Valves Instruments Plus

Multi-Layer Composite Pipe Systems & Fittings

INSTANTOR WORKS - SINCE 1926 -

Instantor®

Press System

50 YEAR WARRANTY

Fittings

Instantor®
Press System

INSTANTOR
LEAK BEFORE PRESS

50 YEAR WARRANTY

LBP

Introducing Leak Before Press – Your Built-In Safety Net.

Because nobody wants a callback.

Every installer knows the pressure of tight deadlines and the risks that come with a single missed press. One unsealed fitting can lead to water damage, customer complaints, and costly callbacks. That's why Instantor has introduced a Leak Before Press (LBP) option to its Press System solutions, a smart, fail-safe feature that gives you peace of mind on every job.

In water-based applications, LBP fittings are designed to visibly leak under low pressure if they haven't been pressed. This creates an immediate visual alert, allowing you to identify and correct any missed fittings before leaving the site. It's a simple yet highly effective way to catch small mistakes early and avoid major headaches later.

The new LBP Press Fittings are an alternative option to the original, trusted Instantor Press Fittings, with no compromise on the quality or durability you expect. Manufactured from CW617N brass and 304 stainless steel, these fittings are built to last and deliver a tight, secure, and guaranteed leak-free seal. They're available in sizes up to 32mm and pair perfectly with our Instantor Pex-Al-Pex pipe.

By helping you spot issues before they cause problems, LBP fittings save valuable time on every install. Backed by a 50-year warranty on both fittings and pipe, this is another example of how Instantor is committed to delivering smarter, safer, and more efficient plumbing solutions.

LBP Straight Coupler
16mm-63mm
151/1116

LBP Straight Reducer
16mm-63mm
151/1119

LBP Straight Coupler M.I x Pipe
16mm-63mm
151/1117

LBP Straight Coupler F.I x Pipe
16mm-63mm
151/1120

LBP Compression Adaptor
16mm-32mm
151/1304

LBP Compression Elbow Adaptor
16mm-20mm
151/1037

LBP Spigot Adaptor
16mm-32mm
151/1144

LBP 90o Elbow
16mm-32mm
151/1123

LBP 45o Elbow
16mm-32mm
151/1130

LBP Radiator Extension Elbow
16mm
151/1249

About Instantor

Instantor®
Press System

INSTANTOR
PRESS SYSTEM

50 YEAR WARRANTY

Instantor Press Fittings can be installed with confidence. The system comes with a reassuring 50 year guarantee on fittings & pipe.

WRAS APPROVED PRODUCT

Launched in 2015, and underpinned by ongoing research and development, the range has grown from strength to strength to provide a comprehensive portfolio of products. The Instantor Press System is quick and easy and uses a press tool to crimp the fitting securely on to the pipe. This removes the need for heat based methods such as welding and soldering and can be completed in three simple steps - Cut, Calibrate and Press.

kiwa approved KUKreg4 ATS 3

Instantor Pex-Al-Pex is a butt-welded multilayer pipe for use in potable water, underfloor heating and all general heating and plumbing applications. Available in sizes up to 63mm in straight lengths and up to 32mm in coils.

MULTILAYER PIPING SYSTEMS I.S. EN ISO 21003-1:2008 NSAI Certified

Compliant products are an essential element to the Instantor inventory, within the range there is an insulated multi-layer pipe that features increased insulation and Fire Classification EL (EN13501-17:2007 A1:2209). Compliant with Part L Domestic Table 20.

Instantor®

Pex-Al-Pex 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 and heating applications.

