# MÜPRO

## Insulation clamps type 170 EX

galvanised

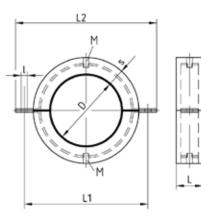
#### Application

- Thermal decoupled pipe attachment in the field of refrigeration
- Specially suitable for attachments in ventilation, air-conditioning, heating, refrigeration installations as well as for hot and chilled water pipes
- Stable insulating element for high impacts

#### Your advantages

- Exterior connection joints (without screws)
- With dual-side metric connection thread
- High vapour diffusion resistance
- With caoutchouc lining on the pipe side and on the separation surfaces of the insulating clamp, no PU-Sealer neccessary
- Ideal for separating individual pipe sections when using open diffusion insulating materials (mineral fibre)





### Features

olyurethane, black 2 acc. to DIN 4102 (normally flammable) 50 = 0.029 W/mK at -180 °C, λ = 0.032 W/mK at -150 °C,
50
= 0.029 W/mK at -180 °C, λ = 0.032 W/mK at -150 °C,
= 0.038 W/mK at -100 °C, λ = 0.044 W/mK at -50 °C, = 0.047 W/mK at -20 °C, λ = 0.049 W/mK at 0 °C, = 0.052 W/mK at +20 °C, λ = 0.054 W/mK at +40 °C
i0 °C to +105 °C
= 1,430
11 N/mm² at -180 °C, 9.62 N/mm² at -80 °C, 91 N/mm² at 0 °C, 3.96 N/mm² at +23 °C
=

Pipe outer Ø D	Connecting thread	Insulation thickness	Shell length L	Strip perforation	Permanent load-bearing	Dimensions [mm]		Part no.	Sales unit	Pack unit	
[mm]	Μ	s [mm]	[mm]	for I	capacity [N]	L1	L2				
114.3	M10	40	60	M12	2,740	238	274	111173	1	Pieces	
133						3,190	264	300	111175		
139.7					3,350			111177			
159	M12				3,830	279	319	111179			
168.3					4,040	288	328	111181			
219.1	M16		100		5,260	359	399	111183			
273				M16	8,190	413	453	111187			
323.9	M20				11,600	464	504	111191			
406.4	M24		120		19,500	556	606	111199			
219.1	M16	60	100	M12	5,260	399	439	111185			
273				M16	8,190	453	493	111189			
323.9	M20				11,600	504	544	111193			
355.6					12,000	536	576	111195			
368			120		13,250	548	588	111197			
406.4	M24				19,500	596	646	111201			
457.2		08				21,900	647	697	111203		
508						24,300	698	748	111205		
609.6				140		29,200	798	848	111207		

According to the AGI Working Sheet Q 11 ("Arbeitsgemeinschaft Industriebau", an association for industrial construction works) the insulation of refrigeration lines must be made diffusion tight. The connection with the outer pipe insulation is made by using a complying adhesive for the insulation material (use adhesive suitable for PU).

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