Safety for years to come

SYSTEM **KAN-therm**

Sprinkler Catalogue

Technical information
Product range

EN 2016

TECHNOLOGY OF SUCCESS

ISO **9001**






About KAN

Innovative water and heating installations

KAN is a recognised in Europe Polish manufacturer of the KAN-therm system - the most modern system for indoor water, central heating, floor heating, extinguishing and technological installations.

We owe our current leading position to acting based on four strong pillars: uncompromised quality, innovative solutions, many years of experience and professionalism noticeable at all stages.

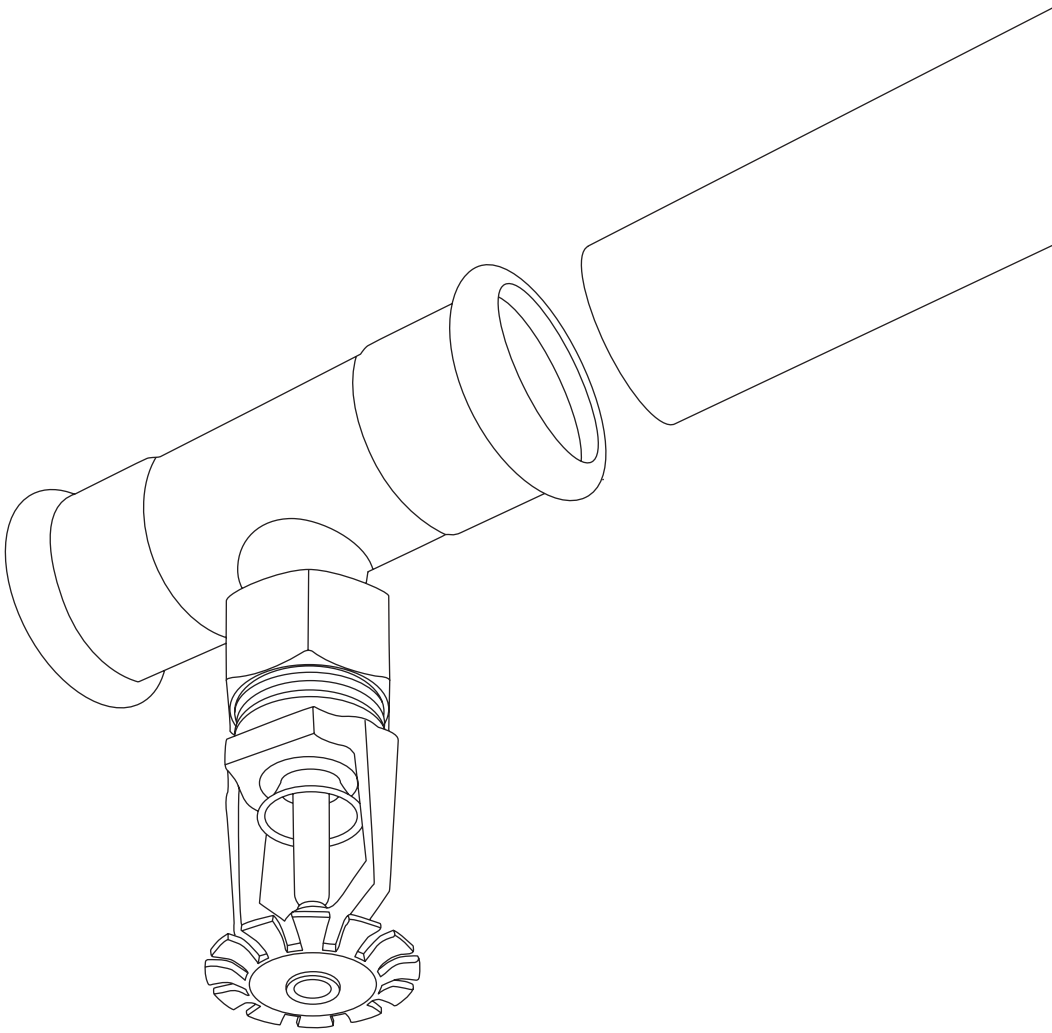
The continuous development of the KAN-therm System is a part of our philosophy - we make all effort to offer our users a product at the highest technical level, meeting all expectations related to it, providing comfort of use and perfect functioning of the installation and, thus, the feeling of complete safety. Bearing in mind health of the users, we provide highest quality products, produced and used without any conflict with the natural environment, friendly in relation to people and surrounding.

System KAN-therm features a perfect implementation of the vision of a universal system, backed by many years of experience and passion of KAN constructors as well as strict quality control of materials and the end products. Therefore, the KAN-therm system remains the unchallenged leader among the installation systems in Poland and is increasingly popular abroad. Products designated with the KAN-therm mark are exported to 23 countries of Europe, Asia and Africa.

KAN-therm SYSTEM - top quality product, awarded with the Gold Emblem of Quality International 2014 and 2013 as well as Teraz Polska (Poland Now) 2014.

In connection with the highest quality of products and application of modern solutions, the KAN company received an award in the prestigious Teraz Polska (Poland Now) contest as well as in the Quality International programme for years 2014 and 2013.

TECHNOLOGY OF SUCCESS



SYSTEM **KAN-therm**

Sprinkler

KAN-therm Sprinkler is a complete fire extinguishing installation system consisting of pipes and fittings made of zinc-plated carbon steel (Steel Sprinkler) or stainless steel (Inox Sprinkler) in 22–108 mm (Dn20 – DN100) diameter range.

Particular system elements are jointed using the state of the art, professional and, most of all, safe "Press" technique based on pressing fittings on the pipe using dedicated tools.

The KAN-therm Sprinkler System is designed for constructing indoor-use, fire-extinguishing sprinkler systems. Both material versions are verified and certified according to VdS guidelines for application in stationary sprinkler systems after emergency valves, within rooms characterized by low or medium fire hazard (LH, OH1, OH2, OH3, and to OH4 in respect to exhibition halls, cinemas, theaters and concert halls).

KAN-therm Sprinkler Systems are ideal for constructing new and replacing old, traditional fire-extinguishing sprinkler installations.

CONTENTS

Introduction

As fire safety in newly created and renovated objects, as well as the pursue to minimize installation construction time become a big concern, innovative systems like KAN-therm Sprinkler appear as an obvious choice.

KAN-therm Sprinkler Features

There are many systems on the constructions market using conventional solutions, such as threading, welding and soldering. The advantages brought by applying „Press" coupling technique, as compared to the above mentioned, have been already appreciated long ago.
It is the aesthetics of systems constructed using KAN-therm Sprinkler that is frequently the main reason for which architects and designers choose our products for constructing fire extinguishing mechanisms.

All elements of the system are manufactured in a modern plant, which allows us to guarantee unshaken quality and availability of our products. Use of the advanced technology of laser welding in the production process assures an absolute control of all elements. Fully automated tightness testing is an integral part of the laser welding process. All straight couplings with screwed ending are produced from one element, thanks to which the couplings' dimensions are limited to the minimum, just like the risk of occurence of leaks. Thanks to an extraordinarily smooth surface of pipes and fittings, the obtained flow characteristics allow for a significantly increased efficiency, as compared to conventional solutions. The high quality of KAN-therm Sprinkler System has been confirmed by national and international certifying bodies.

Reliability

In KAN-therm System sprinkler systems, the quality of joint mainly depends on the tool used. This minimizes risk of human-caused assembly faults. To limit the risk of occurence of human-caused assembly faults, all KAN-therm Sprinkler System fittings feature LBP (Leak Before Press) function, detecting non-pressed joints. For fittings of dimensions up to DN50, inclusive, the LBP functionality is assured by specific structureof the sealing O-ring; for elements of dimensions up to DN50, the fitting's stub pipe has been ovalized. The LBP function allows for occurence of a distinct leakage from the pipe-fitting joint, if the joint has not been pressed. This makes it easy to quickly state which connections have not been pressed during installation, and perform the necessary repairs. After pressing the fitting on the pipe, tightness is guaranteed.

KAN-therm Sprinkler System advantages:

- quick and secure installation assembly, without the necessity of welding or screwing pipes (risk of working with open fire eliminated),
- wide range of pipe and fitting diameters - from 22 mm to 108 mm
- high aesthetics of the performed installations, without the necessity of painting
- small weight of pipes and fittings
- optimized fitting dimensions assure easier construction of the installation
- resistance to mechanical damage

The above features cause KAN-therm Sprinkler System to be easy and comfortable, not requiring specific skills.

KAN-therm Sprinkler System assembly takes place without use of open fire (as opposed to welding or soldering), or applying other heavy and potentially dangerous tools.

Thanks to the minimal requirements, KAN-therm Sprinkler System is a perfect solution for modernizations or renovations. Additionally, the small weight of KAN-therm Sprinkler pipes and fittings and their precision of making contribute to improvement of conditions and increase of work comfort.

Short KAN-therm Sprinkler System assembly time, as compared to conventional assembly systems, is a very important factor, decreasing costs related with investment execution.

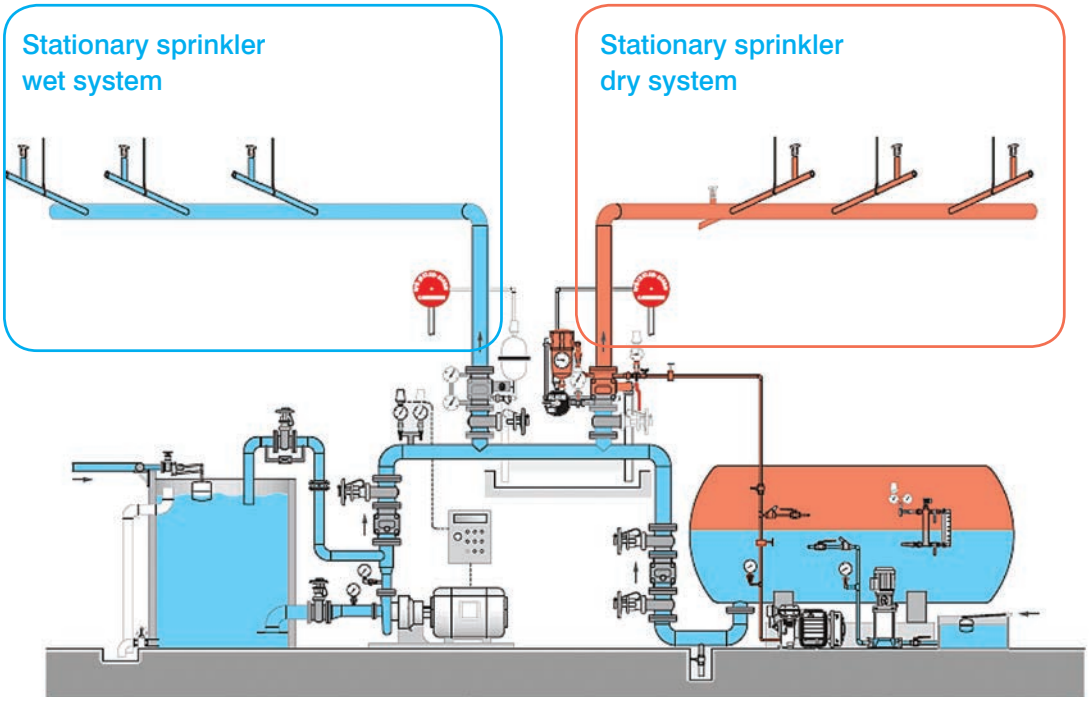
We are convinced that the presented advantages encourage you to try KAN-therm Sprinkler System when designing and constructing sprinkler systems.

KAN-therm Sprinkler System Application

Stationary sprinkler installations are built-in fire extinguishing and prevention systems that independently detect and report fire, and automatically initiate the extinguishing process.

KAN-therm Sprinkler System assembly in sprinkler systems should be performed according to the applicable guidelines (e.g. VdS-CEA 4001 or PN-EN 12845+A2:2010).

Depending on the applied material (stainless steel or galvanized steel),the system may be used with water (wet) or dry stationary sprinkler systems.KAN-therm Sprinkler System is designed for use with only wet sprinkler systems, whereas KAN-therm Inox Sprinkler System may be applied



with wet, as well as dry stationary sprinkler systems.

KAN-therm Steel Sprinkler and KAN-therm Inox Sprinkler Systems have been tested and certified according to the VdS guidelines for application in stationary sprinkler installations equipped with emergency valve.