Instantor Pex-Al-Pex Pipe **Insulated Coils**

SIZE	WHITE CODE	VIP WHITE CODE	RED CODE	VIP RED CODE	BLUE CODE	VIP BLUE CODE	LINEAR THERMAL HEAT LOSS
16mm x 100M	IPAP201	151/0093/16/100W	IPAP301	151/0093/16/100R	IPAP401	151/0093/16/100B	10.636
20mm x 50M	IPAP202	151/0094/20/050W	IPAP302	151/0094/20/050R	IPAP402	151/0094/20/050B	12.456
26mm x 25M	IPAP203	151/0095/26/025W	IPAP303	151/0095/26/025R	IPAP403	151/0095/26/025B	14.335
32mm x 25M	IPAP204	151/0096/32/025W	IPAP304	151/0096/32/025R	IPAP404	151/0096/32/025B	16.819
26mm x 50M	IPAP205	151/0095/26/050W	-	-	-	-	14.335

Instantor Pex-Al-Pex Pipe - **Increased Insulation**

CODE	VIP CODE	SIZE	INSULATION THICKNESS	LINEAR HEAT LOSS	MAX PERMISSIBLE HEAT LOSS
IPAP1101	151/1865/016	16mm x 25M	17mm	7.008 W/m	7.89 W/m
IPAP1102	151/1865/020	20mm x 25M	17mm	7.436 W/m	9.12 W/m
IPAP1103	151/1865/026	26mm x 25M	19mm	9.491 W/m	10.07 W/m

Instantor Pex-Al-Pex Pipe - **Increased Insulation - BL Fire Rated**

CODE	VIP CODE	SIZE	INSULATION THICKNESS	LINEAR HEAT LOSS	MAX PERMISSIBLE HEAT LOSS
IPAP701	151/1859/016	16mm x 25M	17mm	7.889 W/m	7.89 W/m
IPAP702	151/1859/020	20mm x 25M	17mm	8.965 W/m	9.12 W/m
IPAP703	151/1859/026	26mm x 25M	19mm	9.973 W/m	10.07 W/m

IPAP7 RANGE IS PART L DOMESTIC TABLE 20 COMPLIANT

Linear Heat Loss Calculated as per ISO12241 via BS5422. Water temperature 60°, with still air temperature 15°

INSTANTOR® PEXB/AL/PEXB
Insulation Pipe Coils Technical Specifications

		IPAP201 IPAP301 IPAP401	IPAP202 IPAP302 IPAP402	IPAP203 IPAP303 IPAP403	IPAP204 IPAP304 IPAP404	IPAP205	IPAP1101	IPAP1102	IPAP1103	IPAP701	IPAP702	IPAP703
Outer diameter	mm	16	20	26	32	26	16	20	26	16	20	26
Sheath thickness for heating	mm	6	6	6	6	6	17	17	19	17	17	19
Diameter pipe + sheath (heating)	mm	28	32	38	44	38	50	54	64	50	54	64
Aluminium thickness	mm	0.25	0.3	0.35	0.5	0.35	0.25	0.30	0.35	0.25	0.3	0.35
Roll length	M	100	50	25	25	50	25	25	25	25	25	25
Volume of water	l/m	0.113	0.201	0.314	0.531	0.314	0.113	0.201	0.314	0.113	0.201	0.314
Thermal conductivity at 20°C	W/mk	0.04								0.0397		
Internal roughness	µm	7								7		
Coefficient of expansion	mm/m°C	0.025								0.025		
Density - Foam	kg/m³	35 to 45								35 to 45		
Degree of crosslinking	%	≥65%								≥65%		
Oxygen permeability	mg/l	0								0		
Colour		White / Red / Blue / White								Mild Grey		
Pipe material		PE-xB/Al/PE-xB multilayer pipe										
Sheath material		Cosed-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(*)										
Max peak temperature	°C	110										
Minimum operating temperature(*)	°C	0										
Maximum operating pressure at 95°C	bar	6										
Maximum operating pressure at 20°C	bar	10										
Duration at 95°C and 6 bar		Time duration to be determined by service conditions										
Storage		Avoid prolonged exposure to direct sunlight										
Minimum bend radius(**)		5 times the diameter										
Insulation Thickness (round)	mm	6	6	6	6	6	17	17	19	17	17	19
Fire Classification		**EL** (EN13501-17:2007 A1:2009)								BL-S1-d0 (EN13501)		

(*)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. eg.: Ø16 sheath: total thickness=28mm,use bender with Ø26 profile.

