

Ø 16–25 mm



SYSTEM **KAN-therm**

Press Gas

Fast, safe, reliable



TECHNOLOGY OF SUCCESS



ISO 9001

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SYSTEM KAN-therm Press GAS

The new System KAN-therm Press GAS is designed for interior gas installations with a multi-layer pipe PE-RT/Al/PE-RT and brass fittings with the diameter range 16-25mm.

1

The most modern system for interior gas installations.

High corrosion and chemical resistance.

6

2

Full safety of installation and operation.

Versatile assembly thanks to the possibility of utilizing U and TH profile crimping jaws.

7

3

Fast and reliable assembly thanks to Press technology.

System certified and fully compliant with applicable standards.

8

4

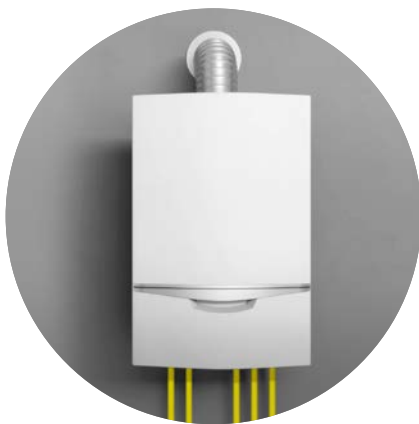
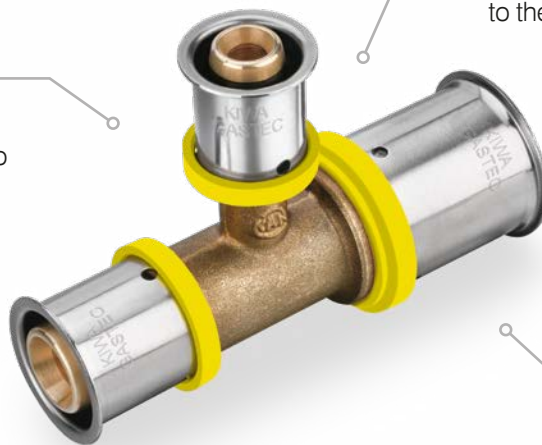
Full technical and design support.

5

KIWA Gastec certificate.

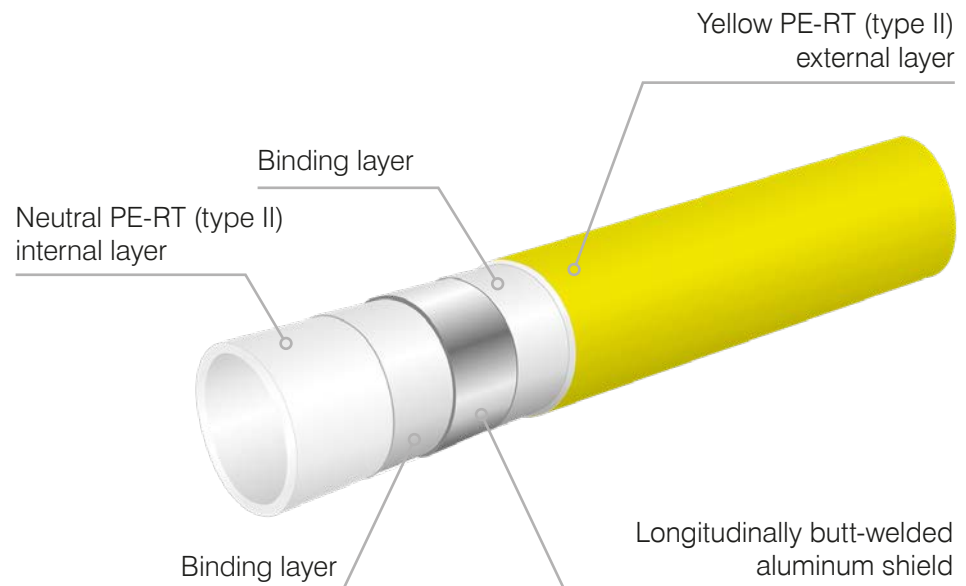
Ease of pipe laying thanks to a multilayer PE-RT/Al/PE-RT construction.

