

## RUBBER EXPANSION JOINT TEGUFLEX® PU GREEN CSM

Rubber expansion joint Teguflex CSM green with swiveling flanges to absorb vibrations and noises on strong and/or concentrated acids networks, compressed air for the propulsion of oil aerosols, chemical products, mineral oils, greases and solvents.

Not advisable for hydrocarbons.

Body in CSM and carbon steel electro galvanized or AISI 316 flanges.

For linear and angular compansion.

130 mm long for all DN.



**Size :** DN25 to DN300  
**Connection :** Flanges PN10/16  
**Min Temperature :** -25°C  
**Max Temperature :** +90°C  
**Max Pressure :** 16 Bars (10 bars at 90°C)  
**Specifications :** Absorb vibrations and noise  
Linear and angular compansion  
CSM Tube

**Materials :** Electro galvanized steel flanges

**RUBBER EXPANSION JOINT TEGUFLEX® PU GREEN CSM**

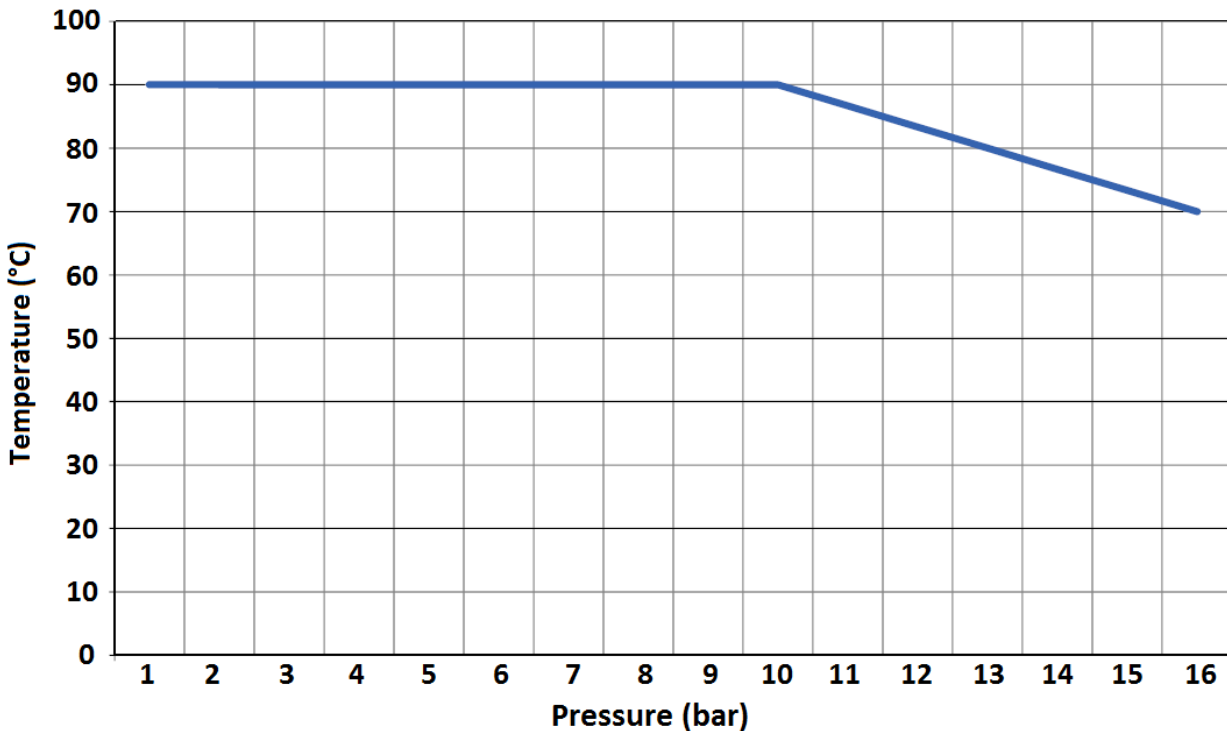
**SPECIFICATIONS :**

- Absorb vibration, noises and expansion
- Linear and angular compansion
- Inner tube CSM
- 130 mm length
- Electro galvanized steel swiveling flanges PN10/16 up to DN150, PN10 over
- On request, PN6, PN16 and Class 150 PN20 flanges
- AISI 316 flanges on request
- AISI 316 Ti vacuum ring on request (Ref.9815050 to 9815300)
- Inner liner PTFE on request (movements allowed by the expansion joints are then reduced by 50 % and pressure max is 6 bars)
- Bursting pressure >50 bar at 20°C
- Test pressure 25 bar at 20°C

