



Series AH3

1.0 PRODUCT DESCRIPTION

Available Sizes by Component

- Series AH3 0.8"/DN20 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.
- For CCC Approved hose lengths, refer to Section 5.3

Connections

- From Branchline
 - 3/4"/20 mm BSPT Female Thread (VdS only)
 - 1"/25 mm NPT or BSPT Female Thread

Hose Inlet

- 3/4"/20 mm BSPT Male Thread (VdS only)
- 1"/25 mm NPT or BSPT Male Thread

• Sprinkler Reducer

- Sprinkler Connection: ½"/15 mm, 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
 - Low-Profile Short
 - Standard Long
 - Low-Profile 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 are 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 AB11 for lay-in panel suspended T-grid ceilings or drywall suspended T-grid ceilings: allows for low-profile installation (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"/100 mm
- 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

Maximum Working Pressure

- 200 psi/1375 kPa (FM)
- 232 psi/1600 kPa (VdS)
- 232 psi/1.6 MPa (CCC)

Minimum Bend Radius

- 7"/178 mm (FM/CCC)
- 3"/76.2 mm (VdS)

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.)
- VdS (½"/15 mm reducer) K5.6/8,1 (S.I.), (¾"/20 mm reducer) K8.0/11,5 (S.I.)

2.0 CERTIFICATIONS/LISTINGS









3.0 SPECIFICATIONS - MATERIAL

Series AH3

Flexible Hose: 300-series Stainless Steel Collar/Weld Fitting: 300-series Stainless Steel

Gasket Seal: Victaulic EPDM

Nut and Adapter Nipple: Carbon Steel, Zinc Plated

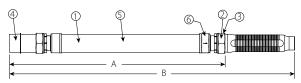
Reducer: Carbon Steel, Zinc-Plated **Brackets:** Carbon Steel, Zinc-Plated

Low Profile Elbows: Ductile Iron, Zinc-Plated or Carbon Steel, Zinc-Plated



4.0 DIMENSIONS

Product Details - Series AH3 Braided Hose



Item	Description				
1	Flexible Hose				
2	Gasket				
3	Nut				
4	Adapter Nipple				
5	Braid				
6	Collar/Weld Fitting				

Hose	Dimensions		
	Α	В	
	inches	inches	
Series	mm	mm	
AH3-31	25.6 650	31.0 790	
AH3-36	31.6 803	36.0 915	
AH3-48	42.6 1082	48.0 1220	
AH3-60	54.6 1387	60.0 1525	
AH3-72	66.6 1692	72.0 1830	

Standard Reducer

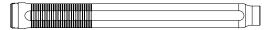


5.75"/146 mm Straight Reducer

Optional Reducers

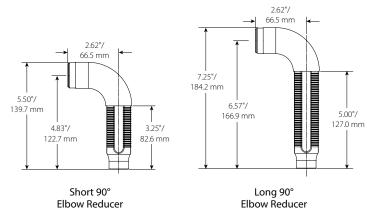


9.0"/230 mm Straight Reducer



13.0"/330 mm Straight Reducer

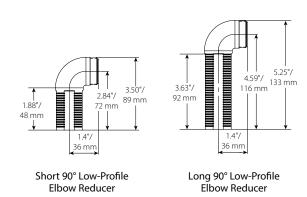
Standard Elbow Reducers



NOTE

 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.

Low-Profile Elbow Reducers



NOTE

 Style AB11: When Low-Profile Elbows are used 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.

4.1 DIMENSIONS

VicFlex[™] Brackets

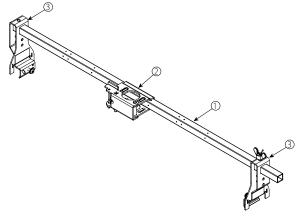
Style AB2

- 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						

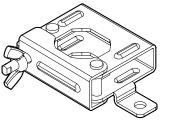
NOTE

Both sizes FM/VdS Approved



Style AB3

- Surface Mount Applications
- FM Approved Only



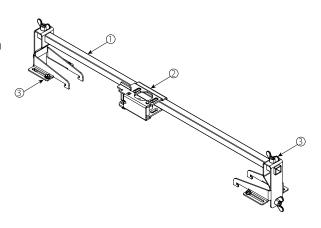
Style AB4

• 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	End Bracket for Hat Furring Channel				

