

EXTERNALLY PRESSURIZED JOINT

FAF5200

5200



Features

- FAF External Pressurized Expansion Joints are preferred in long pipelines in order to use less number of expansion joints used and to reduce number of fixed points and roller bearing that increase installation costs.
- Rotary Flange or welding end is produced in the joints.
- Absorbs high amounts of expansion consists of thermal difference.
- With the help of pressure balance maintained through fluid pressure affecting the outer bellow, sprain possibility on the bellow is prevented.
- Since bellow is isolated from environment is not affected by external forces.
- Twists that may occur is eliminated via pressure balance which is provided by fluid pressure to influence the outer surface of the bellows.
- Due to isolated from external environment the risk of impairment is put away because of external factors.
- Additionally they are favourable to be used for fluids like boiling oil in which high safety factors are preferred.
- Large amounts of axial movement can now be absorbed using a long bellows that would have otherwise squirmed.
- As assembly aids for pumps, fittings and plate heat exchangers.
- Expansion joints are used in lots of applications, where it concerns safety, health, environment, durability and lifetime. Bellows are made from stainless steel strip which is first welded to a thin walled tube and formed to a bellow afterwards.
- It can be manufactured as rotary flanges (FAF5411), welding ends (FAF5421)
- Stock piled for quick delivery.

Temperature

- -20, +430 °C

PRODUCTION STANDARDS

DN32 → DN250
PN 16

Design	DIN 30681
Connection	Flanged End EN 1092-1 / ISO 7005-1 Welding End EN 12627
Face to Face	DIN 30681
Marking	DIN 30681
Tests	DIN 30681

Product Description

FAF5200 External Pressurized Expansion Joint is preferred in pipelines that expansion arising from temperature differences.

Purpose

- Absorbs large amounts of axial compression and extension.
- Eliminates pressure instability.
- Does not restrain the pressure thrust
- Also absorbs pipeline expansion, compensates for misalignment, eliminates piping stresses.
- Ends costly failure and downtime caused by pipeline vibration transmissions
- Customized to solve your vibration problem

Versions

- Type: universal, lateral and angular expansion joints
- Pipe connection type: flanged, threaded
- Bellows structure: rated to the pressure and temperature load
- The externally pressurised expansion joints are customised solutions and are available in all dimensions, all sizes and all materials.

Scope of Application

- Steam
- Hot & cold water
- Potable Water
- Superheated Water
- Gas Networks
- Chemicals
- Pressurized Air
- Central heating
- Pumps & compressors

EXTERNALLY PRESSURIZED JOINT

FAF5200

52000



MATERIAL SELECTION

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

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

Interior Pipe
 1.0037 - ST 37 Steel
 1.4301 - AISI 304 Stainless Steel
 1.4401 - AISI 316 Stainless Steel

Exterior Pipe
 1.0037 - ST 37 Steel
 1.4301 - AISI 304 Stainless Steel
 1.4401 - AISI 316 Stainless Steel

PRODUCTS MODEL CODES

FAF5211	External Pressurized Expansion Joint, Rotating Flanged, L= 30mm
FAF5212	External Pressurized Expansion Joint, Rotating Flanged, L= 60mm
FAF5213	External Pressurized Expansion Joint, Rotating Flanged, L= 90mm
FAF5214	External Pressurized Expansion Joint, Rotating Flanged, L= 120mm
FAF5221	External Pressurized Expansion Joint, Welding End, L= 30mm
FAF5222	External Pressurized Expansion Joint, Welding End, L= 60mm
FAF5223	External Pressurized Expansion Joint, Welding End, L= 90mm
FAF5224	External Pressurized Expansion Joint, Welding End, L= 120mm
FAF5000	RUBBER EXPANSION JOINT - LONG TYPE
FAF5100	AXIAL EXPANSION JOINT
FAF5300	ANGULAR EXPANSION JOINT
FAF5400	DILATATION EXPANSION JOINT
FAF5500	VIBRATION EXPANSION JOINT
FAF5600	DECORATIVE EXPANSION JOINT

VALVE TEST PRESSURE (Bar)

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

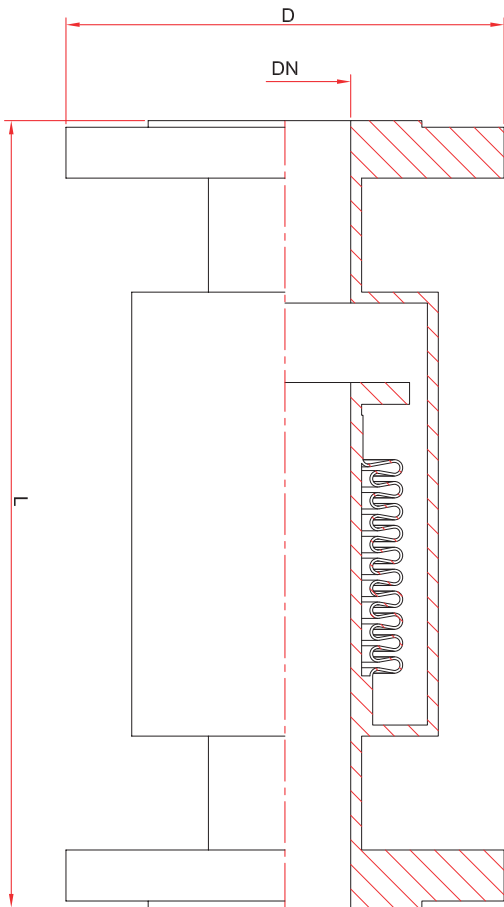
100% of the valves are subjected to hydrostatic tests at FAF facilities.

Note

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

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Technical Details & Drawing, Dimensions



FLANGED EXPANSION JOINT				
DN	DIMENSION			RATINGS
mm	D	L +/-5	Expansion Range	Weight kg
32	140	295	-20/+10	5,4
		150	-40/+20	6,6
		165	-60/+30	7,8
40	150	295	-20/+10	6,7
		200	-40/+20	8,2
		220	-60/+30	9,6
50	165	300	-20/+10	9,5
		285	-40/+20	11,6
		340	-60/+30	13,7
65	185	310	-20/+10	11,0
		400	-40/+20	13,5
		515	-60/+30	16,0
80	200	315	-20/+10	14,5
		405	-40/+20	17,5
		525	-60/+30	20,7
100	220	315	-20/+10	18,2
		405	-40/+20	20,7
		525	-60/+30	24,3
125	250	325	-20/+10	24,7
		425	-40/+20	30,0
		535	-60/+30	35,3
150	285	335	-20/+10	28,0
		440	-40/+20	33,5
		550	-60/+30	41,0
200	340	390	-20/+10	50,0
		500	-40/+20	57,5
		610	-60/+30	70,5
250	405	390	-20/+10	61,8
		500	-40/+20	72,0
		610	-60/+30	93,5

* Valves can be produced with bigger sizes when requested.