

CHALLENGER

RUBBER EXPANSION JOINT SINGLE SPHERE

MODEL AFA99SF

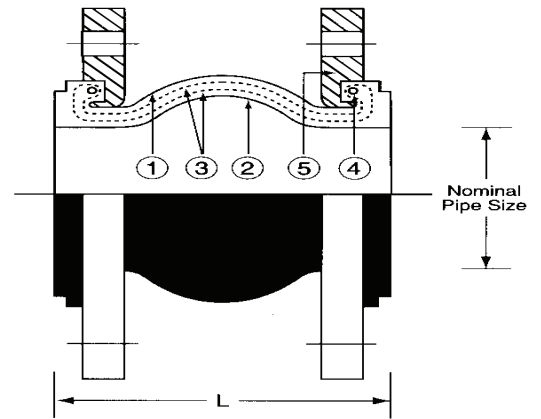
FEATURES

- SIZE RANGE: 40MM - 300MM
- MAXIMUM PRESSURE: 16 BAR
- VACUUM RATING: 700mm/Hg
- TEMPERATURE RANGE: -10°C to 80°C
- FLANGES: TABLE E
- APPLICABLE FLUIDS: WATER, WARM WATER, SEA WATER, WEAK ACIDS, COMPRESSED AIR



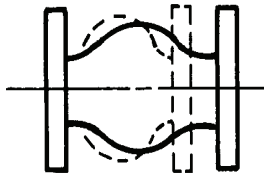
ITEM	COMPONENT	MATERIAL (ASTM)
1	BODY (OUTER LAYER)	NEOPRENE
2	BODY (INNER LAYER)	NEOPRENE
3	REINFORCING FABRIC	NYLON FABRIC
4	WIRE	HARD STEEL WIRE
5	FLANGE	MILD STEEL (Galv'd)

OPERATING TEMPERATURE AGAINST OPERATING PRESSURE					
Operating Temperature °C	Ambient	50	60	70	80
Maximum Operating Pressure (BAR)	16	12.4	10	7.5	6.5

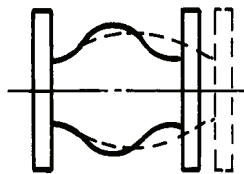


ALLOWABLE MOVEMENTS

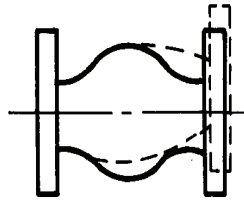
1. AXIAL COMPRESSION



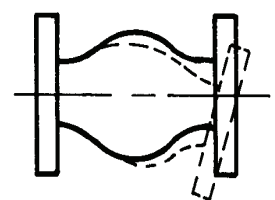
2. AXIAL ELONGATION



3. LATERAL DEFLECTION



4. ANGULAR DEFLECTION



DIMENSIONS										
SIZE MM	40	50	65	80	100	125	150	200	250	300
NEUTRAL LENGTH L	93	99	108	116	129	142	156	177	206	217
AXIAL COMPRESSION	8	8	12	12	12	16	16	20	20	20
AXIAL ELONGATION	4	4	6	6	10	10	10	14	14	14
LATERAL DEFLECTION +/-mm	8	8	10	10	12	12	12	18	18	18
ANGULAR DEFLECTION +/- DEG	15	15	15	15	15	15	15	15	15	15

NOTES

- Higher temperatures affect movement and pressure. As temperature increases, rated values must be reduced accordingly.
- Pressures shown are recommended "operating", test pressure is 1.5 times "operating".
- Vacuum rating is based on neutral installed length without external load. Products shall not be installed "elongated" on vacuum applications.
- Expansion joints may operate in pipelines or equipments carrying fluids at evaluated temperatures and pressures. Normal precautions shall be taken to make sure these parts are installed correctly and inspected regularly. Precautions shall be taken to protect personnel in the event of leakage or splash.