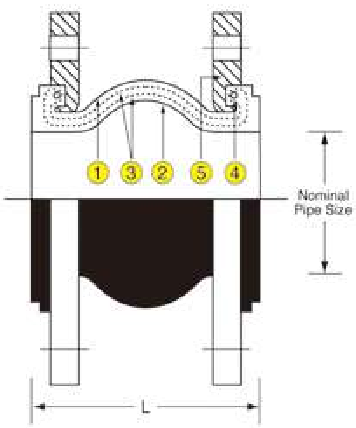
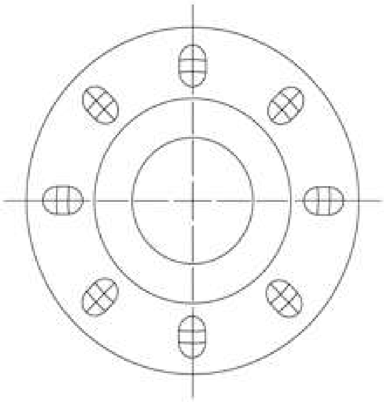
AFA® STYLE 99 SF - UNI

EMPOWER
CORPORATION (SELATAN) SDN BHD
45 & 45A Jalan Bakawali 36, Taman Johor Jaya, 81100 Johor Bahru, Johor, Malaysia
Tel : 607-3511288 Fax : 607-3511292 Email : sales@empowercorp.biz

SINGLE SPHERE UNIVERSAL DUCTILE IRON FLANGE





S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
3	Reinforcing Fabric	Nylon Fabric
4	Wire	Hard Steel Wire
5	Flange	Ductile Iron with Epoxy Coated

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**
Universal Flanges Standard	:	**PN10/16,ANSI 150# & JIS 10K**

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
20	3/4	93	8	4	8	15
25	1	93	8	4	8	15
32	1 1/4	93	8	4	8	15
40	1 1/2	93	8	4	8	15
50	2	99	8	4	8	15
65	2 1/2	108	12	6	10	15
80	3	116	12	6	10	15
100	4	129	12	10	12	15
125	5	142	16	10	12	15
150	6	156	16	10	12	15
200	8	177	20	14	18	15
250	10	206	20	14	18	15
300	12	217	20	14	18	15

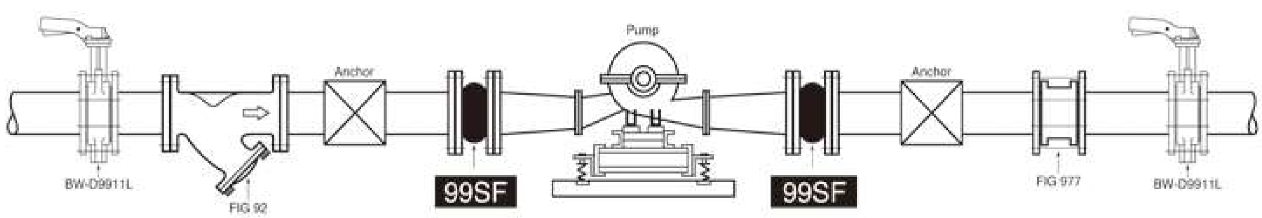
OPERATING TEMPERATURE AGAINST OPERATING PRESSURE

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.



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SINGLE SPHERE FLANGE

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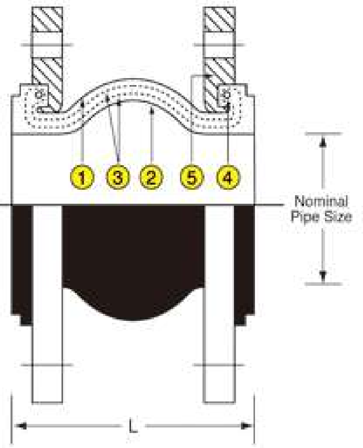

S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
3	Reinforcing Fabric	Nylon Fabric
4	Wire	Hard Steel Wire
5	Flange	Mild Steel (Galv'd)

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	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
20	3/4	93	8	4	8	15
25	1	93	8	4	8	15
32	1 1/4	93	8	4	8	15
40	1 1/2	93	8	4	8	15
50	2	99	8	4	8	15
65	2 1/2	108	12	6	10	15
80	3	116	12	6	10	15
100	4	129	12	10	12	15
125	5	142	16	10	12	15
150	6	156	16	10	12	15
200	8	177	20	14	18	15
250	10	206	20	14	18	15
300	12	217	20	14	18	15

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.
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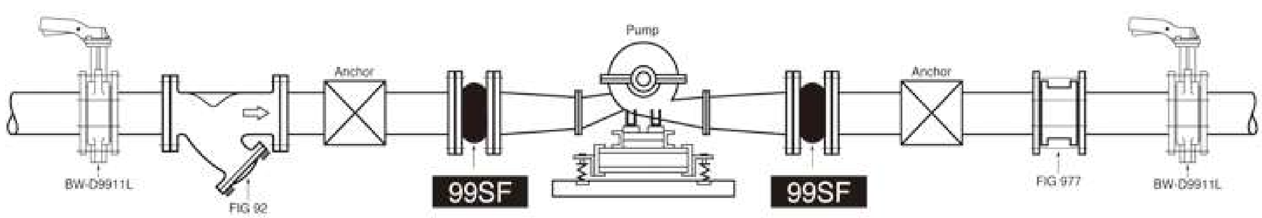

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STYLE 99 SF

SINGLE SPHERE FLANGE

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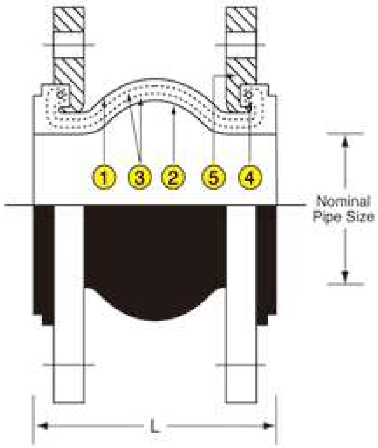

S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
3	Reinforcing Fabric	Nylon Fabric
4	Wire	Hard Steel Wire
5	Flange	Mild Steel (Galv'd)

Operating Pressure	:	See Table Below
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	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECT-ION	ANGULAR DEFLECT-ION	MAXIMUM OPERATING PRESSURE
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG	BAR
350	14	266	25	16	18	15	10
400	16	266	25	16	18	15	10
450	18	200	20	12	18	15	10
500	20	200	20	12	18	15	10
600	24	250	20	12	18	15	10
700	28	250	16	10	14	10	8
750	30	250	16	10	14	10	8
800	32	250	16	10	12	8	8
900	36	250	12	8	12	8	8
1000	40	300	12	8	12	8	6
1200	48	300	12	8	10	6	6

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
	8	6.0	5.0	4.0	3.2
	6	4.5	3.5	3	2.5

NOTES

- Higher temperatures affect movement and pressure. As temperature increases, rated values must be reduced accordingly.
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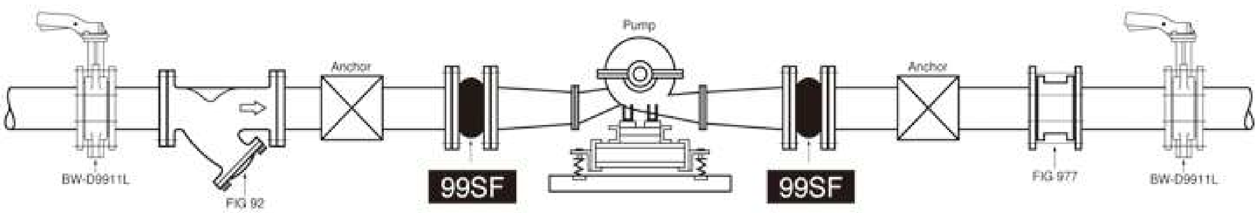

