

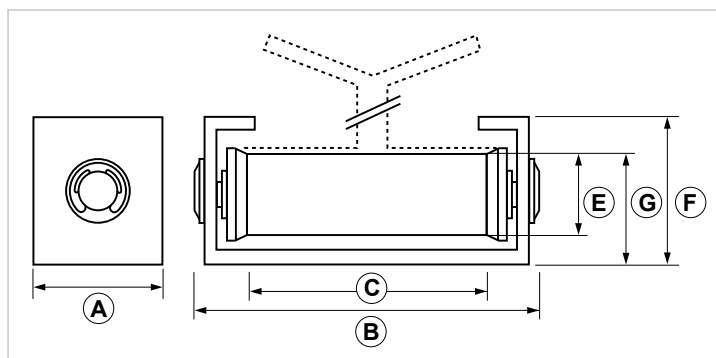
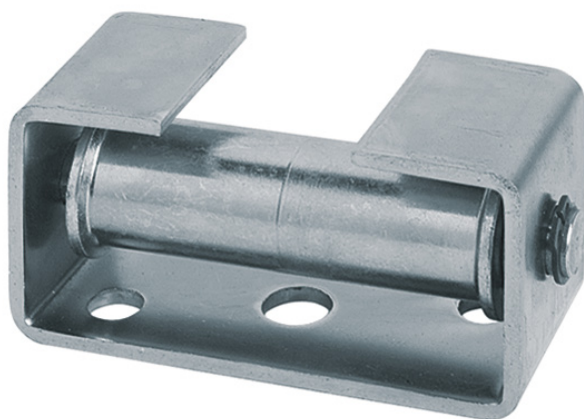
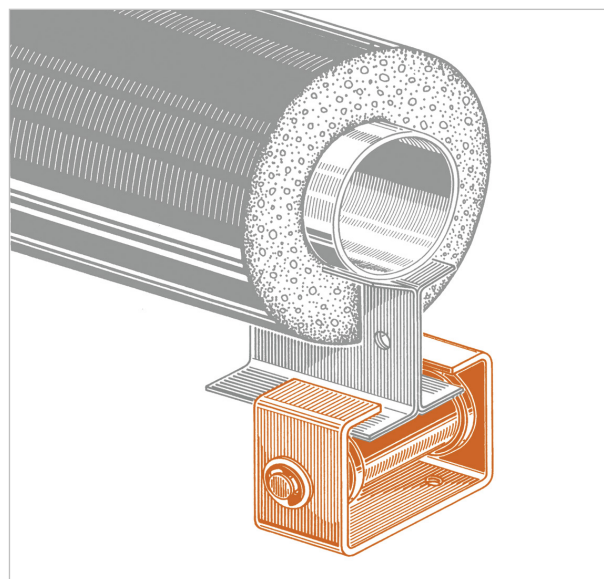
RS Saddle flange roller support

APPLICATION

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

FEATURES AND BENEFITS

- > It is used to **support insulated pipes and make them slide longitudinally.**
- > It can be used to support **non-insulated pipes as well** to reduce friction when the latter is resting on the support.
- > It must be **installed together with the saddle flange support "SE"**, on which it is set to prevent the roller support from directly touching the insulation of the pipe.



COD	Type	Fixing holes	A	B	C	E	F	G
165750	RS 1	n°2x8,5 n°1x10,5	35	89	62	26	40	30
165751	RS 2	n°2x8,5 n°1x10,5	50	105	65	46	77	61
165752	RS 3	n°2x8,5	65	143	99	63	100	76
165753	RS 4	n°2x8,5	90	198	145	78	130	100

