# Victaulic<sup>®</sup> VicFlex<sup>™</sup> Sprinkler Fittings Series AH2 and AH2-CC Braided Flexible Hoses







## 1.0 PRODUCT DESCRIPTION

#### Available Sizes by Component

Series AH2 1"/DN25 ID Braided Hose: 31, 36, 48, 60, 72"/790, 915, 1220, 1525, 1830 mm. Note: length includes adapter nipple and 5.75"/140 mm straight reducer.

**Series AH2-CC 1"/DN25 ID Braided Hose**: 31, 36, 48, 60, 72"/790, 915, 1220, 1525, 1830 mm. Note: length includes captured coupling and 5.75"/140 mm straight reducer.

Connections

- From Branchline
  - ¾"/20mm BSPT female thread (VdS only)
  - 1 ¼"/32mm BSPT female thread (LPCB only)
  - 1"/25mm NPT or BSPT female Thread
  - 1"/25mm Grooved IGS (refer to Submittal 10.54 for additional IGS connections)
    - No. 116 CPVC Adapter (1"/25mm Female CPVC Socket x 1"/25mm 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"/25mm Grooved IGS
  - 1"/25mm NPT or BSPT male thread
  - ¾"/20mm BSPT male thread (VdS only)
  - 1 ¼"/32mm BSPT male thread (LPCB only)

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

1



## 1.0 PRODUCT DESCRIPTION (CONTINUED)

#### • Sprinkler Reducer

- Sprinkler Connection:  $\frac{1}{2}$ " and  $\frac{3}{4}$ "/15mm and 20mm NPT or BSPT female thread
- Straight Lengths: 5.75", 9", 13"/140mm, 230mm, 330mm
- 90° Elbows
  - Standard Short
  - Low Profile Short
  - Standard Long
  - Low Profile Long

(Short elbows typically used with concealed sprinklers. Long elbows typically used with recessed pendent sprinklers)

#### 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 for suspended and hard-lid ceilings
- Style AB7 Adjustable for suspended and hard-lid ceilings
- Style AB10 for Armstrong® TechZone<sup>™</sup> ceilings
- Style AB11 for lay-in panel suspended t-grid ceilings or drywall suspended t-grid ceilings, allows for low profile installations (use only with 90° low profile elbows)
- 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
- 150°F/65°C (No. 116 CPVC Adapter)

#### **Maximum Working Pressure**

- 200 psi/1375 kPa (FM Approval)
- 175 psi/1206 kPa (cULus Listed)
- 1600 kPa/232 psi (VdS/LPCB Approved)
- 1.4 MPa (CCCf Approved)
- 175 psi/1206 kPa (No. 116 CPVC Adapter)

#### Minimum Bend Radius

- 7"/178 mm (FM/CCCf Approval)
- 2"/51 mm (cULus Listed)
- 3"/76.2 mm (VdS/LPCB Approved)



## 1.0 PRODUCT DESCRIPTION (CONTINUED)

#### Maximum Allowable Sprinkler K-Factors

- FM (1/2"/15 mm reducer) K5.6/8,1 (S.I.), (3/4"/20 mm reducer) K14.0/20,2 (S.I.)
- cULus (½"/15mm reducer) K8.0/11,5 (S.I.), (¾"/20mm reducer) K14.0/20,2 (S.I.)
- VdS/LPCB (1/2"/15 mm reducer) K5.6/8,1 (S.I.), (3/4"/20 mm reducer) K8.0/11,5 (S.I.)

## 2.0 CERTIFICATION/LISTINGS



#### NOTE

• The VicFlex Series AH2 Hose has been tested and evaluated by Spears® for acceptable use with Spears® CPVC Products and is therefore covered under the Spears® FlameGuard® Installer Protection Plan.

## 3.0 SPECIFICATIONS – MATERIAL

#### Series AH2:

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 Reducer (½"/15 mm or ¾"/20 mm): Carbon Steel, Zinc-Plated Low Profile Elbows: Ductile Iron, Zinc-Plated

Brackets: Carbon Steel, Zinc-Plated

#### Series AH2-CC:

Flexible Hose: 300-series Stainless Steel Collar/Weld Fitting: 300-series Stainless Steel Gasket Seal: Victaulic EPDM Isolation Ring: Nylon Coupling Retainer Ring: Polyethelene Nut: Carbon Steel, Zinc-Plated Reducer (½"/15 mm or ¾"/20 mm): Carbon Steel, Zinc-Plated Low Profile Elbows: Ductile Iron, 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.

Gasket:1

#### Grade "E" EPDM (Type A)

FireLock EZ products have been Listed by Underwriters Laboratories Inc., Underwriters Laboratories of Canada Limited, and Approved by Factory Mutual Research for wet and dry (oil free air) sprinkler services within the rated working pressure.

- 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 Gasket 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 Zn/Fe 5, Type III Finish

No. 116 Adapter Fitting: CPVC and Brass Seal: Victaulic EPDM

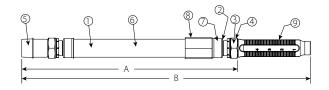
10.85 5839 Rev AL Updated 02/2022 © 2022 Victaulic Company. All rights reserved.

victaulic.com



## 4.0 **DIMENSIONS**

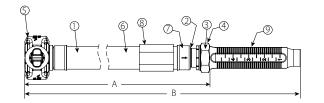
## Product Details - Series AH2 Braided Hose



Hose	Length	Dimensions
------	--------	------------

Hose Length	А	В
inches	inches	inches
mm	mm	mm
31	25.3	31
790	641	790
36	31.3	36
915	794	915
48	42.3	48
1219	1073	1220
60	54.3	60
1525	1378	1525
72	66.3	72
1830	1683	1830

#### Item Description Flexible Hose Isolation Ring Gasket 1 2 3 4 Nut 5 Adapter Nipple 6 Braid Collar/Weld Fitting 7 8 Sleeve 9 Reducer



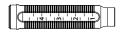
	1	
Hose Length	А	В
inches	inches	inches
mm	mm	mm
31	24.5	29.8
790	622	757
36	29.5	34.8
915	749	884
48	41.5	46.8
1219	1054	1189
60	53.5	58.8
1525	1359	1494
72	65.5	70.8
1830	1664	1798

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



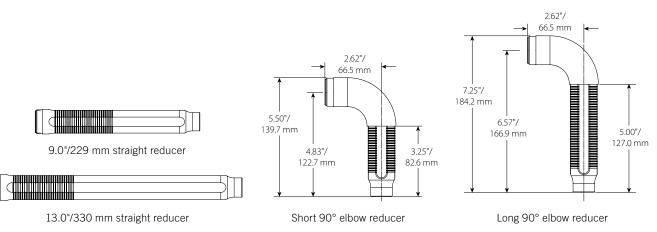
## 4.0 DIMENSIONS (CONTINUED)

#### Standard Reducer



5.75"/140 mm straight reducer

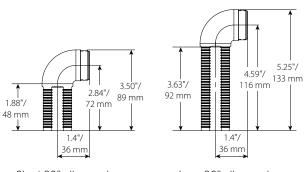
#### **Optional Reducers**



NOTE

- The Short 90° elbow reducer is typically used with concealed sprinklers while the longer 90° elbow is typically used in the installation of recessed pendent sprinklers.
- FM/VdS Approved only.