**USE :**

- Strong and/or concentrated acids, compressed air that bears oil aerosols, chemical products, mineral oil, grease and solvent
- Not advisable for hydrocarbons
- Min and max temperature Ts : - 25°C to + 90°C
- Max pressure Ps : 16 bars at 70°C and 10 bars at 90°C ( 6 bars with PTFE lining )

**PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :**



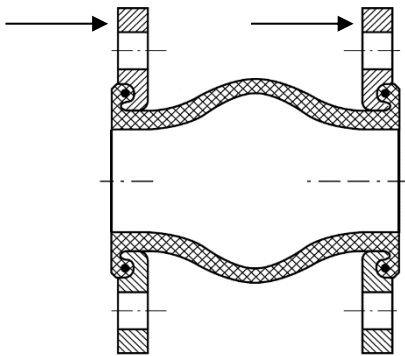
**MAXIMUM VACUUM :**

DN	25/32	40	50	65	80	100	125	150	200	250	300
Vacuum (bar)	-0.8	-0.8	-0.7	-0.6	-0.5	-0.5	-0.4	-0.3	-0.3	-0.2	-0.2

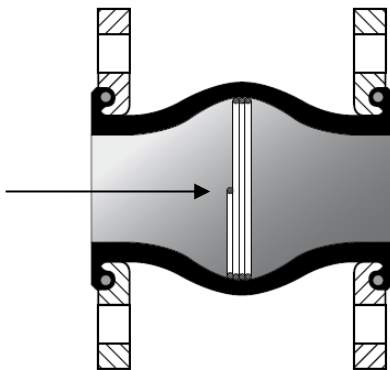
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**RANGE :**

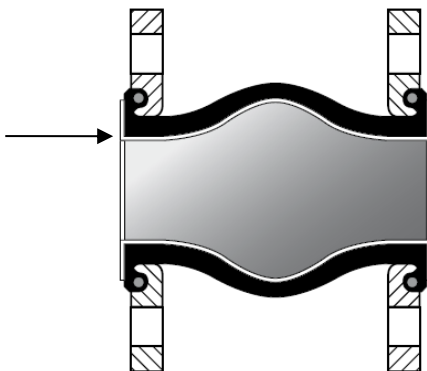
- CSM expansion joint with electro galvanized steel flanges PN10/16 from DN 25 to DN 150, PN10 over **Ref. 1564**
- **On Request :**



- AISI 316 flanges



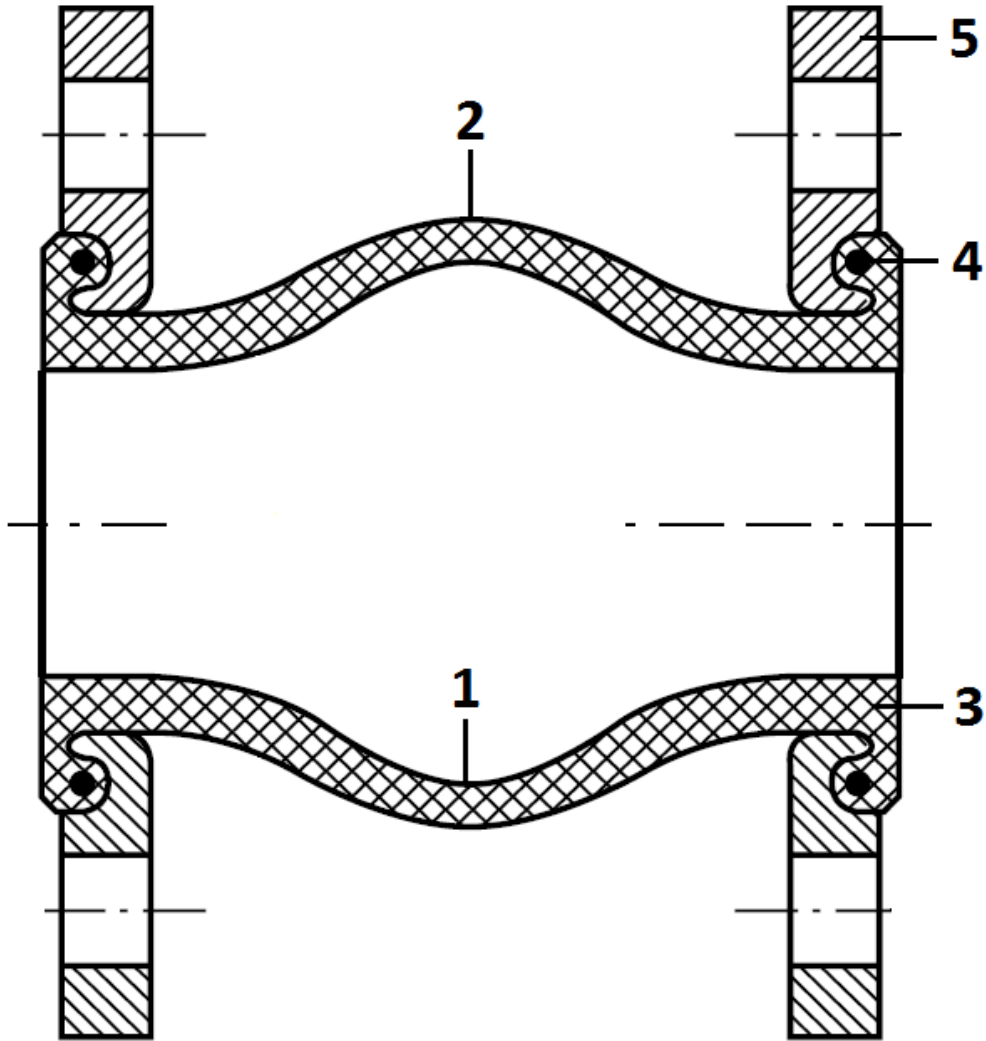
- AISI 316 Ti vacuum ring (vacuum up to -1 bar) Ref.9815050 to 9815300



