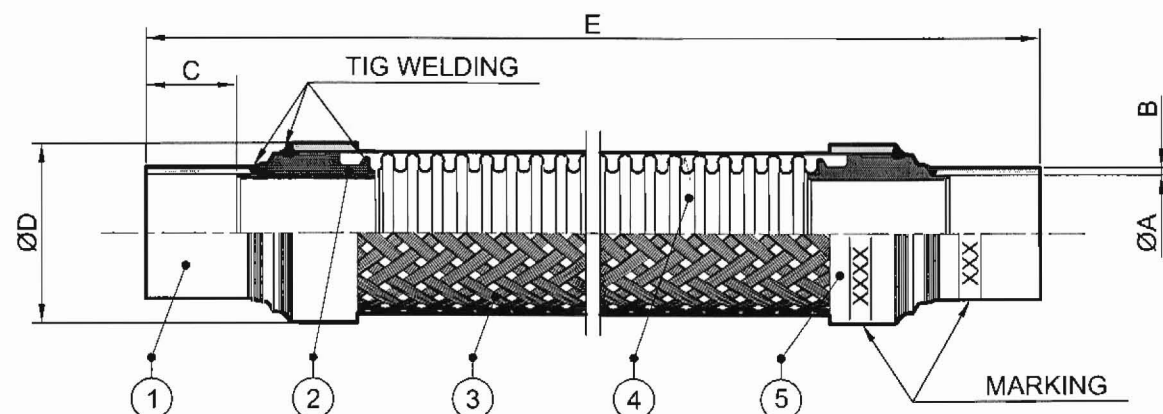




VIBRATION ABSORBERS VIBRATIG - VTG -

01 N. DISEGNO 02
7577-000
DATA 03
13/10/2005



CODE	VTG		A	B	C	D	E	ND
	METRIC	INCHES						
7577-001	06	1/4	6.6 ±0.2	1.0	20	19	230 ±5	10
7577-002	08	/	8.2 ±0.2	1.0	20	19	230 ±5	10
7577-003	/	3/8	9.7 -0.1 +0.3	1.0	20	19	230 ±5	10
7577-004	10	/	10.2 -0.1 +0.3	1.0	20	19	230 ±5	10
7577-005	12	/	12.2 -0.1 +0.3	1.0	20	21	230 ±5	12
7577-006	/	1/2	12.9 -0.1 +0.3	1.0	20	21	230 ±5	12
7577-007	15	/	15.2 -0.1 +0.3	1.0	20	27	255 ±5	16
7577-008	16	5/8	16.2 -0.1 +0.3	1.0	20	27	255 ±5	16
7577-009	18	/	18.2 -0.1 +0.3	1.0	25	27	255 ±5	16
7577-010	/	3/4	19.3 -0.1 +0.3	1.0	25	27	255 ±5	16
7577-011	22	7/8	22.4 -0.2 +0.3	1.5	25	32	290 ±5	20
7577-012	28	1 1/8	28.9 -0.2 +0.3	1.5	25	39	330 ±5	25
7577-013	35	1 3/8	35.3 -0.2 +0.3	2.0	30	48	375 ±10	32
7577-014	42	1 5/8	42.3 -0.2 +0.3	2.0	35	58	430 ±10	40
7577-015	54	2 1/8	54.3 -0.2 +0.3	2.5	45	70	510 ±10	50
7577-016	64	/	64.4 -0.2 +0.4	2.5	55	89	690 ±10	65
7577-017	65	/	65.4 -0.2 +0.4	2.5	55	89	690 ±10	65
7577-018	67	2 5/8	67.1 -0.2 +0.4	2.5	55	89	690 ±10	65
7577-019	76	3	76.4 -0.2 +0.4	3.0	35	89	690 ±10	65
7577-020	80	/	80.5 -0.3 +0.5	3.0	35	89	690 ±10	65
7577-021	/	3 1/8	79.8 -0.2 +0.4	3.0	35	89	690 ±10	65
7577-022	89	3 1/2	90.0 -0.3 +0.5	3.0	70	104	710 ±10	80
7577-023	/	3 5/8	93.0 -0.3 +0.5	3.0	45	104	710 ±10	80

VTG 4 1/8 and VTG 108 see drawing 7578-000.
ND = nominal diameter of the flexible pipe.

COMPONENTS

1. End fitting	Mat.	EN 12449	CW024A R360	(Cu-DHP)
2. Fitting	Mat.	EN 10088-1	1.4305/1.4301	(AISI 303/304)
3. Braid	Mat.	EN 10088-1	1.4301/1.4306	(AISI 304/304L)
4. Flexible pipe	Mat.	EN 10088-1	1.4541/1.4404	(AISI 321/316L)
5. Ring	Mat.	EN 10088-1	1.4301	(AISI 304)

NORMAL WORKING CONDITIONS

- Nominal pressure : NP 35 up to code 7577-015 NP 25 from code 7577-016.
- Temperature : -100°C min +250°C max.
- Fluid : Vibration absorber VIBRATIG is suitable for fluids of GROUP 2 according to art. 9 of European Directive 97/23/EC.