#### Low Profile



Short 90° elbow reducer

Long 90° elbow reducer

#### NOTE

• Style AB11: When low profiles elbows are with the Style AB11 bracket, the Low Profile Short Elbow is typically used with concealed sprinklers while the Low Profile Long Elbow is typically used in the installation of recessed pendent sprinklers.

## No. 116 CPVC Adapter



NOTES

- E to E is 3.0"/76.0 mm
- The No. 116 CPVC Adapter has 2 ft. (0.6 m) EQL of 1" Schedule 40 pipe.

## 4.1 **DIMENSIONS**

#### VicFlex Brackets

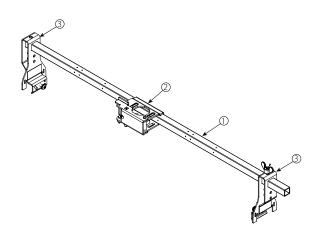
#### Style AB2

- 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

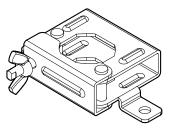
#### NOTE

• Both sizes FM/VdS/LPCB Approved, cULus listed



## Style AB3

- Surface Mount Applications
- FM/LPCB Approved



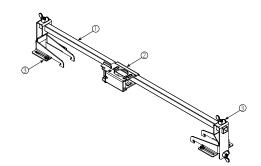
## Style AB4

• Hard-Lid Ceilings with Hat furring channel grid system

are Bar
er Bracket
nnel

#### NOTE

• Both sizes FM/VdS/LPCB Approved, cULus listed.







## 4.2 **DIMENSIONS**

## VicFlex Brackets

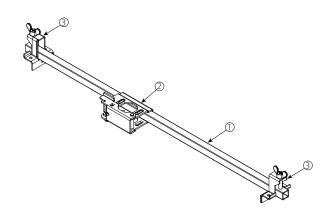
#### Style AB5

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

• Both sizes FM/VdS/LPCB Approved, cULus listed.



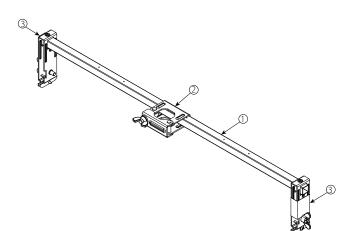
## Style AB7

- Suspended Ceilings
- Hard-Lid Ceilings

Item	Description
1	24"/610 mm or 48"/1219 mm Square Bar
2	Patented 1-Bee2 <sup>®</sup> Center Bracket
3	End Bracket

#### NOTE

Both sizes FM/VdS/LPCB Approved.



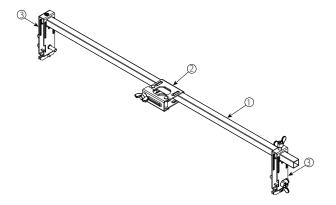
## Style AB7 Adjustable

- Suspended Ceilings
- Hard-Lid Ceilings

Item	Description	
1	700 mm or 1400 mm Square Bar	
2	Patented 1-Bee2 <sup>®</sup> Center Bracket	
3	End Bracket (adjustable)	

#### NOTE

• Both sizes FM/VdS/LPCB Approved.





## 4.3 **DIMENSIONS**

#### VicFlex Brackets

#### Style AB10

- Suspended ceilings
- Armstrong<sup>®</sup> TechZone<sup>™</sup>

Item	Description	
1	6"/152 mm Square Bar	
2	Patented 1-Bee2 <sup>®</sup> Center Bracket	
3	End Bracket	

#### NOTE

• FM/VdS/LPCB Approved, cULus listed.

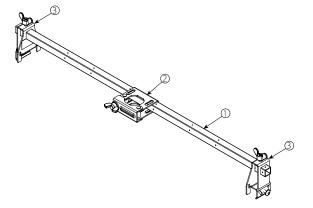
## Style AB11

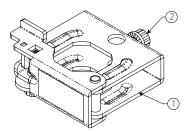
- Suspended ceilings
- Hard-Lid ceilings

Item	Description
1	24"/610 mm or 48"/1219 mm Square Bar
2	Patented 1-Bee2 <sup>®</sup> Center Bracket
3	End Bracket

#### NOTE

• FM/VdS Approved, cULus listed.





## Style AB12

- Suspended ceilings
- Hard-Lid ceilings

Item	Description
1	Style AB12 Bracket Body
2	#2 Square Drive Set Screw

#### NOTE

• FM/VdS Approved.



## 4.3 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, Serated Flange, M6 x 1 x 20, T25 Torx Drive Recessed
4	Style ABMM Bracket Body
5	Cap Screw, Serated Flange, M6 x 1 x 15.24, T25 Torx Drive Recessed

NOTE

• FM Approved.

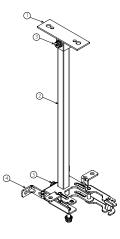
## Style ABMM

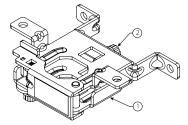
- Surface mount
- Stand-off mount

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

#### NOTE

• FM Approved.



