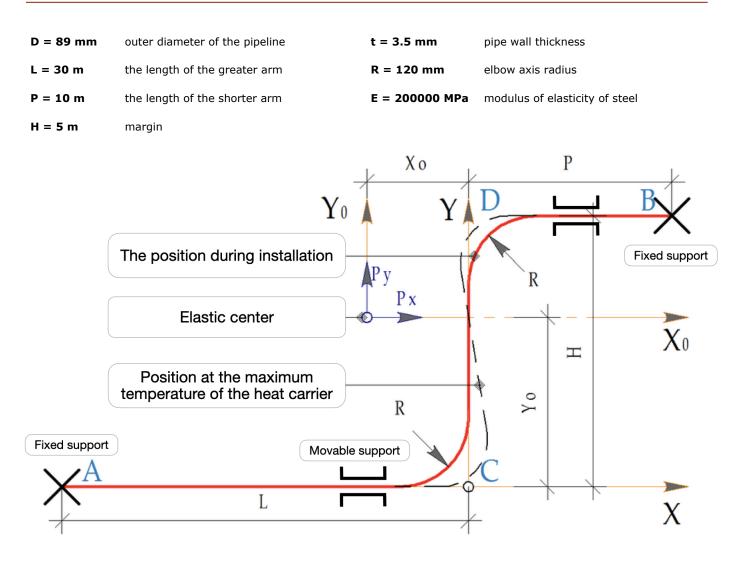
## Calculation of the Z-shaped pipe compensator

## **Initial data**



## **Calculation results**

- dL = 48 mm an increase in the length of the larger arm
- dP = 16 mm an increase in the length of the lower arm
- dH = 8 mm an increase in the length of the overall length
- Px = 120 N the force of elastic deformation is directed along the axis X
- Py = 17 N the force of elastic deformation is directed along the axis Y
- -6 MPa\* bending compensating stress at a point A
- -10 MPa\* bending compensating stress at a point B
- -15 MPa\* bending compensating stress at a point C
- 16 MPa\* bending compensating stress at a point D

\*bending stress within the permissible value of +/-80MPa