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STYLE 99 TF - UNIVE

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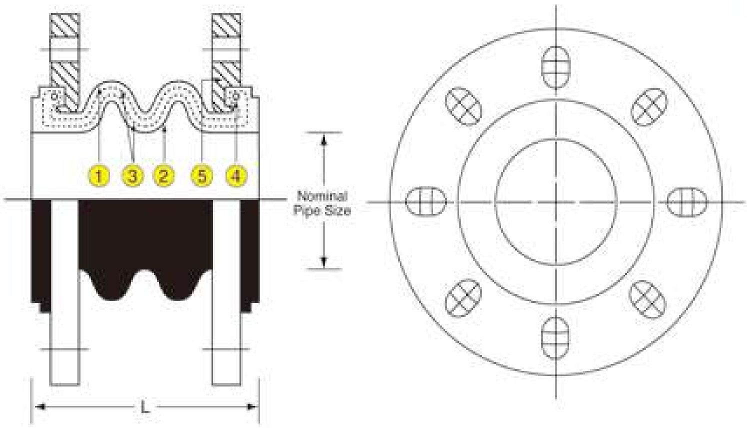
TWIN SPHERE UNIVERSAL DUCTILE IRON FLANGE



S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
3	Reinforcing Fabric	Nylon Fabric
4	Wire	Hard Steel Wire
5	Flange	Ductile Iron with Epoxy Coated

Operating Pressure : **16 Bar**
Operating Temperature : **-10 to 80 Deg C**
Vacuum Rating : **650 MM/HG**
***Applicable Fluids** : **Water, Warm Water, Sea Water, Air & Weak Acid**
Universal Flanges Standard : **PN10/16,ANSI 150# & JIS 10K**

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
20	3/4	120	15	10	15	20
25	1	120	15	10	15	20
32	1 1/4	175	25	15	20	30
40	1 1/2	175	25	15	20	30
50	2	175	25	15	20	30
65	2 1/2	175	25	15	20	30
80	3	175	25	15	20	30
100	4	225	30	20	25	30
125	5	225	30	20	25	30
150	6	225	30	20	25	30
200	8	325	40	25	30	30
250	10	325	40	25	30	30
300	12	325	40	25	30	30

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.
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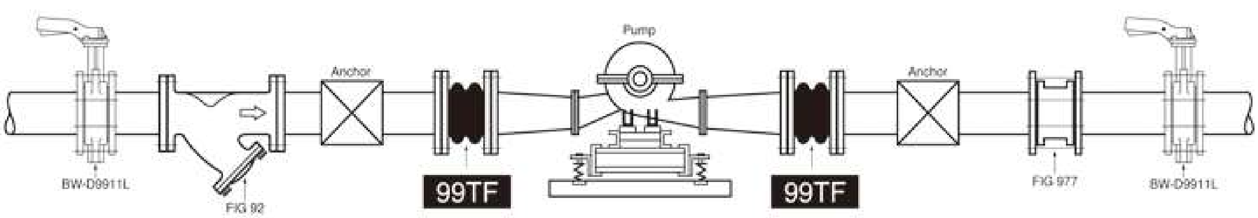

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TWIN SPHERE FLANGE

EMPOWER CORPORATION (SELATAN) SDN BHD
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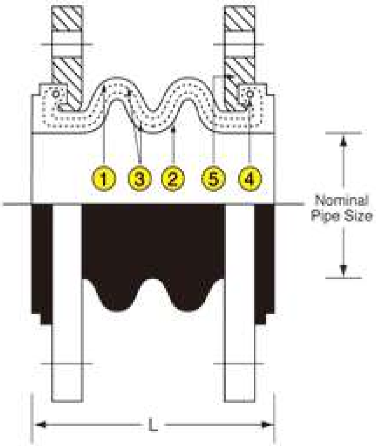

S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
3	Reinforcing Fabric	Nylon Fabric
4	Wire	Hard Steel Wire
5	Flange	Mild Steel (Galv'd)

Operating Pressure : **16 Bar**
Operating Temperature : **-10 to 80 Deg C**
Vacuum Rating : **650 MM/HG**
***Applicable Fluids** : **Water, Warm Water, Sea Water, Air & Weak Acid**
Flanges Standard : **DIN, ANSI, JIS & BS**

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
20	3/4	120	15	10	15	20
25	1	120	15	10	15	20
32	1 1/4	175	25	15	20	30
40	1 1/2	175	25	15	20	30
50	2	175	25	15	20	30
65	2 1/2	175	25	15	20	30
80	3	175	25	15	20	30
100	4	225	30	20	25	30
125	5	225	30	20	25	30
150	6	225	30	20	25	30
200	8	325	40	25	30	30
250	10	325	40	25	30	30
300	12	325	40	25	30	30

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.
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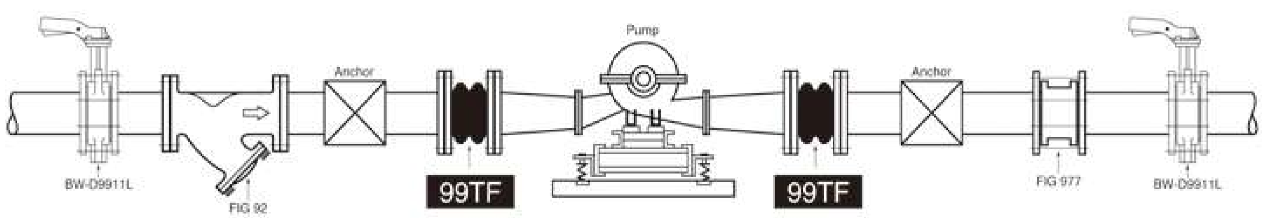

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AFA® STYLE 99 TF
TWIN SPHERE FLANGE

EMPOWER CORPORATION (SELATAN) SDN BHD
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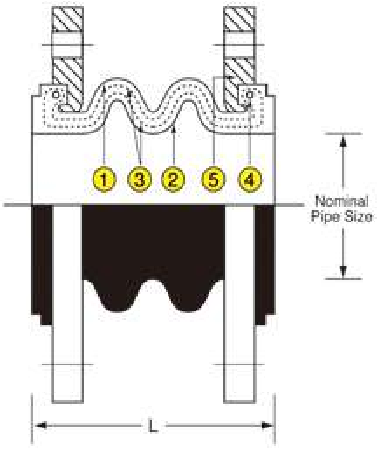

S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
3	Reinforcing Fabric	Nylon Fabric
4	Wire	Hard Steel Wire
5	Flange	Mild Steel (Galv'd)

Operating Pressure	:	**10 Bar**
Operating Temperature	:	**-10 to 80 Deg C**
Vacuum Rating	:	**650 MM/HG**
***Applicable Fluids**	:	**Water, Warm Water, Sea Water, Air & Weak Acid**
Flanges Standard	:	**DIN, ANSI, JIS & BS**

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
350	14	350	40	25	30	30
400	16	350	40	25	30	30
450	18	350	40	25	30	30
500	20	350	40	25	30	30
600	24	350	40	25	30	30

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”.
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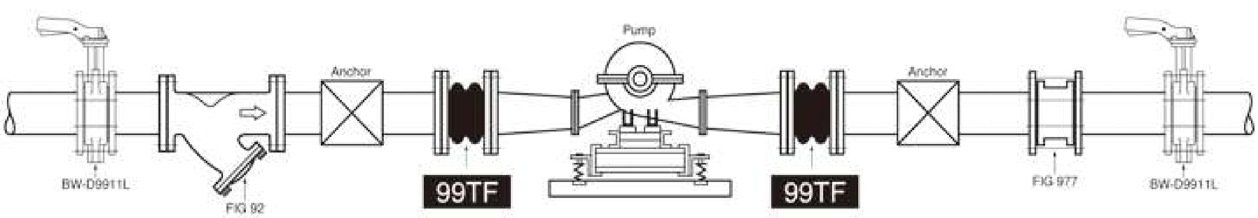