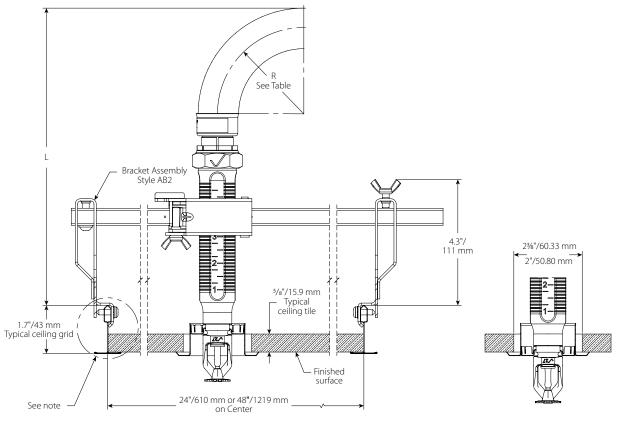




## 4.4 **DIMENSIONS**

## Clearances

Series AH2 Braided Hose and Style AB2 Bracket



V2707 ¾"/19 MM MAX. RECESS

V2707 MAX. EXTENSION

			He	ose Clearance Cl	nart				
		Long Elbow	Short Elbow						
	V2707 V38 <sup>3</sup> / <sub>4</sub> " <sup>1</sup> / <sub>2</sub> Max Recess Max Re		V2707 <sup>3</sup> ⁄4" Max Recess	V3802 <sup>1</sup> /2" Max Recess	V2707 <sup>3</sup> ⁄4" Max Recess	V3802 <sup>1</sup> ⁄2" Max Recess	V2707 ¾" Max Recess	V3802 <sup>1</sup> ⁄2" Max Recess	
	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	
"R" Minimum Bend Radius	2. 5		3	.0 0	7.	.0 75	-		
"A" Minimum Required Installation Space	8.6 218	10.1 269	9.6 244	11.1 281	13.6 345	15.1 383	5.8 147	5.8 147	

NOTE

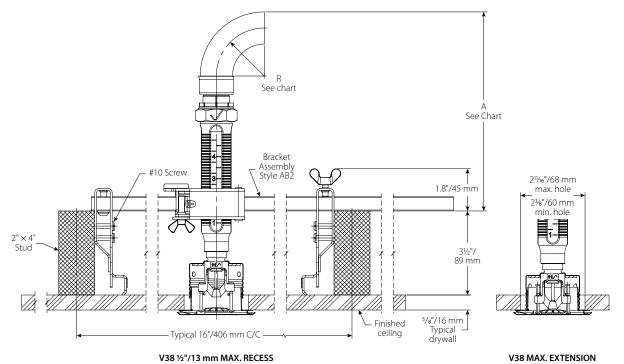
• Variations of ceiling grids, sprinkler heads, brackets, and hoses are permitted but may result in clearance differences from the figures above.



## 4.5 **DIMENSIONS**

## Clearances

Series AH2 Braided Hose and Style AB2 Bracket



Hose Clearance Chart Straight Reducer V2707 V3802 V2709 V2707 V3802 V2709 V2707 V3802 V2709 ¾" | 20 mm ½" | 13 mm 3⁄4" | 20 mm 3⁄4" | 20 mm ½"∣13 mm ¾" | 20 mm 3⁄4" | 20 mm ½" | 13 mm ¾" | 20 mm Max Recess" Max Recess Sidewall Max Recess Max Recess Sidewall Max Recess Max Recess Sidewall inches inches inches inches inches inches inches inches inches mm mm mm mm mm mm mm mm mm "R" Minimum 2.0 3.0 7.0 175 **Bend Radius** 50 80 "A" Minimum 6.2 7.6 8.6 11.2 12.6 11.1 Required 6.1 7.2 7.1 183 180 158 193 155 218 285 320 282 Installation Space

Hose Clearance Chart											
	Long	Short Elbow									
	V2707 <sup>3</sup> /4"   20 mm Max Recess	V2709 ¾"   20 mm Sidewall	V3802 <sup>1</sup> / <sub>2</sub> "   13 mm Max Recess								
	inches	inches	inches								
101111	mm	mm	mm								
"R" Minimum Bend Radius		-									
"A" Minimum Required Installation Space	3.3 84	3.6 91	3.3 84								

#### NOTE

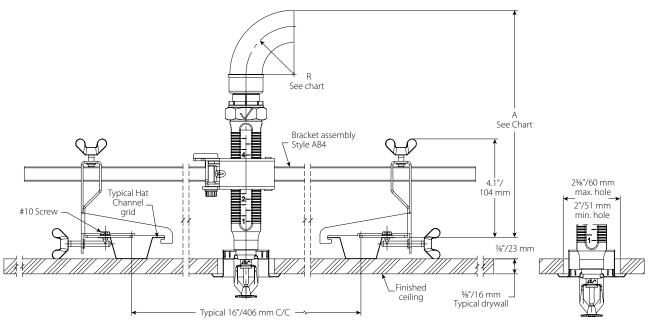
• Variations of ceiling grids, sprinkler heads, brackets, and hoses are permitted but may result in clearance differences from the figures above.



## 4.6 **DIMENSIONS**

## Clearances

Series AH2 Braided Hose and Style AB4 Bracket



V27 ¾"/19 mm MAX. RECESS

V27 MAX. EXTENSION

	Hose Clearance Chart												
	Straight Reducer												
	V2707 <sup>3</sup> /4" Max Recess	V3802 <sup>1</sup> /2" Max Recess	V2707 <sup>3</sup> ⁄4" Max Recess	V3802 <sup>1</sup> /2" Max Recess	V2707 ¾" Max Recess	V3802 <sup>1</sup> ⁄2" Max Recess	V2707 ¾" Max Recess	V3802 <sup>1</sup> ⁄2" Max Recess					
	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm					
"R" Minimum Bend Radius	2.0 50	2.0 50	3.0 80	3.0 80	7.0 175	7.0 175	-	-					
"A" Minimum Required Installation Space	8.8 224	10.2 259	9.8 249	11.2 285	13.8 351	15.2 386	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.

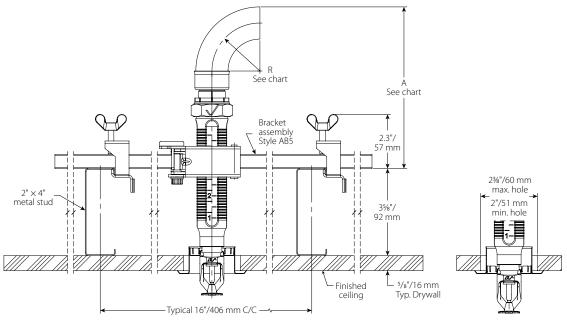




## 4.7 **DIMENSIONS**

## Clearances

Series AH2 Braided Hose and Style AB5 Bracket



V27 ¾"/19 mm MAX. RECESS

V27 MAX. EXTENSION

	Hose Clearance Chart												
	Straight Reducer												
	"V2707 <sup>3</sup> /4"   20 mm Max Recess"	20mm ½" 13mm ¾" 20m		0mm 3/4"   20mm 1/2"   13		V2709 ¾" I 20mm Sidewall	V2707 <sup>3</sup> /4"   20 mm Max Recess	V3802 <sup>1</sup> / <sub>2</sub> "   13 mm Max Recess	V2709 ¾" I 20 mm Sidewall				
	inches	inches	inches	inches	inches	inches	inches	inches	inches				
	mm	mm	mm	mm	mm	mm	mm	mm	mm				
"R" Minimum Bend Radius		2.0 50			3.0 80		7.0 175						
"A" Minimum Required Installation Space	6.0 158	7.7 196	6.1 155	7.0 178	8.7 221	7.1 180	11.0 279	12.7 323	11.1 282				

