

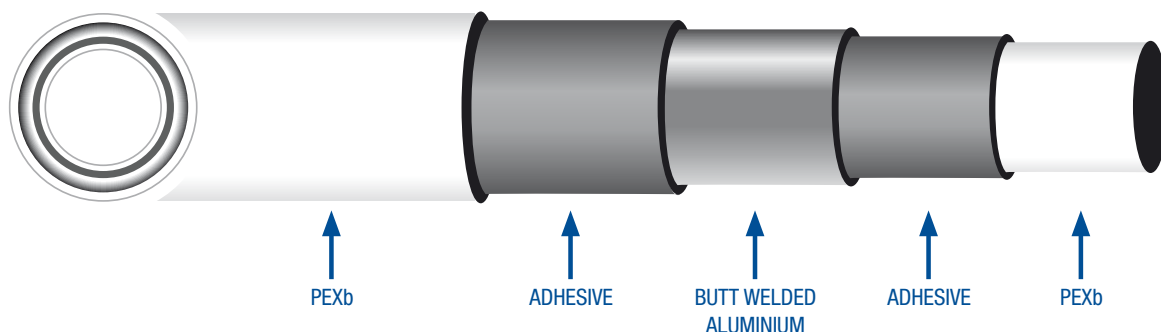


# Instantor® Press & Pex-Al-Pex

**Manufactured  
to ISO 21003**



## INSTANTOR® PEX-AL-PEX



### PRODUCT OVERVIEW

**INSTANTOR® PEX-AL-PEX** (PE-xB/Al/PE-xB) is a multilayer pipe manufactured to EN ISO 21003, combining all the advantages of metal and plastic pipe. This pipe is constructed with a double inner and outer layer of Silane method crosslinked polyethylene PE-xB, then bound by quality adhesive to a longitudinally TIG butt welded 100% oxygen tight aluminium layer. It is this aluminium layer that allows the pipe to maintain its shape after bending. Total hygiene and high corrosion resistance is ensured as fluids come in contact with the inner PE-xB layer only.

### MULTI APPLICATIONS:

**Potable water, underfloor heating and all general plumbing, heating, cooling installations in civil, industrial and commercial applications.**

### FEATURES:

- This is a more cost effective pipe system when compared with conventional piping systems.
- All the combined advantages of metal and plastic pipes
- Lightweight, flexible and maintains its shape after bending
- Cost effective - requires less fittings than traditional methods
- Available in
  - Coils - 16mm x 100M, 20mm x 100M, 26mm x 50M, 32mm x 50M
  - Insulated Coils - 16mm x 100M, 20mm x 50M, 26mm x 25M, 32mm x 25M
- Butt welded aluminium pipe is 100% oxygen & water vapour tight
- Excellent heat preservation
- Highly corrosion resistant
- Low factor of linear expansion
- Low noise emission due to plastic properties of pipe
- Highly temperature and pressure resistant, up to 95°C, 1Mpa (10bar)
- Guarantee – 10 years on system, 50 years on materials



### INSTANTOR® PEXB/AL/PEXB PIPE COILS

CODE	SIZE	PALLET QTY	PRICE €
IPAP101	16 X 100M	10	
IPAP102	20 X 100M	10	
IPAP103	26 X 50M	10	
IPAP104	32 X 50M	10	
IPAP105	16 X 500M	-	

\*Larger Coils available on request

## INSTANTOR® PEXB/AL/PEXB PIPE



### DIMENSIONS

CODES	UNIT OF MEASUREMENT	IPAP101	IPAP102	IPAP103	IPAP104
Outer Diameter	mm	16	20	26	32
Inner Diameter	mm	12	16	20	26
Weight	g/m	110	147	268	355
Thickness of Aluminium	mm	0.25	0.3	0.35	0.5
Total Thickness	mm	2	2	3	3
Roll Length	M	100	100	50	25