See page 51 for Application Class Table (ISO 21003-1)

Certificates


SGS

Verification Number:SHFTSVOC20220901 Date: SEP. 9, 2022

VERIFICATION OF CONFORMITY

Applicant: Sanbra Fyffe Ltd.

Address of Applicant: Instantor Works, Santry Ave, Dublin, D09 K160

PRODUCT(S)

General Description: Instantor Insulation pipe

REPORT REFERENCE

Standard(s): EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using test data from reaction to fire tests.

Report No.: SHFS2208000414FF

Date of Issue: Sep. 6, 2022

CONCLUSION(S)

Based upon a review of the Test Report(s), the product tested is deemed to meet the requirements of relevant standards and hence fulfils the requirements of:

B_L-s1, d0

Authorized Signatory

(On behalf of SGS-CSTC FIRE TECHNOLOGY SERVICE DEPARTMENT)

Lab Manager (Alex Mao)

SGS-CSTC Standards Technical Services Co., Ltd. Fire Technology Service Department No. 1301, Xingping Road, Jiading District, Shanghai, China.


NSAI

Licence to use the Irish Standard Mark

on or in connection with

Multilayer piping systems PEX for hot and cold water installations inside buildings

To indicate conformity to

I.S. EN ISO 21003-1

For INSTANTOR® Multilayer Pipe and INSTANTOR® Press fittings up to 50mm for application class/bar: 2/6 & 5/6

Manufactured on behalf of: Sanbra Fyffe Ltd, Instantor Works, Santry Avenue, Dublin 9, D09 K160

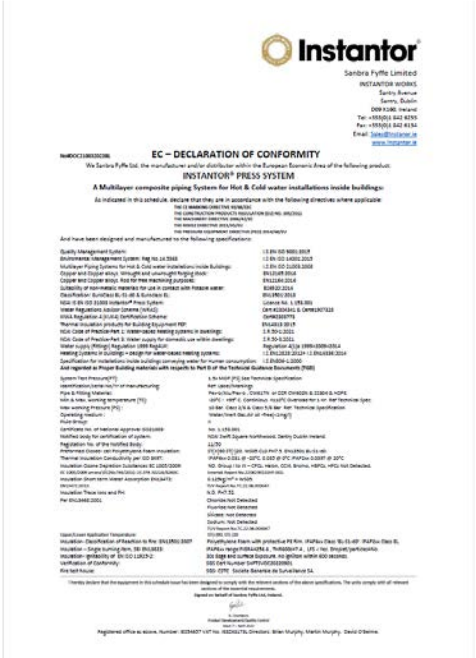
Distributed by: Sanbra Fyffe Ltd, Instantor Works, Santry Avenue, Dublin 9, D09 K160

The NSAI, in exercise of the power conferred on it by subsection (1) of Section 21 of the National Standards Authority Act (No. 28 of 1996) hereby grants a licence to use the Irish Standard Mark on or in connection with the INSTANTOR® Press System, composed of INSTANTOR® PE-Xb / AL / PE-Xb multilayer pipe and INSTANTOR® TH profile press fittings, to indicate conformity to EN ISO 21003:2008 to the above mentioned company.

An Irish Standard Mark Licence authorises the licensee to use the Irish Standard Mark, in conjunction with the relevant Irish Standard number, on a product which is the subject of a licence.

And which conforms to the relevant Irish Standard specification. The licence is not assignable, and shall remain in force until revoked by, or surrendered by the licensee to the NSAI.

CERT-068: ISM NL A4 (6)


Instantor

Sanbra Fyffe Limited

EC – DECLARATION OF CONFORMITY

INSTANTOR® PRESS SYSTEM

A Multilayer composite piping System for Hot & Cold water installations inside buildings


CERTIFICATE

kiwa

Certificate number: 2303773 (2)

Issued 29/03/2023

Expires 27/03/2028

Kiwa Regulation 4 (KUKreg4) Certification

Evaluation Guideline – Kiwa UK – EG004 – Regulation 4(1)(a)

Model number(s) – see Appendix

Sanbra Fyffe Ltd.