The following guidelines refer to all products comprising KAN-therm Sprinkler System, operating at working pressure stated in the below table:

Operating pressure in KAN-therm Sprinkler System

DN	internal ø [mm]	VdS	
		wet [bar]	wet and dry (stainless steel) [bar]
20	22	16	16
25	28	16	16
32	35	16	16
40	42	16	16
50	54	16	16
65	76,1	12,5	16
80	88,9	10	12,5
100	108	10	10

Application is limited exclusively to KAN-therm Sprinkler System original elements. Connecting elements other than the original (not included in the KAN-therm Sprinkler System offer) is permissible only on the condition of using detachable metal connections..

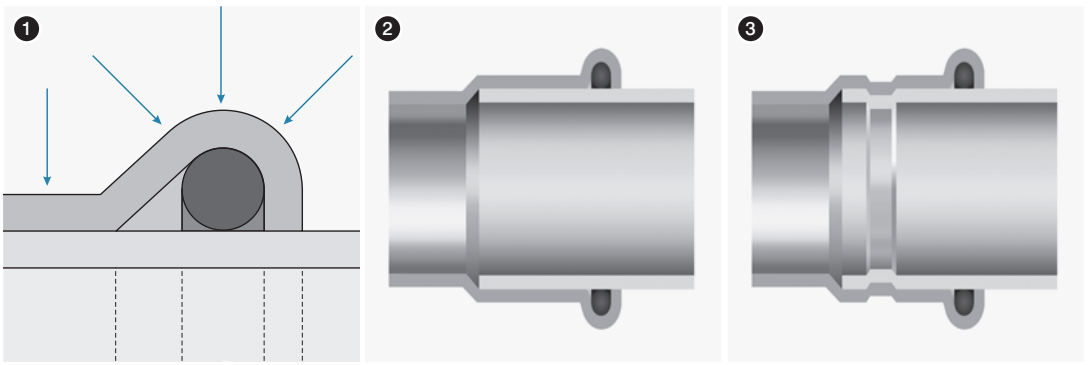
Assembly and installation of KAN-therm Sprinkler System may be performed only by qualified technical personnel, having formal qualifications for performing sprinkler system-related works. Requirements regarding assembly of stationary sprinkler installations are included in VdS-CEA 4001 or PN-EN 12845+A2:2010 guidelines. The company performing installation must assure conformity with the above guidelines.

"Press" coupling technique

The „Press" coupling technique consists in pressing fittings on the pipe, using specialist power tools.

Tightness of the connections is assured by special O-Ring seals made of EPDM rubber resistant to high temperatures, and „M" type clamping system (O-ring clamped in three spots). This guarantees long and reliable operation.

1. M" type clamp system
2. Joint before pressing
3. Joint after pressing

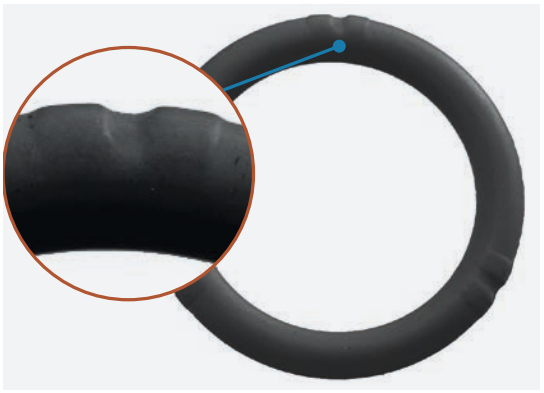


LBP O-ring seal

KAN-therm Sprinkler System pressed fittings are equipped with EPDM O-Rings of the following operating parameters:

Material	EPDM LBP (DN20 – DN50)	EPDM (DN65 – DN100)
Colour	black	black
Layer	without silicone, Teflon-based	without silicone, Teflon-based
Min./Max. temp.	-35°C to +135°C	-35°C to +135°C
Max. momentary operating press	150°C	150°C
Max. operating pressure	16 bar(depending on diameter - check application conditions for a given KAN-therm Sprinkler System)	16 bar(depending on diameter - check application conditions for a given KAN-therm Sprinkler System)
Application range	Wet and dry sprinkler systems	Wet and dry sprinkler systems

Thanks to special slots of the LBP O-ring body, optimum control of the system during pressure test is assured. The nonpressed joints are easy to locate, as they are not water tight. When pressing, the O-ring changes its shape, adhering entirely to pipe and fitting surface, assuring reliable and tight joint.



KAN-therm Sprinkler System also offers internal threaded elements that are used for connecting threaded elements from outside of the system (not comprising KAN-therm Sprinkler System), such as sprinklers, valves or other fixtures.

Internal and external threads are manufactured in compliance with DIN 2999/ISO 7/1 (taper thread). It is recommended to performthe threaded connection before pressing the fitting, not to stress the pressed joint. To tighten the joint, do not apply Teflon tapes or any other compounds containing chlorides.

KAN-therm System elastic hoses

KAN-therm System elastic hoses are covered by approval issued by VdS for stationary sprinkler systems. We offer two versions of hoses, equipped with straight or 90 degree-angled ending. The following dimensions are available: DN20 and DN25 of 800, 1000, 1500 mm lengths.

Elastic hoses designed for fitting in:

- ceiling systems with I-beams, covered with mineral cotton panels and metal cassettes (with fixation to main and auxiliary beams),
- ceiling systems with fixation profiles,
- ceiling systems of gypsum-cardboard panels,
- suspended standard sprinkler systems,
- enclosed sprinklers or sprinklers concealed in cavities.

Assembly of sprinkler lines using stiff pipe conduits in suspended ceilings may be very expensive and time consuming. Use of elastic hoses in sprinkler systems allows for easy and quick connection of sprinklers in any place in the area within the hose's length. Elastic hoses assure easy assembly of sprinklers in suspended ceilings, which saves time and costs.

The system comes with assembly holders, which allow for safe and reliable fixture of the sprinkler hose to the suspended ceiling.

The elastic hoes also feature pipe adapters, 100% compatible with KAN-therm Sprinkler. The pipe adapter assures easy connection of the elastic hose to installation performed in KAN-therm Sprinkler system, using Press fittings. In installations using twisted joints, in order to connect the elastic hose with pipe adapter, KAN-therm Sprinkler fitting must be used that has a thread (external/internal) on its one side, and a pressed ending on the other side. After screwing in the fitting,you only need to plug the hose to the pipe adapter and press the joint.

Features

- easy and quick assembly using standard KAN-therm Sprinkler, tools
- hose made of stainless steel
- allow for easy assembly in the vicinity of other installation and buildings' structural elements,
- no need for rotating the entire hose during assembly, thanks to using straight pipe ending,
- freedom of choice at selecting the system fixing the sprinklers along the ceiling plate
- no need for bending or lifting ceiling elements thanks to elastic structure of fixture between sprinkler hose and ceiling
- no need for disassembling and reassembling sprinkler systems during renovations or ceiling replacements. Hoses and holders (together with the installed sprinklers) may be disassembled and reassembled in a new place, without the need of emptying the entire installation (only within the hose length),
- easy vertical setting of the sprinkler thanks to a scale on the sprinkler's sleeve

Elastic hose technical specification

Sprinkler hose	Type RS 339L92, DN20/DN25, elastic braided structure, performed entirely of stainless steel, welded joints.
Sprinkler joint (straight)	Stainless steel, pipe thread complying with DIN EN 10226 (ISO 7/1), Rp ½ „(SW 27). Scale for easy vertical set-up Application for installation in limited spaces. Installation height only 170 mm above the lower edge of a suspended ceiling
Sprinkler joint (angular, 90°))	Stainless steel, pipe thread complying with DIN EN 10226 (ISO 7/1), Rp ½ „(SW 27). Scale for easy vertical set-up Application for installation in limited spaces Installation height only 170 mm above the lower edge of a suspended ceiling
Connection adapter	Stainless steel, straight ending, 22 or 28 mm diameter for connecting with KAN-therm Sprinkler System connectors
Nominal length	800, 1000, 1500 mm
Max. operating pressure	16 bar, 100% tightness control
Minimum bend radius	70 mm forØ22 hoses; 85 mm for Ø28 hoses

KAN-therm Sprinkler System Tools

Pressing of the KAN-therm Sprinkler fittings should be performed using pressing units and press jaws („M" profile) delivered by KAN-therm Sprinkler System.

Name	Permissible pressed diameters range	Power type
ECO 301	22–54 mm	220 – 240 V / 50 Hz, stationary feed
ACO 401	76-108 mm	18,0V / 3,0 Ah, battery feed

In case of pressing fittings of 35-54 mm diameter for ECO 301 pressing units, an additional ZB 303 adapter should be used, to fix the snap-on jaw.

Depending on the diameter, KAN-therm provides various configuration of tools. In order to select optimal set of tools, please follow chart:

Selection of tools table: System KAN-therm Sprinkler Steel & Inox

Producer	Type crimp tool		Diameter [mm]	Jaws/clamping chains		Adapter		KAN-therm System	
	Description	Code		Description	Code	Description	Code	Steel Sprinkler	Inox Sprinkler
NOVOPRESS	ECO301	620570.5	22	M22	620575.1	–	–	+	+
			28	M28	620576.0	–	–	+	+
			35	HP 35 Snap On	634106.0	ZB 303	634111.5	+	+
			42	HP 42 Snap On	634107.1			+	+
			54	HP 54 Snap On	634108.2			+	+
	ACO401	634008.1	76,1	HP 76,1	634009.2	–	–	+	+
			88,9	HP 88,9	634010.3	–	–	+	+
			108	HP 108	634011.4	–	–	+	+

Tools NOVOPRESS:

Novopress ECO 301

22-28 mm jaw

Press collar HP 35 Snap On

Press collar HP 42, HP 54 Snap On

Adapter ZB 303 35-54mm

ACO 401 machine

Press collar HP 76,1 – 108

KAN-therm Sprinkler System – joints installation

1 Cutting pipes

Pipes must be cut perpendicularly to the axis, using pipe cutter. It is acceptable to use other cutting tools such as manual or electrical saw for metal, if perpendicularity of cutting is maintained, and the edges are not damaged. It is not acceptable to break partially cut pipes. Do not use burners or cutting wheel for cutting.
While measuring the cutting length, depth of fitting must be considered.

❷ Bevelling

Bevelling should be performed using manual or electrical bevelling machine. Bevel the external and internal edge of the cut pipe, so that it does not damage the O-ring. Also, remove all contamination from within the pipe, which may increase the risk of corrosion.

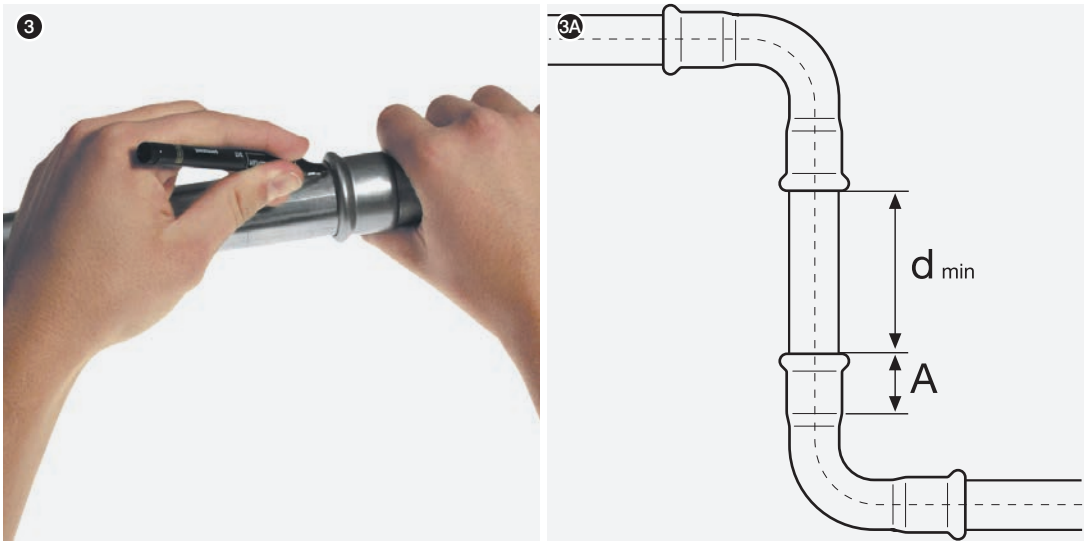


Fig. 3A – A - pipe insert depth, d_{min} - minimum installation distance between fittings

❸ Marking the insert depth

To achieve sufficient joint strength, maintain sufficient insert depth (table 1, fig. 1). The sufficient insert distance should be marked on the pipe (or the fitting) with a marker. After performing the pressing, the marking must still be visible just by the fitting's edge. Appropriate insert depth is crucial for resistance of joint for stretching,after pressing the O-ring,

Tab.1 Pipe insert depth and minimum installation spaces

DN	∅ ext..	Insert depth	Minimum distance between twopressed joints	Minimum pipe length
	[mm × mm]	A [mm]	d_{min} [mm]	d_{min}+2×A [mm]
20	22×1,2	21	10	52
25	28×1,2	23/46*	10	62
32	35×1,5	26/52*	10	80
40	42×1,5	30/60*	20	90
50	54×1,5	35/70*	20	90
65	76,1×2,0	55/54*	40	165
80	88,9×2,0	63/64*	50	186
100	108×2,0	77/74*	60	234

* applies to Groove type couplings

❹ Control

Before the installation, visually inspect the condition and presence of the appropriate O-Ring. Check whether there is no contamination (filings) on the pipe and in the fitting that may damage the sealing when inserting the pipe Also, check if the pipe ending is not deformed and the section is perfectly circular. Make sure that the distance between neighbouring fittings is not smaller than the permissible value (d_{min}).