### TECHNICAL SPECIFICATIONS

Volume of water	l/m	0.113	0.201	0.314	0.531
Internal roughness	µm	7			
Thermal conductivity at 20°C	W/mk	0.43			
Coefficient of expansion	mm/m°C	0.025			
Degree of crosslinking	°C	≥65°C			
Oxygen permeability	mg/l	0			
Colour		White			

### TECHNICAL SPECIFICATIONS

Type		PE-xB/Al/PE-xB multilayer pipe
Field of application		Plumbing in civil, industrial and commercial applications
Fluid		Potable water, technical water, and water glycol(*)
Continuous use temperature	°C	60
Max peak temperature	°C	110
Minimum operating temperature(*)	°C	0
Maximum operating pressure at 95°C	bar	10
Maximum operating pressure at 20°C	bar	30
Duration @ 95°C and 6 bar	years	50
Storage		Avoid prolonged exposure to direct sunlight
Minimum bend radius		5 times the diameter

(\*) In the case of water glycol, in order to define the minimum operating temperature, it is necessary to know the elements of the mixture and the various concentrations.

## Technical Specifications: INSTANTOR® PEXB/AL/PEXB INSULATED PIPE



### PRODUCT OVERVIEW

**INSTANTOR® PEX-AL-PEX (PE-xB/Al/PE-xB) INSULATED** multilayer pipe is an insulated multilayer pipe for multi-applications. Enclosed in a scratch resistant, closed cell polyethylene foam insulating sheath, this pipe is constructed with a double inner and outer layer of Silane method crosslinked polyethylene PE-xB, then bound by quality adhesive to a butt welded 100% oxygen tight aluminium layer. It is this aluminium layer that allows the pipe to maintain its shape after bending. Total hygiene and high corrosion resistance is ensured as fluids come in contact with the inner PE-xB layer only.

### MULTI APPLICATIONS:

**Potable water and all general plumbing, heating, cooling installations in civil, industrial and commercial applications.**

### INSTANTOR® PEXB/AL/PEXB INSULATED PIPE COILS

CODE	SIZE	PALLET QTY	PRICE €
IPAP201	16 X 100M	10	
IPAP202	20 X 50M	10	
IPAP203	26 X 25M	10	
IPAP204	32 X 25M	10	

\*Larger Coils available on request



### DIMENSIONS

CODES	UNIT OF MEASUREMENT	IPAP201	IPAP202	IPAP203	IPAP204
Outer diameter	mm	16	20	26	32
Sheath thickness for heating	mm	6	6	6	6
Diameter pipe + sheath(heating)	mm	28	32	38	44
Aluminium thickness	mm	0.25	0.3	0.35	0.5
Roll length	M	100	50	25	25

### TECHNICAL SPECIFICATIONS

Volume of water	l/m	0.113	0.201	0.314	0.531
Internal roughness	µm	7			
Thermal conductivity at 20°C	W/mk	0.04			
Coefficient of expansion	kg/m <sup>3</sup>	35 to 45			
Degree of crosslinking	%	≥65%			
Oxygen permeability	mg/l	0			
Colour		White			

## TECHNICAL SPECIFICATIONS

Pipe material		PE-xB/Al/PE-xB multilayer pipe
Sheath material		closed-cell polyethylene foam PE-LD
Scratch-resistant finish layer		closed-cell polyethylene foam PE-LD
Field of application		Plumbing in civil, industrial and commercial applications
Fluid		Potable water, technical water, and water glycol(*)
Continuous use temperature		60
Max peak temperature	°C	110
Minimum operating temperature(*)	°C	0
Maximum operating pressure at 95°C	bar	10
Maximum operating pressure at 20°C	bar	30
Duration @ 95°C and 6 bar	years	50
Storage		Avoid prolonged exposure to direct sunlight
Minimum bend radius(**)		5 times the diameter

(\*)Reference is made to a sheathed pipe and the use of a suitable water glycol mix.