9



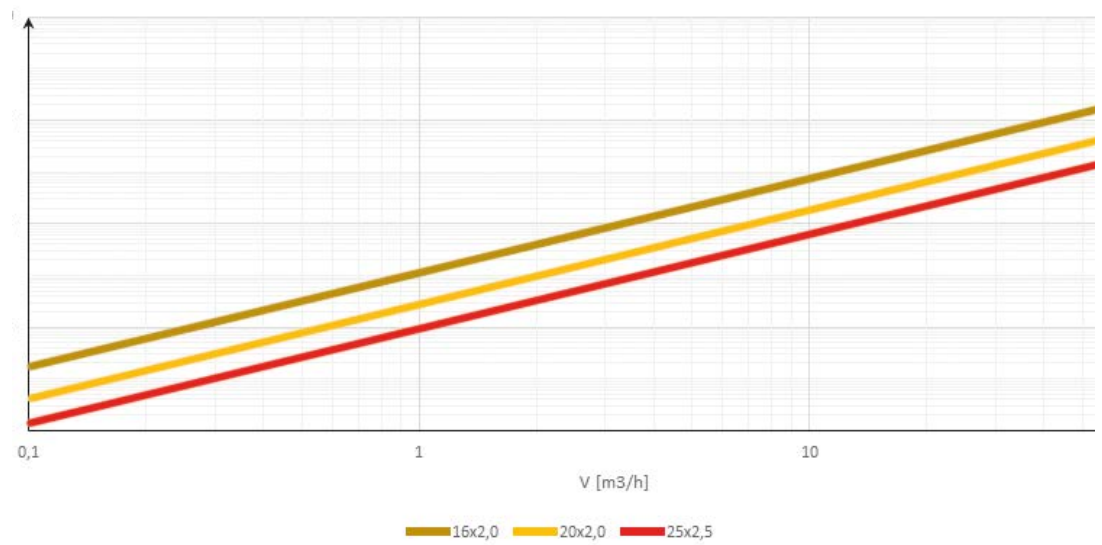
KAN-therm Press Gas is an installation system consisting of polyethylene multilayer pipes and brass fittings connected together by means of radial pressing. System is intended for indoor natural gas (category D) and liquid gas (category E) fuel systems. All fittings are equipped with HNBR (Hydrogenated Nitrile Butadiene Rubber) O-ring seals providing pressure tight and gas resistant connections.

System KAN-therm Press Gas utilizes multilayer PE-RT/Al/PE-RT pipes with longitudinally welded aluminum layer:



Diameter [mm]	D _E	s	D _I	Unit weight [kg]	Unit capacity [dm ³ /m]	P [bar]	MO P	T [°C]
16×2,0	16,0	2,0	12,0	0,129	0,113			
20×2,0	20,0	2,0	16,0	0,152	0,201	≤ 3,0	5,0	-20 ÷ 60
25×2,5	25,0	2,5	20,0	0,239	0,314			

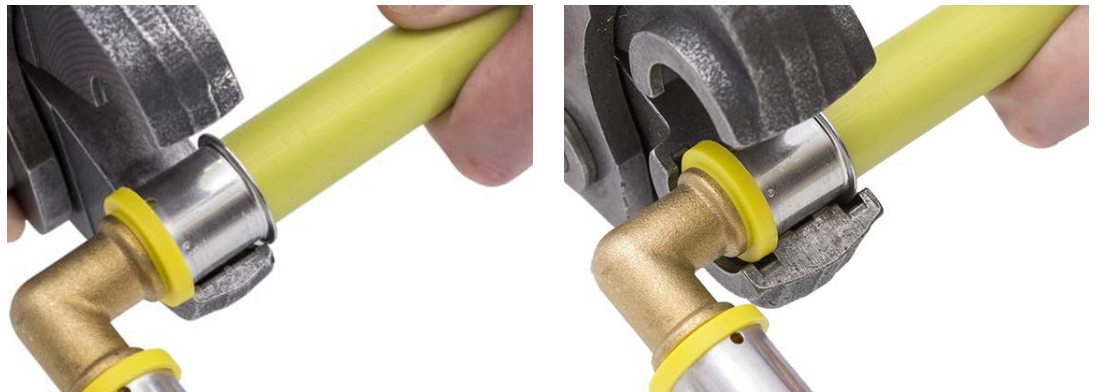
Linear pressure loss for natural gas (at 20 °C and 1013 hPa)



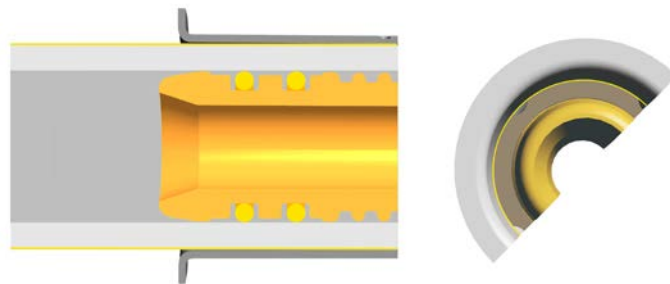
System KAN-therm Press Gas fittings are equipped with LBP (Leak Before Press) functionality. Thanks to this, all un-tight connections may be easily localized while performing system pressure test.