	Hose Clearance Chart											
		Long Elbow	Low-Profile Long Elbow	Short Elbow								
	V2707 3/4"   20 mm Max Recess	V3802 <sup>1</sup> / <sub>2</sub> "   13 mm Max Recess	V2709 ¾"   20 mm Sidewall	V3802 <sup>1</sup> / <sub>2</sub> "   13 mm Max Recess	V3802 <sup>1</sup> / <sub>2</sub> "   13 mm Max Recess							
	inches mm	inches mm	inches mm	inches mm	inches mm							
"R" Minimum Bend Radius			-									
"A" Minimum Required Installation Space	3.5 89	4.9 124	3.6 91	2.9 74	3.3 84							

#### NOTE

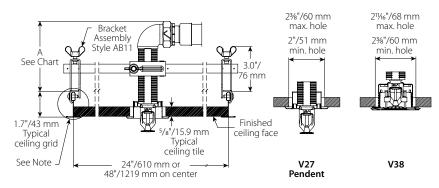
• Variations of ceiling grids, sprinkler heads, brackets, and hoses are permitted but may result in clearance differences from the figures above.

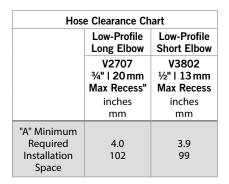


## 4.8 DIMENSIONS

## Clearances

Series AH2 Braided Hose and Style AB11 Bracket (LOW PROFILE SOLUTION)





#### NOTE

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



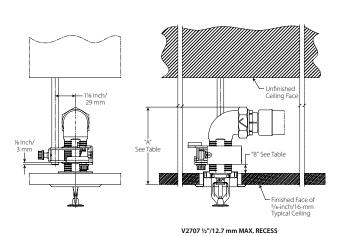
## 4.9 **DIMENSIONS**

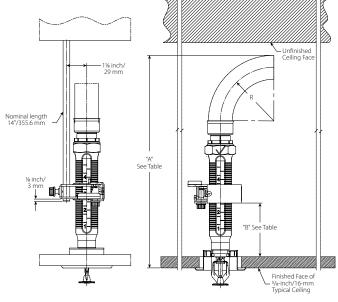
#### Clearances

#### Style AB12 and ABBA Bracket

Suspended Ceiling Grid with Recessed Sprinkler with Low Profile Short Elbow

Suspended Ceiling Grid with Recessed Sprinkler and Straight 5.75"/140 mm Reducer





V2707 ¾"/19 mm MAX. RECESS

Dimension			Profile Elbow	Low Profile Long Elbow		Standard Short Elbow			dard Elbow	Standard Straight Reducer	
		<sup>3</sup> ⁄4"/19 mm Recessed*	Concealed	<sup>3</sup> /4"/19 mm Recessed	Concealed	<sup>3</sup> ⁄4"/19 mm Recessed	Concealed	¾"/19 mm Recessed	Concealed	<sup>3</sup> ⁄4"/19 mm Recessed	Concealed
		inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm	inches mm
A	Minimum Required Installation Space	4.0 101.6	5.5 139.7	5.6 142.2	7.2 182.9	5.9 149.9	7.5 190.5	7.7 195.6	9.3 236.2	15.0 381.0	16.6 421.6
В	Distance from Top of Typical Ceiling Tile to Bottom of Gate		2.0 50.8	1.5 38.1	1.5 38.1	1.5 38.1	1.5 38.1	3.0 76.2	3.0 76.2	3.0 76.2	3.0 76.2

ġ)

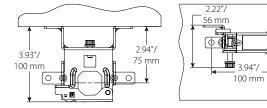
0.28"/

7 mm

\* Adjustability will be limited

#### Style ABMM Bracket

Stand-off Dimensions





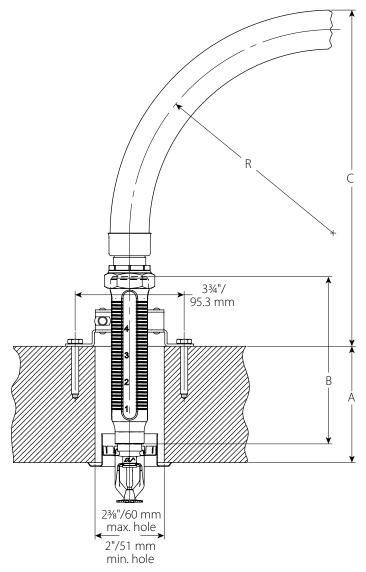


## 4.10 DIMENSIONS

#### Clearances

#### Style AB3 and ABMM Bracket

Surface Mount Application with Recessed Sprinkler



	Hose Clearances																			
	inches inches inches inches			inches	;		inches		inches		inches	inches								
Dimension		mm		mm		m	m	mm	mm		mm			mm		m	m	mm	mm	
Wall Thickness		2			4		6	5	8	10	2			4		(	5	8	10	
"A"		50			100		15	50	200	250	50 100			150		200	250			
Outlet Length	5.75	9	13	5.75	9	13	9	13	13	13	5.75	9	13	5.75	9	13	9	13	13	13
"B"	146.1	228.6	330.2	146.1	228.6	330.2	228.6	330.2	330.2	330.2	146.1	228.6	330.2	146.1	228.6	330.2	228.6	330.2	330.2	330.2
Hose Clearance	11.6	14.8	18.8	9.6	12.8	16.8	10.8	14.8	12.8	10.8	12.6	15.8	19.8	10.6	13.8	17.8	11.8	15.8	13.8	11.8
"C"	294	376	478	243	325	427	275	376	325	5 275 319 4			503	268	351	452	300	402	351	300
Bend Radius		7 8																		
"R"						175										200				