(\*\*)Take the thickness of the sheath into account when bending a pipe with a bender.  
e.g.:  $\Phi 16$  sheath: total thickness=28mm, use bender with  $\Phi 26$  profile.



## INSTANTOR® PRESS-SYSTEM

### PRODUCT OVERVIEW

**INSTANTOR® Press fittings** are manufactured using the same high-grade CW617N brass as our market leading range of INSTANTOR® Brass Compression fittings. Every fitting features two EPDM O rings on each connection which, when pressed correctly, delivers a water-tight seal in seconds. Quick to install in three simple steps – **Cut, Calibrate & Press**, saving on time and costs as less fittings are required when compared with traditional plumbing methods. INSTANTOR® Press fittings are designed for use in sanitary water supply and heating systems.



**Max Operating Pressure:** 10 bar  
**Max Operating Temperature:** 95°C  
**Max Peak Temperature (at 1 hour):** 110°C  
Above specs relate to Instantor Press System combined with Instantor Pex-Al-Pex Multi Layer Pipe

### FEATURES

- Brass body manufactured from CW617N brass to EN ISO 21003, with pickled finish. Pickling is a surface treatment which cleans the fittings from all impurities and also helps the fittings keep their colour.
- Suitable for use with the following pipes:
  - Aluminium plastic composite / PE-X / PE-RT / PB/ Steel plastic composite
  - Manufactured as standard for use with Aluminium plastic composite pipe.
- Operating Temperatures 0°C to 110°C
- 304 Stainless Steel sleeves
- Three viewing inspection windows per stainless steel sleeve to allow a visual check so as to ensure the pipe is correctly inserted
- Application class 2/6 bar, 5/6 bar
- Available in sizes 16mm, 20mm, 26mm and 32mm
- TH profile
- EPDM O-rings

### INSTALLATION INSTRUCTIONS

1. **Cut** – Cut the pipe squarely to desired length using an appropriate cutting tool
2. **Calibrate** – Insert the reamer into the cut pipe and rotate, pushing slightly to remove all burrs and rough edges. NOTE, a poorly calibrated pipe could damage the O rings on insertion.
3. **Connect and Press** – Connect the pipe and fitting and check pipe is fully inserted in the inspection windows. The white of the pipe must be viewable through these holes. DO NOT USE SEALING AGENTS SUCH AS PTFE TAPE OR JOINTING COMPOUND. Use TH Profile Jaws to press.



CUT



CALIBRATE



PRESS

## IP10 STRAIGHT COUPLER



CODE	SIZE	PACK QTY	PRICE €
IP10001	16mm	10	
IP10002	20mm	10	
IP10003	26mm	10	
IP10004	32mm	10	

## IP10 STRAIGHT REDUCER



CODE	SIZE	PACK QTY	PRICE €
IP10021	20 x 16mm	10	
IP10032	26 X 20mm	10	
IP10042	32 X 20mm	10	
IP10043	32 X 26mm	10	

## IP11 STRAIGHT COUPLER M.I. X PIPE



CODE	SIZE	PACK QTY	PRICE €
IP11001	1/2"M x 16mm	10	
IP11021	3/4"M x 16mm	10	
IP11002	3/4"M x 20mm	10	
IP11032	1"M x 20mm	10	
IP11003	1"M x 26mm	10	
IP11034	1"M x 32mm	10	
IP11004	1¼M X 32MM	10	

## IP12 STRAIGHT COUPLER F.I. X PIPE



CODE	SIZE	PACK QTY	PRICE €
IIP12001	1/2"F x 16mm	10	
IP12021	3/4"F x 16mm	10	
IP12002	3/4"F x 20mm	10	
IP12032	1"F x 20mm	10	
IP12003	1"F x 26mm	10	
IP12034	1"F x 32mm	10	
IP12004	1¼F X 32mm	10	