NOTE

Both sizes FM/VdS Approved



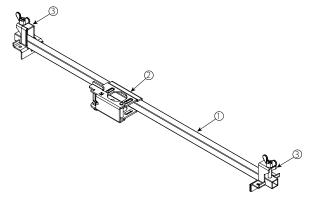
Style AB5

• 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

Both sizes FM/Vds Approved





4.1 DIMENSIONS (CONTINUED)

VicFlex[™] Brackets

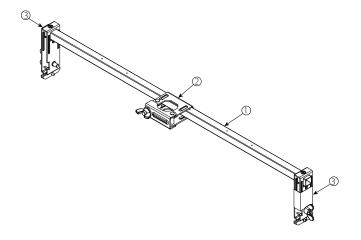
Style AB7

- 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

Both sizes FM/VdS Approved.



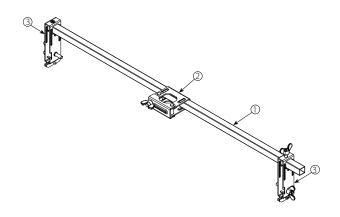
Style AB7 Adjustable

- 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

Both sizes FM/VdS Approved



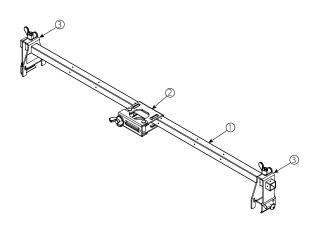
Style AB11

- 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/VdS Approved





4.1 DIMENSIONS (CONTINUED)

VicFlex[™] Brackets

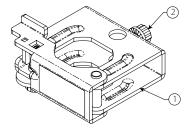
Style AB12

- Suspended Ceilings
- Hard-Lid Ceilings

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

NOTE

FM/VdS Approved



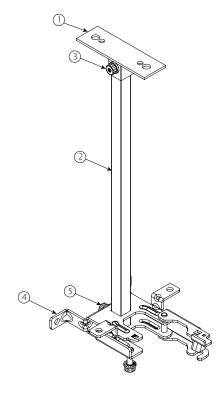
Style ABBA

- 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					
Cap Screw, Serrated Flange, M6 x 1 x 15.2 T25 Torx Drive Recessed						

NOTE

• FM Approved



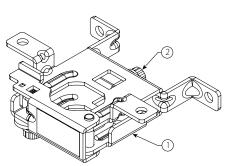
Style ABMM

- 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

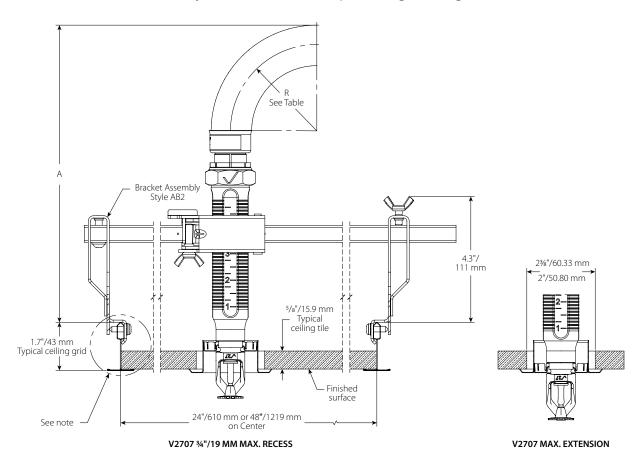




4.2 DIMENSIONS

Clearances

Series AH3 Braided Hose and Style AB2 Bracket with Suspended T-grid Ceilings



		Hose Clearance					
		Straight Reducer				Long Elbow	Short Elbow
	Dimension	V2707 3/4" ension Max Recess	V3802 ½" Max Recess	V2707 ³ / ₄ " Max Recess	V3802 ½" Max Recess	V2707 ³ / ₄ " Max Recess	V3802 ½" Max Recess
	Ziiiiciioioii	inches	inches	inches	inches	inches	inches
		mm	mm	mm	mm	mm	mm
R	Bend Radius	3.0 76.2		7.0 178		_	
А	Minimum Required Installation Space	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.