#### NOTE

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

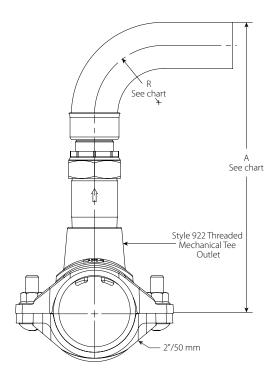




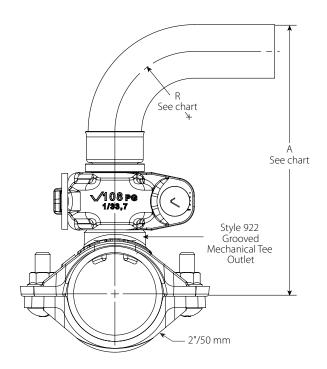
## 4.11 DIMENSIONS

#### **BRANCHLINE CLEARANCES**

Series AH2 Braided Hose with Style 922 threaded outlet



Series AH2-CC Braided Hose with Style 922 grooved outlet



	Hose Clearance Chart												
Dime	nsion												
		inches	inches	inches	inches	inches							
		mm	mm	mm	mm	mm							
R	Minimum	3	4	5	6	7							
n	Bend Radius	80	100	125	150	175							
А	Min.	9.4	10.4	11.4	12.4	13.4							
A		238	263	289	314	339							

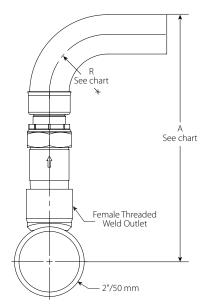
	Hose Clearance Chart												
Dime	nsion												
		inches	inches	inches	inches	inches							
		mm	mm	mm	mm	mm							
R	Minimum	3	4	5	6	7							
N	Bend Radius	80	100	125	150	175							
А	Min.	7.7	8.7	9.7	10.7	11.7							
A	101111.	197	222	247	273	298							



## 4.12 **DIMENSIONS**

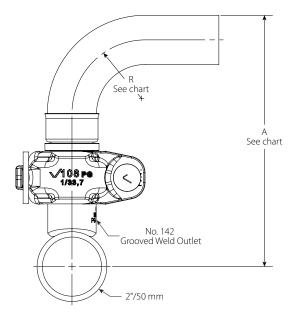
### **BRANCHLINE CLEARANCES**

Series AH2 Braided Hose with female threaded outlet



Hose Clearance Chart								
Dime								
		inches	inches	inches	inches	inches		
			mm	mm	mm	mm		
R	Minimum	3	4	5	6	7		
n	Bend Radius	80	100	125	150	175		
^	Min.	9.4	10.4	11.4	12.4	13.41		
A		239	264	290	315	341		

Series AH2-CC Braided Hose with grooved outlet



Hose Clearance Chart								
Dime								
		inches	inches	inches	inches	inches		
		mm	mm	mm	mm	mm		
R	Minimum Bend Radius	3 80	4 100	5 125	6 150	7 175		
A	Min.	8.1 205	9.1 231	10.1 256	11.1 281	12.1 307		

## 5.0 PERFORMANCE – FRICTION LOSS DATA

CUL US

# Series AH2 and AH2-CC Braided Hoses with Straight 5.75"/140 mm Reducers Style AB2, AB4, AB5 and AB10 Brackets

Hose	F	Reducer	UL		
Length inches		Nominal Outlet Size	Equivalent Length of 1"/33.7mm Sch. 40 pipe feet		
mm	Туре	DN	meters	Max Bends	
31 790	Straight	½ DN15	15.0 4.6	3	
31 790	Straight	<sup>3</sup> / <sub>2</sub> DN15	16.0 4.9	4	
31 790	Straight	34 DN20	19.0 5.8	3	
31 790	Straight	3⁄4 DN20	20.0 6.1	4	
36 915	Straight	<sup>1/2</sup> DN15	18.0	3	
36 915	Straight	<sup>1/2</sup> DN15	21.0 6.4	5	
36 915	Straight	3⁄4 DN20	21.0 6.4	3	
36 915	Straight	34 DN20	23.0 7.0	5	
48 1220	Straight	<sup>3</sup> / <sub>2</sub> DN15	21.0 6.4	3	
48 1220	Straight	<sup>3</sup> / <sub>2</sub> DN15	32.0 9.8	8	
48 1220	Straight	<sup>3</sup> ⁄ <sub>4</sub> DN20	26.0 7.9	3	
48 1220	Straight	<sup>3</sup> ⁄ <sub>4</sub> DN20	37.0 11.3	8	
60 1525	Straight	½ DN15	27.0 8.2	3	
60 1525	Straight	½ DN15	46.0 14.0	10	
60 1525	Straight	3⁄4 DN20	27.0 8.2	3	
60 1525	Straight	<sup>3</sup> / <sub>4</sub> DN20	46.0 14.0	10	
72 1830	Straight	½ DN15	31.0 9.4	3	
72 1830	Straight	<sup>3</sup> / <sub>2</sub> DN15	55.0	12	
72 1830	Straight	<sup>3</sup> / <sub>4</sub> DN20	30.0 9.1	3	
72 1830	Straight	34 DN20	60.0 18.3	12	



## 5.0 PERFORMANCE – FRICTION LOSS DATA (CONTINUED)



#### Series AH2 and AH2-CC Braided Hose with 90° Low Profile Elbows Style AB11 VicFlex Bracket

Hose	R	educer	UL	
<b>Length</b> inches mm	Туре	Nominal Outlet Size inches DN	Equivalent Length of 1"/33.7mm Sch. 40 pipe feet meters	Max Bend
31 790	LP Elbow	½ DN15	18.0 5.5	3
31 790	LP Elbow	<sup>3</sup> DN15	24.0 7.3	4
31 790	LP Elbow	34 DN20	21.0	3
31 790	LP Elbow	3⁄4 DN20	24.0 7.3	4
36 915	LP Elbow	<sup>3</sup> / <sub>2</sub> DN15	19.0 5.8	3
36 915	LP Elbow	<sup>3</sup> / <sub>2</sub> DN15	26.0 7.9	5
36 915	LP Elbow	34 DN20	23.0	3
36 915	LP Elbow	34 DN20	28.0	5
48 1220	LP Elbow	<sup>1/2</sup> DN15	23.0 7.0	3
48 1220	LP Elbow	<sup>1/2</sup> DN15	43.0	8
48 1220	LP Elbow	34 DN20	30.0 9.1	3
48 1220	LP Elbow	34 DN20	42.0 12.8	8
60 1525	LP Elbow	<sup>1/2</sup> DN15	28.0	3
60 1525	LP Elbow	<sup>1/2</sup> DN15	49.0 14.9	10
60 1525	LP Elbow	34 DN20	31.0	3
60 1525	LP Elbow	34 DN20	50.0	10
72 1830	LP Elbow	1/2 DN15	31.0 9.4	3
72	LP Elbow	1/2	65.0	12
1830 72	LP Elbow	DN15	19.8 36.0	3
1830 72	LP Elbow	DN20 34 DN20	11.0 63.0 19.2	12

10.85 5839 Rev AL Updated 02/2022 © 2022 Victaulic Company. All rights reserved.