DESIGN AND CONSTRUCTION

Product's design and manufacturing according to following documents: EUROPEAN DIRECTIVE 97/23/EC, 7374 GENERAL PRODUCT DESCRIPTION AND PED CLASSIFICATION, 7394 WELDING SETUP, 7446 DESIGN.

The product according to form A of European Directive 97/23/EC.

VIBRATIG vibration absorbers are made in stainless steel, with copper end fittings. ALL WELDINGS, COPPER/STAINLESS STEEL INCLUDED, ARE MADE THROUGH TIG SYSTEM. Being brazing-free, it is possible to braze the end fittings to the pipe system without overheating risks to the VIBRATIG itself.

EMPLOY

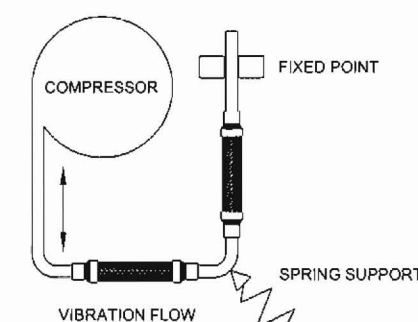
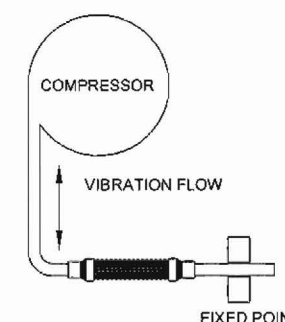
VIBRATIG vibration absorbers are used to avoid the vibrations induced by the compressor, can come to the piping system. Moreover VIBRATIG reduce noises and can compensate small thermal displacements.

The peculiar feature of VIBRATIG allows also VERTICAL installation. The possibility of water condensation in the lower side has been eliminated. NO PROBLEM EVEN AT TEMPERATURE BELOW ZERO.

INSTALLATION CRITERIA

- User must be aware that VIBRATIG cannot absorb torsional and axial stresses, both in compression and extension.
- VIBRATIG must be installed perpendicularly to the vibration flow. In some situation it is necessary to foresee an arrangement with two VIBRATIG to ensure good performances to fatigue life. Should this situation occur, a suitable spring support must be added to ensure stability of system.
- Fluid overflow inside VIBRATIG can set off turbulences and noises phenomena which can damage and reduce fatigue life of the VIBRATIG. If so, it is suggested to switch to a bigger VIBRATIG size.
- Connection of VIBRATIG to the pipe system is generally made by brazing. The peculiar characteristics of VIBRATIG let the fitter perform such operations CARE-FREE FROM ANY OVERHEATING TO THE VIBRATIG ITSELF. Before the assembly of VIBRATIG check the length between the end fittings which must be major than E-2C-10 (mm) and after brazing the absence of axial stresses that could modify the line form or inflate the braid.
- Test pressure of the VIBRATIG must not exceed 1.5 nominal pressure.

ASSEMBLY EXAMPLE



CORROSION PERFORMANCES

- The chosen materials of VIBRATIG fully suits with the conveyed fluid, therefore no extra-thickness is foreseen.
- The installer will have to pay special care to protect VIBRATIG from possible corrosion agents coming from the environment.

VIBRATIG DISASSEMBLY

Should a VIBRATIG be taken down, take care of the following:

- Drain all fluid from the piping system
- Clean the inside pipe system
- Cut the VIBRATIG with a hand-saw instead of flame cut system.

MARKING

According to European Directive 97/23/EC VIBRATIG are marked as follows:

- From code 7577-001 to code 7577-013: ASTROFLEX-TORINO-ITALY-CODE-NP 35-SS/AA
- From code 7577-014 to code 7577-015: ASTROFLEX-TORINO-ITALY-CODE-NP 35-KKKK/AA
- From code 7577-016 to code 7577-023: ASTROFLEX-TORINO-ITALY-CODE-NP 25-KKKK/AA

Where: SS = week of manufacturing

AA = year of manufacturing

KKKK = lot's number of manufacturing

Marking is applied on the one place of indicated area.

ORDERING EXAMPLE

The code 7577-009 means a vibration absorber VTG 18 with A=18.2, B=1.0, E=255.

The code 7577-010 means a vibration absorber VTG 3/4 with A=19.3, B = 1.0, E=255.

NOTES

- The non compliance of even just one of the indications contained on this document frees ASTROFLEX S.P.A. from any responsibility.
- The technical department is at disposal to supply all the required indications for the right application of the flexible hose in situation different from the foreseen ones.
- ASTROFLEX S.P.A. reserves the right to modify the content of the drawing without notice.