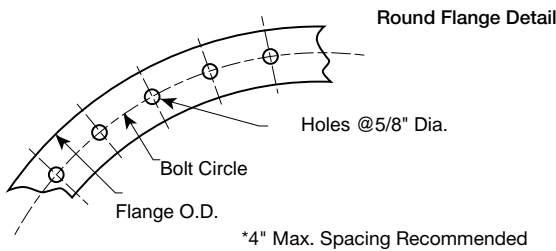
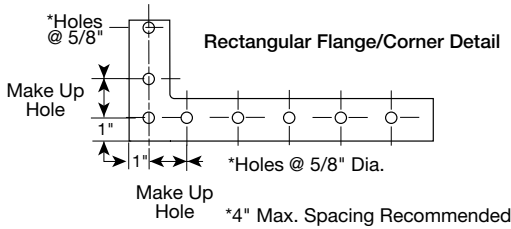
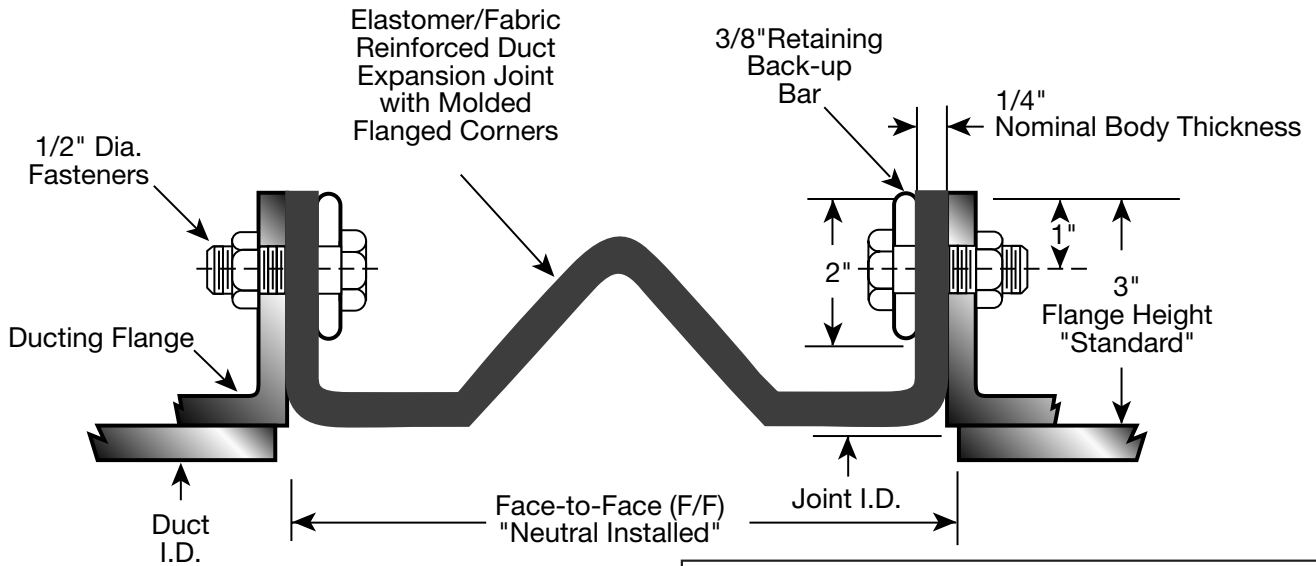


# Redflex® Series LDV-1

## Lightweight Duct Expansion Joint

### Rectangular or Circular "V" Arch Style

#### Typical Installation Arrangement



#### Pressure/Vacuum Ratings

Nominal Body Thickness	No. of Body Plies	Pressure/Vacuum			
		PSIG	In. H <sub>2</sub> 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

**Vacuum Applications:**  
For constant vacuum a set-back may be required to ensure the Joint is not in the media stream.

#### Product Weight

Nominal Body Thickness	pounds per (sq. ft.)		Retaining Ring/Bars
	(linear ft.)		
	Elastomer		
	Neoprene Butyl	Viton®	
1/8"	.80	1.3	6.0
1/4"	1.3	1.9	
3/8"	1.8	2.7	

Add 7 inches to the FACE to FACE dimension for calculating the square footage.

Retaining rings/Bars: standard material - 3/8"x2" chamfered or rounded edge steel.

#### Maximum Movement Capabilities in Inches

Movement At Shown Face-to-Face	6" F/F			9" F/F			12" F/F			16" F/F		
	Axial Compress	Axial Extension	Lateral Deflect	Axial Compress	Axial Extension	Lateral Deflect	Axial Compress	Axial Extension	Lateral Deflect	Axial Compress	Axial Extension	Lateral Deflect
	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:

- The offset lateral movements shown above are assumed to have occurred before any compressing movements have taken place. In actuality, movements often happen at the same time, thus increasing the allowable lateral offset.
- Pre-compressing the joint while installing will increase the allowable extension value and reduce the compression value by the same amount.
- Ensure anchors are located so that rated movements are not exceeded.