❺ Installing pipe and fitting

Before pressing, insert the pipe into the coupling for a marked depth (small rotation is acceptable). Applying oils, greases or fats for facilitating the insertion process

is not allowed (water or soap solution is acceptable - recommended in case of compressed air pressure test)

Non-axial insertion of pipe is not allowed, as it exposes the sealing to damage. In case of simultaneously installing multiple joints (by inserting pipes into fittings), before pressing each joint, control the insertion depth

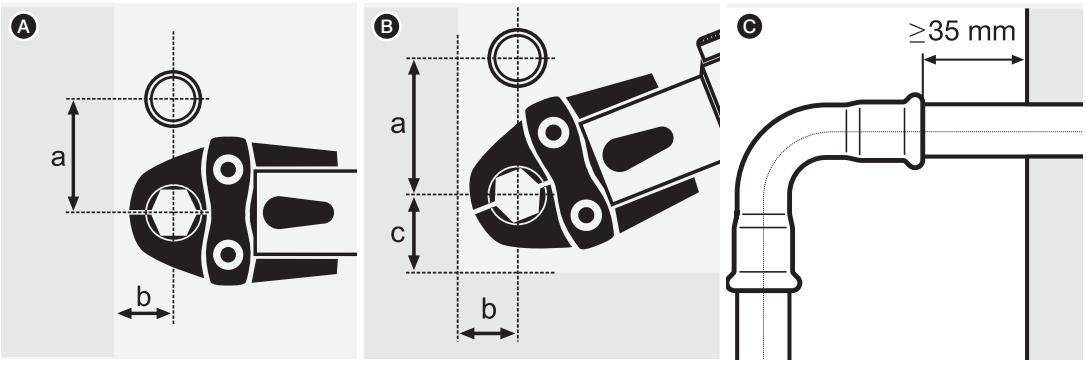
Installation distances

During the system installation, structure and dimensions of jaws should be considered, minimum installation distances between pipes and structural cavities, basing on values specified in the table and on images, should be maintained.

Tab. 2 Installation distances

DN	Ø ext..	Fig. A		Fig. B			Fig. C
		a	b	a	b	c	Pipe stand-off from wall distance [mm]
20	22×1,2	65	25	80	31	35	40
25	28×1,2	75	25	80	31	35	60
32*	35×1,5	115	75	115	75	75	70
40*	42×1,5	120	75	115	75	75	70
50*	54×1,5	200	85	120	85	85	70
65*	76,1×2,0	250	170	200	170	190	80
80*	88,9×2,0	250	170	250	170	210	90
100*	108×2,0	250	170	250	170	210	100

*applies to snap-on jaws



6 Pressing

Before pressing, prepare all tools and check for contamination. Press jaw size should always be adjusted to the diameter of the performed joint. Press jaw should be applied on the coupling in such way that its cavity precisely covers the convex section of the fitting (place of putting the O-ring on the fitting) After running the pressing unit, the pressing takes place automatically and may not be stopped. If, for any reason, the pressing is stopped, the joint must be disassembled (cut out) and a new one should be performed. Non-pressed joints, thanks to the special O-ring structure (LBP function) will be signalled already during filling the system with water. After locating the leak, just perform the pressing.

Pipe bending (for diameters up to Ø28)

If needed, „cold" bending may be performed, on the condition of maintaining minimum bend radius Rmin:

$$R_{min} \geq 3{,}5 \times D$$

For bending pipes, use manual, hydraulic or electrical bender The pipes should not be „hot" bent.

Twisted joints

KAN-therm Sprinkler system also includes external and internal thread elements, which serve the purpose of connecting other threaded elements of the system (such as sprinklers, valves or other). External and internal threads are manufactured according to DIN 2999/ISO 7/1 (taper thread) It is recommended to perform the screwed connection before pressing the fitting, not to stress the pressed joint.

General information regarding system installation

Fitting pipelines

While installing KAN-therm Sprinkler System, care must be taken not to overstress the pipelines network, while standby, as well as during an emergency. A/C channels or cable racks should not be placed above the sprinkler pipe.

In case if design or structural reasons make it impossible to avoid the sprinkler pipe crossing other system elements, such as

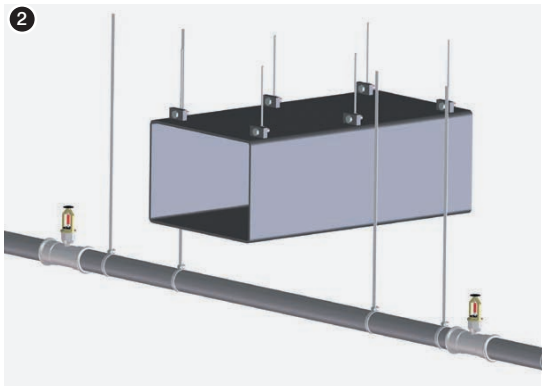
A/C channels or cable racks, the sprinkler system should be secured from overstressing, using

additional, certified fixture elements.

The required space between fixtures is provided in the table. Fixture distance from pipe ending must not exceed 90 cm.

1 Example of fixing the fixtures at a crossing with installations (cable rack).

2 Example of fixing the fixtures at a crossing with installations (duct).



DN	Pipe dimensions External ∅[mm]	Fixtures spacing [m]	
		DIN 1988–2	CEA 4001 (VdS)
20	22	2,00	2,00
25	28	2,25	2,00
32	35	2,75	2,00
40	42	3,00	2,00
50	54	3,50	2,00
65	76,1	4,25	2,00
80	88,9	4,75	2,00
100	108	5,00	2,00

KAN-therm Sprinkler pipe holder separation distances apply only, if there are no other installations (pipelines, channels) above the sprinkler system pipe.

There should be at least one holder within at least 0,9 m from each joint. Each pipe section should be held by at least one holder. The fixtures must be designed and constructed in conformity with PN-EN 12845+A2:2010.

Pipeline flushing

After performing the installation, the entire sprinkler system must be thoroughly flushed with drinkable water. The flushing is necessary for assuring proper operation of the sprinkler system and protecting it from contamination. After flushing, the installation should be emptied. After removing all materials required for flushing, sprinklers should be installed.

Filling and deaerating pipe networks

After flushing the pipelines, they must be filled with filtered drinkable water and completely deareated.

Tightness test

Pipelines of the sprinkler system must be pressure tested, in conformity with applicable guidelines, such as CEA 4001, no.17.1.1. (VdS). The test should last at least two hours at a pressure (measured at emergency valves) being a 1,5 multiple of admissible operating pressure, but not smaller than 15 bar. Pressure decrease, e.g. due to meteorological factors, must be monitored at 24h basis.

Dry sprinkler installations must be pneumatic tested for pressure not smaller than 2,5 bar for a

period of at least 24 hours. Each leak that causes a decrease of pressure greater than 0,15 bar for a period of at least 24 h, must be sealed. All detected defects, such as permanent deformations, breaks or leaks must be fixed and be tested again.

Transport and storage

When transporting and storing KAN-therm Sprinkler System pipes and pressed fittings, they should be kept away from damage or contamination hazards.

KAN-therm Sprinkler System elements should not be stored together with elements of other metal systems.

It is not allowed to store system elements directly on the ground (concrete or earth).

It is not allowed to store the elements in direct vicinity of chemical compounds.

Pipe bundles should be stored and transported on wooden or plastic pads (avoid direct contact with other steel elements, such as steel pipe racks).

To avoid ovalization of pipes, it is recommended to form piles not higher than 6 bundles. During transport, loading and unloading, avoid scratching or else mechanically damaging pipes and fittings - do not: throw, pull and bend.

Rooms for storing the elements must be dry (maximum permissible relative humidity must not exceed 65%). Recommended temperature for storage is within 10 to 25 dgr. C.

External pipe surfaces during storage, construction and operation must not be exposed to extensive and direct contact with humidity.

General hydraulic dimensioning guidelines for KAN-therm Sprinkler systems

Pressure losses

To calculate pressure loss in pipe network of sprinkler systems, Hazen-Williams formula should be applied.

$$p = \frac{6{,}05 \times 10^5}{C^{1{,}85} \times d^{4{,}87}} \times Q^{1{,}85} \times L$$

where:

p – linear pressure loss [bar]]
Q – flow intensity [l/min]
d – internal pipe diameter
C – pipe constant, for KAN-therm Steel and Inox Sprinkler systems C=140
L – substitute length for pipes and fittings [m]

The formula covers linear losses on the length of the calculated section of the pipelines, as well as local losses in form of equivalent (substitute) lengths for fittings and fixtures (values of substitute lengths for fittings are shown in table below).

Designing and hydraulic dimensioning principles for sprinkler systems is defined by PN-EN 12845+A2:2010 standard. Stationary fire extinguishing units. Automatic sprinkler systems. Design, assembly and maintenance.

									
∅22 – 54 mm									
Local resistance coefficients ζ									
ζ	**1,5**	**0,7**	**0,5**	**0,5**	**0,4**	**0,9**	**1,3**	**1,5**	**3,0**
Equivalent lengths of fittings [m]									
22	1,40	0,60	0,50	0,50	0,40	0,80	1,20	1,40	2,80
28	1,90	0,90	0,60	0,60	0,50	1,10	1,50	1,90	3,80
35	2,50	1,20	0,80	0,80	0,70	1,50	2,10	2,50	5,00
42	3,10	1,40	1,00	1,00	0,90	1,80	2,60	3,10	6,20
54	4,00	1,80	1,30	1,30	1,10	2,30	3,30	4,00	8,00
∅ 76,1- 108 mm local resistance coefficient ζ									
	1,3	**0,6**	**0,4**	**0,5**	**0,1**	**1,0**	**1,3**	**1,5**	**3,0**
Equivalent lengths of fittings [m]									
76,1	6,10	2,80	1,90	2,40	0,50	4,70	6,10	7,10	14,20
88,9	7,80	3,60	2,40	3,00	0,60	6,00	7,80	9,00	18,0
108	10,6	4,90	3,30	4,10	0,80	8,20	10,60	12,30	24,60

Length (mm)	Sprinkler joint type	Sprinkler connector	Outside ø (mm)	Pressure losses* (bar)	Equiv. pipe length*(m)
1000	straight	Rp ½"	Ø22	0,9	8
1500	straight	Rp ½"	Ø22	1,3	12
1000	straight	Rp ½"	Ø28	0,5	8
1500	straight	Rp ½"	Ø28	0,8	11
800	degree 90°	Rp ½"	Ø22	0,8	8
1000	degree 90°	Rp ½"	Ø22	0,9	8
1500	degree 90°	Rp ½"	Ø22	1,3	12
800	degree 90°	Rp ½"	Ø28	0,5	8
1000	degree 90°	Rp ½"	Ø28	0,5	8
1500	degree 90°	Rp ½"	Ø28	0,8	11

Tab 3. Pressure losses in elastic hoses and equivalent pipe lengths corresponding to VdS specifications

Safety for years to come

SYSTEM **KAN-therm**

Steel Sprinkler

Technical information.
Pricelist

TECHNOLOGY OF SUCCESS

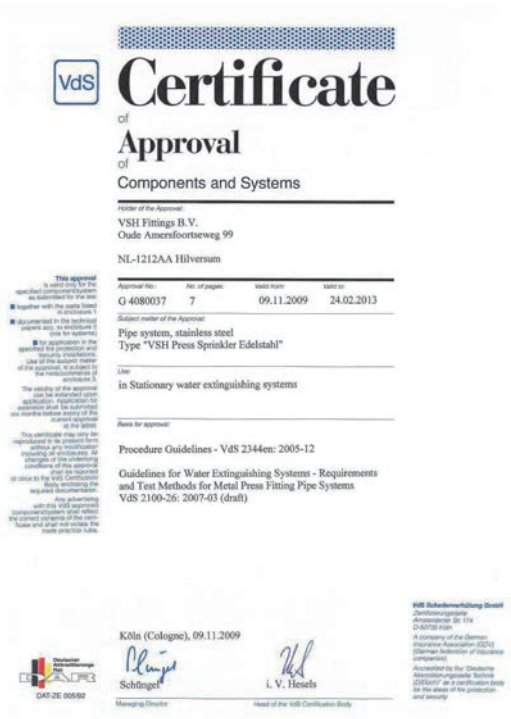
ISO **9001**

Application and operating conditions

KAN-therm Inox Sprinkler System is designed for constructing pipelines (distributing or splitting conduits) of stationary air or water sprinkler systems installed in small or medium fire hazard areas (LH, OH1, OH2, OH3 and up to OH 4 - in reference to exhibition rooms, theatres and concert halls) (according to VdS CEA 4001 guidelines)

Application in other fire extinguishing systems and dry sprinkler systems is prohibited.

