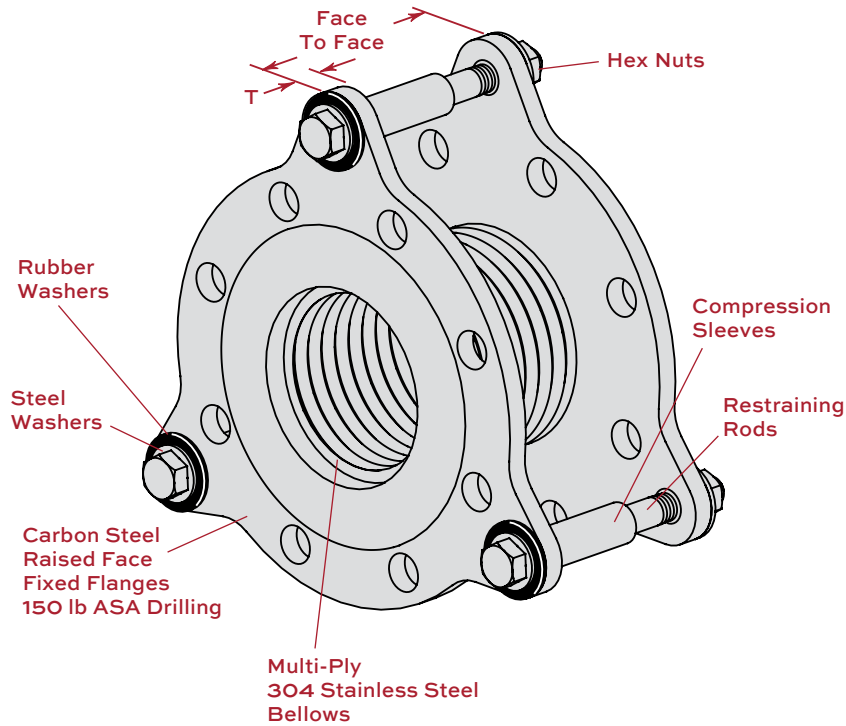


# RESTRAINED FLANGED BELLOWS

**RFB**



Our steam service ratings are very low in the interest of safety although our 70°F (21°C) pressure ratings are as high or higher than our competitors. All locations where failure could lead to personal injury or suffocation must be avoided. In dangerous locations we suggest housed expansion joints, solid loops, ball joints, packed devices, etc. rather than thin-walled flexible products regardless of manufacturer.

Consult factory with full location description as well as service conditions for higher pressure or temperature applications.

All Restrained Flanged Bellows are designed for 1" (25mm) Compression, 3/8" (9mm) Elongation and 1/8" (3mm) Transverse movement. If piping is not anchored, the pressure will open the joints 3/8" (9mm). When proper anchors are installed, movements will take place as required.

Full Vacuum Rating- 30" (762mm) Hg

## TYPE RFB DIMENSIONS & PRESSURE RATINGS

Type	Pipe Size & Face to Face		Corrugations per		Rated Pressure	
	(in)	(mm)	(ft)	(m)	@70°F (psi)	@21°C (kg/cm²)
RFB-	2 x 6	50 x 152	24	79	225	15
	2 1/2 x 6	65 x 152	24	79	225	15
	3 x 6	80 x 152	24	79	225	15
	4 x 6	100 x 152	24	79	225	15
	5 x 6	125 x 152	24	79	225	15
	6 x 6	150 x 152	24	79	225	15
	8 x 6	200 x 152	24	79	225	15
	10 x 8	250 x 203	16	52	225	15
	12 x 8	300 x 203	16	52	225	15
	14 x 8	350 x 203	16	52	225	15
16 x 8	400 x 203	16	52	225	15	

Face to Face Tolerance: minus 1% plus 3%. Minimum Burst is four times the Rated Pressure. Safety factor of 4.

## CARBON STEEL PLATE FLANGE THICKNESS

Pipe Size (in)	Pipe Size (mm)	Flange Thickness	
		(in)	(mm)
2 thru 4	50 thru 100	5/8	16
5 thru 6	125 thru 150	3/4	19
8 thru 12	200 thru 400	1	25

## RATED PRESSURES @ ELEVATED TEMPERATURES (psi) (kg/cm²)

Factor 0.92 (250°F) (121°C)	Factor 0.86 (350°F) (176°C)	Factor 0.81 (450°F) (232°C)
210	15	200
14	190	13

## SATURATED STEAM RECOMMENDED PRESSURE LIMITS

Max Gauge (psi)	Temp Ref. (°F)	Max Gauge (kg/cm²)	Temp Ref. (°C)
125	9	355	179