Kiwa Watertec declares that legitimate confidence exists in the products specified in this certificate and supplied by the above organisation be relied upon to comply with the Kiwa Evaluation Guideline referred above.

Which verifies the requirements of:

Regulation 4(1)a of the Water Supply (Water Fittings) Regulations 1999 England & Wales: 2009 Northern Ireland and 2014 Byelaws Scotland.

This certificate has been issued in accordance with the Kiwa regulations for product certification.

Signed on behalf of Kiwa Watertec

David Jay, Business Unit Manager – Authorised Signatory

Kiwa Watertec

Certificate Issued to: Sanbra Fyffe Ltd, Instantor Works, Santry Ave, Dublin, D09 K160

Page 1 of 5


WRAS APPROVED PRODUCT

This certifies that

SANBRA FYFFE LTD.

has had the undermentioned product(s) examined, tested and certified as being of an appropriate quality and standard as required in the Water Supply (Water Fittings) Regulations and Scottish Water Byelaws, subject to scheme requirements being met when installed.

Model Numbers

TH INSTANTOR RANGE OF PRESS FITTINGS.

The product so mentioned will be valid until the end of:

April 2028

Certificate No.

2304341

Ian Hughes, WRAS Approvals Manager

Fittings

LBP Elbow M.I x PIPE
16mm-32mm
151/1147

LBP Elbow F.I x PIPE
16mm-32mm
151/1127

LBP Equal Tee
16mm-63mm
151/1147

LBP Reducing Tee
16mm-63mm
151/1129

LBP Wallplate Elbow
16mm-20mm
151/1135

LBP F.I Branch Tee
16mm-32mm
151/1126

LBP Stop End
16mm-32mm
151/1118

Nut & Insert Adaptor
16mm-26mm
151/0999

LBP Press Adaptor To Copper Fitting
16mm-20mm
151/0965

LBP Press Adaptor To Copper Press
16mm-26mm
151/0939

LBP Shower Bracket
16mm
151/0839

LBP Bent Tap Connector
16mm
151/1679

Isolating Valve
16mm
151/1596

Lever Ball Valve
16mm-32mm
151/1543

Brass Manifolds
16mm-32mm
151/1147

Brass Manifolds With Fixed Adaptors
16mm-32mm
151/1124

WRAS Approved Brass Manifold
16mm-32mm
151/1147

WRAS Approved Brass Manifold
16mm-32mm
151/1124

Brass Manifolds with ISO Valves
16mm-32mm
151/1147

Manifold Blank

151/1124

Features

Instantor®
Press System

FEATURES

- **FAIL-SAFE DESIGN -** Unpressed joints leak by design, providing instant visual alert
- **FAST ISSUE DETECTION** - Easily spot and press missed connections before handover
- **REDUCED CALLBACKS** - Helps eliminate hidden leaks and post-installation issues
- **TIME-SAVING SOLUTION -** Simple enhancement that adds major peace of mind
- **DURABLE BUILD -** Made from CW617N brass and 304 stainless steel for long-term reliability
- **COMPATIBLE SIZING -** Available in sizes up to 32mm to suit a range of installations

LBP

INSTALLATION INSTRUCTIONS

CUT

1. Cut the pipe squarely to desired length using an appropriate cutting tool.

CALIBRATE

2. 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.

PRESS

3. Connect the pipe and fittings and check pipe is fully inserted in the inspection windows. The white of the pipe must be visible through these holes.

DO NOT USE SEALING AGENTS SUCH AS PTFE TAPE OR JOINTING COMPOUND.

Use TH Profile Jaws to press.

