

## Insulation clamps type 175 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

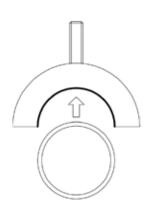
- Two half shells including screws, mounted
- With combined connecting thread metric and inch
- High vapour diffusion resistance
- Ideal for separating individual pipe sections when using open diffusion insulating materials (mineral fibre)
- With caoutchouc lining on the pipe side and on the separation surfaces of the insulating clamp, no PU-Sealer neccessary



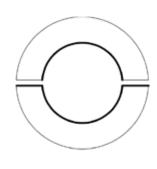






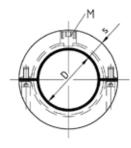


Position pipe



Firmly screw lower half with the offset caoutchouc seating (PUR on caoutchouc, caoutchouc on PUR) firmly to the upper half. The additional use of PU sealer may be obmitted

Features	
Material	Polyurethane, black
Fire classification	B2 acc. to DIN 4102 (normally flammable)
Effective density [kg/m³]	250
Thermal conductivity	$\lambda = 0.029 \text{ W/mK at -180 °C}, \ \lambda = 0.032 \text{ W/mK at -150 °C}, \\ \lambda = 0.038 \text{ W/mK at -100 °C}, \ \lambda = 0.044 \text{ W/mK at -50 °C}, \\ \lambda = 0.047 \text{ W/mK at -20 °C}, \ \lambda = 0.049 \text{ W/mK at 0 °C}, \\ \lambda = 0.052 \text{ W/mK at +20 °C}, \ \lambda = 0.054 \text{ W/mK at +40 °C}$
Temperature range	-50 °C to +105 °C
Water vapour diffusion resistance	$\mu = 1,200$
Compression strength	8.11 N/mm² at -180 °C, 9.62 N/mm² at -80 °C, 4.91 N/mm² at 0 °C, 3.96 N/mm² at +23 °C







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Pipe outer Ø D [mm]	Connecting thread M	Insulation thickness [mm]	Shell length L [mm]	Locking Screws	Permanent load- bearing capacity [N]	Part no.	Sales unit	Pack unit
9.5	M8/M10/½" 30	/8/M10/½" 30	40	5	250	111360	10	Pieces
12.7						111304		
15.8					270	111312		
17.2						111318		
18					280	111320		
21.3					330	111326		
22					340	111330		
26.9					420	111332		
28					440	111334		
33.7					530	111336		
35			50		550	111338		
42.4					660	111340		
48.3					750	111342		
50					790	111344		
54					870	111346		
60.3		M10/½"			1,200	111350		
64	M10/½"				1,240	111352		
70				6	1,370	111354		
76.1					1,480	111356		
88.9					1,730	111358	5	
108		40	60		2,530	111299		
114.3					2,670	111302		
129					3,010	111306		
133					3,110	111308		
139.7					3,270	111310		
159	M12/½"			8	3,720	111314	4	
168.3					4,040	111316		
193.7	M16/3/4"	M16/³⁄₄" 60	100		4,300	111322	1	
204					5,200	111324		
219.1					5,260	111328		



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).