



FLUE DUCT JOINTS FOR DUCTING SYSTEMS



HOLZ RUBBER STYLE 952 ARCH-DESIGN EXPANSION JOINTS are designed for ultra-high movement in short face to face applications. Primarily for positive pressure clean systems having ultra-high axial compression and extension movement, the Style 952 is constructed with a large, high, “V”-shaped arch which allows very high axial movement while exerting very low forces on the ductwork, duct flanges and equipment.

BENEFITS OF STYLE 952 ARCH DESIGN

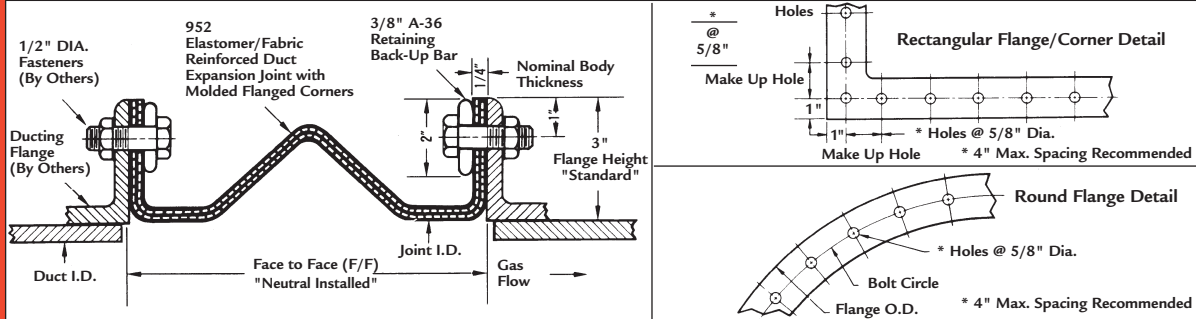
- **ELIMINATION OF CORNER FAILURES**
Each corner is fabricated independently in a fully *molded* configuration without splices.
- **MARGIN OF ENGINEERED SAFETY**
The arches are molded into the corners and straight sections at the time of manufacture.
- **ADAPTABILITY**
Available in round or rectangular configurations with variable face to face dimensions, the expansion joint may be made to fit existing ductwork very easily.
- **ELIMINATION OF COSTLY GASKETS**
The integral rubber flange acts as a built-in gasket.
- **ELIMINATION OF HEAVY DUCTWORK**
The low spring rates of the expansion joints allow movement to occur without excessive forces on the flanges or ductwork.
- **CHEMICAL RESISTANCE**
The chemical resistance characteristics of rubber allow the selection of the material which best suits each application.

MATERIALS & TEMPERATURE SELECTION CHART

MAXIMUM CONTINUOUS OPERATING TEMPERATURES	MATERIAL		HOLZ RUBBER MATERIAL CODE	TYPICAL APPLICATION
	TOWARD GAS FLOW TUBE	TOWARD ATMOSPHERE COVER		
250 °F	Neoprene	Neoprene	333	Hot Oily Air/Gas Special Chemicals
250 °F	Hypalon	Hypalon	666	
300 °F	Butyl	Butyl	555	Hot Non-Oily Air/Gas Hot Air/Gas Very Hot Air/Gas
300 °F	E.P.D.M.	E.P.D.M.	777	
400 °F	Viton	Viton	888	



Typical Installation Arrangement



Maximum Movement Capabilities (Inches)

Movement At Shown Face To Face	6" F/F			9" F/F			12" F/F			16" F/F		
	Axial Compression	Axial Extension	Lateral Offset	Axial Compression	Axial Extension	Lateral Offset	Axial Compression	Axial Extension	Lateral Offset	Axial Compression	Axial Extension	Lateral Offset
	2.25	1.25	1.25	3.0	1.5	2.0	4.0	2.0	2.5	5.0	2.75	3.0

NOTES:

- 1 Lateral offset figures are based on the assumption that all lateral movement occurs prior to compression movements. In practice, movements may occur simultaneously thus the allowable lateral offset may increase. Contact HOLZ RUBBER for information.
- 2 Extension may be increased by pre-compression during installation. However, the amount of pre-compression will correspondingly reduce the compression rating.
- 3 Anchors should be located so rated movement is not exceeded.

Pressure/Vacuum Ratings

Nominal Body Thickness	Number of Body Plies	Pressure/Vacuum			
		PSIG	In. H ₂ O	kPa	Excursion PSIG
1/8"	1	±1	±28	±6.9	±2
1/4"	2	±2	±55	±13.8	±3
3/8"	3	±4	±111	±27.6	±6

Positive Pressure Applications: Recommended.
 Vacuum Applications: Not recommended for constant vacuum and extension. If joint is to be subjected to axial extension under vacuum conditions, vacuum rating may be reduced and a set-back may be required to ensure the joint is not in the media stream. Consult HOLZ RUBBER.

Product Weight

Nominal Body Thickness	pounds per (sq. ft.)		(Linear ft.)
	Elastomer		
	EPDM	VITON	
1/8"	.90	1.4	5.0
1/4"	1.4	2.1	
3/8"	2.1	3.1	

Add 8 inches to the FACE to FACE dimension for calculating the square footage.
 Retaining Bars: 3/8" x 2" A-36 Carbon Steel.

Simplified 952 Specification

- 1.0 Furnish fabric reinforced elastomer expansion joint for a hot gas duct system.
- 2.0 Expansion Joint
 - 2.1 The expansion joint shall be manufactured in ARCH-design configuration with a minimum of one ply of asbestos-free reinforcement fabric vulcanized into a homogeneous product ____" nom. thick. The flanges shall be an integral part of the expansion joint.
 - 2.2 The expansion joint shall be constructed with compound curve molded corners and straight sections with the arch premolded. The arch shall continue throughout the corner and straight sections and shall be fully developed when in the neutral installed position. Precompression or tucking of the corner to form the arch will not be permitted.
 - 2.3 The corners on rectangular expansion joints shall be completely molded and free of splices.
 - 2.4 The expansion joint will be designed for _____ psi and to operate at a temperature of _____ F°.
 - 2.5 The expansion joint shall be designed to accept the system movements without imposing any significant forces on the ductwork.
 - 2.6 The Expansion joints shall be Style 952 as manufactured by HOLZ RUBBER.
- 3.0 Retaining Bars
 - 3.1 The retaining bars shall be made of 3/8" x 2" A-36 Carbon Steel.

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