The system's pipes and fittings are approved by the CNBOP (Fire Protection Science and Research Center) with AT-1106- 0227/2009 ID and VdS certificate.


VdS Certificate of Approval of Components and Systems

VSH Fittings B.V.
Oude Amersfoortseweg 99

NL-1212AA Hilversum

Approval No.:	No. of pages:	Valid from:	Valid to:
G 4080037	7	09.11.2009	24.02.2013

Subject matter of the Approval:
Pipe system, stainless steel
Type "VSH Press Sprinkler Edelstahl"

Use:
in Stationary water extinguishing systems

Basis for approval:
Procedure Guidelines - VdS 2344en: 2005-12

Guidelines for Water Extinguishing Systems - Requirements and Test Methods for Metal Press Fitting Pipe Systems VdS 2100-26: 2007-03 (draft)

Köln (Cologne), 09.11.2009

Schüngel — Managing Director

i. V. Hesels — Head of the VdS Certification Body

DAT-ZE 005/92

- for 22 - 54 diameters 16,0 bar
- for 76,1 diameter 12,5 bar
- for 88,9 and 108 diameter 10,0 bar.

The installation should be designed and constructed according to guidelines included in this document, as well as with applicable standards and regulations.

Designing, assembly and commissioning of the sprinkler system is defined by PN-EN 12845:2008 standard. Stationary fire extinguishing units. Automatic sprinkler units Design, assembly and maintenance

Maximum operating pressure of the pipes and fittings is:

System KAN-therm Steel Sprinkler – carbon steel pipes

KAN-therm Steel Sprinkler System pipes for water sprinkler installations are precise carbon steel no. 1.0031 (EN10305-3 compliant) pipes. They are made of cold rolled strip, galvanized using the Sendzimir method of coating the metal plate with zinc by immersing it in electrolytic zinc, after which the zinc is applied on both sides simultaneously. This means the pipe is protected by zinc layer on inside and outside. The zinc layer is never less than 20 μm thick. The Sendzimir galvanization is known for guaranteeing particularly good adherence and high resistance to corrosion.

Fire environment properties

KAN-therm Steel Sprinkler System carbon steel pipes may be classified as class A incombustible materials, according to DIn 4102, part 1.

Technical details of pipes

DN	Outside diameter x wall thickness	Inside diameter	Unit mass	Water capacity
	mm × mm	[mm]	[kg/m]	[kg/m]
20	22 × 1,5	19,0	0,761	0,284
25	28 × 1,5	25,0	0,980	0,491
32	35 × 1,5	32,0	1,241	0,804
40	42 × 1,5	39,0	1,542	1,195
50	54 × 1,5	51,0	1,999	2,043
65	76,1 × 2,0	72,1	3,503	4,083
80	88,9 × 2,0	84,9	4,412	5,661
100	108 × 2,0	104,0	5,382	8,495

KAN-therm Steel Sprinkler for sprinkler systems pipe dimensions

Material	ULC („Ultra Light Carbon") galvanized (Sendzimir method) material no. 1.0031 acc. to EN 10305-3
Outside diameter tolerance	acc. to EN10305-3
Thermal expansion coefficient	0,0108 mm/m at ΔT= 1KK
Minimum bend radius (for diameters up to Ø28 mm)	3,5 x pipe outside diameter (up to -10°C)
Delivery	6 m ± 50 mm lengths
Marking	name or manufacturer label, material identification outside diameter x wall thickness, approval no., manufacture date
Zinc layer	at least 20 μm. The pipe joints are extra galvanized.
Max. operating pressure	16 bar (22-54 mm); 12,5 bar (76,1 mm); 10 bar (88,9-108 mm)

System KAN-therm Steel Sprinkler – pressed carbon steel couplings

KAN-therm Steel Sprinkler System pressed couplings are made of material no. 1.0034 [34-2 steel] carbon steel. They are rust protected by the applied zinc layer (8-15 μm) The couplings are equipped with EPDM rubber sealing ring (O-ring)

The DN20 - 50 O-rings feature non-pressed joints detection function (Leak Before Press).

Coupling diameter range DN20 - DN100

System KAN-therm Steel Sprinkler – assortment

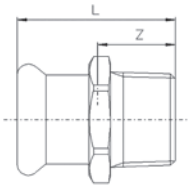
press carbon steel pipe, zinc coated

GROUP: J

Size	*	Code	Pcs.	Ilość m w op. zbiorczych	
22×1,5		**6241114S**	bar 6m	6/360	
28×1,5		**6241125S**	bar 6m	6/300	
35×1,5		**6241136S**	bar 6m	6/180	
42×1,5		**6241147S**	bar 6m	6/150	
54×1,5		**6241158S**	bar 6m	6/90	
76,1×2		**6241378S**	bar 6m	6/-	
88,9×2		**6241389S**	bar 6m	6/-	
108×2		**6241391S**	bar 6m	6/-	

press male connector

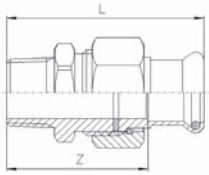
GROUP: I



Size	l	z	*	Code	Pcs. /packing	
22×R½	43	22		**6241015S**	6241015S	
22×R¾	44	23		**6240135S**	6240135S	
22×R1	50	29		**6241026S**	6241026S	
28×R¾	46	23		**6249852S**	6249852S	
28×R1	48	25		**6240146S**	6240146S	
35×R1	53	27		**6341247S**	6341247S	
35×R1¼	55	29		**6240157S**	6240157S	
42×R1½	59	29		**6240168S**	6240168S	
54×R2	69	34		**6240179S**	6240179S	
76,1×R2½	123	68	**	**6302823S**	6302823S	
88,9×R3	134	71	**	**6302825S**	6302825S	

press male union connector

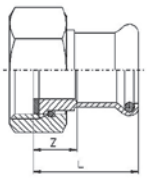
GROUP: I



Size	l	z	*	Code	Pcs. /packing	
22×R¾	70	49,0		**6240916S**	2/40	
28×R1	74,7	51,7		**6240927S**	2/30	
35×R1¼	81,8	55,8		**6240938S**	2/20	
42×R1½	88	58,0		**6240949S**	2/16	
54×R2	100	65,0		**6240951S**	2/10	

press half union

GROUP: I



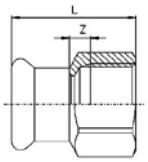
Size	l	z	*	Code	Pcs. /packing	
22×G1	32	11	**	**6340554S**	10/60	
28×G1¼	33	10	**	**6340565S**	10/40	
35×G1½	36	10	**	**6340576S**	4/32	
42×G1¾	43	13	**	**6340587S**	4/12	
54×G2 3/8	50	15	**	**6340598S**	4/8	

* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press female connector

GROUP: I

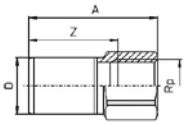
Size	l	z	*	Code	Pcs. /packing
22×Rp½	36,5	4,5		**6302708S**	10/100
22×Rp¾	43	5,7		**6240102S**	10/100
28×Rp½	38	2		**6240113S**	10/60
28×Rp¾	40,5	1		**6249830S**	10/60
28×Rp1	49	7		**6240124S**	10/60
35×Rp½	42	5,3	**	**6340917S**	10/40
35×Rp1¾	43	5,2	**	**6340928S**	10/40
35×Rp1	46	7	**	**6340939S**	10/40
35×Rp1¼	50	2,3		**6241004S**	10/30
42×Rp1½	54	2		**6302721S**	10/40
54×Rp2	63	2		**6302723S**	10/40



press nipple female connector

GROUP: I

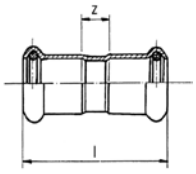
Size	A	Z	D	*	Code	Pcs. /packing
22×Rp½	50	35,0	22		**6240960S**	10/70
22×Rp¾	53	36,7	22		**6240971S**	10/100



press coupling

GROUP: I

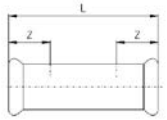
Size	l	z	*	Code	Pcs. /packing
22×22	55	13		**6240003S**	10/80
28×28	59	13		**6240014S**	10/60
35×35	65	13		**6240025S**	10/40
42×42	76	16		**6240036S**	4/24
54×54	86	16		**6240047S**	4/16
76,1×76,1	142	28		**6206200S**	2/-
88,9×88,9	160	34		**6206211S**	2/-
108×108	199	41		**6206222S**	2/-



press slip coupling

GROUP: I

Size	l	z	*	Code	Pcs. /packing
22×22	84	25		**6240058S**	10/60
28×28	91	30		**6240069S**	10/40
35×35	102	30		**6240071S**	10/20
42×42	120	40		**6240080S**	4/16
54×54	140	40		**6240091S**	4/8
76,1×76,1	230	60		**6206233S**	2/-
88,9×88,9	262	70		**6206244S**	2/-
108×108	304	80		**6206255S**	2/-

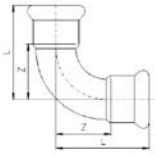


* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press 90° elbow

GROUP: I

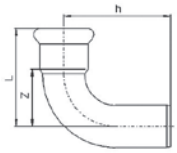
Size	l	z	*	Code	Pcs. /packing	
22×22	51	30		**6240181S**	10/60	
28×28	60	37		**6240190S**	10/30	
35×35	71	45		**6240201S**	10/10	
42×42	86	56		**6240212S**	2/16	
54×54	105	70		**6240223S**	2/8	
76,1×76,1	150	95		**6208004S**	2/-	
88,9×88,9	174	111		**6208048S**	2/-	
108×108	215	139		**6208059S**	2/-	



press nipple 90° elbow

GROUP: I

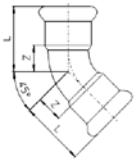
Size	l	z	h	*	Code	Pcs. /packing	
22×22	51	30	58,1		**6240410S**	10/60	
28×28	60	37	65,5		**6240421S**	10/30	
35×35	71	45	75,9		**6240432S**	10/10	
42×42	86	56	92,5		**6240443S**	2/8	
54×54	105	70	110,6		**6240454S**	2/6	
76,1×76,1	150	94	166		**6208061S**	2/-	
88,9×88,9	174	109	190		**6208070S**	4/-	
108×108	215	122	230		**6208081S**	4/-	



press 45° elbow

GROUP: I

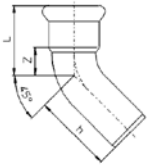
Size	l	z	*	Code	Pcs. /packing	
22×22	35,2	14,2		**6240511S**	10/70	
28×28	40,1	17,1		**6240520S**	10/40	
35×35	46,4	20,4		**6240531S**	5/25	
42×42	56,1	26,1		**6240542S**	2/16	
54×54	66,9	31,9		**6240553S**	2/8	
76,1×76,1	98	43		**6208125S**	4/-	
88,9×88,9	113	50		**6208136S**	4/-	
108×108	138	62		**6208147S**	2/-	



press nipple 45° elbow

GROUP: I

Size	l	z	h	*	Code	Pcs. /packing	
22×22	35,2	14,2	42,3		**6240465S**	10/60	
28×28	40,1	17,1	45,6		**6240476S**	10/40	
35×35	46,4	20,4	51,3		**6240487S**	5/25	
42×42	56,1	26,1	62,6		**6240498S**	4/16	
54×54	66,9	31,9	72,5		**6240509S**	2/8	
76,1×76,1	96	41	119		**6208092S**	2/-	
88,9×88,9	110	47	130		**6208103S**	2/-	
108×108	137	61	160		**6208114S**	2/-	