- Inner liner PTFE (movements allowed by the expansion joints are then reduced by 50 % and pressure max is 6 bars)

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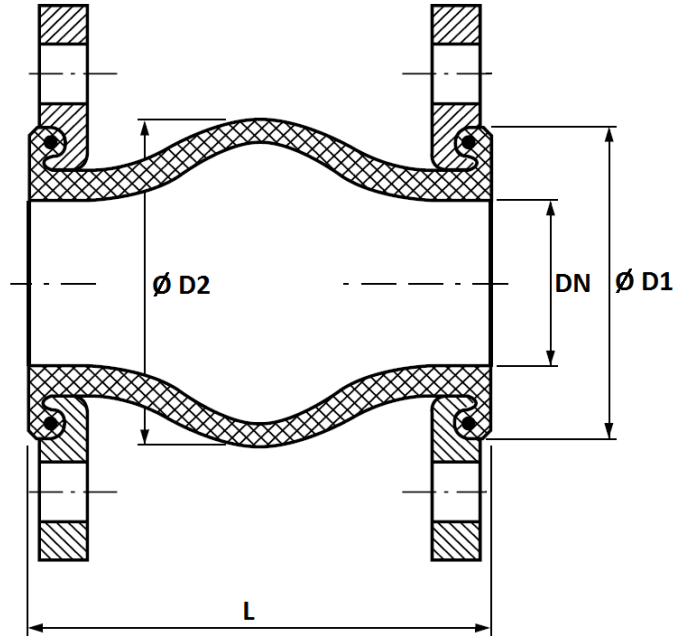
**MATERIALS :**



Item	Designation	Materials
1	Inner tube	CSM
2	Outer cover	Chloroprene (CR) oil and weather resistant
3	Reinforcement	Synthetic textile
4	Brace	Carbon steel
5	Swiveling flanges	Electro galvanized steel