## IP15 ELBOW



CODE	SIZE	PACK QTY	PRICE €
IP15001	16mm	10	
IP15002	20mm	10	
IP15003	26mm	10	
IP15004	32mm	10	

## IP16 ELBOW M.I. X PIPE



CODE	SIZE	PACK QTY	PRICE €
IP16001	1/2"M x 16mm	10	
IP16002	3/4"M x 20mm	10	
IP16032	1"M x 20mm	10	
IP16003	1"M x 26mm	10	
IP16034	1"M x 32mm	10	
IP16004	1¼M x 32mm	10	

## IP17 ELBOW F.I. X PIPE



CODE	SIZE	PACK QTY	PRICE €
IP17001	1/2"F x 16mm	10	
IP17002	3/4"F x 20mm	10	
IP17032	1"F x 20mm	10	
IP17003	1"F x 26mm	10	
IP17034	1"F x 32mm	10	
IP17004	1¼F x 32mm	10	

## IP18 EQUAL TEE



CODE	SIZE	PACK QTY	PRICE €
IP18001	16mm	10	
IP18002	20mm	10	
IP18003	26mm	10	
IP18004	32mm	10	

## IP18 REDUCING TEE



CODE	SIZE	PACK QTY	PRICE €
IP18112	16 x 16 x 20mm	10	
IP18211	20 x 16 x 16mm	10	
IP18221	20 x 20 x 16mm	10	
IP18212	20 x 16 x 20mm	10	
IP18331	26 x 26 x 16mm	10	
IP18332	26 x 26 x 20mm	10	
IP18441	32 x 32 x 16mm	10	
IP18414	32 x 16 x 32mm	10	
IP18442	32 x 32 x 20mm	10	
IP18443	32 x 32 x 26mm	10	

## IP19 WALLPLATE ELBOW



CODE	SIZE	PACK QTY	PRICE €
IP19001	1/2" F x 16mm	10	
IP19012	1/2" F x 20mm	10	

## IP30 TEE



CODE	SIZE	PACK QTY	PRICE €
IP30001	16 x 16 x 1/2" F	10	
IP30002	20 x 20 x 3/4" F	10	

## IP20 NUT AND INSERT ADAPTOR TO COPPER COMPRESSION



CODE	SIZE	PACK QTY	PRICE €
IP20001	1/2" x 16mm	10	
IP20002*	15 x 16mm	10	

\*IP20002 is suitable for use with all 15mm Sanbra Fyffe Standard TRV's and Rad Valves.

## BRASS MANIFOLDS (WITH ADAPTORS)



CODE	SIZE	PRICE €
771871K	3/4" x 1/2" 2 Port Manifold	
771874K	3/4" x 1/2" 3 Port Manifold	
771877K	3/4" x 1/2" 4 Port Manifold	
771872K	1" x 1/2" 2 Port Manifold	
771875K	1" x 1/2" 3 Port Manifold	
771878K	1" x 1/2" 4 Port Manifold	

## TOOLS AND ACCESSORIES

### PIPE REAMER



CODE	SIZE	BOX QTY	PRICE €
IP20010	16mm – 26mm	40	
IP20011	20mm – 32mm	30	

### PIPE CUTTER



CODE	SIZE	BOX QTY	PRICE €
IP20016	Up to 32mm		

### PRESS GUN



CODE	SIZE	PRICE €
IP20020	REMS Mini Press Gun 14.4V Battery Incl. 16, 20, 26mm TH Jaws & Case	
IP20021	REMS 14.4V Battery	
IP20022	16mm TH Jaws	
IP20023	20mm TH Jaws	
IP20024	26mm TH Jaws	
IP20025	32mm TH Jaws	

Purchase a Stock order of INSTANTOR® Pex-Al-Pex and INSTANTOR® Press fittings to the value of €5000 and receive a 50% discount off the REM's - R220G Mini-Press C/W 16mm – 20mm and 26mm. Pressing Tongs