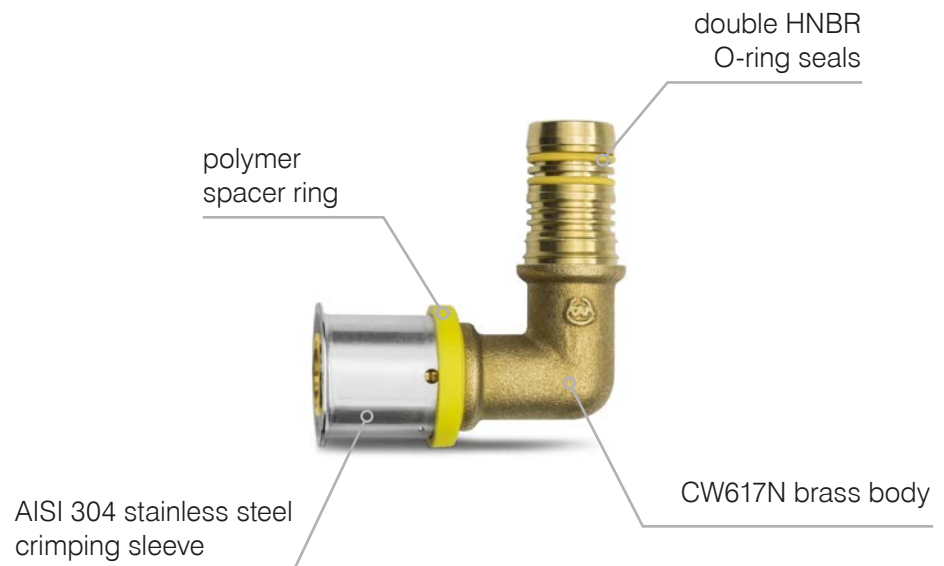
Additionally, all fittings are equipped with double O-ring seal and thus may be pressed with “U” or “TH” crimping profile. Fittings are constructed in such manner, that each crimping profile has only one correct position.



Thanks to cone – shaped fitting nozzle, calibration and chamfering of pipe edges is no longer necessity (although we still recommend calibration, especially in 25 mm diameter, to make assembly process easier).



Pipe diameter [mm]	LBP functionality	Crimping profile	Pipe preparation	
			Calibration	Chamfering
16×2,0	Yes	U or TH	not needed	not needed
20×2,0			not needed	not needed
25×2,5			recommended	not needed



Assembly



- 1 Cut required length of a pipe perpendicular to its axis using pipe scissors or a roll cutter.
 - 2 Shape the pipe. Bend by hand or utilizing the external or internal spring. Observe the minimal bending radius: $R > 5 D_E$ for hand bending or $R > 3,5 D_E$ while utilizing bending springs.
- ! **CAUTION** For cutting use only sharp blades.



- 3 Pipe calibration is not a necessity however greatly improves insertion of pipe into the fitting.



- 4 Insert the pipe into a fitting - push the pipe longitudinally along the coupling axis. Check the insertion depth - pipe must be visible in inspection holes in the steel ring.
- 5 For "U" profile apply the press jaws exactly on the steel sleeve between the plastic spacer ring and the steel ring collar perpendicular to its axis. In case of the "TH" profile place the jaws on the plastic spacer ring (the ring must be embraced by the jaws groove). In both cases due to the fitting design the clamping tool jaws will not shift during pressing.



- 6 Start the press drive and make the connection. The process of pressing lasts till jaw is fully closed. The sleeve can be pressed only once.
- 7 After pressing unlock the jaws and take off the tool from a clamped ring. The connection is now ready for the pressure test.

All connections should be normally performed at temperatures above 0 °C. In case of lower ambient temperature, calibrating and chamfering of pipe edge is necessary. Additionally please check tools manufacturer guidelines regarding their minimal temperature operation.

Execution of Press joints

Tools

Use only original KAN-therm tools to execute all joints in the KAN-therm Press System or other tools recommended by KAN – see table below.