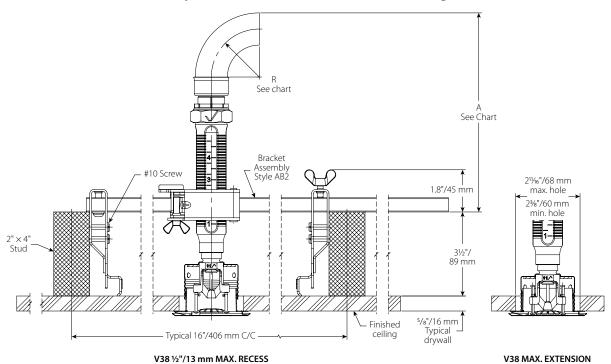
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4.3 DIMENSIONS

Clearances

Series AH3 Braided Hose and Style AB2 Bracket with Wood/Metal Joist Ceiling



					l	Hose Clearance	9			
					S	traight Reduce	er			
	Dimension	V2707 3/4" / 20 mm Max Recess	V3802 ½" / 13 mm Max Recess	V2709 3/4" / 20 mm Sidewall	V2707 3/4" / 20 mm Max Recess	V3802 ½" / 13 mm Max Recess	V2709 3/4" / 20 mm Sidewall	V2707 3/4" / 20 mm Max Recess	V3802 ½" / 13 mm Max Recess	V2709 3/4" / 20 mm Sidewall
		inches	inches	inches	inches	inches	inches	inches	inches	inches
		mm	mm	mm	mm	mm	mm	mm	mm	mm
R	Bend Radius	2.0 50				3.0 80		7.0 175		
А	Minimum Required Installation Space	6.2 158	7.6 193	6.1 155	7.2 183	8.6 218	7.1 180	11.2 285	12.6 320	11.1 282

			Hose Clearance	e		
		Long	Elbow	Short Elbow		
	Dimension	V2707 3/4" / 20 mm Max Recess	4" / 20 mm 34" / 20 mm ½" /			
		inches	inches			
		mm	mm	mm		
R	Bend Radius	_	_			
А	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.

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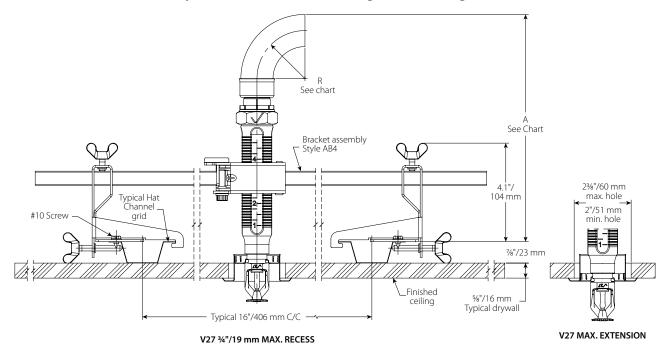
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4.4 DIMENSIONS

Clearances

Series AH3 Braided Hose and Style AB4 Bracket with Hat Furring Channel Ceiling



			Hose Clearance										
				Straight	Reducer			Long Elbow	Short Elbow				
	Dimension	V27 Pendent V38 V27 Pend		V27 Pendent	V38	V27 Pendent	V38	V27 Pendent	V38				
		inches	inches	inches	inches	inches	inches inches	inches	inches				
		mm	mm	mm	mm	mm	mm	mm	mm				
R	Bend Radius	2. 5		3. 8			.0 75	_	_				
Α	Minimum Required Installation Space	8.8 10.2 224 259		9.8 249	11.2 285	13.8 351	15.2 386	8.0 203	5.9 150				

NOTE

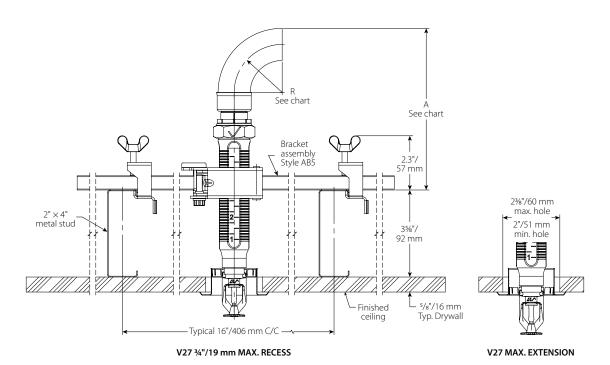
Variations of ceiling grids, sprinkler heads, brackets, and hoses are permitted but may result in clearance differences from the figures above.