TECHNICAL SUMMARY

- **Max Operating Pressure:** 10 bar
- **Max Operating Temperature:** 95°C
- **Max Peak Temperature** (at 1 hour) **:** 110°C
- **Application Class:** 2/6 bar, class 5/6 bar
- **Profile:** TH

Note: Fittings should be kept in original packaging to prevent O-ring lubrication drying out before use.

INSTANTOR® PEXB/AL/PEXB PIPE
Technical Specifications

UNIT OF MEASUREMENT		IPAP101 IPAP111	IPAP102 IPAP112	IPAP103 IPAP113	IPAP104 IPAP114	IPAP105 -	IPAP107 -	- IPAP115	- IPAP116	- IPAP117
Outer Diameter	mm	16	20	26	32	16	16	40	50	63
Inner Diameter	mm	12	16	20	26	12	12	32	41	51
Weight	kg/M	0.112	0.148	0.266	0.362	0.112	0.112	0.557	0.797	1.270
Thickness of Aluminium	mm	0.25	0.3	0.35	0.5	0.25	0.25	0.5	0.5	0.6
Total Thickness	mm	2	2	3	3	2	2	4	4.5	6
Coils Length	M	100	100	50	50	500	200	-	-	-
Straight Lengths	M	4	4	4	4	-	-	4	4	4
Volume of water	l/m	0.113	0.201	0.314	0.531	0.113	0.113	0.803	1.319	2.014
Internal roughness	µm	7								
Thermal conductivity at Delta T 40°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								
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(*)								
Max peak temperature	°C	110								
Minimum operating temperature(*)	°C	0								
Maximum operating pressure at 95°C	bar	6								
Maximum operating pressure at 20°C	bar	10								
Duration at 95°C and 6 bar		Time duration to be determined by service conditions								
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.

Application Class Table (ISO 21003-1)

Application Class	Design Temperature T_D °C	Time [b] at T_D Years	T_{max} °C	Time at T_{max} years	T_{mal} °C	Time at T_{mal} h	Typical field of application
1 [a]	60	49	80	1	95	100	Hot water supply (60°C)
2 [a]	70	49	80	1	95	100	Hot water supply (70°C)
4 [b]	20 + Cumulative 40 + Cumulative 60	2.5 20 25	70	2.5	100	100	Underfloor heating and low-temperature radiators
5 [b]	20 + Cumulative 60 + Cumulative 80	14 25 10	90	1	100	100	High-temperature radiators

[a] A country may select either class 1 or class 2 in conformity with its nation regulations.

[b] Where more than one design temperature for time and associated temperature appears for any class, they should be aggregated. "Plus cumulative" in the table implies a temperature profile of the mentioned temperature over time (e.g. the deign temperature profile for 50 years for class 5 is 20°C for 14 years followed by 60°C for 25 years, 80°C for 10 years, 90°C for 1 year and 100°C for 100h).

NOTE: For values of T_D, T_{max} and T_{mal} in excess of those in the table, this International Standard does not apply.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.

Specifications

INSTANTOR® PEXB/AL/PEXB PIPE
Technical Specifications

UNIT OF MEASUREMENT		IPAP101 IPAP111	IPAP102 IPAP112	IPAP103 IPAP113	IPAP104 IPAP114	IPAP105 -	IPAP107 -	- IPAP115	- IPAP116	- IPAP117
Outer Diameter	mm	16	20	26	32	16	16	40	50	63
Inner Diameter	mm	12	16	20	26	12	12	32	41	51
Weight	kg/M	0.112	0.148	0.266	0.362	0.112	0.112	0.557	0.797	1.270
Thickness of Aluminium	mm	0.25	0.3	0.35	0.5	0.25	0.25	0.5	0.5	0.6
Total Thickness	mm	2	2	3	3	2	2	4	4.5	6
Coils Length	M	100	100	50	50	500	200	-	-	-
Straight Lengths	M	4	4	4	4	-	-	4	4	4
Volume of water	l/m	0.113	0.201	0.314	0.531	0.113	0.113	0.803	1.319	2.014
Internal roughness	µm	7								
Thermal conductivity at Delta T 40°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								
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(*)								
Max peak temperature	°C	110								
Minimum operating temperature(*)	°C	0								
Maximum operating pressure at 95°C	bar	6								
Maximum operating pressure at 20°C	bar	10								
Duration at 95°C and 6 bar		Time duration to be determined by service conditions								
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.