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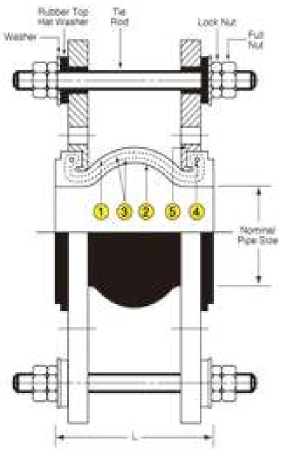
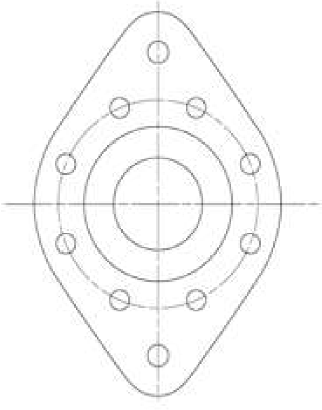
STYLE 99 SSFTR STANDARD NEUTRAL LENGTH – 130MM

SINGLE SPHERE OVAL FLANGE – TIE ROD





S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
3	Reinforcing Fabric	Nylon Fabric
4	Wire	Hard Steel Wire
5	Oval 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 PN10/16

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
32	1¼	130	12	10	12	15
40	1½	130	12	10	12	15
50	2	130	12	10	12	15
65	2½	130	12	10	12	15
80	3	130	12	10	12	15
100	4	130	12	10	12	15
125	5	130	12	10	12	15
150	6	130	12	10	12	15
200	8	130	12	10	12	15
250	10	130	12	10	12	15
300	12	130	12	10	12	15

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

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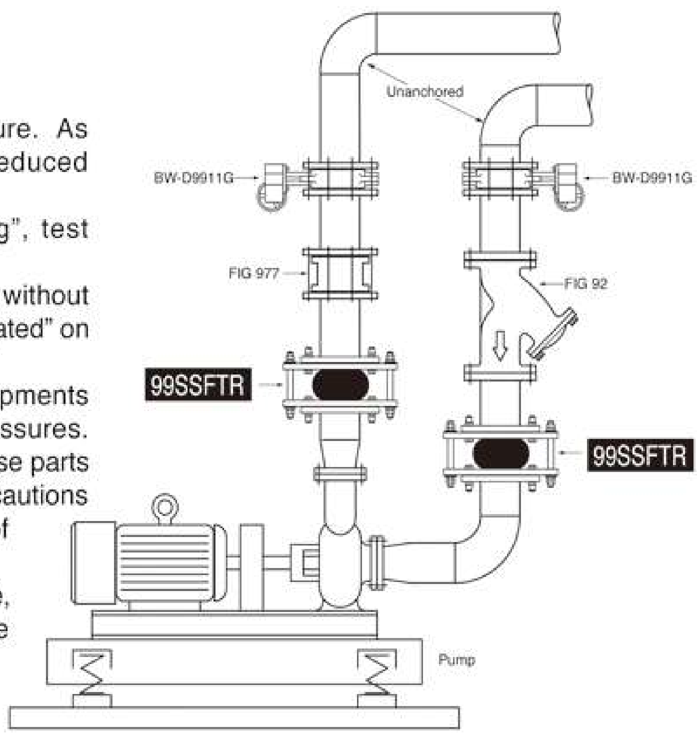

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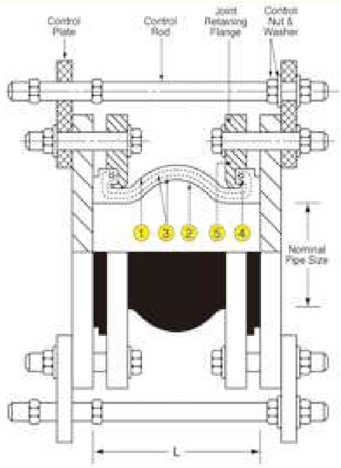
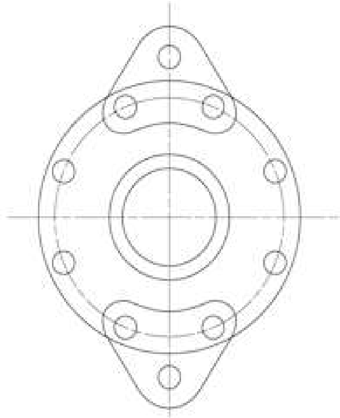
SINGLE SPHERE FLANGE – CONTROL ROD UNIT





S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
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	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
20	3/4	93	8	4	8	15
25	1	93	8	4	8	15
32	1 1/4	93	8	4	8	15
40	1 1/2	93	8	4	8	15
50	2	99	8	4	8	15
65	2 1/2	108	12	6	10	15
80	3	116	12	6	10	15
100	4	129	12	10	12	15
125	5	142	16	10	12	15
150	6	156	16	10	12	15
200	8	177	20	14	18	15
250	10	206	20	14	18	15
300	12	217	20	14	18	15

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

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- Pressures shown are recommended "operating", test pressure is 1.5 times "operating".
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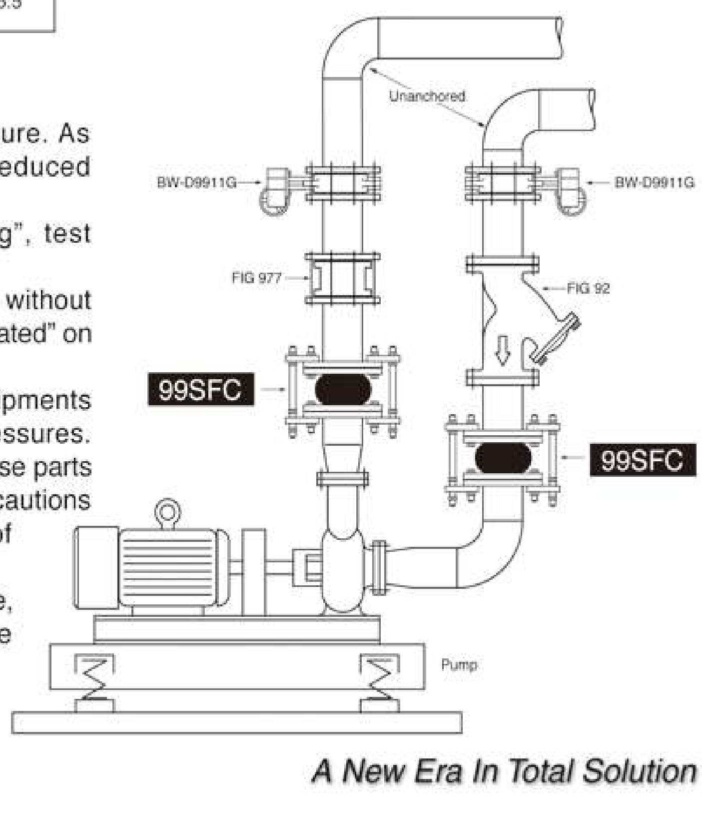

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SINGLE SPHERE FLANGE – CONTROL ROD UNIT