4.5 DIMENSIONS

Clearances

Series AH3 Braided Hose and Style AB5 Bracket with Metal Joist Ceiling



				Hose CI	earance		
				Straight	Reducer		
		V2707 3/4" / 20 mm Max Recess	V3802 ½" / 13 mm Max Recess	V2709 3/4" / 20 mm Sidewall	V2707 3/4" / 20 mm Max Recess	V3802 ½" / 13 mm Max Recess	V2709 3/4" / 20 mm Sidewall
		inches	inches	inches	inches	inches	inches
	Dimension	mm	mm	mm	mm	mm	mm
R	Bend Radius		3.0 80			7.0 175	
Α	Minimum Required 7.0 Installation 178 Space		8.7 221	7.1 180	11.0 279	12.7 323	11.1 282

			ŀ	Hose Clearance	e	
			Long Elbow		Low-Profile Long Elbow	Short Elbow
		V2707 3/4" / 20 mm Max Recess	V3802 ½" / 13 mm Max Recess	V2709 3/4" / 20 mm Sidewall	V3802 ½" / 13 mm Max Recess	V3802 ½" / 13 mm Max Recess
		inches	inches	inches	inches	inches
	Dimension	mm	mm mm		mm	mm
R	Bend Radius		_		_	_
A Minimum Required Installation Space		3.5 89	4.9 124	3.6 91	2.9 74	3.3 84

NOTE

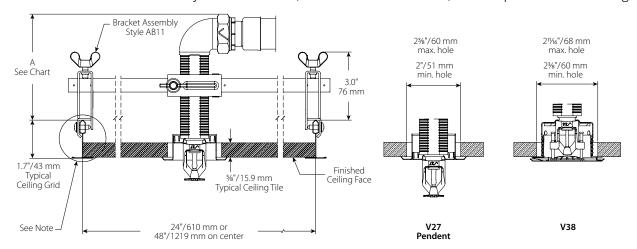
Variations of ceiling grids, sprinkler heads, brackets, and hoses are permitted but may result in clearance differences from the figures above.

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4.6 DIMENSIONS

Clearances

Series AH3 Braided Hose and Style AB11 Bracket (LOW-PROFILE SOLUTION) with Suspended T-Grid Ceilings



		Hose Cl	earance
		Low-Profile Long Elbow	Low-Profile Short Elbow
	Dimension	V2707 ³ / ₄ " / 20 mm Max Recess	V3802 ½" / 13 mm Max Recess
		inches	inches
	Minimum Doguirod	mm	
Α	Minimum Required Installation Space	4.0 102	99

NOTE

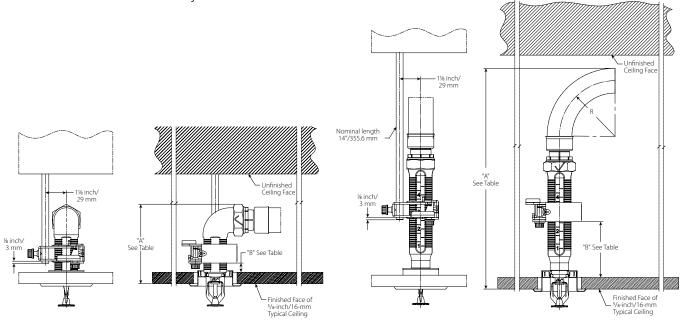
Variations of ceiling grids, sprinkler heads, brackets, and hoses are permitted but may result in clearance differences from the figures above.



4.7 DIMENSIONS

Clearances

Series AH3 Braided Hose and Style AB12 and ABBA Bracket



V2707 ½"/12.7 mm MAX. RECESS

V2707 ¾"/19 mm MAX. RECESS

						Hose CI	earance				
		Low-Profile Short Elbow		Low-Profile Long Elbow		Standard Short Elbow			dard Elbow	Standard Straight Reducer	
Dimension		3/4"/19mm Recessed*	Concealed	3/4"/19mm Recessed	Concealed	3/4"/19mm Recessed	Concealed	3/4"/19mm Recessed	Concealed	3/4"/19mm Recessed	Concealed
		inches	inches	inches	inches	inches	inches	inches	inches	inches	inches
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
R	Bend Radius	_	_	_		_	_	_		7 175.0	
Α	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	B Distance from Top of Typical Ceiling Tile to Bottom of Gate 12.7 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	

^{*} Adjustability will be limited

NOTE

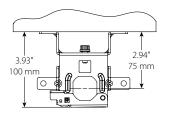
- For Style AB12 Bracket Sprinkler location relative to 3/8" threaded rod is 11/8"/29 mm center-to-center.
- Variations of ceiling grids, sprinkler heads, brackets, and hoses are permitted but may result in clearance differences from the figures above.