Application Class Table (ISO 21003-1)

Application Class	Design Temperature T_D °C	Time [b] at T_D Years	T_{max} °C	Time at T_{max} years	T_{mal} °C	Time at T_{mal} h	Typical field of application
1 [a]	60	49	80	1	95	100	Hot water supply (60°C)
2 [a]	70	49	80	1	95	100	Hot water supply (70°C)
4 [b]	20 + Cumulative 40 + Cumulative 60	2.5 20 25	70	2.5	100	100	Underfloor heating and low-temperature radiators
5 [b]	20 + Cumulative 60 + Cumulative 80	14 25 10	90	1	100	100	High-temperature radiators

[a] A country may select either class 1 or class 2 in conformity with its nation regulations.

[b] Where more than one design temperature for time and associated temperature appears for any class, they should be aggregated. "Plus cumulative" in the table implies a temperature profile of the mentioned temperature over time (e.g. the deign temperature profile for 50 years for class 5 is 20°C for 14 years followed by 60°C for 25 years, 80°C for 10 years, 90°C for 1 year and 100°C for 100h).

NOTE: For values of T_D, T_{max} and T_{mal} in excess of those in the table, this International Standard does not apply.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.

Pex-Al-Pex Pipe

Instantor®

Pex-Al-Pex Pipe

Product Overview

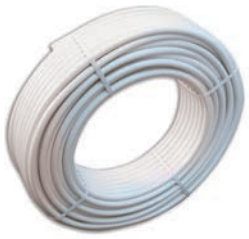
INSTANTOR® Pex-Al-Pex (PE-xB/Al/PE-xB) is a multilayer pipe NSAI Certified to EN ISO 21003 and WRAS approved, combining all the advantages of metal and plastic pipe.

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 and heating applications.

INSTANTOR® PEXB/AL/PEXB Pipe Lengths

CODE	VIP CODE	SIZE
IPAP111	151/1103/016/4	16mm x 4M
IPAP112	151/1103/020/4	20mm x 4M
IPAP113	151/1103/026/4	26mm x 4M
IPAP114	151/1103/032/4	32mm x 4M
IPAP115	151/1103/040/4	40mm x 4M
IPAP116	151/1103/050/4	50mm x 4M
IPAP117	151/1103/063/4	63mm x 4M



INSTANTOR® PEXB/AL/PEXB Pipe Coils

CODE	VIP CODE	SIZE
IPAP101	151/1551/100	16mm x 100M
IPAP102	151/1561/100	20mm x 100M
IPAP103	151/1581/100	26mm x 50M
IPAP104	151/1591/100	32mm x 50M
IPAP105	151/1551/500	16mm x 500M
IPAP107	151/1551/200	16mm x 200M

Instantor Tools

Instantor®
Tools

INSTANTOR
TOOLS

2 YEAR WARRANTY

The **Instantor Press Too**l has been developed for the professional installer and is user-friendly, durable and exceptionally reliable.

Stand out features include a lightweight design that makes the tool easy to hold and use, a rotating head for improved installation flexibility and an LED light to enhance visibility in poorly lit areas.

There are two tools in the range, the first of which will suit fittings up to and including 32mm or 1" and the second can be used with fittings up to 63mm.

We also offer a range of jaws to suit different profile fittings, TH for Instantor Press Fittings, VI for Instantor Imperial Copper Press Fittings and M for Instantor Metric Copper Press Fittings & Instantor Stainless Steel Press Fittings.

Warranty extended to 3 years if the device is registered at instantor.ie.
For further infomation on warranty and calibration please visit instantor.ie.

35% FASTER INSTALLATIONS

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VALUE IS PARAMOUNT

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