## 5.0 PERFORMANCE – FRICTION LOSS DATA (CONTINUED)

#### Series AH2 and AH2-CC Braided Hoses Equivalent Length Design Guide

Equivalent length values at various numbers of 90 degree bends at 2"/51 mm center line bend radius

Length	Nominal Outlet Size	1 Bend	2 Bends	3 Bends	4 Bends	5 Bends	6 Bends	7 Bends	8 Bends	9 Bends	10 Bends	11 Bends	12 Bends
inches mm	inches DN	feet meters											
31 790	<sup>1</sup> / <sub>2</sub> DN15	11.0 3.4	13.0 4.0	15.0 4.6	16.0 4.9	-	–	-	–	–	–	-	-
31 790	<sup>3</sup> ⁄ <sub>4</sub> DN20	12.0 3.7	14.0 4.3	19.0 5.8	20.0 6.1	-	-	-	-	-	-	-	-
36 915	½ DN15	14.0 4.3	16.0 4.9	18.0 5.5	19.0 5.8	21.0 6.4	-	-	-	-	-	-	-
36 915	3⁄4 DN20	17.0 5.2	19.0 5.8	21.0 6.4	22.0 6.7	23.0 7.0	-	-	-	-	-	-	-
48 1220	½ DN15	18.0 5.5	19.0 5.8	21.0 6.4	23.0 7.0	25.0 7.6	27.0 8.2	30.0 9.1	32.0 9.8	-	-	-	_
48 1220	<sup>3</sup> ⁄ <sub>4</sub> DN20	21.0 6.4	24.0 7.3	26.0 7.9	28.0 8.5	31.0 9.4	33.0 10.1	35.0 10.7	37.0 11.3	_	-	-	-
60 1525	½ DN15	21.0 6.4	24.0 7.3	27.0 8.2	30.0 9.1	32.0 9.8	35.0 10.7	37.0 11.3	40.0 12.2	43.0 13.1	46.0 14.0	-	_
60 1525	<sup>3</sup> ⁄ <sub>4</sub> DN20	23.0 7.0	25.0 7.6	27.0 8.2	29.0 8.8	32.0 9.8	34.0 10.4	37.0 11.3	40.0 12.2	43.0 13.1	46.0 14.0	-	-
72 1830	½ DN15	27.0 8.2	29.0 8.8	31.0 9.4	34.0 10.4	37.0 11.3	40.0 12.2	43.0 13.1	46.0 14.0	48.0 14.6	50.0 15.2	52.0 15.8	55.0 16.8
72 1830	<sup>3</sup> ⁄ <sub>4</sub> DN20	26.0 7.9	28.0 8.5	30.0 9.1	33.0 10.1	37.0 11.3	40.0	44.0 13.4	48.0 14.6	51.0 15.5	54.0 16.5	57.0 17.4	60.0 18.3

#### NOTES

• Values for use with 5.75"/140 mm straight reducers.

• The values in this table are provided by the manufacturer for reference only. For friction loss data in accordance with the UL Certification, please refer to pages 19 and 20 of this publication.

How to use this Design Guide:

• For some systems, it may be advantageous for the designer to calculate the system hydraulics using shorter equivalent lengths associated with fewer than the maximum allowable number of bends. In this case, the designer may select a design number of bends for the job and use the associated equivalent length from the design guide to determine the system hydraulics.

• It is possible that the actual installed condition of some of the flexible drops may have more bends than the designer selected. When this happens, the design guide may be used to find equivalent lengths based on the actual installed number of bends for particular sprinkler installations. The system hydraulics can be recalculated using actual equivalent lengths to verify the performance of the system.

## 5.1 PERFORMANCE – FRICTION LOSS DATA

<fm>

Series AH2 and AH2-CC Braided Hoses Style AB2, AB3, AB4, AB5, AB7, AB7 Adj., AB8, AB10, AB12, ABBA and ABMM *VicFlex* Brackets

Length of Stainless Steel Flexible Hose inches	K-Factor	Outlet Size inches mm	Equivalent Length of 1"/33.7 mm Sch. 40 Pipe	Maximum Number of 90° Bends at 7"/178mm Bend Radius
mm 31 790	5.6 8.1	type           ½           15           Straight           ½           15	meters           13.8           4.2           23.5           7.1	2
36 915	5.6 8.1	90° Elbow ½ 15 5traight ½ 15 00° Elbow	16.6 5.1 25.6 7.8	2
48 1220	5.6 8.1	90° Elbow ½ 15 Straight ½ 15 90° Elbow	23.4 7.1 30.7 9.3	3
60 1525	5.6 8.1	½           15           Straight           ½           15           90° Elbow	30.2 9.2 35.9 10.9	4
72 1830	5.6 8.1	15 5traight ½ 15 90° Elbow	37.0 11.3 41.1 12.5	4
31 790	8.0 11.5	34 20 Straight 34 20 90° Elbow	16.8 5.1 16.8 5.1	2
36 915	8.0 11.5	34 20 Straight 34 20 90° Elbow	20 6.0 19.7 6.0	2
48 1220	8.0 11.5	90 Elbow 34 20 Straight 34 20 90° Elbow	27.8 8.4 26.6 8.1	3

#### FM NOTES

• The Series AH2 hose has 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 characterisitics, vibration resistance, leakage, mechanical and hydrostatic strength.

• EXAMPLE: A 48-inch hose installed with two 30° bends and two 90° bends 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°.



#### 5.1 PERFORMANCE – FRICTION LOSS DATA (CONTINUED)

FM>

#### Series AH2 and AH2-CC Braided Hoses Style AB2, AB3, AB4, AB5, AB7, AB7 Adj., AB8, AB10, AB12, ABBA and ABMM *VicFlex* Brackets

Length of Stainless Steel Flexible Hose	K-Factor	Outlet Size inches	Equivalent Length of 1"/33.7mm Sch. 40 Pipe	Maximum Number of 90° Bends at 7"/178mm Bend Radius
inches	Imperial	mm	feet	
60 1525	S.I. 8.0 11.5	type 34 20 Straight 34 20 90° Elbow	35.7           10.9           33.6           10.2	4
72 1830	8.0 11.5	34 20 Straight 34	43.5 13.2	4
		20 90° Elbow	40.6 12.2	
31 790	11.2 16.1	<sup>3</sup> ⁄4 20 Straight	16.5 5.0	2
		¾ 20 90° Elbow	17.8 5.4	
36	11.2 16.1	34 20 Straight	19.5 5.9	2
915		<sup>3</sup> ⁄₄ 20 90° Elbow	20.7 6.3	
48	11.2	¾ 20 Straight	26.7 8.1	3
1220	16.1	<sup>3</sup> ⁄ <sub>4</sub> 20 90° Elbow	27.9 8.5	
60	11.2	<sup>3</sup> ⁄ <sub>4</sub> 20 Straight	33.9 10.3	4
1525	16.1	<sup>3</sup> ⁄₄ 20 90° Elbow	35 10.7	-
72	11.2	34 20 Straight	41.3 12.5	4
1830	16.1	<sup>3</sup> ⁄₄ 20 90° Elbow	42.2 12.8	•
31	14.0	¾ 20 Straight	14.9 4.5	2
790	20.2	<sup>3</sup> ⁄4 20 90° Elbow	15.5 4.72	<u>۲</u>

FM NOTES

• The Series AH2 hose has 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 characterisitics, vibration resistance, leakage, mechanical and hydrostatic strength.