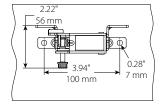


4.8 DIMENSIONS

Stand-off Dimensions

Style ABMM Bracket

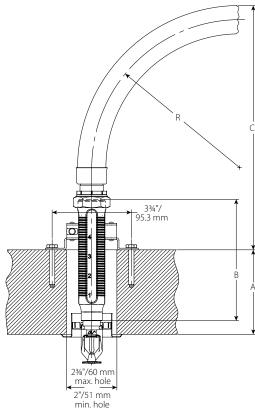




4.9 DIMENSIONS

Clearances

Series AH3 Braided Hose and Style AB3 and ABMM Bracket for Surface Mount Application



D							Hose Cl	earand	e												
						İI	nches					inches									
							mm					mm									
R	Bend 7											8									
n	Radius		175					200													
Α	Wall	Wall 2 4				6	5	8 10		2 4			6		8	10					
_ A	Thickness		50	100		1:	50	200	250		50			100		1:	50	200	250		
В	Outlet	5.75	9	13	5.75	9	13	9	13	13	13	5.75	9	13	5.75	9	13	9	13	13	13
D	Length	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
	Distance																				
ر ا	from Top of	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
	Ceiling to	294	376	478	243	325	427	275	376	325	275	319	402	503	268	351	452	300	402	351	300
	Top of Hose																				

NOTE

- 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.

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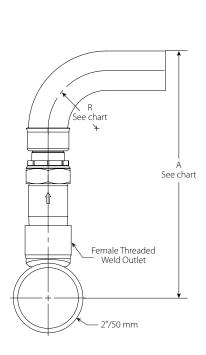
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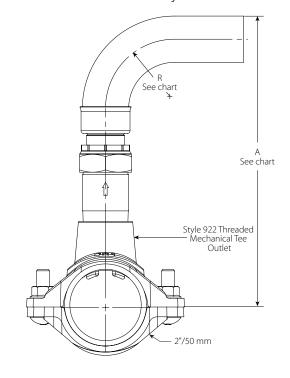
4.10 DIMENSIONS

Branchline Clearances

Series AH3 Braided Hose with Female Threaded Outlet

Series AH3 Braided Hose with Style 922 Threaded Outlet





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

Dime	nsion		Hose Clearance							
			inches							
			mm							
р	Pand Padius	3	4	5	6	7				
R	Bend Radius	80	100	125	150	175				
Α	Min.	8.1	9.1	10.1	11.1	12.1				
A	wiin.	205	231	256	281	307				

5.0 PERFORMANCE - FRICTION LOSS DATA



Series AH3 Braided Hoses Style AB2, AB3, AB4, AB5, AB7, AB7 Adj., AB11, AB12, ABBA and ABMM VicFlex™ Brackets

Hose	Sprinkler	Reduc	er	FI	VI
Length inches mm	K-Factor Imperial S.I.	Nominal Outlet Size inches DN	Туре	Equivalent Length of 1"/33.7 mm Sch. 40 Pipe feet meters	Maximum Bends
	5.6	1/2	Straight	33.8 10.3	
	8.1	DN15	Elbow	35.2 10.7	
	8.0	3/4	Straight	30.9 9.4	
31	11.5	DN20	Elbow	32.1 9.7	2
790	11.2	3/4	Straight	34.1 10.4	2
	16.1	DN20	Elbow	34.0 10.4	
	14.0	3/4	Straight	34.2 10.4	
	20.2	DN20	Elbow	34.0 10.4	
	5.6	1/2	Straight	43.0 13.1	
	8.1	DN15	Elbow	44.9 13.7	
	8.0	3/4	Straight	39.2 11.9	
36	11.5	DN20	Elbow	40.8 12.4	2
915	11.2	3/4	Straight	43.7 13.3	2
	16.1	DN20	Elbow	43.9 13.4	
	14.0	3/4	Straight	44.1 13.4	
	20.2	DN20	Elbow	44.2 13.5	
	5.6	1/2	Straight	65.2 19.9	
	8.1	DN15	Elbow	68.3 20.8	
	8.0	3/4	Straight	68.3 20.8	
48	11.5	DN20	Elbow	68.5 20.8	3
1220	11.2	3/4	Straight	66.7 20.3	J
	16.1	DN20	Elbow	67.8 20.7	
	14.0	3/4	Straight	67.8 20.7	
	20.2	DN20	Elbow	67.8 21.0	