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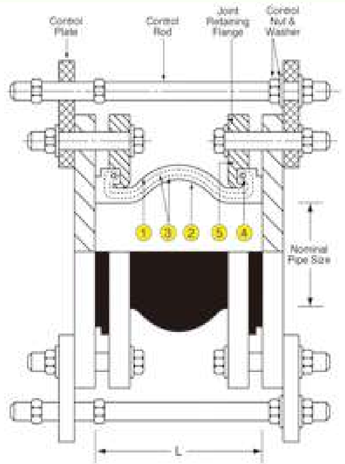
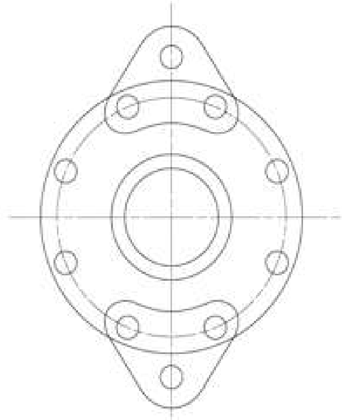
Tel : 607-3511288 Fax : 607-3511292 Email : sales@empowercorp.biz





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

Operating Pressure	:	See Table Below
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	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECT-ION	ANGULAR DEFLECT-ION	MAXIMUM OPERATING PRESSURE
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG	BAR
350	14	266	25	16	18	15	10
400	16	266	25	16	18	15	10
450	18	200	20	12	18	15	10
500	20	200	20	12	18	15	10
600	24	250	20	12	18	15	10
700	28	250	16	10	14	10	8
750	30	250	16	10	14	10	8
800	32	250	16	10	12	8	8
900	36	250	12	8	12	8	8
1000	40	300	12	8	12	8	6
1200	48	300	12	8	10	6	6

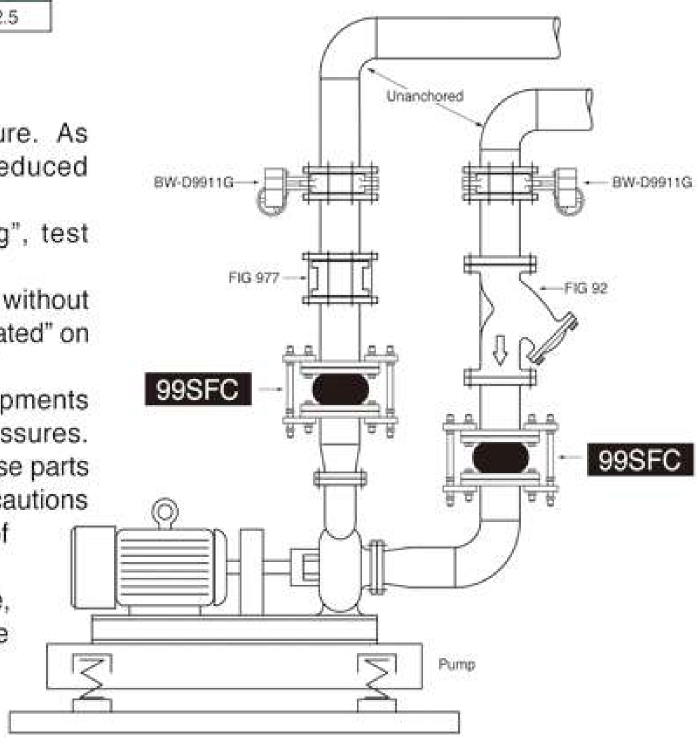
OPERATING TEMPERATURE AGAINST OPERATING PRESSURE

OPERATING TEMPERATURE °C	AMBIENT	50	60	70	80
MAXIMUM OPERATING PRESSURE(BAR)	10	7.5	6.2	5.0	4.0
	8	6.0	5.0	4.0	3.2
	6	4.5	3.5	3	2.5

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.



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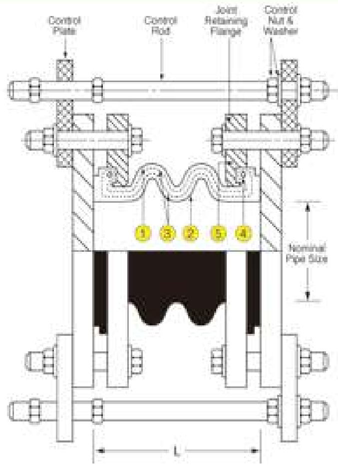
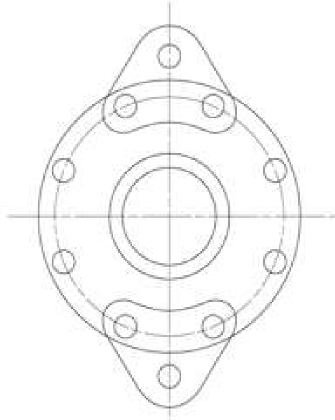
STYLE 99 TFC

TWIN SPHERE FLANGE – CONTROL ROD UNIT

EMPOWER
CORPORATION (SELATAN) SDN BHD
45 & 45A Jalan Bakawali 36, Taman Johor Jaya, 81100 Johor Bahru, Johor, Malaysia
Tel : 607-3511288 Fax : 607-3511292 Email : sales@empowercorp.biz





S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
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	:	650 MM/HG
*Applicable Fluids	:	Water, Warm Water, Sea Water, Air & Weak Acid
Flanges Standard	:	DIN, ANSI, JIS & BS

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
20	3/4	120	15	10	15	20
25	1	120	15	10	15	20
32	1 1/4	175	25	15	20	30
40	1 1/2	175	25	15	20	30
50	2	175	25	15	20	30
65	2 1/2	175	25	15	20	30
80	3	175	25	15	20	30
100	4	225	30	20	25	30
125	5	225	30	20	25	30
150	6	225	30	20	25	30
200	8	325	40	25	30	30
250	10	325	40	25	30	30
300	12	325	40	25	30	30

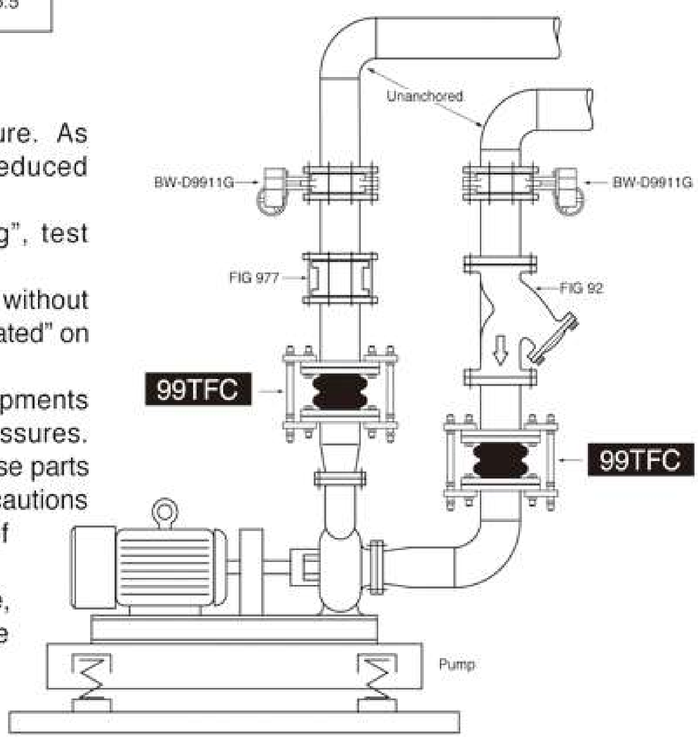
OPERATING TEMPERATURE AGAINST OPERATING PRESSURE

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.



