

**AXIAL EXPANSION**  
**JOINTS PN 16 “GTW”**

## FEATURES AND PARTICULARS

Axial expansion joints model "GTW" PN 16, are build with a multiply bellow with corrugations in stainless steel AISI 304 (since 2000 E.J.M.A. life cycles), with inner sleeve in stainless steel AISI 304.

"GTW" expansion joints are made with welding ends in painted carbon steel (GTW-M), and is possibile to add welded flanges (GTW-F) with any standards dimensions (UNI PN 10, 16, ANSI 150, ANSI 300 ecc.).

These axial expansion joints are the best solution to absorbe pipe axial expansions in the heating and conditioning plants, for hot and cold water, steam, diatermic oil and all other fluids that are compatible with stainless steel material.

### ABOUT EUROPEAN DIRECTIVE 97/23/CE (P.E.D.):

Because the very high usage of axial expansion joints "GTW" in the civil heating plants (with water), is very important that about this directive, the heat water is considered water since to 110°C; beyond this value, it will be to consider like steam.

**Our axial expansion joints "GTW" used with water since to 110°C, are out from P.E.D. directive and the CE label is not necessary.**

For other usage don't esitate to contact our technical office, also for ask our catalog "EXPANSION AND DISMANTLING JOINTS", where you can find all technical details, about installations, pressure/temperature diagrams and other information for big diameter metallic joints.



## TECHNICAL AND DIMENSIONAL DETAILS

**In case of flanged expansion joints (GTWF), the total length will be added of 10 mm**

DN	Total Length	Compression movements	Extension movements	Total axial movements	PN at 20°C (*)	Effective Surface Am
mm	mm	mm	mm	mm	bars	cm2
15	250	-16	+8	24	16	4
20	250	-20	+10	30	16	5
25	250	-22	+10	32	16	8
32	265	-22	+10	32	16	14
40	265	-27	+13	40	16	20
50	290	-30	+15	45	16	32
65	290	-30	+15	45	16	50
80	295	-30	+15	45	16	67
100	300	-33	+17	50	16	109
125	310	-33	+17	50	16	164
150	340	-33	+17	50	16	241
200	350	-33	+17	50	16	419
250	350	-36	+19	55	16	655
300	350	-36	+19	55	16	944

(\*): For others operating temperatures, see the corrective factor table, that you can find in the our catalog "EXPANSION AND DISMANTLING JOINTS".