FM NOTES:

- Series AH3 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 standards for safety include, but are not limited to, pressure cycling, corrosion resistance, flow characteristics, vibration resistance, leakage, mechanical and hydrostatic strength.
- Differences in equivalent lengths are due to varying test methods, per FM 1637 and VdS standards. Refer to these standards for additional information regarding friction loss test methods.
- EXAMPLE: A 48-inch 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°.

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5.0 PERFORMANCE - FRICTION LOSS DATA (CONTINUED)



Series AH3 Braided Hoses Style AB2, AB3, AB4, AB5, AB7, AB7 Adj., AB11, AB12, ABBA and ABMM VicFlex™ Brackets

Hose	Sprinkler	Reduce	er	FI	М
Length inches mm	K-Factor Imperial S.I.	Nominal Outlet Size inches DN	Туре	Equivalent Length of 1"/33.7 mm Sch. 40 Pipe feet meters	Maximum Bends
	5.6	₹/2	Straight	87.4 26.6	
	8.1	DN15	Elbow	91.7 27.9	
	8.0	3/4	Straight	97.7 29.7	
60	11.5	DN20	Elbow	100.8 30.7	,
1525	11.2	3/4	Straight	89.7 27.3	4
	16.1	DN20	Elbow	91.7 27.9	
	14.0 20.2	3/4	Straight	91.6 27.9	
		DN20	Elbow	93.4 28.5	
	5.6	1/2	Straight	109.7 33.4	
	8.1	DN15	Elbow	115.3 35.1	
	8.0	3/4	Straight	95.4 29.0	
72	11.5	DN20	Elbow	97.0 29.5	4
1830	11.2	3/4	Straight	113.1 34.5	4
	16.1	DN20	Elbow	115.6 35.2	
	14.0	3/4	Straight	115.5 35.2	
	20.2	DN20	Elbow	118.4 36.1	

FM NOTES:

- Series AH3 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 standards for safety include, but are not limited to, pressure cycling, corrosion resistance, flow characteristics, vibration resistance, leakage, mechanical and hydrostatic strength.
- Differences in equivalent lengths are due to varying test methods, per FM 1637 and VdS standards. Refer to these standards for additional information regarding friction loss test methods.
- EXAMPLE: A 48-inch 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°.



5.1 PERFORMANCE - FRICTION LOSS DATA



Series AH3 Braided Hoses with 90° Low-Profile Elbows Style AB5, AB11, AB12, ABBA and ABMM VicFlex™ Brackets

Hose	Reducer Sprinkler		FM	FM	
Length inches mm	Туре	Nominal Outlet Size inches DN	K-factor Imperial S.I.	Equivalent Length of 1"/33.7mm Sch. 40 pipe feet meters	Maximum Bends
21		½ DN15	5.6 8.1 8.0	53.8 16.3 71.3	
790	LP Elbow	³ / ₄ DN20	11.5 11.2 16.1	21.7 69.8 21.2	2
24		½ DN15	5.6 8.1	60 18.2	
36 915	LP Elbow	³ / ₄ DN20	8.0 11.5 11.2 16.1	77.8 23.7 76.5 23.3	2
		½ DN15	5.6 8.1	75 22.8	
inches mm 31 790 LP Elbow	LP Elbow	¾ DN20	8.0 11.5 11.2 16.1	93.4 28.4 92.5 28.1	3
		½ DN15	5.6 8.1	90 27.4	
	LP Elbow 3/4 DN20		8.0 11.5 11.2 16.1	109 33.2 108.6 33.1	4
		½ DN15	5.6 8.1	105.2 32	
72 1830	LP Elbow	³ / ₄ DN20	8.0 11.5 11.2 16.1	124.8 38 124.9 38	4

FM NOTES:

- Series AH3 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 standards for safety include, but are not limited to, pressure cycling, corrosion resistance, flow characterisitics, vibration resistance, leakage, mechanical and hydrostatic strength.
- Differences in equivalent lengths are due to varying test methods, per FM 1637 and VdS standards. Refer to these standards for additional information regarding friction loss test methods.
- EXAMPLE: A 48-inch 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°.