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STYLE 99 TFC

TWIN SPHERE FLANGE – CONTROL ROD UNIT

EMPOWER
CORPORATION (SELATAN) SDN BHD
45 & 45A Jalan Bakawali 36, Taman Johor Jaya, 81100 Johor Bahru, Johor, Malaysia
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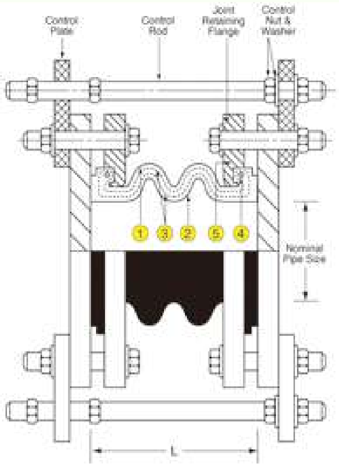
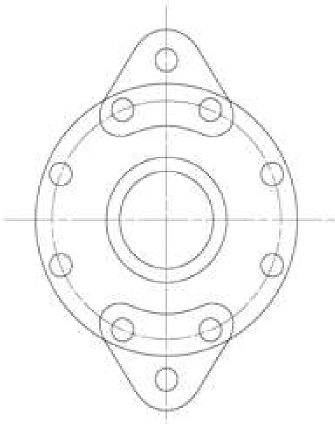




S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
3	Reinforcing Fabric	Nylon Fabric
4	Wire	Hard Steel Wire
5	Flange	Mild Steel (Galv'd)

Operating Pressure	:	10 Bar
Operating Temperature	:	-10 to 80 Deg C
Vacuum Rating	:	650 MM/HG
*Applicable Fluids	:	Water, Warm Water, Sea Water, Air & Weak Acid
Flanges Standard	:	DIN, ANSI, JIS & BS

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
350	14	350	40	25	30	30
400	16	350	40	25	30	30
450	18	350	40	25	30	30
500	20	350	40	25	30	30
600	24	350	40	25	30	30

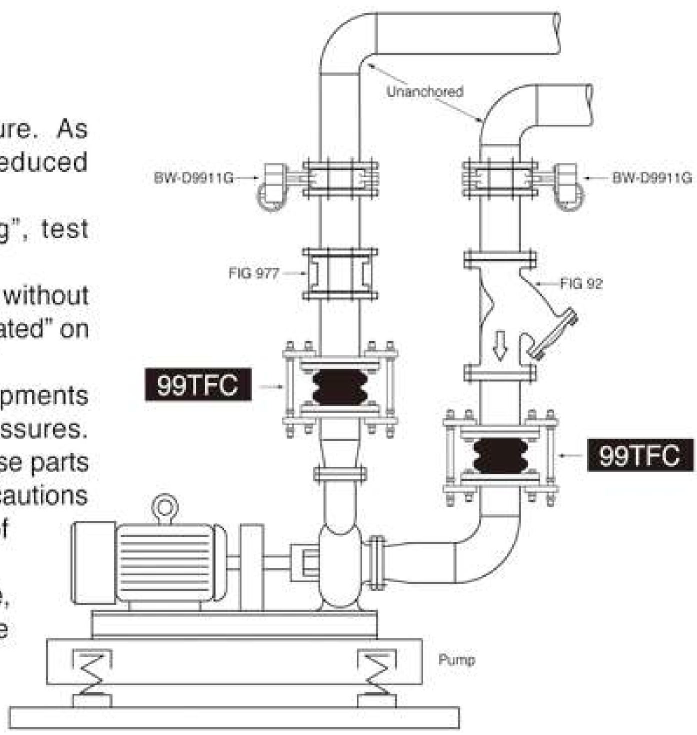
OPERATING TEMPERATURE AGAINST OPERATING PRESSURE

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.

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



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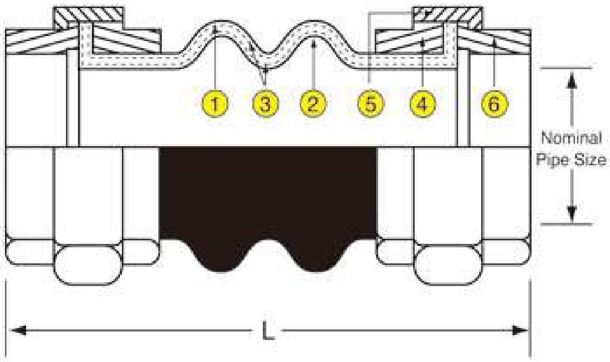
STYLE 99 TU

TWIN SPHERE UNION – SCREW END

EMPOWER CORPORATION (SELATAN) SDN BHD
45 & 45A Jalan Bakawali 36, Taman Johor Jaya, 81100 Johor Bahru, Johor, Malaysia
Tel : 607-3511288 Fax : 607-3511292 Email : sales@empowercorp.biz



S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
3	Reinforcing Fabric	Nylon Fabric
4	Union Flange	Malleable Iron (Galv'd)
5	Union Nut	Malleable Iron (Galv'd)
6	Union Screw	Malleable Iron (Galv'd)

Operating Pressure : **16 Bar**
Operating Temperature : **-10 to 80 Deg C**
Vacuum Rating : **500 MM/HG**
***Applicable Fluids** : **Water, Warm Water, Sea Water, Air & Weak Acid**
Union : **BSP & NPT Threaded**

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
15	½	165	22	6	22	30
20	¾	165	22	6	22	30
25	1	175	22	6	22	30
32	1¼	186	22	6	22	30
40	1½	186	22	6	22	30
50	2	200	22	6	22	20
65	2½	218	22	6	22	15
80	3	260	22	6	22	15

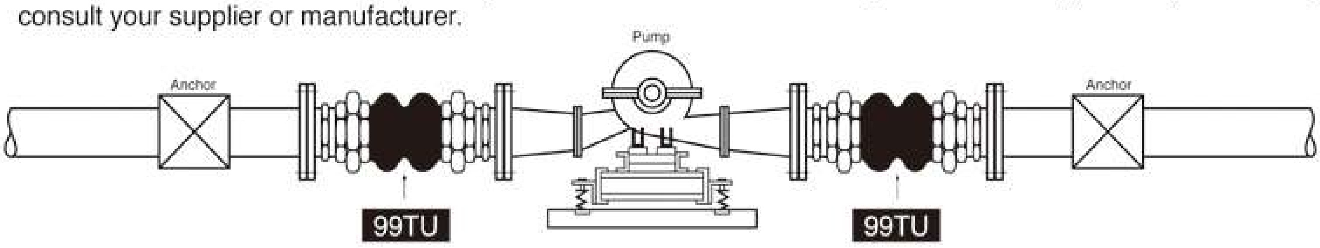
OPERATING TEMPERATURE AGAINST OPERATING PRESSURE

OPERATING TEMPERATURE °C	AMBIENT	50	60	70	80
MAXIMUM OPERATING PRESSURE(BAR)	16	9.6	7.5	6.2	5.0

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.

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



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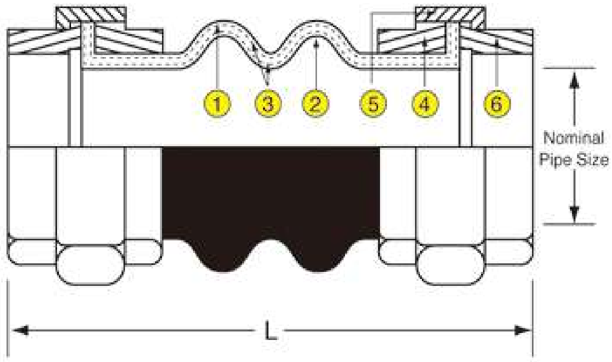
AFA® STYLE 99 TUS

TWIN SPHERE UNION (SS304) – SCREW END

EMPOWER CORPORATION (SELATAN) SDN BHD
45 & 45A Jalan Bakawali 36, Taman Johor Jaya, 81100 Johor Bahru, Johor, Malaysia
Tel : 607-3511288 Fax : 607-3511292 Email : sales@empowercorp.biz



S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
3	Reinforcing Fabric	Nylon Fabric
4	Union Flange	SS304
5	Union Nut	SS304
6	Union Screw	SS304

