

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
P.O. Box 16620
Little Rock, AR 72231
Phone 501-834-3320
Fax 501-834-5416

Date: 10/10/2023

Return Request: 10/16/2023

Project: ASU Mid-South RC & UC Chiller Replacement

Supplier: Fluid Solutions

Manufacturer: Mason

Submittal: Expansion Compensation In HVAC Systems

Submittal Number: 23 05 16-01

Drawing # and Installation: Mechanical Drawings

ARCHITECT

Witsell Evans Rasco
901 W. Third Street
Little Rock, AR 72201
501-374-5300

ENGINEER

Pettit & Pettit
201 E. Markham St. #400
Little Rock, AR 72201
501-374-3731

GENERAL CONTRACTOR

Baldwin & Shell
3725 Champion Hills Driver, Suite 1300
Memphis, TN 38125
901-755-2952

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Rd.
N. Little Rock, AR 72117
501-834-3320

Notes:

CSUSA PROJECT NO.

23-1024

jon@comfortar.com



SUBMITTAL DATA

Date: August 31, 2023
Project: ASU Midsouth
Contractor: Comfort Systems
Engineer: Pettit & Pettit

MASON AIR COOLED CHILLER SFEJ KEVLAR CONNECTORS (AS SPECIFIED)

Qty (6) – 6” Mason SFEJ Flexible Chiller Connectors (CH-01, 01, & CH-2)

6815 Dewaffelbaker Dr., Maumelle, AR 72113

Phone (501) 663-8886 • Fax (501) 663-8738

www.fluidsolutionsinc.com



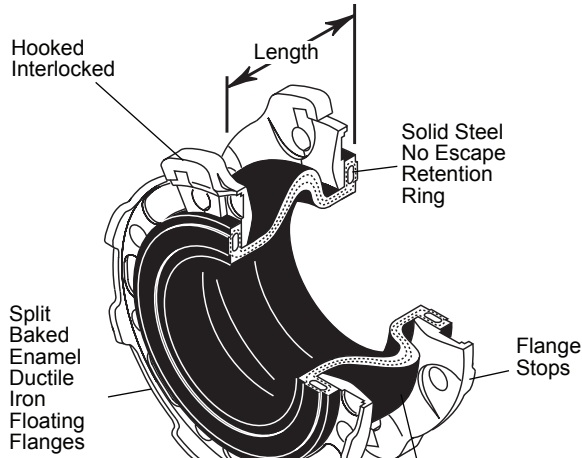
MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products
 350 Rabro Drive 2101 W. Crescent Ave., Suite D
 Hauppauge, NY 11788 Anaheim, CA 92801
 631/348-0282 714/535-2727
 FAX 631/348-0279 FAX 714/535-5738
 Info@Mason-Ind.com Info@MasonAnaheim.com
 www.Mason-Ind.com

JOB NAME _____
 CUSTOMER _____
 CUSTOMER P.O. _____
 MASON M.I. _____
 DWG. NO. _____

SFEJ

SAFLEX SINGLE
 SPHERE EPDM
 CONNECTOR &
 EXPANSION JOINT



- 150 lb ASA Drilling
- 300 lb ASA Drilling
- BRITISH Series E Drilling
- BRITISH Series F Drilling
- DIN or PIN-10
- DIN or PIN-16
- DIN or PIN-25

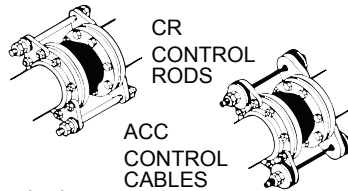
MULTI-LAYERED (DuPont Kevlar®) TIRE CORD FABRIC REINFORCEMENT WITH PEROXIDE CURED EPDM (DuPont Nordel) COVER, LINER AND FABRIC FRICTIONING

If not all Peroxide Cured EPDM, Materials are—

Cover Liner

- Neoprene
- Natural Rubber
- Hypalon
- Nitrile (Buna N)
- EPDM

- CR Control Rods
- ACC Control Cables



Nominal 250 psi 17 Bar Standard Safeflex Connectors do not require control rods or cables in anti-vibration applications when pre-extended during installation in accordance with installation instructions.

Nominal 335 psi 23 Bar Heavy Duty units should be installed with control rods or cables over 275 psi 19 Bar.

When Expansion Joints are used for piping expansion or contraction, Anchors must be provided on both sides of the expansion joint at the extreme ends of the protected run or the joints will not function properly.

SAFLEX SFEJ DIMENSIONS AND ALLOWABLE MOVEMENTS

Pipe Size (in) (mm)	Length (in) (mm)	Allowable Movements						
		Compression (in) (mm)	Elongation (in) (mm)	Transverse ±(in) (mm)	Angular (degrees)			
1 1/2	40				21°			
2	50				20°			
2 1/2	65	4	100	5/8 16	1/2 12	3/8 9.5	19°	
3	75						18°	
4	100						17°	
5	125						16°	
6	150							
8	200	6	150	1	25	5/8 16	5/8 16	14°
10	250							13°
12	300							12°
14	350	9	225	1 1/8 29	7/8 22	7/8 22	10°	
16	400						9°	
18	450						8°	
20	500						7°	
24	600						10 250	1 1/8 29

Standard and High Pressure Construction— SAFLEX SFEJ Pressure Reduction at Higher Temperatures

Construction & Sizes	Nominal Rating at:					Max. Vacuum (in Hg) (Minus Bar)
	170°F 77°C	190°F 88°C	210°F 99°C	230°F 110°C	250°F 121°C	
Standard 1 1/2" - 16" 40 - 400mm	250 psi 17 Bar	245 psi 16.5 Bar	235 psi 16 Bar	225 psi 15 Bar	215 psi 14 Bar	18" 0.6
Standard 18" - 24" 450 - 600mm	180 psi 12 Bar	175 psi 11.5 Bar	170 psi 11 Bar	165 psi 10.5 Bar	155 psi 10 Bar	18" 0.6
High Pressure 1 1/2" - 16" 40 - 400mm	335 psi 23 Bar	325 psi 22 Bar	315 psi 21 Bar	300 psi 20 Bar	285 psi 19 Bar	29" 1.0
High Pressure 18" - 24" 450 - 600mm	225 psi 15 Bar	220 psi 14.5 Bar	210 psi 14 Bar	200 psi 13.5 Bar	190 psi 13 Bar	29" 1.0

Burst pressures are a minimum of three times Operating Pressures.

Pressure Ratings—

Nominal 250 psi 17 Bar Standard
 Nominal 335 psi 23 Bar Heavy Duty Okay for Full Vacuum

CERTIFICATION DATA

QUANTITY REQUIRED	SAFLEX SFEJ SIZE	TAG