5.2 PERFORMANCE - FRICTION LOSS DATA



Series AH3 Braided Hoses Style AB2, AB4, AB5, AB7, AB7 Adj., AB10, AB11, and AB12 VicFlex™ Brackets

Hose	Reducer	VdS	
Length	Nominal Outlet Size	Equivalent Length according to EN 10255 DN20 (26.9 x 2.65 mm)	Maximum Bends
mm inches	DN inches	meters feet	
790 31	DN15 ½ DN20 3/4	5.9 19.4	3
915 36	DN15 1/2 DN20 3/4	6.9 22.5	3
1220 48	DN15 ½ DN20 ³ / ₄	9.2 30.0	3
1525 60	DN15 ½ DN20 3/4	11.4 37.5	4
1830 72	DN15 1/2 DN20 3/4	13.7 45.0	4

VDS CEILING MANUFACTURERS LIST

AB2, AB7, AB10, AB11, AB12

- No specific approval
 - 1. Hilti 2. Knauf
 - 3. Lafarge

AB5

- 4. Lindner
- 5. Rigips

- 1. AMF 2. Armstrong
- 3. Chicago Metallic
- 4. Dipling
- 5. Durlum
- 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



Series AH3 Braided Flexible Hoses Style AB2, AB5, AB7, AB10

Hose	CCC		
	Equivalent Length of 1"/33.7mm Sch. 40 pipe according to G5135.16 tested at 114 lpm (30 gpm)		
Length	Straight Configuration	Bend Configuration	
mm	meters	meters	
inches	feet	feet	
790	5.19	7.91	
31	17.0	26.0	
915	6.17	9.92	
36	20.2	32.6	
1220	8.93	14.55	
48	29.3	47.7	
1525	11.10	20.3	
60	36.4	65.7	
1830	13.43	23.64	
72	44.1	77.6	



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 AH3 Hose with 24" Bracket

Hose Length	Total Load		Maximum Uniform Load	
inches mm	lb	N	lb/linear ft	N/linear m
31 790	4.8	21.4	2.4	35.0
36 915	5.0	22.2	2.5	36.5
48 1220	5.6	24.9	2.8	40.9
60 1525	6.1	27.1	3.1	44.5
72 1830	6.6	29.4	3.3	48.2

Series AH3 Hose with 48" Bracket

Hose Length	Total Load		Maximum Uniform Load	
inches mm	lb	N	lb/linear ft	N/linear m
31 790	5.7	25.4	2.9	41.6
36 915	5.9	26.2	3.0	43.1
48 1220	6.5	28.9	3.3	47.4
60 1525	7	31.1	3.5	51.1
72 1830	7.6	33.8	3.8	55.5

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)

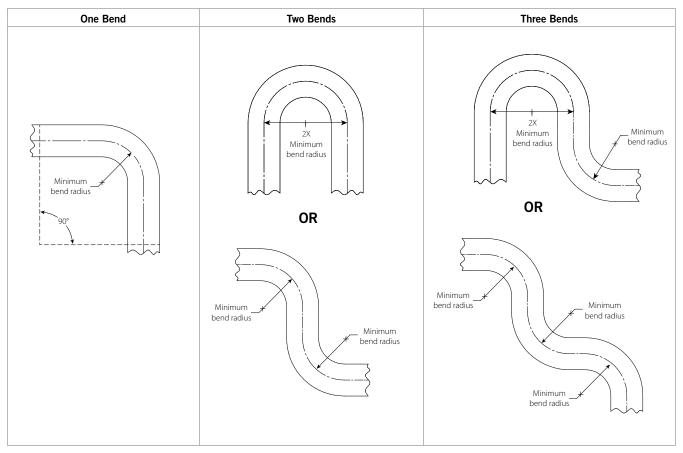
Suspension System	Actual Length	Minimum Allowable Uniform Load	
	ft/m	lb/linear ft	N/linear m
	Light	5.0	75.7
Direct Hung	Intermediate	12.0	181.0
	Heavy	16.0	241.7

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.

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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: 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 <u>Victaulic Installation Handbook</u> 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.

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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.

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