

VIBRATION EXPANSION JOINT

FAF 5500



Features

- These absorbers, which have a compact and flexible structure, can replace rubber joints in high-pressure and pump connection installations where corrosive fluids are used.
- They are made of multilayer bellows with a compact structure.
- They are often used to eliminate vibration at the pump inlet and outlet.
- High pressure and cavitation replace rubber expansion joints in the flow.
- The forces caused by flow pressure are eliminated by limiting axial movements through the existing limit rods, eliminating the need for fixed support.
- Assembling without welding prevents material deterioration.
- Unlike rubber expansion joints, stainless steel bellows do not suffer from atmospheric damage when used in an outdoor installation.
- Stockpiled for quick delivery

Temperature

- -20, +430 °C

PRODUCTION STANDARTS

DN32 → DN250
PN 16

Design	TS10880 / DIN 30681
Connection	FLANGED EN 1092-1 / ISO 7005-1
Face to Face	TS10880 / DIN 30681
Marking	EN 19/ TS10880 / DIN 30681
Tests	TS10880 / DIN 30681
Corrosion Protection	Electrostatic Epoxy

Product Description

FAF5500 Vibration Absorber Expansion Joint is used in absorption-pressure lines to isolate vibration and is generally manufactured with two-ply bellows.

Advantages

- Simple and robust construction
- Absorbs large amount of lateral, angular and axial movements
- Inexpensive
- Easy to install
- Low maintenance

Scope of Application

- Hot & cold water
- Superheated water
- Potable water
- Steam
- Gas networks
- Chemicals
- Pressurized Air
- Heat exchangers
- Pumps & compressors

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MATERIAL SELECTION

Bellow	1.4301 - AISI 304 Stainless Steel
	1.4401 - AISI 316 Stainless Steel
	1.4541 - AISI 321 Stainless Steel

Body	1.0037 - ST 37 Steel
	1.4301 - AISI 304 Stainless Steel
	1.4401 - AISI 316 Stainless Steel

Flange	1.0037 - ST 37 Steel
	1.4301 - AISI 304 Stainless Steel
	1.4401 - AISI 316 Stainless Steel

PRODUCTS MODEL CODES

FAF5500	VIBRATION EXPANSION JOINT, Flanged
FAF5520	VIBRATION EXPANSION JOINT, Welding End
FAF5000	RUBBER EXPANSION JOINT - LONG TYPE
FAF5100	AXIAL EXPANSION JOINT
FAF5200	EXTERNALLY PRESSURIZED EXPANSION JOINT
FAF5300	EXTERNAL PRESSURIZED EXPANSION JOINT
FAF5400	DILATATION EXPANSION JOINT
FAF5600	DECORATIVE EXPANSION JOINT

VALVE TEST PRESSURE (Bar)

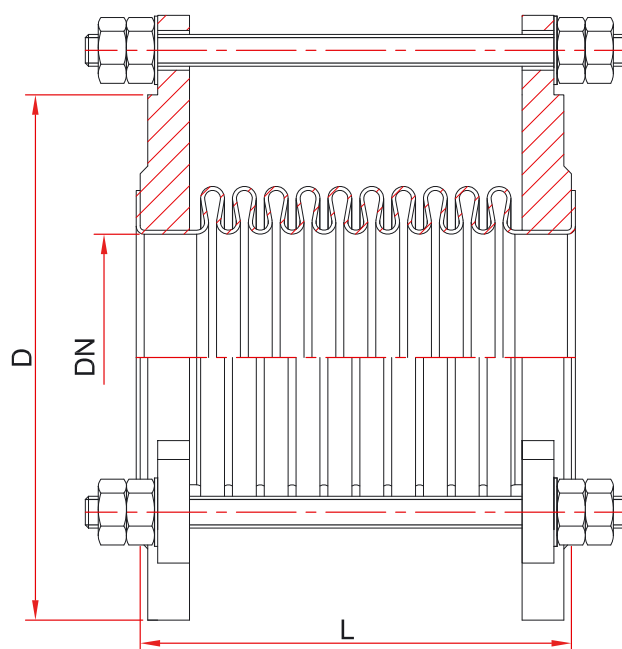
MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17,6

100% of the valves are subjected to hydrostatic tests at FAF facilities.

Note

- For proper use and safety precautions please follow the installation and operating instructions.

Technical Details & Drawing, Dimensions



DN	DIMENSION			RATINGS		BOLT DIMENSION	BOLT / NUT QTY	FASTENING MOMENT Nm	WRENCH SIZE (mm)
mm	D	L +/-5	Expansion Range	Effective Area cm ²	Weight kg				
32	140	110	-20/+10	21	3,2	M16X60	4X2	205	24
40	150	120	-20/+10	24	4,1	M16X60	4X2	205	24
50	165	120	-20/+10	36	5,5	M16X60	4X2	205	24
65	185	120	-20/+10	57	6,7	M16X60	4X2	205	24
80	200	120	-20/+10	77	8,8	M16X65	8X2	205	24
100	220	120	-20/+10	126	9,5	M16X65	8X2	205	24
125	250	125	-20/+10	180	12,5	M16X70	8X2	205	24
150	285	130	-20/+10	263	16,0	M20X75	8X2	400	30
200	340	150	-20/+10	434	22,00	M20X80	12X2	400	30
250	405	165	-20/+10	670	27,5	M24X90	12X2	691	36

* Valves can be produced with bigger sizes when requested.