE MATERIALS – CHARACTERISTICS

VicFlex™ Maximum Load Values

Series AH2-300/AH2-CC-300 Hose with 24" Bracket

Hose Length inches mm	Total Load		Maximum Uniform Load	
	lb	N	lb/linear ft	N/linear m
31 790	5.2	23	2.6	38
36 915	5.5	25	2.8	40
48 1220	6.3	28	3.1	46
60 1525	7.0	31	3.5	51
72 1830	7.7	34	3.9	57

Series AH2-300/AH2-CC-300 Hose with 48" Bracket

Hose Length inches mm	Total Load		Maximum Uniform Load	
	lb	N	lb/linear ft	N/linear m
31 790	6.1	27	1.5	22
36 915	6.4	29	1.6	23
48 1220	7.2	32	1.8	26
60 1525	7.9	35	2.0	29
72 1830	8.7	39	2.2	32

Total Load is defined as the sum of the weights of the following:

- Water-filled flexible sprinkler hose with threaded end fittings, including a typical fire sprinkler
- Bracket Assembly (any applicable Victaulic bracket model of the relevant associated size)

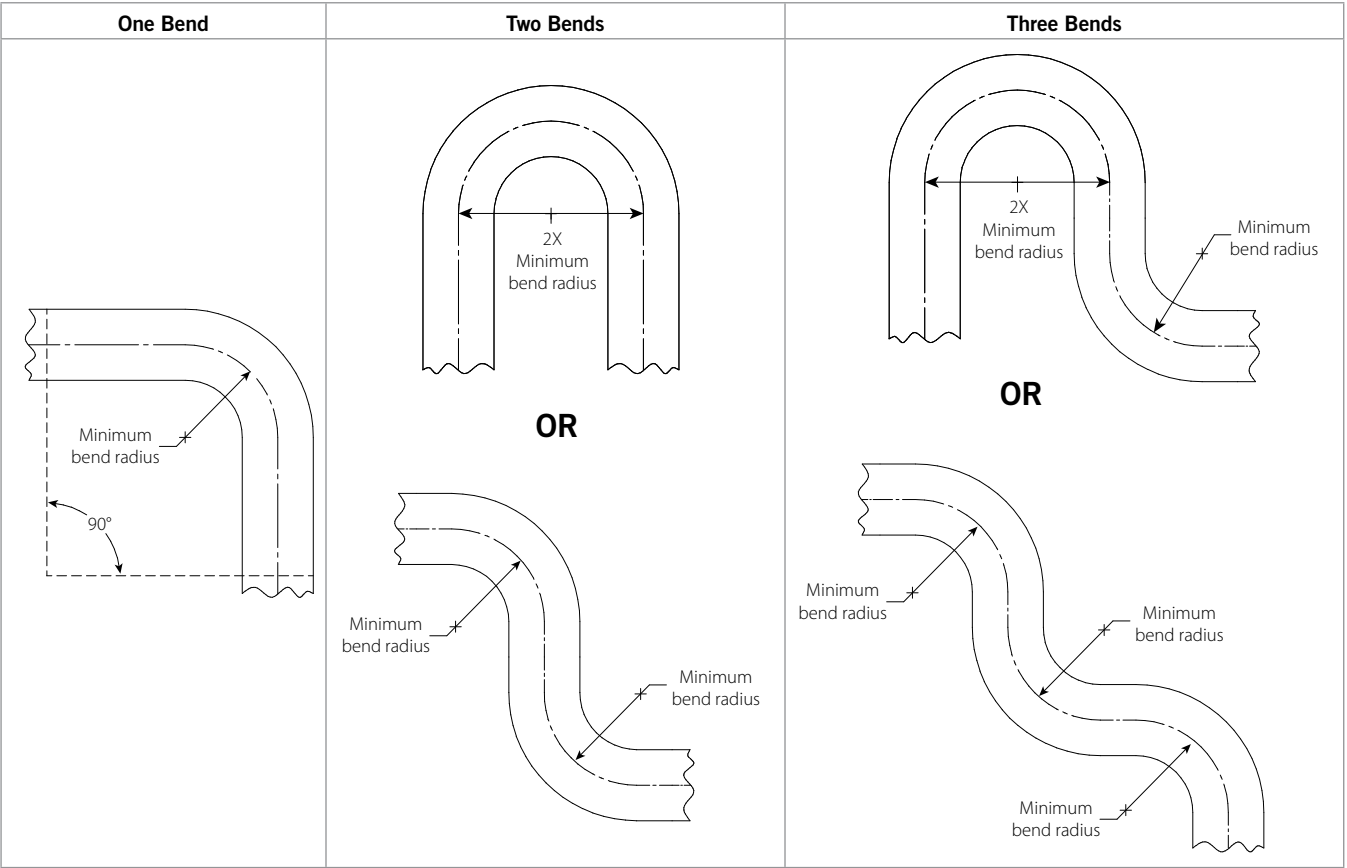
ASTM C635: Suspension System Load-Carrying Capabilities (excerpted)

Suspension System	Duty Classification	Minimum Allowable Uniform Load	
		lb/linear ft	N/linear m
Direct Hung	Light	5.0	73.0
	Intermediate	12.0	175.0
	Heavy	16.0	233.0

SUMMARY: All direct-hung suspension system duty classifications per ASTM C635 are able to withstand the maximum water-filled weight of the *VicFlex* sprinkler hose and bracket.

7.0 REFERENCE MATERIALS – CHARACTERISTICS

Flexible Hose In-Plane Bend Characteristics



NOTE

- For out-of-plane (three-dimensional) bends, care must be taken to avoid imparting torque on the hose.

[I-VICFLEX: Field Installation Handbook](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic’s published performance, maintenance, and safety data, as well as all warnings and installation instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company’s standard conditions of sale, warranty, installation instructions, or this disclaimer.

Installation

Always refer to and follow the [Victaulic Installation Handbook](#) or installation instructions for the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at [victaulic.com](#).

Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

Intellectual Property Rights

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Note

All products bearing a Victaulic trademark are manufactured by Victaulic or to Victaulic specifications. All products are to be installed only in accordance with the applicable Victaulic installation instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.