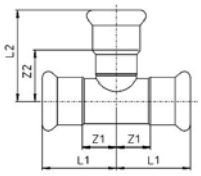


* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press tee

GROUP: I

Size	l1	z1	l2	z2	*	Code	Pcs. /packing
22×22×22	39,5	18,5	48,5	27,5		**6240564S**	10/40
28×28×28	44,5	21,5	53,5	30,5		**6240575S**	10/30
35×35×35	51	25	60	34		**6240586S**	5/15
42×42×42	60	30	66,5	36,5		**6240597S**	4/8
54×54×54	71	36	77,5	42,5		**6240608S**	2/6
76,1×76,1×76,1	116	61	121	61		**6206442S**	2/-
88,9×88,9×88,9	131	68	126	63		**6206453S**	2/-
108×108×108	152,0	78	152	74		**6206464S**	2/-



press reducing tee

GROUP: I

Size	l1	z1	l2	z2	*	Code	Pcs. /packing
22×28×22	39,5	18,5	52	29		**6240718S**	10/40
28×22×28	44,5	21,5	51,5	30,5		**6240729S**	10/30
35×22×35	51	25	55	34		**6240731S**	5/20
35×28×35	51	25	57	34		**6240740S**	10/20
42×22×42	60	30	57,5	36,5		**6240751S**	4/12
42×28×42	60	30	59,5	36,5		**6240762S**	4/12
42×35×42	60	30	62,5	36,5		**6240773S**	4/12
54×22×54	71	36	63,5	42,5		**6240784S**	2/8
54×28×54	71	36	65,5	42,5		**6240795S**	2/8
54×35×54	71	36	68,5	42,5		**6240806S**	2/8
54×42×54	71	36	72,5	42,5		**6240817S**	2/8
76,1×22×76,1	116	61	79	47	**	**6303371S**	2/-
76,1×28×76,1	116	61	80	43	**	**6303373S**	2/-
76,1×35×76,1	131	68	75,5	51,5	**	**6303375S**	2/-
76,1×42×76,1	131	68	83	56,5	**	**6303377S**	2/-
76,1×54×76,1	131	68	85	53		**6206475S**	2/-
88,9×22×88,9	131	68	92,5	55,5	**	**6303379S**	2/-
88,9×28×88,9	131	68	128	73	**	**6303381S**	2/-
88,9×35×88,9	156	78	135	72	**	**6303383S**	2/-
88,9×42×88,9	156	78	85	62	**	**6303385S**	2/-
88,9×54×88,9	156	78	87,5	63,5	**	**6303387S**	2/-
88,9×76,1×88,9	156	78	93,5	66		**6206486S**	2/-
108×22×108	156	78	96	64	**	**6303389S**	2/-
108×28×108	156	78	102	65	**	**6303391S**	2/-
108×35×108	156	78	125	70	**	**6303393S**	2/-
108×42×108	131	68	76	53	**	**6303395S**	2/-
108×54×108	116	61	68	45	**	**6303397S**	2/-
108×76,1×108	116	61	71	47	**	**6303399S**	2/-
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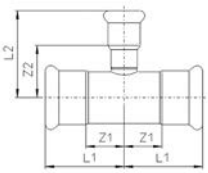
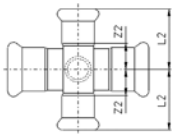


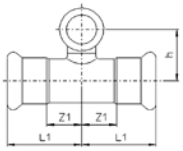
* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press pipe cross 90°

GROUP: I

Size	h	l1	z1	l2	z2	*	Code	Pcs. /packing	
28×22×22×28	31	22	19	45	40		**6240828S**	10/20	

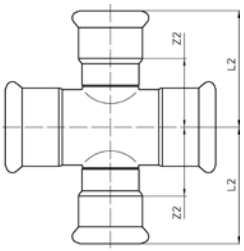


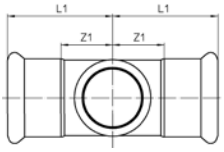


press crossing

GROUP: I

Size	l1	z1	l2	z2	*	Code	Pcs. /packing	
35×35×35×35	51,5	60	25,3	33,8	**	**6340972S**	2/8	
42×42×42×42	60,7	66,5	30,4	36,3	**	**6340983S**	2/8	
54×54×54×54	71	77,5	36	42,5	**	**6340994S**	-/4	
35×28×35×28	51,5	57	25,3	33,7	**	**6341005S**	2/14	
42×28×42×28	60,7	59,5	30,4	36,2	**	**6341016S**	2/8	
54×28×54×28	71	65,5	36	42,2	**	**6341027S**	-/4	

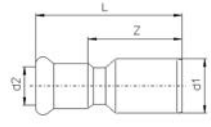




press nipple reducer

GROUP: I

Size	l	z	d1	d2	*	Code	Pcs. /packing	
28×22	63	42	28	22		**6240234S**	10/80	
35×22	68	47	35	22		**6240245S**	10/50	
35×28	69	46	35	28		**6240256S**	10/60	
42×22	80	59	42	22		**6246651S**	5/30	
42×28	79	56	42	28		**6240267S**	5/30	
42×35	76	50	42	35		**6240278S**	4/24	
54×22	89	68	54	22		**6240289S**	4/16	
54×28	87	64	54	28		**6240291S**	4/16	
54×35	89	63	54	35		**6240300S**	10/30	
54×42	91	61	54	42		**6240993S**	4/16	
76,1×42	151	121	76,1	42		**6206387S**	2/-	
76,1×54	145	109	76,1	54		**6206398S**	2/-	
88,9×54	157	122	88,9	54		**6206409S**	2/-	
88,9×76,1	157	105	88,9	76,1		**6206411S**	2/-	
108×76,1	196	144	108	76,1		**6206420S**	2/-	
108×88,9	192	133	108	88,9		**6206431S**	2/-	

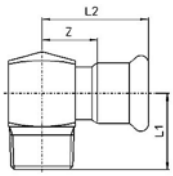


* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press male elbow

GROUP: I

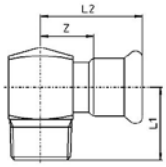
Size	b	z	a	*	Code	Pcs. /packing
22×R¾	61,5	30	51		**6240366S**	10/60
28×R1	73,5	37	60		**6240377S**	10/30
35×R1¼	85,5	45	71		**6240388S**	10/10
42×R1½	95,5	56	86		**6240399S**	4/12
54×R2	115,5	70	105		**6240401S**	2/8



press male elbow - short

GROUP: I

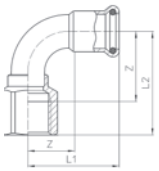
Size	l2	z	l1	*	Code	Pcs. /packing
22×R¾	44,5	23,5	32		**6240982S**	10/60



press female elbow 90°

GROUP: I

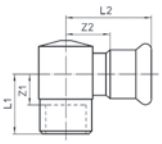
Size	l2	z	l1	*	Code	Pcs. /packing
22×Rp½	59	30	51		**6249577S**	10/30
22×Rp¾	59	30	51		**6240964S**	10/30
28×Rp½	65	37	60		**6241169S**	5/30
28×Rp¾	65	37	60		**6241171S**	5/30
28×Rp1	69,5	37	60		**6249588S**	5/30
35×Rp½	74,5	45	71		**6241180S**	5/10
35×Rp¾	74,5	45	71		**6241061S**	5/10
35×Rp1	74,5	45	71		**6249599S**	5/10



press female elbow - short

GROUP: I

Size	l1	l2	z1	z2	*	Code	Pcs. /packing
22×Rp½	31	44,5	16	23	**	**6340972S**	10/50
28×Rp½	35	50,5	20	26,7	**	**6340983S**	5/30
35×Rp½	35	56,5	20	29,4	**	**6340994S**	5/10

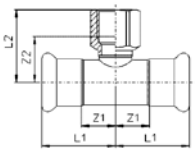


* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press female tee

GROUP: I

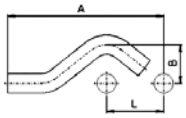
Size	l1	z1	l2	z2	*	Code	Pcs. /packing
22×Rp½×22	39,5	18,5	39	24		**6240619S**	10/50
22×Rp¾×22	39,5	18,5	41	24,7		**6240621S**	10/40
28×Rp½×28	44,5	21,5	42	27		**6240630S**	10/30
28×Rp¾×28	44,5	21,5	44	27,7		**6240641S**	10/30
28×Rp1×28	44,5	21,5	46	27,5		**6249601S**	10/30
35×Rp½×35	51	25	45,5	30,5		**6240652S**	10/20
35×Rp¾×35	51	25	47,5	31,2		**6240663S**	10/20
35×Rp1×35	51	25	50	31		**6249610S**	10/20
42×Rp½×42	60	30	48	33		**6240674S**	4/16
42×Rp¾×42	60	30	50	33,7		**6240685S**	4/16
42×Rp1×42	60	30	52,5	33,5		**6249621S**	4/16
54×Rp½×54	71	36	54	39		**6240696S**	2/8
54×Rp¾×54	71	36	56	39,7		**6240707S**	2/8
54×Rp1×54	71	36	60	41		**6241070S**	2/8
76,1×Rp¾×76,1	116	61	69	52		**6206508S**	2/-
88,9×Rp¾×88,9	131	68	76	59		**6206519S**	1/-
108×Rp¾×108	156	78	86	69		**6206521S**	1/-



crossover

GROUP: I

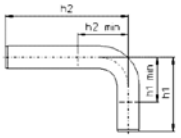
Size	l	a	b	*	Code	Pcs. /packing
22×22	64,5	177	37		**6240883S**	10/50
28×28	75	215	43		**6240894S**	10/20



bend 90°

GROUP: I

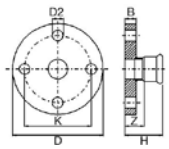
Size	l1	z1	l2	z2	*	Code	Pcs. /packing
22×22	72	70	120	70		**6240839S**	10/40
28×28	82	80	120	80		**6240841S**	10/20
35×35	120	100	200	100		**6240850S**	4/8
42×42	150	120	250	120		**6240861S**	2/4
54×54	200	145	300	145		**6240872S**	2/2



press flange PN16

GROUP: I

Size	DN	z	d	h	k	b	d2	otwory	*	Code	Pcs. /packing
76,1	65	79	185	134	145	18	18	4		**620659.6S**	4/-
88,9	80	78	200	141	160	20	18	8		**620660.7S**	2/-
108	100	88	220	166	180	20	18	8		**620661.8S**	2/-

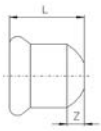


* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press cup

GROUP: I

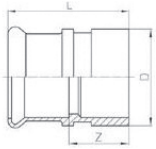
Size	l	z	*	Code	Pcs. /packing	
22	28,5	7,5		**6240311S**	10/240	
28	32,3	9,3		**6240322S**	10/130	
35	34,4	8,4		**6240333S**	5/75	
42	43,2	13,2		**6240344S**	4/48	
54	51,8	16,8		**6240355S**	4/32	
76,1	70	15		**6206915S**	4/-	
88,9	87	24		**6206926S**	4/-	
108	98	21		**6206937S**	4/-	



groove connector

GROUP: I

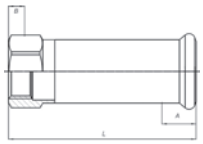
Size	l	D	Z	*	Code	Pcs. /packing	
28×33,7	72,5	33,7	26	**	**624130.1S**	10/30	
35×42,4	81	42,4	26	**	**624134.5S**	10/30	
42×48,3	86	48,3	26	**	**624135.6S**	5/20	
54×60,3	96,5	60,3	26	**	**624136.7S**	5/15	
76,1×76,1	90	76,1	36	**	**6340774S**	2/-	
88,9×88,9	100	88,9	36	**	**6340785S**	2/-	
108×114	110	114,3	36	**	**6340796S**	2/-	



long press female connector

GROUP: I

Size	l	A	B	*	Code	Pcs. /packing	
22×Rp½	92	25	15	**	**624131.2S**	10/60	
22×Rp¾	97	25	16	**	**624132.3S**	10/60	
28×Rp½	94	30	15	**	**624126.8S**	10/40	
28×Rp¾	93	30	16	**	**624127.9S**	10/40	



O-Ring LBP EPDM

GROUP: I

Size	*	Code	Pcs. /packing	
22		**6222238**	20/500	
28		**6222249**	20/400	
35		**6222251**	20/400	
42		**6222260**	20/300	
54		**6222271**	20/300	

O-Ring EPDM

GROUP: I

Size	*	Code	Pcs. /packing	
76,1		**620801.5**	5/100	
88,9		**620802.6**	5/100	
108		**620803.7**	5/50	

* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

flexible hose with straight ending

GROUP: I

Size	długość	*	Code	Pcs. /packing	
Rp½"×Ø22	1000	**	**619800.5S**	-/10	
Rp½"×Ø22	1500	**	**619802.7S**	-/10	
Rp½"×Ø22	2000	**	**619803.8S**	-/10	
Rp½"×Ø28	1000	**	**619804.9S**	-/10	
Rp½"×Ø28	1500	**	**619806.0S**	-/10	
Rp½"×Ø28	2000	**	**619807.1S**	-/10	

flexible hose with 90° angle ending

GROUP: I

Size	długość	*	Code	Pcs. /packing	
Rp½"×Ø22	800	**	**619808.2S**	-/10	
Rp½"×Ø22	1000	**	**619809.3S**	-/10	
Rp½"×Ø22	1500	**	**619811.5S**	-/10	
Rp½"×Ø28	800	**	**619813.7S**	-/10	
Rp½"×Ø28	1000	**	**619814.8S**	-/10	
Rp½"×Ø28	1500	**	**619816.1S**	-/10	

All flexible hoses are equipped with mounting bracket: 1 x 700 mm square pipe, 1 x sliding clamp, 2 x multiclip bracket.

cutter for steel pipes

GROUP: K

Size	*	Code	Pcs. /packing	
15-54 mm		**113000**	any	
35-108 mm		**113100**	any	

wheel for cutter for steel pipes - service element

GROUP: K

Size	*	Code	Pcs. /packing	
		341614	any	

electric cutter

GROUP: K

Size	*	Code	Pcs. /packing	
22-108 mm		**845000**	any	

stripping tool - drill set

GROUP: K

Size	*	Code	Pcs. /packing	
15-54 mm		**113835**	any	

press machine ECO 301

GROUP: K

Nazwa	Dopuszczalny zakres zaciskanych średnic	Typ zasilania [V]	*	Code	Pcs. /packing	
ECO 301	22-54 mm	Sieciowe 220-240		**620570.5**	any	

* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

ECO 301 press jaw

GROUP: K

Size	*	Code	Pcs. /packing	
22		620575.1	any	
28		620576.0	any	

ECO 301 HP Snap On collar

GROUP: K

Size	*	Code	Pcs. /packing	
35		634106.0	any	
42		634107.1	any	
28		634108.2	any	

adapter ZB 303 for ECO301

GROUP: K

Diameters	*	Code	Pcs. /packing	
35-42-54		634111.5	any	

battery press tool ACO 401

GROUP: K

Size	*	Code	Pcs. /packing	
76,1-108 mm		634008.1	any	

press jaws for ACO 401

GROUP: K

Size	*	Code	Pcs. /packing	
76,1		634009.2	any	
88,9		634010.3	any	
108		634011.4	any	

* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

Safety for years to come

SYSTEM **KAN-therm**

Inox Sprinkler

Technical information.
Pricelist

TECHNOLOGY OF SUCCESS

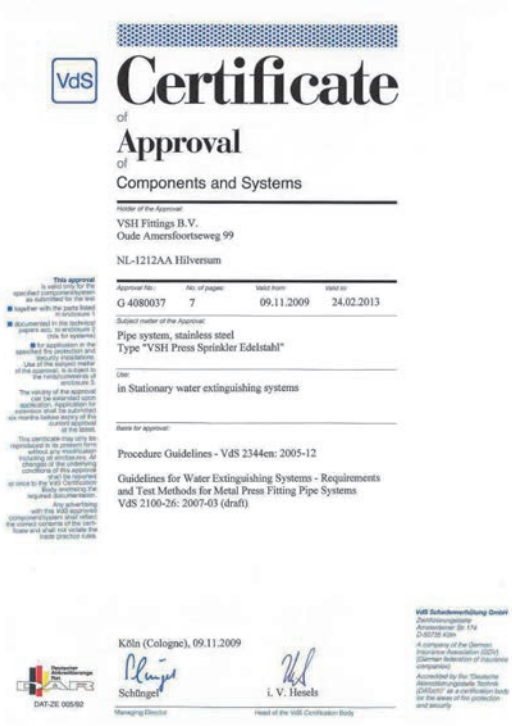
ISO **9001**

Application and operational conditions

KAN-therm Inox Sprinkler System is designed for constructing pipelines (distributing or splitting conduits) of stationary air or water sprinkler systems installed in small or medium fire hazard areas (LH, OH1, OH2, OH3 and up to OH 4 - inreference to exhibition rooms, theatres and concert halls) (according to VdS CEA 4001 guidelines)

The system's pipes and fittings are approved by the CNBOP (Fire Protection Science and Research Center) with AT-1106-0249/2009 ID and VdS certificate.

CNBOP



VdS

Certificate

of

Approval

of

Components and Systems

VSH Fittings B.V.
Oude Amersfoortseweg 99

NL-1212AA Hilversum

Approval No.:	No. of pages:	Valid from	Valid to
G 4080037	7	09.11.2009	24.02.2013

Pipe system, stainless steel
Type "VSH Press Sprinkler Edelstahl"

in Stationary water extinguishing systems

Procedure Guidelines - VdS 2344en: 2005-12

Guidelines for Water Extinguishing Systems - Requirements and Test Methods for Metal Press Fitting Pipe Systems VdS 2100-26: 2007-03 (draft)

Köln (Cologne), 09.11.2009

Schlingel

i. V. Hesels

DAT-ZE 005/92

Maximum operating pressure of the pipes and fittings is

- for 22 - 76,1 diameters, 16,0 bar
- for 88,9 diameter 12,5 bar
- for 108 diameter - 10,0 bar

IThe installation should be designed and constructed according to guidelines included in this document, as well as with applicable standards and regulations

Designing, assembly and commissioning of the sprinkler system is defined by PN-EN 12845:2008 standard. Stationary fire extinguishing units. Automatic sprinkler units Design, assembly and maintenance

System KAN-therm Inox Sprinkler – stainless steel pipes

KAN-therm Inox Sprinkler System pipes for sprinkler systems are precise X5CrNiMo (1.4401 acc. to EN 10088 AISI 316) stainless steel pipes.

KAN-therm Inox Sprinkler System pipes may be classified as A category incombustible materials, acc. to DIN 4102, part 1.

The pipes are distributed in 6 metre lengths. Minimum pipe bend radius 3,5 x D (for DN20 - DN25 diameters).

Pipe technical specification

DN	Outside diameter x wall thickness	Inside diameter	Unit mass	Water capacity
	[mm × mm]	[mm]	[kg/m]	[l/m]
20	22 × 1,5	19,6	0,624	0,302
25	28 × 1,5	25,6	0,790	0,515
32	35 × 1,5	32,0	1,240	0,804
40	42 × 1,5	39,0	1,503	1,195
50	54 × 1,5	51,0	1,972	2,043
65	76,1 × 2,0	72,1	3,550	4,548
80	88,9 × 2,0	84,9	4,150	5,661
100	108 × 2,0	104,0	5,050	8,495

KAN-therm Inox Sprinkler pipe for sprinkler system dimensions.

Material	X5CrNiMo stainless steel material no. 1.4401 acc. to EN 10088-2 (AISI 316)
Outside diameter tolerance	EN 10305-3
Thermal expansion coefficient	0,0160 mm/m at ΔT= 1K
Minimum bend radius (for diameters up to Ø28 mm)	3,5 x outside pipe diameter (up to -10°C)
Delivery	6 m ± 50 mm lengths
Marking	name or manufacturer label, material identification outside diameter x wall thickness, approval no., manufacture date
Max. operating pressure	16 bar (22-76,1 mm); 12,5 bar (88,9 mm); 10 bar (108 mm)

System KAN-therm Inox Sprinkler – pressed stainless steel couplings

KAN-therm Inox Sprinkler System pressed couplings are made of stainless steel, material no. 1.4404 acc. to EN 10088. The couplings are equipped with EPDM rubber sealing ring (O-ring).

Coupling diameter range DN20 - DN100

System KAN-therm Inox Sprinkler – assortment

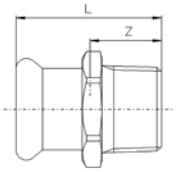
stainless steel pipe

GROUP: H

Size	*	Code	Pcs.	Packing	
22×1,2		**611793.6S**	bar 6m	6/360	
28×1,2		**611794.7S**	bar 6m	6/300	
35×1,5		**611795.8S**	bar 6m	6/180	
42×1,5		**611796.9S**	bar 6m	6/150	
54×1,5		**611797.1S**	bar 6m	6/90	
76,1×2		**611798.0S**	bar 6m	6/168	
88,9×2		**611799.1S**	bar 6m	6/136	
108×2		**611800.2S**	bar 6m	6/108	

press male connector

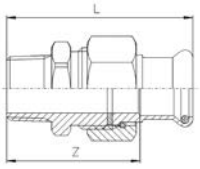
GROUP: G



Size	l	z	*	Code	Packing	
22×R½	42	21		**6190635S**	10/70	
22×R¾	43,3	22,3		**6190646S**	10/100	
22×R1	48,5	27,5		**6190624S**	10/60	
28×R¾	45,2	22,2		**6190679S**	10/50	
28×R1	48	25		**6190657S**	10/60	
28×R1¼	51,5	28,5		**6190668S**	10/30	
35×R1	52,7	26,7		**6190681S**	10/40	
35×R1¼	55	29		**6190701S**	5/40	
35×R1½	56	30		**6190690S**	10/20	
42×R1¼	59	29		**6190723S**	4/12	
42×R1½	59	29		**6190712S**	4/24	
54×R1½	64,7	29,7		**6190734S**	4/16	
54×R2	69	34		**6190745S**	4/12	
76,1×R2½	125	70		**620475.9S**	2/-	
88,9×R3	138	75		**620476.1S**	2/-	

press union connector

GROUP: G



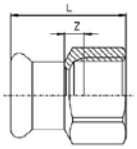
Size	l	z	*	Code	Packing.	
22×R½	63	42		**6192164S**	2/40	
22×R¾	68,5	47,5		**6192175S**	2/40	
22×R1	71,8	50,8		**6192186S**	2/30	
28×R1	72,8	49,8		**6192197S**	2/30	
35×R1¼	78,2	52,2		**6192208S**	2/16	
42×R1½	85,4	55,4		**6192219S**	2/12	
54×R2	100	65		**6192296S**	2/4	

* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press female connector

GROUP: G

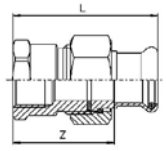
Size	l	z	*	Code	Packing	
22×Rp½	36,5	5,5		**6190461S**	10/100	
22×Rp¾	39,5	7,5		**6190470S**	10/100	
22×Rp1	43,6	9,6		**6190459S**	10/60	
28×Rp½	38	3		**6193308S**	10/40	
28×Rp¾	40	6		**6190503S**	10/40	
28×Rp1	44,6	8,6		**6190481S**	10/60	
28×Rp1¼	47	9		**6190492S**	10/30	
35×Rp1	46	7		**6190514S**	10/20	
35×Rp1¼	50	9		**6190536S**	10/30	
35×Rp1½	50	10		**6190525S**	10/20	
42×Rp1¼	52	3		**6190558S**	4/12	
42×Rp1½	54	10		**6190547S**	4/24	
54×Rp1½	58	9		**6190569S**	4/12	
54×Rp2	63	10		**6190571S**	4/12	



press female union connector

GROUP: G

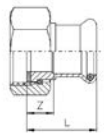
Size	l	z	*	Code	Packing	
22×Rp¾	63	25,5		**6192065S**	2/40	
22×Rp1	65,8	25,3		**6192076S**	2/30	
28×Rp1	65	22,5		**6192087S**	2/26	
35×Rp1¼	73	25,3		**6192098S**	1/20	
42×Rp1½	82	30		**6192109S**	2/8	
54×Rp2	91	30		**6192111S**	2/4	



press half union connector (with flat gasket)

GROUP: G

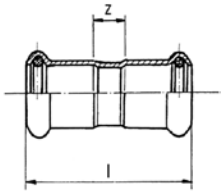
Size	l	z	*	Code	Packing.	
22×Rp¾	11	11		**6191757S**	10/60	
22×Rp1	10	10		**6191768S**	10/40	
28×Rp1	10	10		**6191779S**	4/32	
35×Rp1¼	13	13		**6191781S**	4/12	
42×Rp1½	15	15		**6191790S**	4/8	
54×Rp2	36,7	22		**6240971S**	10/100	



press coupling

GROUP: G

Size	l	z	*	Code	Packing	
22×22	52	10		**6190965S**	10/80	
28×28	56,2	10,2		**6190976S**	10/60	
35×35	62,3	10,3		**6190987S**	5/40	
42×42	73,3	13,3		**6190998S**	4/24	
54×54	83	13		**6191009S**	4/16	
76,1×76,1	142	32		**620415.4S**	4/-	
88,9×88,9	163	37		**620416.5S**	4/-	
108×108	192	38		**620417.6S**	4/-	