Operating Pressure : **16 Bar**
Operating Temperature : **-10 to 80 Deg C**
Vacuum Rating : **500 MM/HG**
***Applicable Fluids** : **Water, Warm Water, Sea Water, Air & Weak Acid**
Union : **BSP & NPT Thread**

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
15	1/2	165	22	6	22	30
20	3/4	165	22	6	22	30
25	1	175	22	6	22	30
32	1 1/4	186	22	6	22	30
40	1 1/2	186	22	6	22	30
50	2	200	22	6	22	20
65	2 1/2	218	22	6	22	15
80	3	260	22	6	22	15

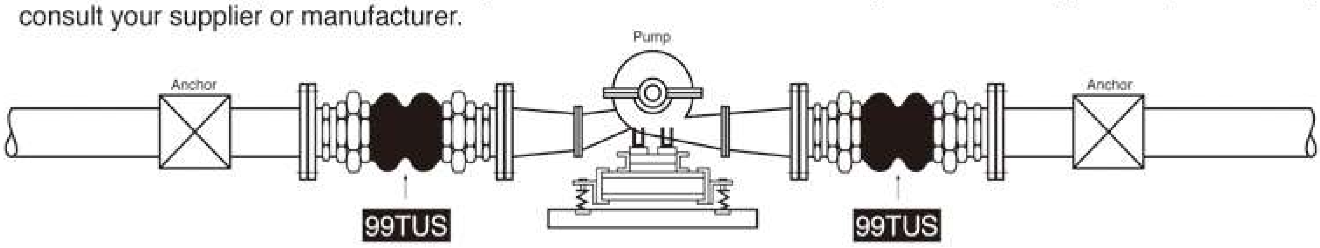
OPERATING TEMPERATURE AGAINST OPERATING PRESSURE

OPERATING TEMPERATURE °C	AMBIENT	50	60	70	80
MAXIMUM OPERATING PRESSURE(BAR)	16	9.6	7.5	6.2	5.0

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.

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



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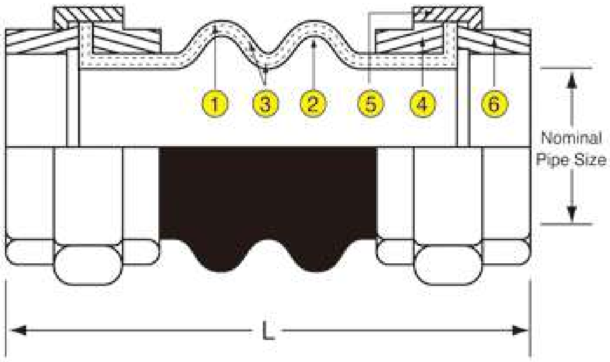
AFA® STYLE 99 TU

WRAS APPROVED

WRAS APPROVED PRODUCT



S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	EPDM
2	Body (Inner Layer)	WRAS EPDM
3	Reinforcing Fabric	Nylon Fabric
4	Union Flange	Malleable Iron (Galv'd)
5	Union Nut	Malleable Iron (Galv'd)
6	Union Screw	Malleable Iron (Galv'd)

Operating Pressure : **16 Bar**
Operating Temperature : **-10 to 80 Deg C**
Vacuum Rating : **500 MM/HG**
***Applicable Fluids** : **Drinking Water,Water,Warm Water, Sea Water, Air & Weak Acid**
Union : **BSP & NPT Threaded**

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
15	$\frac{1}{2}$	165	22	6	22	30
20	$\frac{3}{4}$	165	22	6	22	30
25	1	175	22	6	22	30
32	$1\frac{1}{4}$	186	22	6	22	30
40	$1\frac{1}{2}$	186	22	6	22	30
50	2	200	22	6	22	20
65	$2\frac{1}{2}$	218	22	6	22	15
80	3	260	22	6	22	15

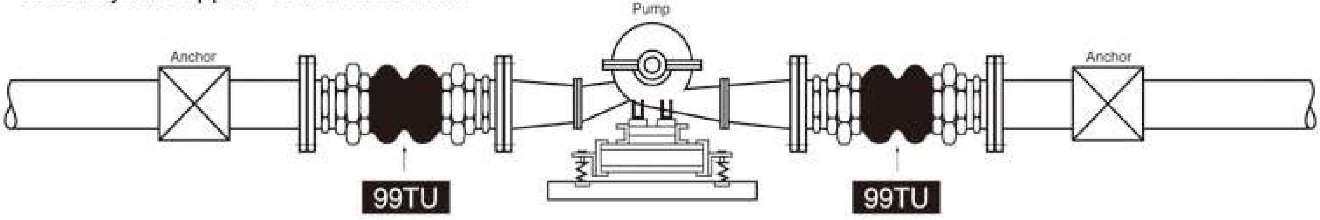
OPERATING TEMPERATURE AGAINST OPERATING PRESSURE

OPERATING TEMPERATURE °C	AMBIENT	50	60	70	80
MAXIMUM OPERATING PRESSURE(BAR)	16	9.6	7.5	6.2	5.0

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.

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



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STYLE 99 UF

TWIN SPHERE DUCTILE IRON FLANGE SCREW TYPE

EMPOWER
CORPORATION (SELATAN) SDN BHD
45 & 45A Jalan Bakawali 36, Taman Johor Jaya, 81100 Johor Bahru, Johor, Malaysia
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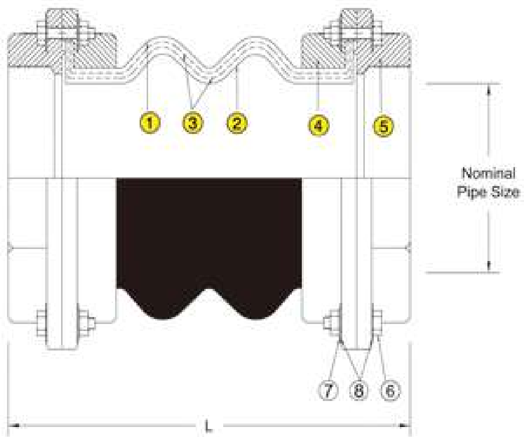


S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber(EPDM)
2	Body (Inner Layer)	Special Synthetic Rubber(EPDM)
3	Reinforcing Fabric	Nylon Fabric
4	Union Flange	Ductile Iron (Galv'd)
5	Flange Screw	Ductile Iron (Galv'd)
6	Bolt & Nut	Steel (Galv'd)
7	Spring Washer	Steel (Galv'd)
8	Flat Washer	Steel (Galv'd)

Operating Pressure : **16 Bar & 20 Bar**
Operating Temperature : **-10 to 80 Deg C**
Vacuum Rating : **500 MM/HG**
***Applicable Fluids** : **Water, Warm Water, Sea Water & Air**
Flange Screw : **BSP & NPT Threaded**

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
15	1/2	167	22	6	22	30
20	3/4	167	22	6	22	30
25	1	173	22	6	22	30
32	1 1/4	181	22	6	22	30
40	1 1/2	182	22	6	22	30
50	2	185	22	6	22	20
65	2 1/2	208	22	6	22	15
80	3	241	22	6	22	15

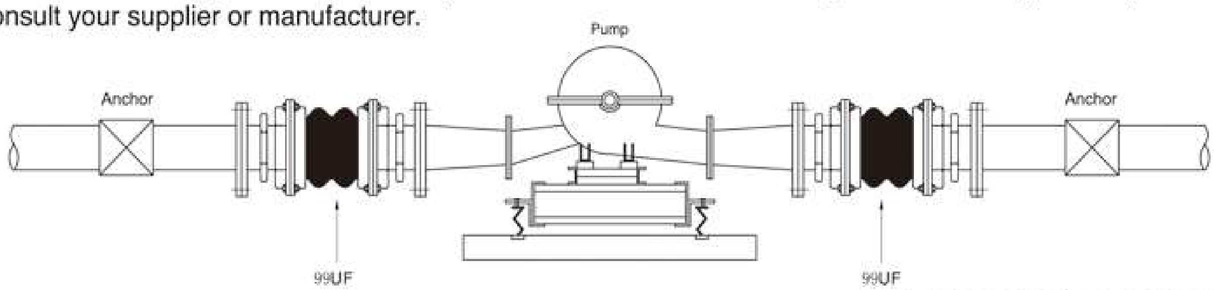
OPERATING TEMPERATURE AGAINST OPERATING PRESSURE

OPERATING TEMPERATURE °C	AMBIENT	50	60	70	80
MAXIMUM OPERATING PRESSURE(BAR)	16 (Bar)	9.6	7.5	6.2	5.0
MAXIMUM OPERATING PRESSURE(BAR)	20 (Bar)	15	12.4	10	7.5

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.