INDUSTRIAL FIXING SYSTEMS

SLIDING FITTINGS AND ACCESSORIES

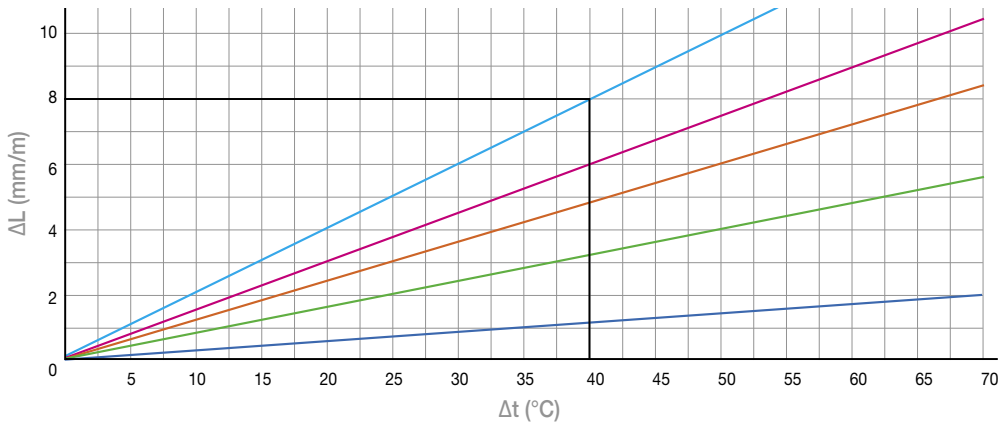
PIPES' LINEAR EXPANSION

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

MAIN COEFFICIENTS OF LINEAR EXPANSION FOR THE MOST USED PIPES			FORMULA TO CALCULATE PIPE'S LENGTHENING	
	MATERIAL	mm/mK	$\Delta_L = L_0 * (T_2 - T_1) * \lambda$	
PLASTIC PIPES	PE	0,2000		
	PP	0,1500		
	PVDF	0,1200		
	PVC	0,0700		
	PE-HD	0,0260		
STEEL PIPES	STAINLESS STEEL	0,0169	<p>Where:</p> <ul style="list-style-type: none"> Δ_L is the lengthening in mm L_0 is the initial lengthening in m T_2 is the final temperature (see note) T_1 is the initial temperature (see note) λ is the expansion coefficient in mm/mK <p>Note: as it is a temperature variation ($\Delta t=T_2-T_1$) there is no need to use K (kelvin), while $^{\circ}\text{C}$ (celsius degrees) can be used as well.</p>	
	COPPER (Cu)	0,0170		
	STEEL (Fe)	0,0123		

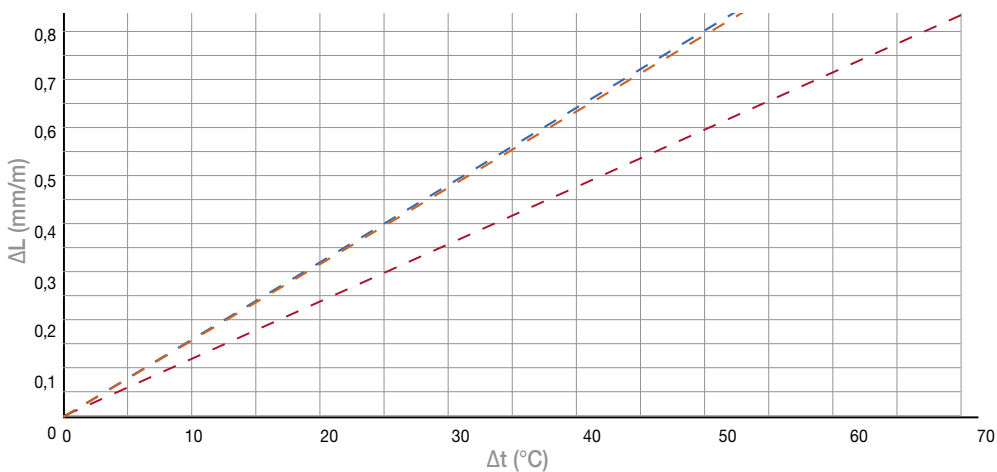
The following charts display the extensions (ΔL .mm) that might affect different kinds of pipes, 1 mt long. The temperature range ($\Delta t^{\circ}\text{C}$) fall within 0°C and 70°C .

PLASTIC PIPES EXPANSION



Example: PE pipes – temperature leap Δt 40 $^{\circ}\text{C}$ – 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

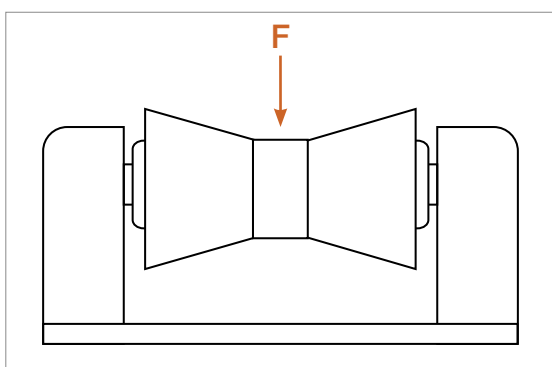
PIN

Stainless steel AISI 304 - EN 10088

SOCKET

Self-lubricant

RECOMMENDED LOADS



TYPE	F
RS 1	600
RS 2	1000
RS 3	1500
RS 4	2500

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

Data are expressed in daN

1 daN=1 kg

INSTALLATION TOOLS AND RECOMMENDATIONS

Roller supports are connected to the main supporting structure via welding. In case of pipes with wide diameter and narrow thickness - in order to avoid pipe deformation when leaning on the rollers - it is recommended to install the supports at small distance from one another.

PACKAGING

In cardboard box

RELATED ITEMS

> SE - Saddle flange support for insulated pipes

DATE 07-2023 REV. 01

The current technical data sheet substitutes and cancels the previous ones. The details provided fit our current knowledge of the product. It cannot lead us to any sort of responsibility or compensation.

Gia S.p.A. reserves the right of changing technical features and molds without notice.

This company is subject to "Ethica Global Investments S.p.A." management.

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