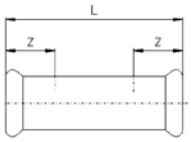


* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press slip coupling

GROUP: G

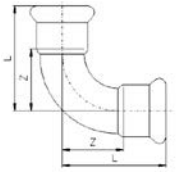
Size	l	z	*	Code	Packing	
22×22	84	21		**6191306S**	10/60	
28×28	91,2	23		**6191317S**	10/40	
35×35	102,2	26		**6191328S**	5/20	
42×42	120,3	30		**6191339S**	4/16	
54×54	140	35		**6191341S**	2/8	
76,1×76,1	230	60		**620428.6S**	2/-	
88,9×88,9	258	70		**620429.7S**	2/-	
108×108	305	80		**620430.8S**	2/-	



press 90° elbow

GROUP: G

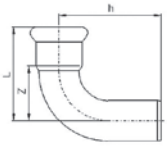
Size	l	z	*	Code	Packing	
22×22	51	30		**6190228S**	10/60	
28×28	60,1	37,1		**6190239S**	5/30	
35×35	71,1	45,1		**6190241S**	5/20	
42×42	86,1	56,1		**6190250S**	2/8	
54×54	105	70		**6190261S**	2/8	
76,1×76,1	150	95		**6230004S**	2/-	
88,9×88,9	175	112		**6230015S**	2/-	
108×108	214	137		**6230026S**	1/-	



press nipple 90° elbow

GROUP: G

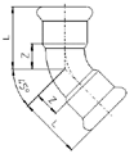
Size	l	z	h	*	Code	Packing	
22×22	51	30	60		**6190360S**	5/60	
28×28	60,1	37,1	65,5		**6190371S**	5/30	
35×35	71,1	45,1	75,9		**6190382S**	5/10	
42×42	86,1	56,1	92,5		**6190393S**	2/8	
54×54	105	70	110,6		**6190404S**	2/6	
76,1×76,1	150	95	165		**6230037S**	1/-	
88,9×88,9	174	110	190		**6230048S**	1/-	
108×108	216	137	238		**6230059S**	1/-	



KAN-therm press 45° elbow

GROUP: G

Size	l	z	*	Code	Packing	
22×22	35,2	14,2		**6190063S**	10/70	
28×28	40,2	17,2		**6190074S**	10/40	
35×35	46,5	20,5		**6190085S**	5/25	
42×42	56,3	26,3		**6190096S**	2/16	
54×54	66,9	31,9		**6190107S**	2/8	
76,1×76,1	98	43		**6230061S**	2/-	
88,9×88,9	112	49		**6230070S**	2/-	
108×108	138	61		**6230081S**	2/-	

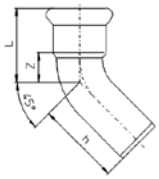


* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press nipple 45° elbow

GROUP: G

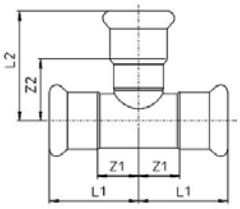
Size	l	z	?	*	Code	Packing	
22×22	35,2	14,2	?		**6190131S**	10/70	
28×28	40,2	17,2			**6190140S**	10/40	
35×35	46,5	20,5			**6190151S**	5/25	
42×42	56,3	26,3			**6190162S**	2/16	
54×54	66,9	31,9			**6190173S**	2/8	
76,1×76,1	98	43			**6230092S**	2/-	
88,9×88,9	112	49			**6230103S**	2/-	
108×108	138	61			**6230114S**	2/-	



press tee

GROUP: G

Size	l1	z1	l2	z2	*	Code	Packing	
22×22x22	39,5	18,5	43,5	22,5		**6191405S**	10/40	
28×28x28	44,5	21,5	48,5	25,5		**6191449S**	5/25	
35×35x35	51	25	55	29		**6191493S**	5/15	
42×42x42	60	30	61,5	31,5		**6191537S**	4/8	
54×54x54	71	36	72,5	37,5		**6191581S**	2/6	
76,1×76,1×76,1	116	61	115	60		**620431.9S**	2/-	
88,9×88,9×88,9	131	68	127	64		**620432.1S**	2/-	
108×108×108	156	79	155	78		**620433.0S**	2/-	

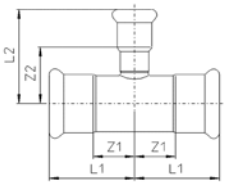


* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press tee

GROUP: G

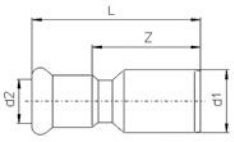
Size	l1	z1	l2	z2	*	Code	Packing
28×22×28	46	23	45	24		**6191438S**	10/30
35×22×35	51	25	50	29		**6191471S**	5/20
35×28×35	51	25	52	29		**6191482S**	5/20
42×22×42	60	30	52,5	31,5		**6191504S**	4/12
42×28×42	60	30	54,5	31,5		**6191515S**	4/12
42×35×42	60	30	57,5	31,5		**6191526S**	4/12
54×22×54	71	36	58,5	37,5		**6191548S**	2/8
54×28×54	71	36	60,5	37,5		**6191559S**	2/8
54×35×54	71	36	63,5	37,5		**6191561S**	2/8
54×42×54	71	36	67,5	37,5		**6191570S**	2/8
76,1×22×76,1	116	61	68	45		**620434.1S**	2/-
76,1×28×76,1	116	61	71	47	**	**620435.2S**	2/-
76,1×35×76,1	116	61	75	48	**	**620436.3S**	2/-
76,1×42×76,1	116	61	79	47	**	**620437.4S**	2/-
76,1×54×76,1	116	61	80	43	**	**620438.5S**	2/-
88,9×22×88,9	131	68	76	53		**620439.6S**	2/-
88,9×28×88,9	131	68	76	52	**	**620440.7S**	2/-
88,9×35×88,9	131	68	83	56	**	**620441.8S**	2/-
88,9×42×88,9	131	68	85	53	**	**620442.9S**	2/-
88,9×54×88,9	131	68	93	56	**	**620443.1S**	2/-
88,9×76,1×88,9	131	68	116	61	**	**620444.0S**	2/-
108×22×108	156	79	85	62		**620445.1S**	2/-
108×28×108	156	79	88	64	**	**620446.2S**	2/-
108×35×108	156	79	94	67	**	**620447.3S**	2/-
108×42×108	156	79	96	64	**	**620448.4S**	2/-
108×54×108	156	79	102	65	**	**620449.5S**	2/-
108×76,1×108	156	79	125	70	**	**620450.6S**	2/-
108×88,9×108	156	79	135	72		**620451.7S**	2/-



press nipple reducer

GROUP: I

Size	l	z	d1	d2	*	Code	Packing
28×22	61,2	40,2	28	22		**6191174S**	10/80
35×22	69	48	35	22		**6191196S**	5/50
35×28	68,1	45,1	35	28		**6191207S**	5/60
42×22	84,5	63,5	42	22		**6191218S**	4/24
42×28	77,9	54,9	42	28		**6191229S**	4/24
42×35	77,6	51,6	42	35		**6191231S**	4/24
54×22	96,5	75,5	54	22		**6191240S**	4/16
54×28	95,5	72,5	54	28		**6191251S**	4/16
54×35	94,6	68,6	54	35		**6191262S**	4/16
54×42	95,1	65,1	54	42		**6191273S**	4/16
76,1×42	151	119	76,1	42		**620421.1S**	2/-
76,1×54	140	103	76,1	54		**620422.0S**	2/-
88,9×54	156	119	88,9	54		**620423.1S**	2/-
88,9×76,1	156	101	88,9	76,1		**620424.2S**	2/-
108×54	204	167	108	54		**620425.3S**	2/-
108×76,1	196	141	108	76,1		**620426.4S**	2/-
108×88,9	190	127	108	88,9		**620427.5S**	2/-

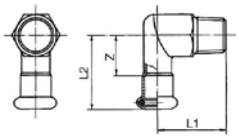


* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press male elbow

GROUP: G

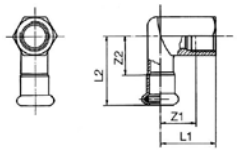
Size	l2	l1	z	*	Code	Packing	
22×R¾	48,5	27,5	38,5		**6190899S**	10/60	
28×R1	53	30	46		**6190901S**	10/30	
35×R1¼	60	34	52		**6190910S**	5/20	
42×R1½	69	39	58		**6190921S**	2/16	
54×R2	82	47	68		**6190932S**	2/8	



press female elbow

GROUP: G

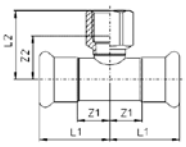
Size	l2	z2	l1	z1	*	Code	Packing	
22×R½	45	24	31	16		**6198456S**	10/50	
22×Rp¾	48,5	27,5	33	16,7		**6190844S**	10/50	
28×R½	47,5	24,5	35	16		**6198467S**	10/30	
28×Rp¾	50,5	27,5	35	18,5		**6198478S**	10/30	
28×Rp1	54,5	31,5	37	17,5		**6190855S**	10/30	
35×Rp½	56	30	35	20		**6198489S**	5/10	
35×Rp¾	57,5	31,5	37	21		**6198491S**	5/10	
35×Rp1	58	32	40,5	21		**6198500S**	5/10	
35×Rp1¼	62	36	42,2	20,5		**6190866S**	5/10	



press female tee

GROUP: G

Size	l1	z1	l2	z2	*	Code	Packing	
22×Rp½×22	39,5	18,5	38	22		**6191625S**	10/40	
22×Rp¾×22	39,5	18,5	41	23		**6191636S**	10/40	
28×Rp½×28	44,5	21,5	42	25		**6191647S**	5/30	
28×Rp¾×28	44,5	21,5	44	26		**6191658S**	10/30	
28×Rp1×28	44,5	21,5	46	27,5		**6198599S**	10/30	
35×Rp½×35	51	25	45,5	28,5		**6191669S**	5/20	
35×Rp¾×35	51	25	47,5	29,5		**6191671S**	5/20	
35×Rp1×35	51	25	50	31		**6198601S**	5/20	
42×Rp½×42	60	30	48	31		**6191680S**	4/16	
42×Rp¾×42	60	30	50	32		**6191691S**	4/12	
42×Rp1×42	60	30	52,5	33,5		**6198610S**	4/12	
54×Rp½×54	71	36	54	37		**6191702S**	2/8	
54×Rp¾×54	71	36	56	38		**6191724S**	2/8	
54×Rp1×54	71	36	58	39		**6198621S**	2/8	
54×Rp2×54	71	36	64,7	46,7		**6191713S**	2/6	
76,1×Rp¾×76,1	116	55	68	55		**620452.8S**	2/-	
76,1×Rp2×76,1	116	55	81	59		**620455.0S**	2/-	
88,9×Rp¾×88,9	131	63	87	74		**620453.9S**	2/-	
88,9×Rp2×88,9	131	63	88	66		**620456.1S**	2/-	
108×Rp¾×108	156	77	86	73		**620454.1S**	2/-	
108×Rp2×108	156	77	98	76		**620457.2S**	2/-	

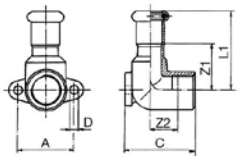


* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press short wallplate elbow

