

TECHNICAL DATA SHEET

RISERS AND TRANSITIONS MANUFACTURED IN ACCORDANCE WITH STANDARD UNE-60405

DESCRIPTION:

- **TRANSITION:** Element that provides the transition from a polyethylene pipe to a metallic pipe (steel, copper), or that connects to an element or accessory, preventing manual disassembly from the polyethylene pipe.
- **RISER:** Transition or connection element that enables the passage from the buried section to the above-ground section of the receiving installation, or vice versa, or facilitates passage through façade walls. The mechanical joint of the riser is always covered by anti-moisture polyurethane resin and by a protective metal sleeve.

FIELD OF APPLICATION

All these fixed PE-metal mechanical transition joints are intended for networks, service lines and receiving installations using gaseous fuels of the first, second or third family, as defined in Standard EN-437.

Standard UNE-60405 defines the construction requirements, test methods and marking, according to the classification in Chapter 5 of Standard UNE-60405-1 for networks, service lines and receiving installations.

MODELS

PE/COPPER RISER	PE/STEEL RISER	PE/STAINLESS	PE/COPPER	PE/STEEL Trans.	PE/STAINLESS
					

PE/COPPER ELBOW RISER	PE/STEEL ELBOW RISER	PE/STAINLESS STEEL ELBOW RISER
		

NOMENCLATURE

The riser/transition model designated as **PE/Cu** means a riser or transition from **POLYETHYLENE to COPPER**.

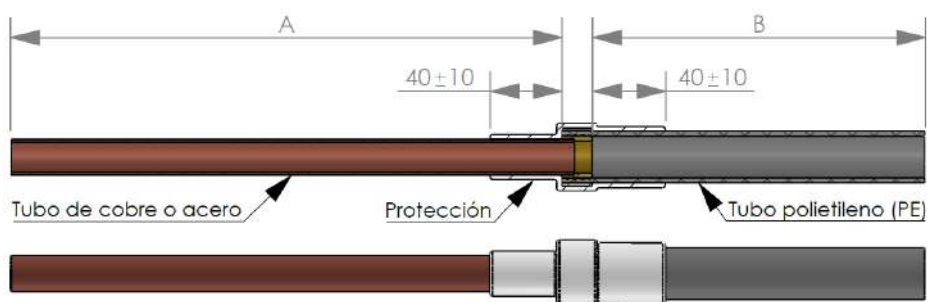
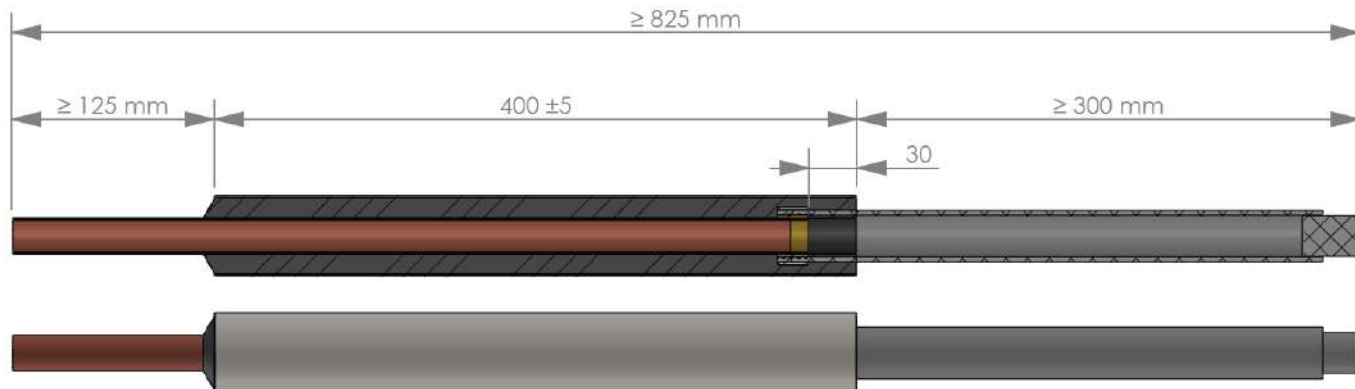
The riser/transition model designated as **PE/Ac** means a riser or transition from **POLYETHYLENE to STEEL** (carbon steel).

The riser/transition model designated as **PE/Ac Inox** means a riser or transition from **POLYETHYLENE to STAINLESS STEEL**.

All diameters and lengths are expressed in **millimetres (mm)**. The maximum operating pressure (**MOP**) is expressed in **bar**.

The **length** of the **sleeve** of the **risers** is **400 mm** in all cases, sizes and models.