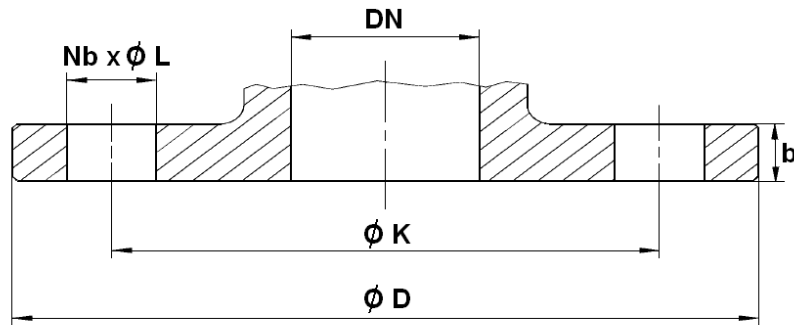
**RUBBER EXPANSION JOINT TEGUFLEX® PU GREEN CSM**

**SIZE ( in mm ) :**



DN	32	40	50	65	80	100	125	150	200	250	300
L	130	130	130	130	130	130	130	130	130	130	130
Ø D1	72	80	90	105	120	140	165	190	240	290	340
Ø D2	77	85	95	110	125	145	170	195	245	295	345
Weight (Kg)	2.8	3.3	3.7	4.8	5.3	6.2	8.2	11.2	16.8	21.6	30.1
Ref.	1564032	1564040	1564050	1564065	1564080	1564100	1564125	1564150	1564200	1564250	1564300

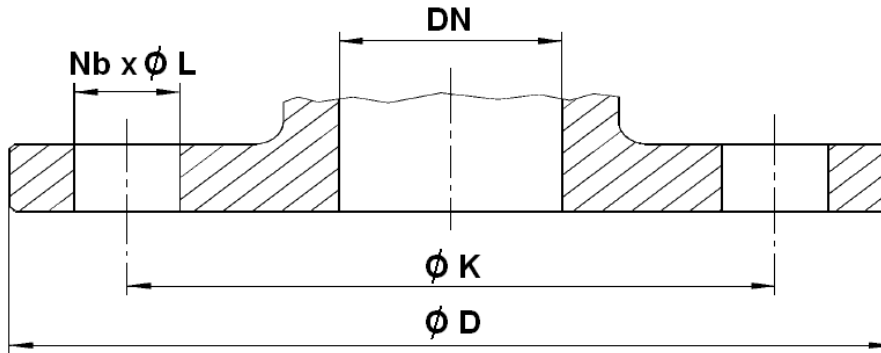
**STANDARD FLANGES PN10 (PN10/16 UP TO DN150) SIZE ( in mm ) :**



DN	25	32	40	50	65	80	100	125	150	200	250	300
Ø D	115	140	150	165	185	200	220	250	285	340	395	445
Ø K	85	100	110	125	145	160	180	210	240	295	350	400
Nb x Ø L	4x14	4 x 18	4 x 18	4 x 18	4 x 18	8 x 18	8 x 18	8 x 18	8 x 22	8 x 22	12 x 22	12 x 22
b	13.8	13.8	14	14.1	14.4	14.8	15.2	16	17.8	20.2	22.6	26.5

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**SIZE OF FLANGES ON REQUEST :**



**PN6 FLANGES ( in mm ) :**

DN	25	32	40	50	65	80	100	125	150	200	250	300
Ø D	100	120	130	140	160	190	210	240	265	320	375	440
Ø K	75	90	100	110	130	150	170	200	225	280	335	395
Nb x Ø L	4 x 11	4 x 14	4 x 14	4 x 14	4 x 14	4 x 18	4 x 18	8 x 18	8 x 18	8 x 18	12 x 18	12 x 22

**PN16 FLANGES ( in mm ) :**

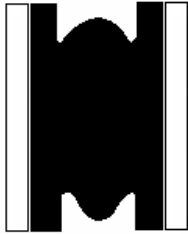
DN	200	250	300
Ø D	340	405	460
Ø K	295	355	410
Nb x Ø L	12 x 22	12 x 26	12 x 26

**Class 150 PN20 FLANGES ( in mm ) :**

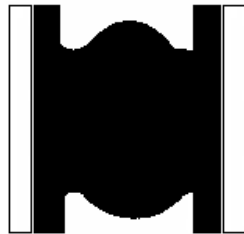
DN (mm)	25	32	40	50	65	80	100	125	150	200	250	300
NPS ( " )	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"	10"	12"
Ø D	108	117	127	152	178	190	229	254	279	343	406	483
Ø K	79.4	88.9	98.4	120.6	139.7	152.4	190.5	215.9	241.3	298.4	361.9	431.8
Nb x Ø L	4 x 15.9	4 x 15.9	4 x 15.9	4 x 19	4 x 19	4 x 19	8 x 19	8 x 22.2	8 x 22.2	8 x 22.2	12 x 25.4	

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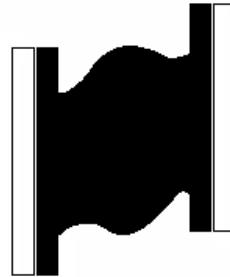
**MOVEMENTS ( in mm ) :**