Size	Manufacturer	Press type	Jaws/tongs	Fork profile
16-25 mm	Novopress	Comfort – Line ACO 102 Basic – Line AFP 101	mini jaws 16-25 mm	
16-25 mm	Novopress	Comfort – Line ECO 202 Comfort – Line ACO 202 Basic – Line EFP 202 Basic – Line AFP 202 Basic – Line EFP 2	jaws 16-25 mm	Ø 16-25 mm U, TH profile
16-20 mm	Klauke	MP20	inserts 16 – 20 mm	
16-25 mm	Klauke	i-press mini MAP2L mini MAP1 AHP700LS PKMAP2 HPU32 MP32	mini jaws 16-25 mm jaws for mini inserts 16-25 mm	
			16-25 mm inserts	Ø 16-25 mm – U profile Ø 16-25 mm – TH profile
16-25 mm	Klauke	i-press medium UAP3L UAP2 UNP2 i-press medium UAP4L HPU2 AHP700LS PKUAP3 PKUAP4	16-25 mm jaws 16-25 mm jaws for inserts	
16-25 mm	REMS	Eco – Press	16-25 mm jaws	
16-25 mm	REMS	Mini – Press ACC	mini tongs 14 – 40 mm	Ø 16-25 mm U, TH profile
16-25 mm	REMS	Power – Press E Power – Press 2000 Power – Press ACC Akku – Press Akku – Press ACC	16-25 mm tongs	

Tools offered by the KAN-therm System are available as single elements or in complete sets.

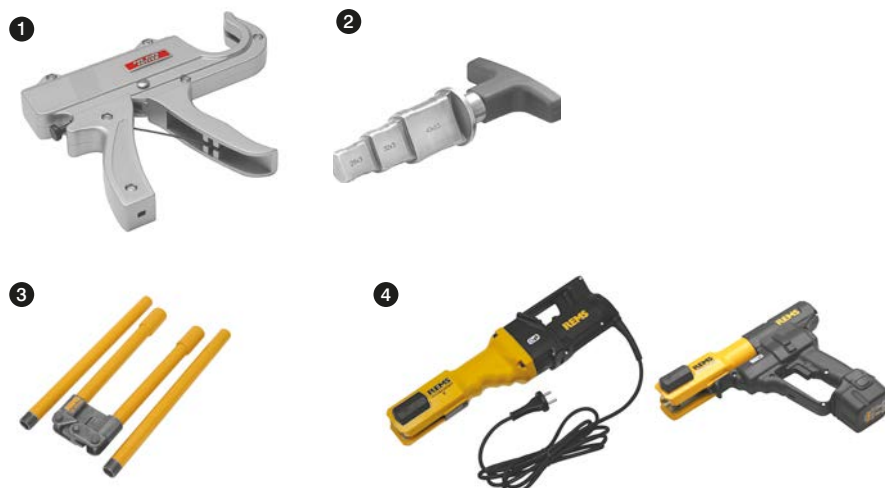
Each set includes:

1. pipe cutter for multilayer pipes.

2. universal calibrator (for diameters 16, 20 and 25 mm)

3. manual press tool
exchangeable jaws for diameters
16, 20, 25 mm

4. electric, grid or battery
powered press tools compatible
with exchangeable jaws 16, 20,
25 mm



5. set – manual press tool + jaws
6. set – battery-powered press tool + jaws



7. battery-powered press tool "Mini" for diameters 16 – 25 mm
8. press jaws



! Notice

For all of KAN-therm Press Gas fittings use exclusively U or TH crimping profile jaws. Utilizing other crimping profiles will cause faulty connections!



U profile



TH profile

! Tools – work safety

Before starting, make sure you read the instruction manual and learn the principles of safe work. All tools must be used according to their dedication and the manufacturer's instruction manual. During the use of tools, one must observe the terms of regular inspections and all applicable safety regulations. Using tools against their designed use may lead to their damage or to the damage of pipes and fittings. It may also lead to the occurrence of leakages in installation joints.