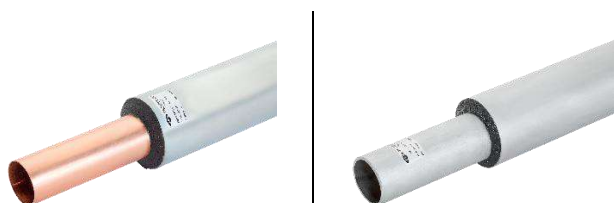
General dimensions of risers and transitions, according to UNE-60405



ITEM	A (Cu)	A (Ac)	B (PE)
Transition DN20	350±5	---	200±5
Transition DN25	350±5	250±5	200±5
Transition DN32	---	250±5	200±5
Transition DN40	350±5	---	200±5
Transition DN50	350±5	300±5	200±5
Transition DN80	---	300±5	200±5
Transition DN100	---	400±5	250±5
Transition DN150	---	400±5	250±5
Transition DN200	---	500±5	250±5

View of the protection system for mechanical joints in risers and transitions

Risers



Protection system with sleeve and polyurethane

Transitions



Protection system with heat-shrink sleeve

List of components and materials

RISERS according to UNE-60405 **TRANSITIONS** according to UNE-60405

COMPONENT	STANDARD
PE pipe	EN-1555
Steel pipe	EN-ISO-3183
	EN-10208
Copper pipe	EN-1057
Brass body	EN-12164
	EN-12165
	EN-1982
Fixing sleeve	EN-ISO-3183
	EN-10208
Elastomers	EN-682
Polyurethane resin	EN-682
Sleeve	UNE 60405-2 6.1.1.3
Marking	UNE-60750

COMPONENT	STANDARD
PE pipe	EN-1555
Steel pipe	EN-ISO-3183
	EN-10208
Copper pipe	EN-1057
Brass body	EN-12164
	EN-12165
	EN-1982
Fixing sleeve	EN-ISO-3183
	EN-10208
Elastomers	EN-682

SPECIFICATIONS for PE/Cu RISERS

CODE	ARTICLE	ØPE	ØCu	MOP
7621003200	Straight riser DN25	32	22	5
7621004000	Straight riser DN32	40	42	5
7621006300	Straight riser DN50	63	54	5
7621103200	Elbow riser DN25	32	22	5
7621104000	Elbow riser DN32	40	42	5
7621106300	Elbow riser DN50	63	54	5

SPECIFICATIONS for PE/Stainless Steel RISERS

CODE	ARTICLE	ØPE	ØAc Inox	MOP
7621023200	Straight riser DN25	32	22	5
7621024000	Straight riser DN32	40	42	5
7621026300	Straight riser DN50	63	54	5
7621029000	Straight riser DN80	90	88,9	5

SPECIFICATIONS for PE/Cu TRANSITIONS

CODE	ARTICLE	ØPE	ØCu	MOP
7622000200	Transition DN20	20	18	10
7622000320	Transition DN25	32	22	10
7622003228	Transition DN25	32	28	10
7622000400	Transition DN40	40	42	10
7622000630	Transition DN50	63	54	10

SPECIFICATIONS for PE/Stainless Steel TRANSITIONS

CODE	ARTICLE	ØPE	ØAc Inox	MOP
7622020320	Transition DN25	32	22	10
7622020400	Transition DN32	40	42	10
7622020630	Transition DN50	63	54	10
7622020900	Transition DN80	90	88,9	10

SPECIFICATIONS for PE/Steel RISERS (carbon steel)

CODE	ARTICLE	ØPE	ØAc	MOP
7621013200	Straight riser DN25	32	1" (Ø33,7)	5
7621014000	Straight riser DN32	40	1 1/4" (Ø42,4)	5
7621016300	Straight riser DN50	63	2" (Ø60,3)	5
7621019000	Straight riser DN80	90	3" (Ø88,9)	5
7621203200	Elbow riser DN25	32	1" (Ø33,7)	5
7621204000	Elbow riser DN32	40	1 1/4" (Ø42,4)	5
7621206300	Elbow riser DN50	63	2" (Ø60,3)	5
7621209000	Elbow riser DN80	90	3" (Ø88,9)	5

SPECIFICATIONS for PE/Steel TRANSITIONS (carbon steel)

CODE	ARTICLE	ØPE	ØAc	MOP
7622010320	Transition DN25	32	1" (Ø33,7)	10
7622010400	Transition DN32	40	1 1/4" (Ø42,4)	10
7622010630	Transition DN50	63	2" (Ø60,3)	10
7622010900	Transition DN80	90	3" (Ø88,9)	10
7622011100	Transition DN100	110	4" (Ø114,3)	10
7622011600	Transition DN150	160	6" (Ø165,1)	10
7622012000	Transition DN200	200	8" (Ø219,1)	10