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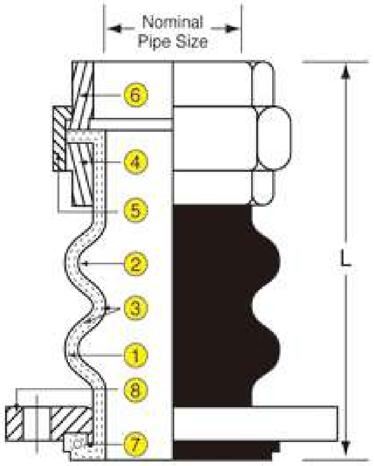
STYLE 99 TUF

TWIN SPHERE UNION AND FLANGE



S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber
2	Body (Inner Layer)	Special Synthetic Rubber
3	Reinforcing Fabric	Nylon Fabric
4	Union Flange	Malleable Iron (Galv'd)
5	Union Nut	Malleable Iron (Galv'd)
6	Union Screw	Malleable Iron (Galv'd)
7	Wire	Hard Steel Wire
8	Flange	Mild Steel (Galv'd)

Operating Pressure : 16 Bar
Operating Temperature : -10 to 80 Deg C
Vacuum Rating : 500 MM/HG
***Applicable Fluids : Water, Warm Water, Sea Water, Air & Weak Acid**
Flanges Standard : DIN, ANSI, JIS & BS

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
32	1¼	143	12	6	12	15
40	1½	143	12	6	12	15
50	2	150	12	6	12	15
65	2½	164	12	6	12	15
80	3	193	12	6	12	15

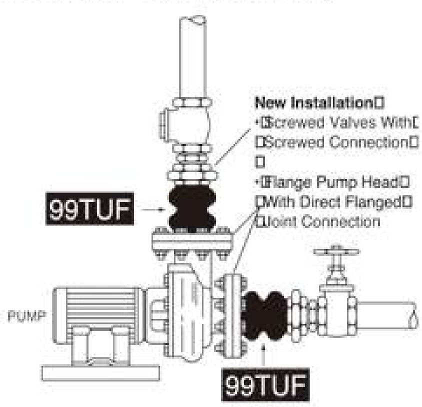
OPERATING TEMPERATURE AGAINST OPERATING PRESSURE

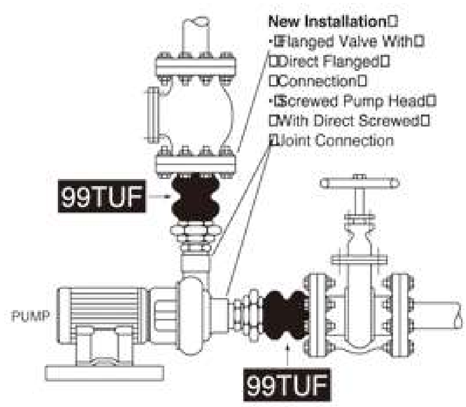
OPERATING TEMPERATURE °C	AMBIENT	50	60	70	80
MAXIMUM OPERATING PRESSURE(BAR)	16	9.6	7.5	6.2	5.0

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.

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





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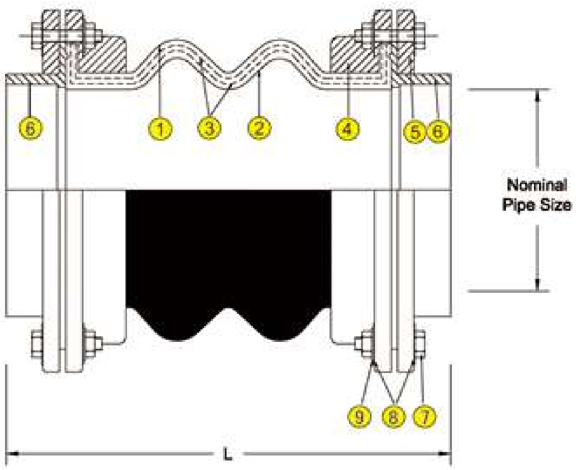
STYLE 99 UFBC

TWIN SHPERE DUCTILE IRON UNION FLANGE WITH BRASS COUPLER TYPE



S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber (EPDM)
2	Body (Inner Layer)	Special Synthetic Rubber (EPDM)
3	Reinforcing Fabric	Nylon Fabric
4	Union Flange	Ductile Iron (Epoxy Coated)
5	Union Nut	Ductile Iron (Epoxy Coated)
6	Coupler	Brass
7	Bolt & Nut	Steel (Galv'd)
8	Flat Washer	Steel (Galv'd)
9	Spring Washer	Steel (Galv'd)

Operating Pressure	:	16Bar
Operating Temperature	:	-10 to 80 Deg C
Vacuum Rating	:	500MM/HG
*Applicable Fluids	:	Water, Warm Water, Sea Water & Air
Connection	:	Brass couple for brazed (capillary) to copper/brass pipe

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
20	3/4	173	22	6	22	30
25	1	176	22	6	22	30
32	1 1/4	184	22	6	22	30
40	1 1/2	185	22	6	22	30
50	2	187	22	6	22	20

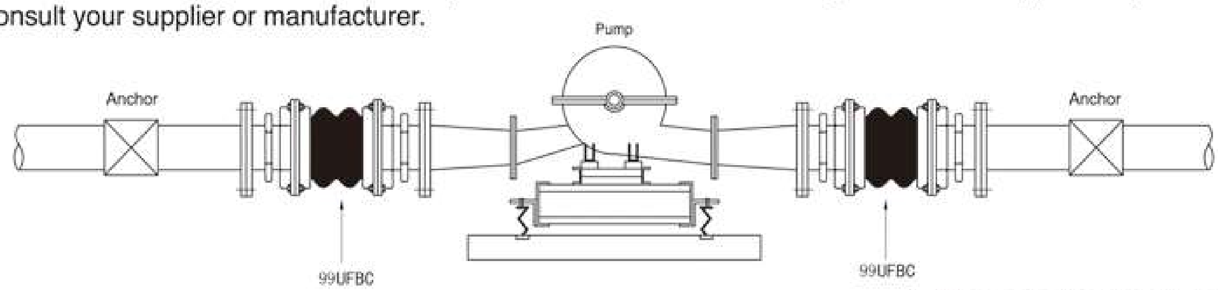
OPERATING TEMPERATURE AGAINST OPERATING PRESSURE

OPERATING TEMPERATURE °C	AMBIENT	50	60	70	80
MAXIMUM OPERATING PRESSURE(BAR)	16 (Bar)	9.6	7.5	6.2	5.0

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.