• EXAMPLE: A 48-inch hose installed with two 30° bends and two 90° bends 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°.



#### 5.1 PERFORMANCE – FRICTION LOSS DATA (CONTINUED)



#### Series AH2 and AH2-CC Braided Hoses Style AB2, AB3, AB4, AB5, AB7, AB7 Adj., AB8, AB10, AB12, ABBA and ABMM *VicFlex* Brackets

Length of Stainless Steel Flexible Hose inches mm	<b>K-Factor</b> Imperial S.I.	Outlet Size inches mm type	Equivalent Length of 1"/33.7 mm Sch. 40 Pipe feet meters	Maximum Number of 90° Bends at 7"/178mm Bend Radius
36	14.0	34 20 Straight	19.4 5.9	2
915	20.2	<sup>3</sup> ⁄ <sub>4</sub> 20 90° Elbow	19.6 5.9	
48	14.0 20.2	<sup>3</sup> ⁄4 20 Straight	30.3 9.2	- 3
1220		<sup>3</sup> ⁄ <sub>4</sub> 20 90° Elbow	29.5 8.9	c
60	14.0	<sup>3</sup> ⁄ <sub>4</sub> 20 Straight	33.9 10.3	4
1525	20.2	<sup>3</sup> ⁄ <sub>4</sub> 20 90° Elbow	34.1 10.4	- 4
72	14.0 20.2	34 20 Straight	37.5 11.4	
1830		<sup>3</sup> ⁄ <sub>4</sub> 20 90° Elbow	38.6 11.7	- 4

#### FM NOTES

• The Series AH2 hose has 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 characterisitics, vibration resistance, leakage, mechanical and hydrostatic strength.

• EXAMPLE: A 48-inch hose installed with two 30° bends and two 90° bends 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°.

## 5.2 PERFORMANCE – FRICTION LOSS DATA

<FM>

#### Series AH2 Braided Hose with 90° Low Profile Elbows Style AB5, AB11, AB12, ABBA and ABMM *VicFlex* Bracket

Length of Stainless Steel Flexible Hose inches mm	<b>K-Factor</b> Imperial S.I.	Outlet Size inches mm	Equivalent Length of 1"/33.7mm Sch. 40 Pipe feet meters	Maximum Number of 90° Bends at 7"/178mm Bend Radius
31	5.6	½	13.7	2
790	8.1	15	4.2	
36	5.6	½	17.0	2
915	8.1	15	5.2	
48	5.6	½	25.0	3
1220	8.1	15	7.6	
60	5.6	½	33.0	4
1525	8.1	15	10.1	
72	5.6	½	41.1	4
1830	8.1	15	12.5	
31	8.0	<sup>3</sup> ⁄ <sub>4</sub>	13.6	2
790	11.5	20	4.14	
36	8.0	<sup>3</sup> ⁄ <sub>4</sub>	16.9	2
915	11.5	20	5.2	
48	8.0	<sup>3</sup> ⁄4	27.8	3
1220	11.5	20	8.5	
60	8.0	<sup>3</sup> ⁄ <sub>4</sub>	32.6	4
1525	11.5	20	9.9	
72	8.0	<sup>3</sup> ⁄ <sub>4</sub>	40.6	4
1830	11.5	20	12.4	
31	11.2	<sup>3</sup> ⁄ <sub>4</sub>	13.7	2
790	16.1	20	4.2	
36	11.2	<sup>3</sup> ⁄ <sub>4</sub>	17.0	2
915	16.1	20	5.2	
48	11.2	<sup>3</sup> ⁄ <sub>4</sub>	24.9	3
1220	16.1	20	7.6	
60	11.2	<sup>3</sup> ⁄ <sub>4</sub>	32.9	4
1525	16.1	20	10.0	
72	11.2	<sup>3</sup> ⁄ <sub>4</sub>	40.9	4
1830	16.1	20	12.5	
31	14.0	<sup>3</sup> ⁄ <sub>4</sub>	13.5	2
790	20.2	20	4.1	
36	14.0	<sup>3</sup> ⁄4	16.8	2
915	20.2	20	5.1	
48	14.0	<sup>3</sup> ⁄ <sub>4</sub>	24.7	3
1220	20.2	20	7.5	
60	14.0	<sup>3</sup> ⁄4	32.7	4
1525	20.2	20	9.9	
72	14.0	<sup>3</sup> ⁄4	40.7	4
1830	20.2	20	12.4	

#### FM NOTES

• The Series AH2 hose has 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 characterisitics, vibration resistance, leakage, mechanical and hydrostatic strength.

• EXAMPLE: A 48-inch hose installed with two 30° bends and two 90° bends 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°.







## 5.3 PERFORMANCE – FRICTION LOSS DATA

VdS

#### Series AH2 and AH2-CC Braided Hose Style AB2, AB4, AB5, AB7, AB7 Adj., AB8, AB10, AB11 and AB12 Brackets

Length of Stainless Steel Flexible Hose mm inches	Outlet Size DN inches	Equivalent Length of steel pipe according to EN 10255 DN 25 (33,7 x 3,25) meters feet	Maximum Number of 90° Bends at 3"/76.2mm Bend Radius
790 31	DN15 ½ DN20 ¾	5.5 18.0	3
915 36	DN15 ½ DN20 ¾	6.4 21.0	3
1220 48	DN15 ½ DN20 ¾	8.5 27.9	3
1525 60	DN15 ½ DN20 ¾	10.7 35.1	4
1830 72	DN15 ½ DN20 ¾	12.8 42.0	4

