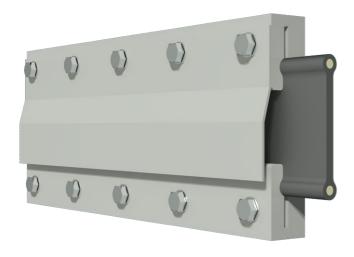
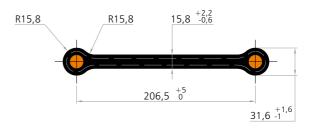
Dog bone expansion joint



Cross section Dog bone



Application:

Dog bone expansion

joints are used as

flexible connection

generating stations, to isolate low pressure

steam turbines from

main functions is to

condensers. One of its

absorb the differential

and lateral movements

of the two components,

as the equipment heats

and expands during

operation. Dog bone

minimal forces and

exhaust flange.

expansion joints transfer

moments on the turbine

thermal compression

between turbines neck

and condensers in power

Dog bone expansion joint

Design:

Straight rubber belt type expansion joint with self-sealing rubber knobs on both sides to insure leak tightness, designed to compensate axial compression and lateral movements, constructed of laminated fabric plies, tied to a solid bulb core, all bonded, covered in rubber and vulcanised. Dog bone types with molded arch are also available.

It is initially furnished with specially machined steel clamping fixtures, as a component of the condenser. As standard, it is designed to operate under full vacuum and at temperatures up to 120°C. Future replacements typically involves changing the rubber element only.

All dog bone joints will require a splice to make endless. Only one splice per joint is necessary. For new construction, most dog bones can be supplied with a factory splice. Subsequent replacements, most often require a field splice, due to added interference with the condenser. In any case, splicing should be done by experienced technicians.

Length: According to customer specification

Width: Standard = 240 mm

Media: Water, steam, air

Pressure: +1,5 bar / full vacuum

Movements: Axial compression = 30 mm

(max.)* Axial extension = 3 mm

Lateral displacement = 16 mm

回流和回 R 段数数 in D

Request assembly instructions at: www.ditec-adam.de/

^{*}for a standard width of 240 mm



Bellows elastomers and reinforcements

Elastomer	Fabric	°C	Remark
EPDM	Polyamid	up to 100°C	with peaks of 120°C for max. 36 hours during whole service life
EPDMht	Aramid	up to 120°C	with peaks of 140°C for max. 36 hours during whole service life
CR	Polyamid	up to 90°C	with peaks of 110°C for max. 36 hours during whole service life
FPM	Aramid	up to 140°C	with peaks of 160°C for max. 36 hours during whole service life