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



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STYLE 99 UFTBC

EMPOWER CORPORATION (SELATAN) SDN BHD
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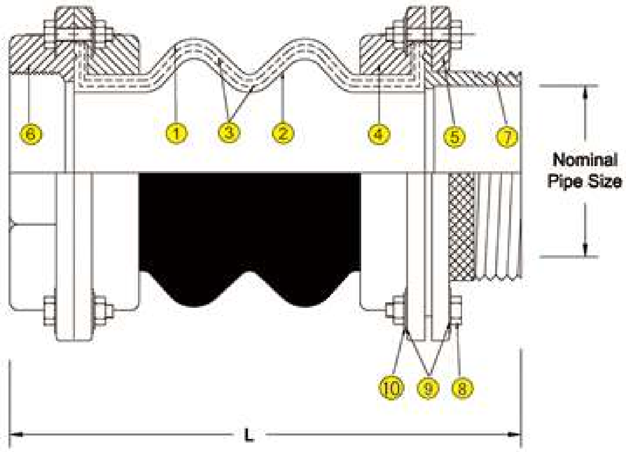
Tel : 607-3511288 Fax : 607-3511292 Email : sales@empowercorp.biz

TWIN SHPERE DUCTILE IRON UN I ON FLANGE WITH THREADED BRASS COUPLER TYPE — MALE THREAD



S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber (EPDM)
2	Body (Inner Layer)	Special Synthetic Rubber (EPDM)
3	Reinforcing Fabric	Nylon Fabric
4	Union Flange	Ductile Iron (Epoxy Coated)
5	Union Nut	Ductile Iron (Epoxy Coated)
6	Union Screw	Ductile Iron (Epoxy Coated)
7	Threaded Coupler	Brass (Male Thread)
8	Bolt & Nut	Steel (Galv'd)
9	Flat Washer	Steel (Galv'd)
10	Spring Washer	Steel (Galv'd)

Operating Pressure : 16Bar
Operating Temperature : -10 to 80 Deg C
Vacuum Rating : 500MM/HG
*Applicable Fluids : Water, Warm Water, Sea Water & Air
Connection : Union Screw for threaded steel connection (BSP/NPT Threaded)
Threaded Coupler for threaded to copper / brass pipe

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
20	3/4	190	22	6	22	30
25	1	195	22	6	22	30
32	1 1/4	206	22	6	22	30
40	1 1/2	206	22	6	22	30
50	2	208	22	6	22	20

OPERATING TEMPERATURE AGAINST OPERATING PRESSURE

OPERATING TEMPERATURE °C	AMBIENT	50	60	70	80
MAXIMUM OPERATING PRESSURE(BAR)	16 (Bar)	9.6	7.5	6.2	5.0

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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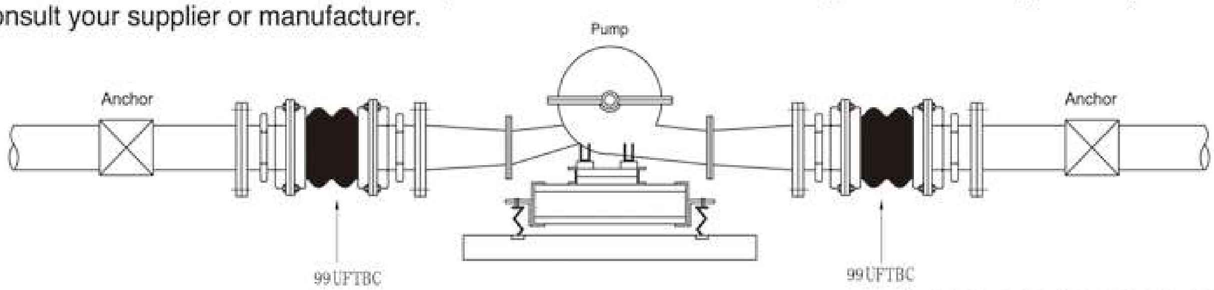

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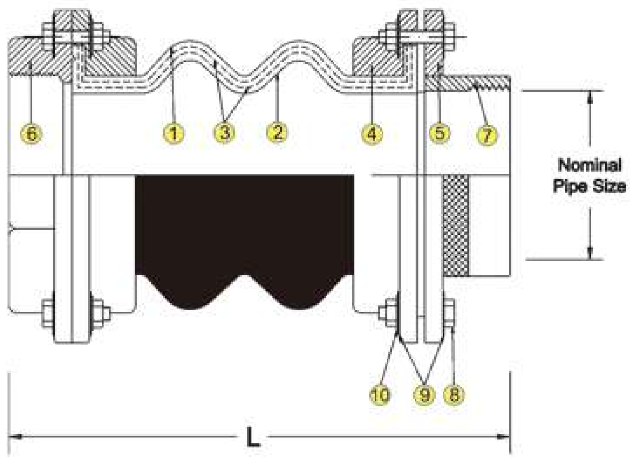
STYLE 99 UFTBC

TWIN SHPERE DUCTILE IRON UN I ON FLANGE WITH THREADED BRASS COUPLER TYPE — FEMALE THREAD



S/NO	PART NAME	MATERIAL
1	Body (Outer Layer)	Special Synthetic Rubber (EPDM)
2	Body (Inner Layer)	Special Synthetic Rubber (EPDM)
3	Reinforcing Fabric	Nylon Fabric
4	Union Flange	Ductile Iron (Epoxy Coated)
5	Union Nut	Ductile Iron (Epoxy Coated)
6	Union Screw	Ductile Iron (Epoxy Coated)
7	Threaded Coupler	Brass (Female Thread)
8	Bolt & Nut	Steel (Galv'd)
9	Flat Washer	Steel (Galv'd)
10	Spring Washer	Steel (Galv'd)

Operating Pressure : 16Bar
Operating Temperature : -10 to 80 Deg C
Vacuum Rating : 500MM/HG
*Applicable Fluids : Water, Warm Water, Sea Water & Air
Connection : Union Screw for threaded steel connection (BSP/NPT Threaded)
Threaded Coupler for threaded to copper / brass pipe

NOMINAL PIPE SIZE		NEUTRAL LENGTH L	AXIAL COMPR-ESSION	AXIAL ELONG-ATION	LATERAL DEFLECTION	ANGULAR DEFLECTION
MM	INS	MM	MM	MM	+ OR - MM	+ OR - DEG
20	3/4	171	22	6	22	30
25	1	176	22	6	22	30
32	1 1/4	185	22	6	22	30
40	1 1/2	185	22	6	22	30
50	2	187	22	6	22	20

OPERATING TEMPERATURE AGAINST OPERATING PRESSURE

OPERATING TEMPERATURE °C	AMBIENT	50	60	70	80
MAXIMUM OPERATING PRESSURE(BAR)	16 (Bar)	9.6	7.5	6.2	5.0

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".
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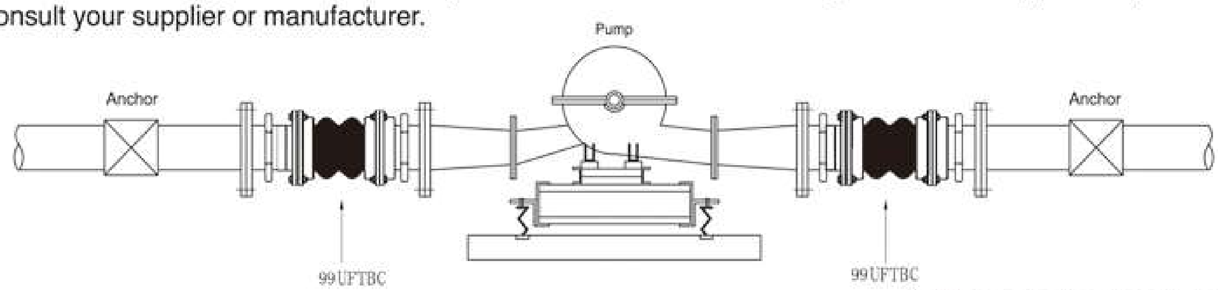

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