GROUP: G

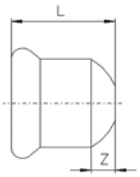
Size	d	l1	z1	a	z2	c	*	Code	Packing	
22×Rp¾ - long	5,5	48,5	27,5	40	16,7	64		**6192010S**	10/40	
22×Rp¾ - short	5,5	49	28	40	13	52		**6191823S**	10/50	



press cup

GROUP: G

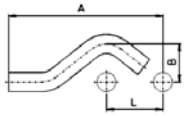
Size	l	z	*	Code	Packing	
22	24,1	3,1		**6191031S**	10/150	
28	26,1	3,1		**6191042S**	10/130	
35	29,1	3,1		**6191053S**	5/75	
42	36,1	6,6		**6191064S**	4/48	
54	41,6	6,6		**6191075S**	4/24	
76,1	95	40		**620418.7S**	4/-	
88,9	107	44		**620419.8S**	4/-	
108	127	50		**620420.9S**	4/-	



crossover

GROUP: G

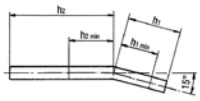
Size	a	b	l	*	Code	Packing	
22×22	178	44	65			10/50	
28×28	210	50	74			10/20	



bend 15°

GROUP: G

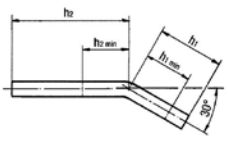
Size	h2	h2min	h1	h1min	*	Code	Packing	
28×28	134	45	45	45		**6190008S**	10/40	
35×35	222	53	73	53		**6190019S**	5/15	
42×42	280	59	89	59		**6191834S**	2/20	
54×54	337	67	122	67		**6191845S**	2/10	



bend 30°

GROUP: G

Size	h2	h2min	h1	h1min	*	Code	Packing	
28×28	130	51	51	51		**6190021S**	10/40	
35×35	214	60	73	60		**6190030S**	4/12	
42×42	272	69	99	69		**6191856S**	2/20	
54×54	326	79	134	79		**6191867S**	2/8	

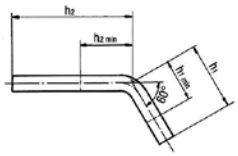


* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

bend 60°

GROUP: G

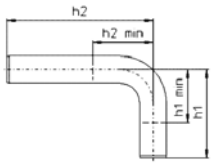
Size	h2	h2min	h1	h1min	*	Code	Packing	
28×28	121	63	63	63		**6190184S**	5/30	
35×35	203	77	97	77		**6190195S**	4/12	
42×42	256	90	120	90		**6191878S**	5/5	
54×54	306	107	162	107		**6191889S**	2/6	



bend 90°

GROUP: G

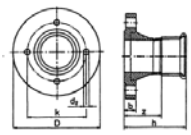
Size	h2	h2min	h1	h1min	*	Code	Packing	
22×22	120	70	72	70		**6190294S**	10/30	**31,72**
28×28	120	80	82	80		**6190305S**	5/20	**33,60**
35×35	200	100	120	100		**6190316S**	4/8	**69,13**
42×42	250	120	150	120		**6190327S**	2/4	**85,24**
54×54	300	145	200	145		**6190338S**	2/2	**106,87**



press flange PN16

GROUP: G

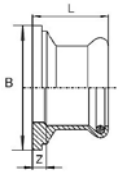
Size	z	d	h	k	b	d2	otwory	*	Code	Packing	
22	42,5	105	63,5	75	12	14	4		**6190778S**	1/12	
28	48	115	71	85	14	14	4		**6190789S**	1/12	
35	53	140	79	100	15	18	4		**6190791S**	1/6	
42	61	150	91	110	16	18	4		**6190800S**	1/4	
54	77	165	112	125	18	18	4		**6190811S**	1/2	
76,1	71	185	126	145	18	18	4		**620412.1S**	4/-	
88,9	84	200	147	160	20	18	8		**620413.2S**	2/-	
108	90	220	167	180	20	18	8		**620414.3S**	2/-	



KAN-therm press flange connector

GROUP: G

Size	l	z	b	*	Code	Packing	
22×1¼	28	7	38,8		**6191933S**	20/80	
22×1½	28	7	44,4		**6191944S**	20/80	
28×1½	30,5	7,5	44,4		**6191955S**	20/80	
35×2	33	7	56		**6191966S**	10/30	
42×2¼	37	7	62		**6191977S**	10/30	
54×2¾	44	9	77,6		**6191988S**	5/20	

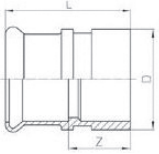


* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

groove connector

GROUP: G

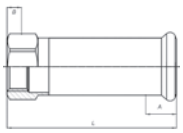
Size	l	D	Z	*	Code	Packing
28×33,7	72,5	33,7	26	**	**619855.5S**	10/30
35×42,4	81	42,4	26	**	**619856.6S**	10/30
42×48,3	86	48,3	26	**	**619857.7S**	5/20
54×60,3	96,5	60,3	26	**	**619858.8S**	5/15
76,1×76,1	90	76,1	36,0	**	**6193319S**	2/-
88,9×88,9	100	88,9	36,0	**	**6193321S**	2/-
108×114	110	114,3	36,0	**	**6193330S**	2/-



long press female connector

GROUP: I

Size	A	B	C	L	*	Code	Packing
22×Rp½	92	25	15	40	**	**619851.1S**	10/60
22×Rp¾	97	25	16	40	**	**619852.2S**	10/60
28×Rp½	94	30	15	40	**	**619853.3S**	10/40
28×Rp¾	93	30	16	40	**	**619854.4S**	10/40



O-Ring LBP EPDM

GROUP: I

Size	*	Code	Packing
22		**6222238**	20/500
28		**6222249**	20/400
35		**6222251**	20/400
42		**6222260**	20/300
54		**6222271**	20/300

O-Ring EPDM

GROUP: I

Size	*	Code	Packing
76,1		**620801.5**	5/100
88,9		**620802.6**	5/100
108		**620803.7**	5/50

flexible hose with straight ending

GROUP: I

Size	długość	*	Code	Packing
Rp½"×Ø22	1000	**	**619800.5S**	-/10
Rp½"×Ø22	1500	**	**619802.7S**	-/10
Rp½"×Ø22	2000	**	**619803.8S**	-/10
Rp½"×Ø28	1000	**	**619804.9S**	-/10
Rp½"×Ø28	1500	**	**619806.0S**	-/10
Rp½"×Ø28	2000	**	**619807.1S**	-/10

All flexible hoses are equipped with mounting bracket: 1 x 700 mm square pipe, 1 x sliding clamp, 2 x multiclip bracket

* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

KAN-therm flexible hose with 90° angle ending

GROUP: I

Size	długość	*	Code	Packing	
Rp½"×Ø22	800	**	**619808.2S**	-/10	
Rp½"×Ø22	1000	**	**619809.3S**	-/10	
Rp½"×Ø22	1500	**	**619811.5S**	-/10	
Rp½"×Ø28	800	**	**619813.7S**	-/10	
Rp½"×Ø28	1000	**	**619814.8S**	-/10	
Rp½"×Ø28	1500	**	**619816.1S**	-/10	

All flexible hoses are equipped with mounting bracket: 1 x 700 mm square pipe, 1 x sliding clamp, 2 x multiclip bracket

cutter for steel pipes

GROUP: K

Size	*	Code	Packing	
15-54 mm		**113000**	any	
35-108 mm		**113100**	any	

wheel for cutter for steel pipes - service element

GROUP: K

Size	*	Code	Packing	
		341614	any	

wheel for electric cutter for steel pipes - service element

GROUP: K

Size	*	Code	Packing	
22-108 mm		**845000**	any	

stripping tool - drill set

GROUP: K

Size	*	Code	Packing	
15-54 mm		**113835**	any	

press machine ECO 301

GROUP: K

Name	Diameters	Voltage	*	Code	Packing	
ECO 301	22-54 mm	220-240		**620570.5**	any	

pressing jaw for ECO301

GROUP: K

Size	*	Code	Packing	
22		**620575.1**	any	
28		**620576.0**	any	

Caution:
collars 35 – 54 mm needs additional adapter ZB 303.

* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

press collar HP Snap On for ECO 301

GROUP: K

Size	*	Code	Packing	
35		**634106.0**	1	
42		**634107.1**	1	
54		**634108.2**	1	

Caution:
collars 35 – 54 mm needs additional adapter ZB 303.

adapter ZB 303 for ECO301

GROUP: K

Size	*	Code	Packing	
35-42-54		**634111.5**	any	

battery press tool ACO 401

GROUP: K

Size	*	Code	Packing	
76,1-108 mm		**634008.1**	any	

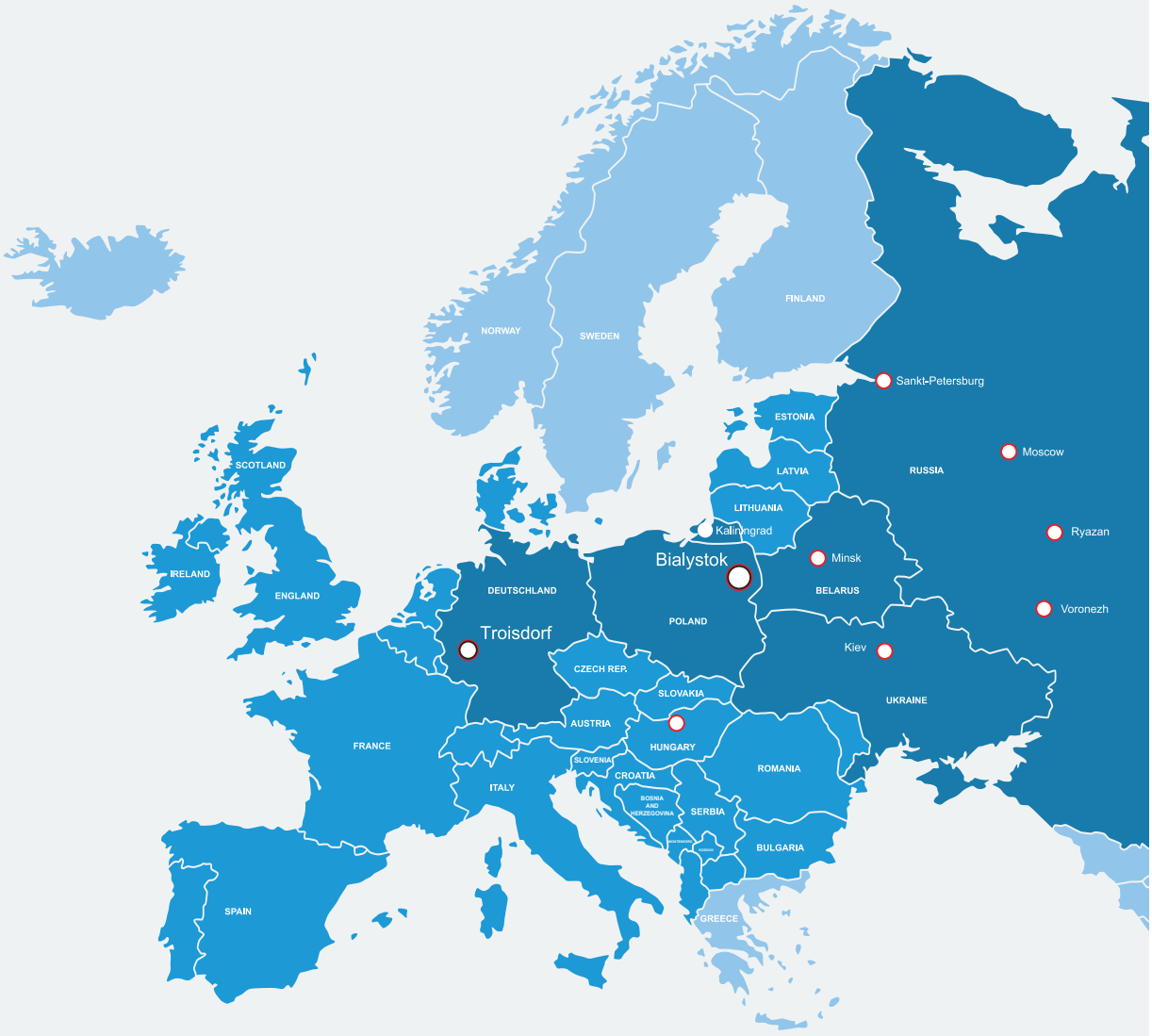
press jaws for ACO 401

GROUP: K

Size	*	Code	Packing	
76,1		**634009.2**	any	
88,9		**634010.3**	any	
108		**634011.4**	any	

* on request – (delivery time up to 4 weeks) | ** availability by individual arrangements | *** till stock ends

Index



REPRESENTATIVE OFFICE
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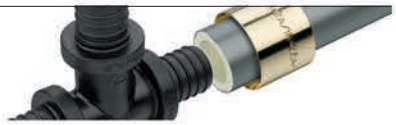
WAREHOUSE

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

PP

Steel

Inox

Sprinkler

Underfloor heating
and automation

Football
Stadium installations

Cabinets and manifolds

SYSTEM
KAN-therm

KAN Sp. z o.o.
ul. Zdrojowa 51, 16-001 Białystok-Kleosin
tel. +48 85 74 99 200, fax +48 85 74 99 201
e-mail: kan@kan-therm.com