Assortment

Multilayer pipe for gas application

GROUP: B

Size	*	Code	Packing	UM	
16×2		1029196231	100	m	
20×2		1029196232	100	m	
25×2,5		1029196233	50	m	



Multilayer pipe in corrugated conduit for gas application

GROUP: B

Size	*	Code	Packing	UM	
16×2		1029196234	200	m	
20×2		1029196235	100	m	
25×2,5		1029196236	50	m	



Corrugated conduit for gas application

GROUP: B

Size	*	Code	Packing	UM	
16×2		1700049051	50	m	
20×2		1700049052	50	m	
25×2,5		1700049053	50	m	



straight coupling Press Gas

GROUP: F

Size	*	Code	Packing	UM	
16×2 / 16×2		1009042187	10/150	pc	
20×2 / 20×2		1009042188	10/120	pc	
25×2,5 / 25×2,5		1009042189	5/70	pc	



reducer Press Gas

GROUP: F

Size	*	Code	Packing	UM	
20×2 / 16×2		1009042190	10/120	pc	
25×2,5 / 16×2		1009042191	5/70	pc	
25×2,5 / 20×2		1009042192	5/70	pc	



straight male connector Press Gas

GROUP: F

Size	*	Code	Packing	UM	
16×2×½"		1009045092	10/150	pc	
20×2×½"		1009045093	10/120	pc	
20×2×¾"		1009042196	10/120	pc	
25×2,5×¾"		1009045094	5/50	pc	
25×2,5×1"		1009045095	5/50	pc	



* on request (delivery time up to 4 weeks)

** availability by individual arrangements

*** till stock ends

straight female connector Press Gas

GROUP: F

Size	*	Code	Packing	UM	
16×2×½"		1009044064	10/120	pc	
20×2×½"		1009042197	10/120	pc	
20×2×¾"		1009044065	10/80	pc	
25×2,5×¾"		1009044066	5/50	pc	



angle female connector Press Gas

GROUP: F

Size	*	Code	Packing	UM	
16×2 / ½"		1009069045	10/120	pc	
20×2 / ¾"		1009069046	5/60	pc	
25×2,5 / ¾"		1009068095	5/30	pc	



tee piece with female thread branch Press Gas

GROUP: F

Size	*	Code	Packing	UM	
16×2 / ½" / 16×2		1009258052	5/60	pc	
20×2 / ½" / 20×2		1009258053	5/50	pc	
25×2,5 / ½" / 25×2,5		1009258054	2/30	pc	



elbow 90° Press Gas

GROUP: F

Size	*	Code	Packing	UM	
16×2 / 16×2		1009068096	10/120	pc	
20×2 / 20×2		1009068097	10/80	pc	
25×2,5 / 25×2,5		1009068098	5/40	pc	



equal tee Press Gas

GROUP: F.

Size	*	Code	Packing	UM	
16×2 / 16×2 / 16×2		1009257291	10/80	pc	
20×2 / 20×2 / 20×2		1009257292	5/50	pc	
25×2,5 / 25×2,5 / 25×2,5		1009257293	2/30	pc	



reduced tee Press Gas

GROUP: F

Size	*	Code	Packing	UM	
20×2 / 16×2 / 16×2		1009257294	5/60	pc	
20×2 / 16×2 / 20×2		1009260224	5/50	pc	
20×2 / 20×2 / 16×2		1009257295	5/50	pc	
25×2,5 / 16×2 / 25×2,5		1009260225	2/30	pc	
25×2,5 / 20×2 / 20×2		1009260226	2/30	pc	
25×2,5 / 20×2 / 25×2,5		1009260227	2/30	pc	



directly fixed wallplate elbow Press Gas

GROUP: F

Size	*	Code	Packing	UM	
16×2 / ½"		1009285110	5/50	pc	
20×2 / ½"		1009285111	5/50	pc	



Caution:

Element is sold without plug.
Sealing compounds like adhesives which are chemical aggressive should not be used.

stop end Press Gas

GROUP: F

Size	*	Code	Packing	UM	
16×2		1009250039	10/200	pc	
20×2		1009250040	10/140	pc	
25×2,5		1009250041	5/100	pc	



compression connector Press Gas

GROUP: F

Size	*	Code	Packing	UM	
16×2 / 15		1009042193	10/150	pc	
20×2 / 22		1009042194	10/80	pc	
25×2,5 / 22		1009042195	5/50	pc	

Caution:

The fitting can be used with to connect copper pipes with Press Gas system.



