INDUSTRIAL FIXING SYSTEMS SLIDING FITTINGS AND ACCESSORIES

SE Saddle flange support for insulated pipes

APPLICATION

Pipes fixing with sliding support to compensate for system's expansion.

FEATURES AND BENEFITS

- > It is used to support insulated pipes.
- > It can be used to support non-insulated pipes as well to reduce friction on the sliding area.
- > It must be installed together with the saddle flange roller support "RS", which prevents the roller support from directly touching the insulation of the pipe.







СОД	Туре	For pipes Ø mm	Α	В	с	D	S
165760	SE 1	0-80	60	80	25	200	40
165761	SE 2	80-180	60	95	35	300	60
165762	SE 3	180-300	92	125	60	300	80
165763	SE 4	300-500	135	170	90	300	110

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PIPES' LINEAR EXPANSION

According to the temperature leap ($\Delta t^{\circ}C$) pipes are subject to linear lengthening. This extension changes according to the material of which the pipe is made.

	MATERIAL	mm/mK
	PE	0,2000
	PP	0,1500
PLASTIC PIPES	PVDF	0,1200
	PVC	0,0700
	PE-HD	0,0260
	STAINLESS STEEL	0,0169
STEEL PIPES	COPPER (Cu)	0,0170
	STEEL (Fe)	0,0123

MAIN COEFFICIENTS OF LINEAR EXPANSION FOR THE MOST USED PIPES

FORMULA TO CALCULATE **PIPE'S LENGTHENING**

$\Delta_{L} = L_{0} * (T_{2} - T_{1}) * \lambda$

Where:

Δ _L	is the lengthening in mm
L	is the initial lengthening in m

- is the final temperature (see note) T_2
- T₁ is the initial temperature (see note)
- is the expansion coefficient in mm/mK λ

Note: as it is a temperature variation ($\Delta t=T2-T1$) there is no need to use K (kelvin), while °C (celsius degrees) can be used as well.

The following charts display the extensions (Δ L.mm) that might affect different kinds of pipes, 1 mt long. The temperature range ($\Delta t^{\circ}C$) fall within 0°C and 70°C.

PLASTIC PIPES EXPANSION



Example: PE pipes – temperature leap ∆t 40 °C – 8mm lengthening – For 5 mt long pipe (8x5) 40 mm.

IRON (FE), STAINLESS STEEL AND COPPER PIPES EXPANSION





MATERIALS TECHNICAL DATA

ROLLER

Galvanized carbon steel EN 10027 zincato

RECOMMENDED LOADS



Recommended load is the average resistance load with a safety coefficient.

Data are expressed in daN 1 daN=1 kg

INSTALLATION TOOLS AND RECOMMENDATIONS

The V-shaped side leans on the pipe, while the sliding flat one is set on the roller of the support.

PACKAGING

In cardboard box

RELATED ITEMS

> RS - Saddle flange roller support

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