#### VdS Ceiling Manufacturers List

AB2, AB7, AB10 ,AB11	AB4	AB5, AB8
1. AMF	No specific approval	1. Hilti
2. Armstrong		2. Knauf
3. Chicago Metallic		3. Lafarge
4. Dipling		4. Lindner
5. Durlum		5. Rigips
6. Geipel		
7. Gema-Armstrong		
8. Hilti		
9. Knauf		
10. Lafarge		
11. Linder		
12. Odenwald		
13. Richter		
14. Rigips		
15. Rockfon Pagos		
16. Suckow & Fischer		
17. USG Donn		



## 5.3 PERFORMANCE – FRICTION LOSS DATA



#### Series AH2 and AH2-CC Braided Hose Style AB2, AB3, AB4, AB5, AB7, AB8, and AB10 Brackets

Length of Stainless Steel Flexible Hose	Outlet Size	Equivalent Length of steel pipe according to EN 10255 DN 25 (33,7 x 3,25)	Maximum Number of 90° Bends at 3"/76.2 mm Bend Radius
mm inches	mm inches type	meters feet	
790 31	15 mm ½ Straight 20 mm ¾ Straight	1.8 6.0	2
915 36	15 mm ½ Straight 20 mm ¾ Straight	3.6 11.9	3
1220 48	15 mm ½ Straight 20 mm ¾ Straight	4.3 14.0	3
1525 60	15 mm <sup>1</sup> /2 Straight 20 mm <sup>3</sup> /4 Straight	4.1 13.6	3
1830 72	15 mm <sup>1</sup> / <sub>2</sub> Straight 20 mm <sup>3</sup> / <sub>4</sub> Straight	5.5 18.1	3



Series AH2 Braided Hose Style AB2, AB3, AB4, AB5, AB7, AB8, AB10 and AB12 Brackets

Length of	Equivalent Length of 1"/33.7 mm Sch. 40 Pipe			
Flexible Hose	Straight Configuration	Bend Configuration		
mm	meters	meters		
inches	feet	feet		
790	0.87	2.70		
31	2.9	8.9		
915	1.00	2.80		
36	3.3	9.2		
1220	2.23	4.66		
48	7.3	15.3		
1525	2.90	6.5		
60	9.5	21.3		
1830	3.31	7.16		
72	10.9	23.5		

CCCF NOTE

• Friction loss data is in accordance with GB5135.16 tested at a flow rate of 114 liters per minute (30 gallons per minute).

## 6.0 NOTIFICATIONS

# 

- 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.
- 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 13, 13D, 13R, etc.) standards, or equivalent 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 responsibility of the system designer to verify suitability of 300-series stainless steel flexible hose for use with the intended fluid media within the piping system and external environments.
- The effect of chemical composition, pH level, operating temperature, chloride level, oxygen level, and flow rate on 300-series stainless steel flexible hose must be evaluated by the material specifier 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 these instructions could cause product failure, resulting in serious personal injury and/or property damage.

Victaulic VicFlex Series AH2 and AH2-CC Flexible Sprinkler Fittings may be painted provided the paint is compatible with stainless steel and zinc-plated carbon steel or ductile iron. Care should be taken to ensure the sprinkler and associated escutcheon or coverplate are not painted.

Victaulic VicFlex Series AH2 and AH2-CC penetrating 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 Hose with 24" Bracket

	Actual Length	Total Load		Max. Uniform Load	
Model Size	ft m	lb	N	lb/linear ft	N/linear m
31/790	2.6 0.8	5.2	23	2.6	38
36/915	3 0.9	5.5	25	2.8	40
48/1220	4 1.2	6.3	28	3.1	46
60/1525	5 1.5	7.0	31	3.5	51
72/1830	6 1.8	7.7	34	3.9	57

## Series AH2 Hose with 48" Bracket

	Actual Length	Total Load		Max. Uniform Load	
Model Size	ft m	lb	N	lb/linear ft	N/linear m
31/790	2.6 0.8	6.1	27	1.5	22
36/915	3 0.9	6.4	29	1.6	23
48/1220	4 1.2	7.2	32	1.8	26
60/1525	5 1.5	7.9	35	2.0	29
72/1830	6 1.8	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)

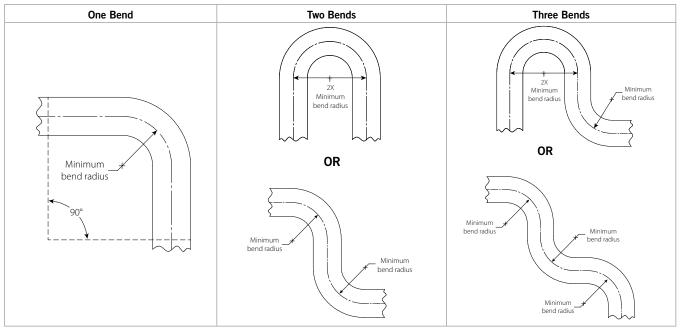
#### ASTM C 635: Suspension System Load-Carrying Capabilities (excerpted)

	Actual Length	Min. Allowable Uniform Load		
Suspension System	ft/m	lb/linear ft	N/linear m	
Direct Hung	Light	5.0	75.7	
	Intermediate	12.0	181.0	
	Heavy	16.0	241.7	

SUMMARY: All direct-hung suspension system duty classifications per ASTM C 635 are able to withstand the maximum water-filled weight of the *VicFlex* sprinkler hose and bracket.

### 7.0 REFERENCE MATERIALS – CHARACTERISTICS (CONTINUED)

#### 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-AB1-AB2 I-VicFlex-AB3 I-VicFlex-AB4 I-VicFlex-AB5 I-VicFlex-AB7 I-VicFlex-AB12 I-VicFlex-ABBA I-VicFlex-ABMM I-RES

#### User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, and the applicable building codes and related regulations as well as Victaulic performance, maintenance, safety, and warning 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, installation guide, or this disclaimer.

#### Intellectual Property Rights

No statement contained herein concerning a possible or suggested use of any material, product, service, or design is intended, or should be constructed, to grant any license under any patent or other intellectual property right of Victaulic or any of its subsidaries or affiliates covering such use or design, or as a recommendation for the use of such material, product, service, or design in the infringement of any patent or other intellectual property right. The terms "Patented" or "Patent Pending" refer to design or utility patents or patent applications for articles and/or methods of use in the United States and/or other countries.

#### Note

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

#### Installation

Reference should always be made to I-VICFLEX-AB1-AB2-AB10, I-VICFLEX-AB4, I-VICFLEX-AB7, or I-VICFLEX-AB8 for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

#### Warranty Refer t

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

Victaulic and all other Victaulic marks are the trademarks or registered trademarks of Victaulic Company, and/or its affiliated entities, in the U.S. and/or other countries.



