

VicFlex™ Stainless Steel Sprinkler Fittings

Series AQD Braided Flexible Hose Assemblies for Metal Ducts



1.0 PRODUCT DESCRIPTION

VicFlex™ Stainless Steel Sprinkler Fittings provide fast, easy sprinkler installation for metal duct system applications.

System Options

- Braided flexible stainless steel hose (Series AH2-CC) in lengths: Series AQD: 48"/1220 mm
Series AQD applicable for round and square duct types.

Maximum Working Pressure

- 200 psi/1375 kPa

Connections

- To branch line (inlet) via 1"/25mm Grooved IGS or 1"/25 mm NPT/BSPT male thread
- To sprinkler head (outlet) via ½"/15 mm or ¾"/20 mm NPT/BSPT female thread.

Base mount

- Flat
- Round

Minimum Bend Radius

- 7"/178mm

Maximum Number of Bends per Flexible Drop

- Three

Hose Length inches mm	Duct Type	
	Round Duct Diameter inches mm	Square Duct
48 1220	8 – 12 200 – 300	Flat Plate
	13 – 16 325 – 400	
	17 – 22 425 – 550	

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

2.0 CERTIFICATION/LISTINGS



3.0 SPECIFICATIONS – MATERIAL

Series AQD Metal Duct Bracket Assembly:

- **Reducer and Nipple:** Carbon Steel, Zinc Plated
- **Base Mount:** Stainless Steel
- **Sleeve:** Polyethylene or Cellophane
- **Coupling Assembly:** Refer to Victaulic [publication 10.64](#)
- **Coupling Gasket:** EPDM (standard), Silicone (optional)
- **O-Ring:** FKM (Fluoroelastomer)

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:** Polyethylene
- **Nut and Nipple:** 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.

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.
Note: Reference should always be made to [publication I-100](#) Victaulic Field Installation Handbook for gasket lubrication instructions.
Note: 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 [publication 05.01](#) 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

4.0 DIMENSIONS

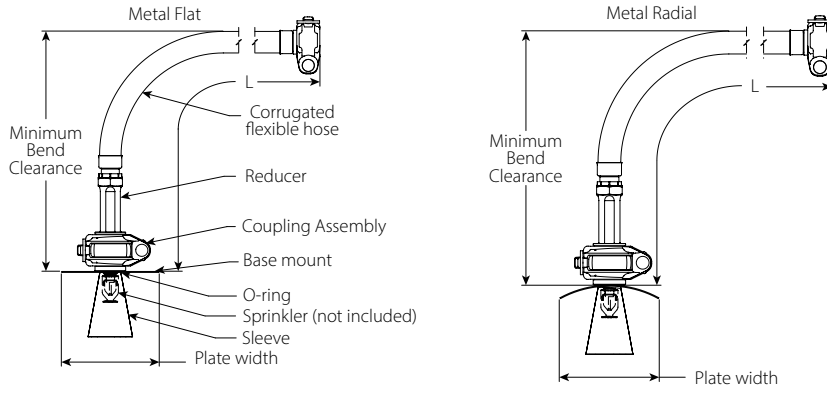


Plate Width	L	Allowable Minimum Bend Clearance	Water Filled Weight		
				inches	mm
6.0	46.8	14.9	8.8		
152	1189	378	4.0		

5.0 PERFORMANCE

Friction Loss Data – Series AQD

Hose		FM	
AH2-CC Length inches mm	Bend Radius inches mm	Maximum Number of 90° Bends	Equivalent Length of 1"/33.7 mm Schedule 40 Pipe feet meters
48 1220	7 177.8	3	23.4 7.1

FM NOTES

- The Series AH2-CC 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 characteristics, 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°.

6.0 NOTIFICATIONS

WARNING

- 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 micro-biologically 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-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-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

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, 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.

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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 the Victaulic installation handbook or installation instructions of 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 www.victaulic.com.

Warranty

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

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