Tools

manual press tool

GROUP: K

	Code	*	Packing	UM	
	1936267174		1	pc	

Caution:

Used for pipe connections Ø16, Ø20, Ø25 mm.



press jaw

GROUP: K

Size	Code	*	Packing	UM	
16	1936267122		1	pc	
20	1936267125		1	pc	
25	1936267127		1	pc	

Caution:

Ø16, Ø20, Ø25 - "U" profile



pipe cutter for multilayer pipes Ø14-32

GROUP: K

	Code	*	Packing	UM	
	1936267054		1/20	pc	



replacement blade for pipe cutter for multilayer pipes Ø14-32

GROUP: K

	Code	*	Packing	UM	
	1936267059	*	1	pc	



calibration and internal bevelling universal tool for multilayer pipes

GROUP: K

Size	Code	*	Packing	UM	
16 / 20 / 25-26	1936267044		1	pc	



manual press tools - case set

GROUP: K

	Code	*	Packing	UM	
	1938267158		1	set	

Caution:

Press tool is sold with a case.

It consists of the following items:

- 1936267174 manual press tool
- 1936267122 U16 jaws for the press tool
- 1936267125 U20 jaws for the press tool
- 1936267127 U25 jaws for the press tool
- 1936267054 cutter for multilayer pipe cutting
- 1936267044 calibrator for multilayer pipes Ø16/Ø20/Ø25-26
- 1941267135 case for manual press tool



manual press tools – light case set

GROUP: K

	Code	*	Packing	UM	
	1936267218		1	set	

Caution:

Press tool is sold with a case (1941 267135).

It consists of the following items:

- 1936267174 manual press tool
- 1936267122 U16 jaws for the press tool
- 1936267125 U20 jaws for the press tool
- 1936267026 calibrator for multilayer pipes Ø16
- 1936267028 calibrator for multilayer pipes Ø20

The set is used for diameters of 16-20 mm.



case for additional tools

GROUP: K

	Code	*	Packing	UM	
	1941267129		1	pc	



case for manual press tool

GROUP: K

	Code	*	Packing	UM	
	1941267135		1	pc	



Power Press ACC press tool with automatic clutch

GROUP: K

	Code	*	Packing	UM	
	1936267219		1	set	



Press tool is sold with a case. The set doesn't include jaws and other tools.



Power Press SE electric press tool

GROUP: K

	Code	*	Packing	UM	
	1936267160		1	set	

Caution:

Press tool is sold with a case.

The set doesn't include jaws and other tools.



Aku Press battery-powered press tool

GROUP: K

Size	Code	*	Packing	UM
	1936267152		1	set

Caution:

Press tool is sold with battery, battery charger and case.
The set doesn't include jaws and other tools.



ACO102 press tool with "U" type jaws

GROUP: K

Size	Code	*	Packing	UM
16-32 U	1936055000		1	set

It consists of the following items:

- 1948267161 Battery-powered ACO102 press tool - 1 pc
- 1936267113 U16 jaws for the press tool - 1 pc
- 1936267114 U20 jaws for the press tool - 1 pc
- 1936267115 U25 jaws for the press tool - 1 pc
- 1936267116 U32 jaws for the press tool - 1 pc
- 1938267047 Battery charger - 1 pc
- 1938267002 Battery 1.5 Ah - 2 pcs
- Case



ACO102 press tool with "TH" type jaws

GROUP: K

Size	Code	*	Packing	UM
16-32 TH	1936055001	*	1	set

It consists of the following items:

- 1948267161 Battery-powered ACO102 press tool - 1 pc
- 1936267108 TH16 jaws for the press tool - 1 pc
- 1936267109 TH20 jaws for the press tool - 1 pc
- 1936267110 TH25 jaws for the press tool - 1 pc
- 1936267111 TH32 jaws for the press tool - 1 pc
- 1938267047 Battery charger - 1 pc
- 1938267002 Battery 1,5 Ah - 2 pcs
- Case



external bending spring for multilayer pipes

GROUP: K

Size	Code	*	Packing	UM
16	1936267081		1	pc
20	1936267086		1	pc
25-26	1936267088		1	pc



internal bending spring for multilayer pipes

GROUP: K

Size	Code	*	Packing	UM
16	1936267075		1	pc
20	1936267077		1	pc
25-26	1936267071		1	pc



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SYSTEM **KAN-therm**

Optimal, complete multipurpose installation system consisting of state of the art, mutually complementary technical solutions for pipe water distribution installations, heating installations, as well as technological and fire extinguishing installations.

It is the materialization of a vision of a universal system, the fruit of extensive experience, the passion of KAN's constructors, strict quality control of our materials and final products, and vast knowledge of the market of installations to meet the requirements of energy efficient, sustainable construction.

Push Platinum



Push



Press LBP/Press Gas



PP



Steel



Inox



Sprinkler



Underfloor heating
and automation



Football
Stadium installations



Cabinets and manifolds



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