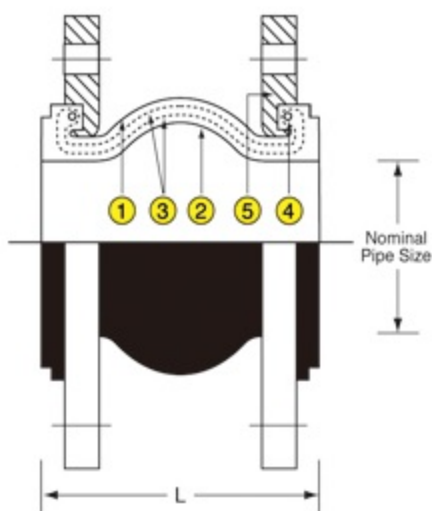


# **AFA**<sup>®</sup> STYLE 99 SF SINGLE SPHERE FLANGE



S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	EPDM
2	Body (Inner Layer)	EPDM
3	Reinforcing Fabric	Nylon Fabric
4	Wire	Hard Steel Wire
5	Flange	Mild Steel (Galv'd)

**Operating Pressure** : 16 Bar  
**Operating Temperature** : -10 to 80 Deg C  
**Vacuum Rating** : 700 MM/HG  
**\*Applicable Fluids** : Water, Warm Water, Sea Water, Air & Weak Acid  
**Flanges Standard** : DIN, ANSI, JIS & BS

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	ALLOWABLE MOVEMENT				INSTALLATION TOLERANCE			
			AXIAL COMPR- SSION	AXIAL ELONG- ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION	AXIAL COMPR- SSION	AXIAL ELONG- ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG	MM	MM	+ OR - MM	+ OR - DEG
20	¾	93	6	3	6	15	5	3	3	5
25	1	93	6	3	6	15	5	3	3	5
32	1¼	93	6	3	6	15	5	3	3	5
40	1½	93	6	3	6	15	5	3	3	5
50	2	99	6	3	6	15	5	3	4	5
65	2½	108	10	4	8	15	5	3	4	5
80	3	116	10	4	8	15	5	3	4	5
100	4	129	10	6	10	15	5	3	5	7.5
125	5	142	12	6	10	15	5	3	5	7.5
150	6	156	12	6	10	15	5	3	5	7.5
200	8	177	15	10	16	15	5	3	8	7.5
250	10	206	15	10	16	15	5	3	8	7.5
300	12	217	15	10	16	15	5	3	8	7.5

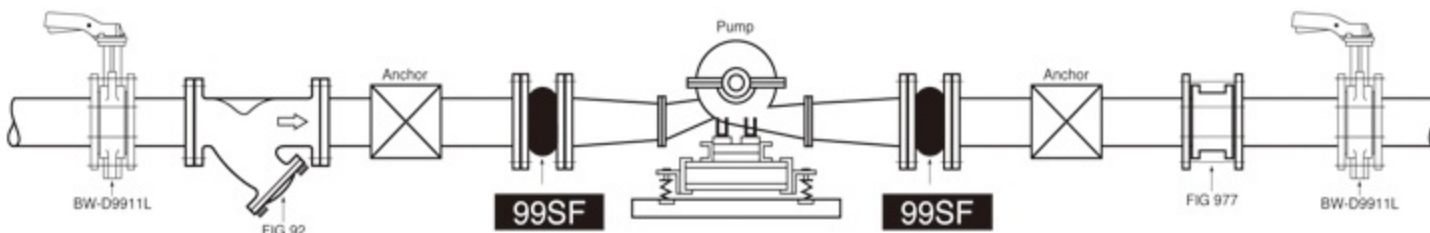
## OPERATING TEMPERATURE AGAINST OPERATING PRESSURE

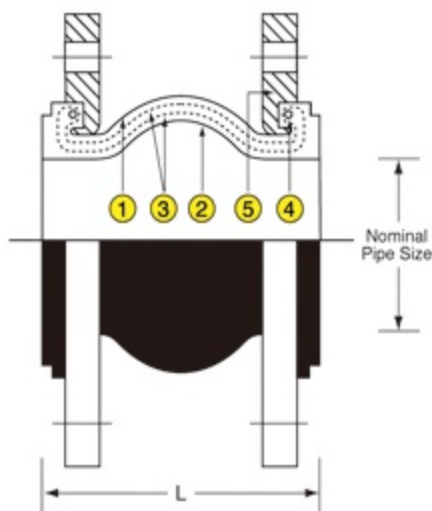
OPERATING TEMPERATURE °C	AMBIENT	50	60	70	80
MAXIMUM OPERATING PRESSURE (BAR)	16	12.4	10	7.5	6.5



## 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.
- \* For other kinds of applicable fluids, except the above, to which the rubber joint becomes applicable, please kindly consult your supplier or manufacturer.



**AFA<sup>®</sup>****STYLE 99 SF**  
**SINGLE SPHERE FLANGE**

S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	EPDM
2	Body (Inner Layer)	EPDM
3	Reinforcing Fabric	Nylon Fabric
4	Wire	Hard Steel Wire
5	Flange	Mild Steel (Galv'd)

Operating Pressure : 10 Bar

Operating Temperature : -10 to 80 Deg C

Vacuum Rating : 700 MM/HG

\*Applicable Fluids : Water, Warm Water,  
Sea Water, Air & Weak Acid

Flanges Standard : DIN, ANSI, JIS &amp; BS

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	ALLOWABLE MOVEMENT				INSTALLATION TOLERANCE			
			AXIAL COMPR- SSION	AXIAL ELONG- ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION	AXIAL COMPR- SSION	AXIAL ELONG- ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG	MM	MM	+ OR - MM	+ OR - DEG
350	14	266	15	12	16	15	5	3	8	7.5
400	16	266	15	12	16	15	5	3	8	7.5
450	18	200	15	10	16	15	5	3	8	7.5
500	20	200	15	10	16	15	5	3	8	7.5
600	24	250	15	10	16	15	5	3	8	7.5

**OPERATING TEMPERATURE AGAINST OPERATING PRESSURE**

OPERATING TEMPERATURE °C	AMBIENT	50	60	70	80
MAXIMUM OPERATING PRESSURE (BAR)	10	7.5	6.2	5.0	4.0

**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.
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