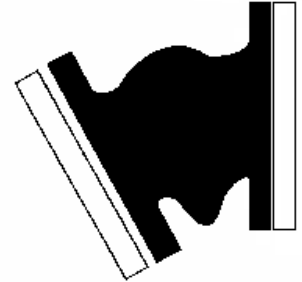
**Compansion**



**Expansion**



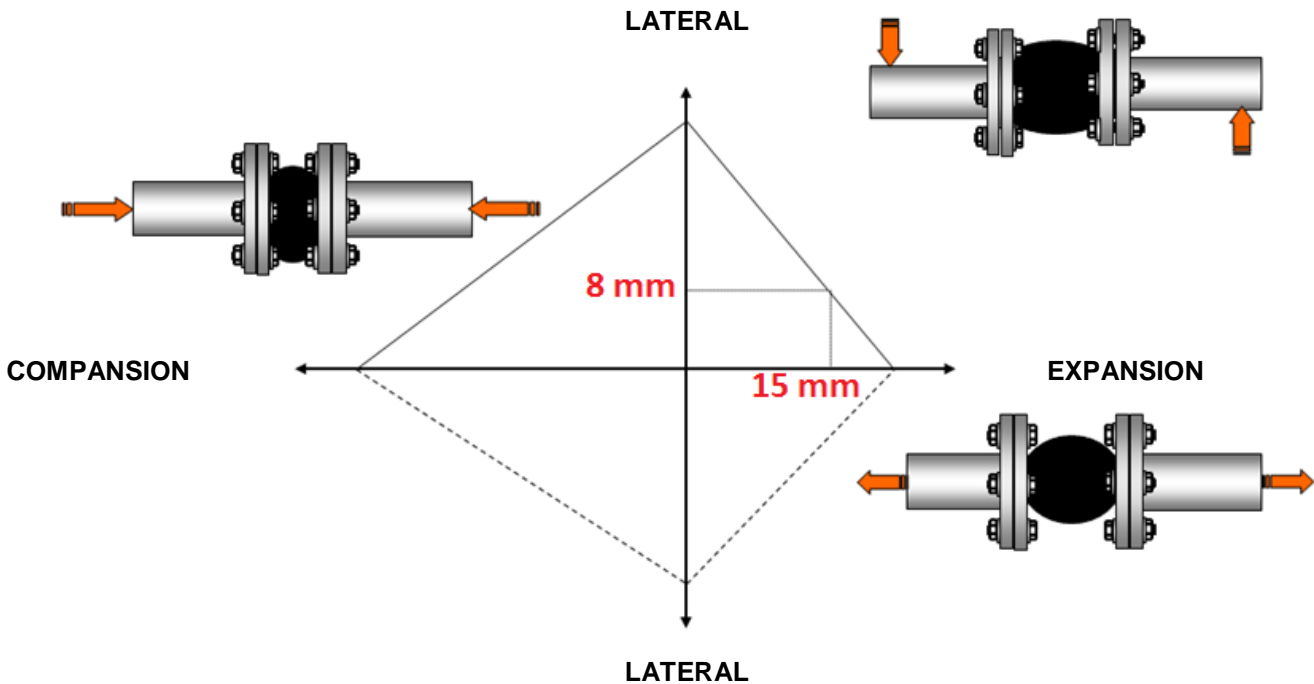
**Lateral**



**Angular**

DN	25-50	65	80	100	125	150	200	250	300
Compansion	30	30	30	30	30	30	30	30	30
Expansion	20	20	20	20	20	20	20	20	20
Lateral	20	20	20	20	20	20	20	20	20
Angular	35°	30°	30°	25°	25°	15°	15°	10°	10°

**Maximum movements can't be applied simultaneously.  
For example, with an expansion of 15mm, the maximum lateral movement will be 8 mm :**



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**MARKING :**



**STANDARDS :**

- Manufacturer certified ISO 9001 : 2015 and ISO 14001 : 2015
- DIRECTIVE 2014/68/EU: For liquids and gas of Group 1
  - DN32-50 : Risk category I, CE 0056 marking
  - DN65-200 : Risk category II, CE 0056 marking
  - DN250-300 : Risk category III, CE 0056 marking
- Flanges according to EN 1092-1 PN10/16
- **Marine ABS** Product type approved

**ADVICE :** Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages.  
The customer must check the right choice of the products with the real service conditions.