



PALCONN TECHNOLOGY

A large, stylized version of the Palconn logo is centered on the page. The word "PALCONN" is written in a light gray, sans-serif font. It is contained within a white, irregular, teardrop-shaped area. This central area is surrounded by numerous concentric, wavy lines in shades of red and orange, creating a sense of depth and movement. The entire background of the page is a solid red color with subtle, wavy lines.

Approvals



Company profile

PALCONN is a leading piping system in developing, producing and exporting all kinds of plastic pipes and fittings in China which can provide integrated system solutions to create comfortable life, work and recreational environment.

We're mainly export PEX pipe, PERT pipe, PPR pipe, PB pipe, EVOH PEX/PERT/PB oxygen barrier pipe, PEX-AL-PEX pipe, PE-AL-PE Gas pipe, drip irrigation pipe, PVC/PP soundproof drainage pipe. Our products are widely used in floor heating, water supply, gas, air-condition, solar, irrigation, drainage system etc.

PALCONN adopts imported high quality material. High quality raw materials preliminary determine the quality of the pipe but strict monitoring quality control system throughout whole procedure from raw material supply to final products manufactured.

With the growing market demand, Palconn all production lines have upgraded to the most advanced high-speed extrusion equipment, whole production lines adopt the imported new generation SIMENS PLC control system to ensure pipe quality and producing efficiency.

We take samples for inspection to check the accuracy of pipe dimension when producing. We print clear marks, date, standard, production code and other specification on pipe for tracking and resourcing.

We also adopts precise automated testing equipment to monitor the producing all the time, strictly guarantee the pipe outside diameter, wall thickness and OOR strictly in the tolerance of standard. The Ultrasonic probe will accurately test the unqualified pipe then cuts it automatically.

All monitoring results must meet ISO9001 standard and be recorded, factory interior implement zero-defect quality management.

There is no doubt we have a complete quality management system so you can trust our pipe quality.

PALCONN pipe has been approved by many third-party of international authoritative organization. Such as NSF, CSA, UPC, WRAS, SAI GLOBAL, TUV Rheinland, Bureau Veritas, INTERTEK, SGS, ANNB, UKAS, CE certificates.

If you need reliable, efficient and high cost performance pipe system, Palconn will be your best choice.



Cross-linking polyethylene PE-X pipe

Physical Performance Index for PE-Xa pipe:

Term	Unit	Technique Index
Density	g/cm ³	≥ 0.94
Cross linking degree	%	≥ 70
Vicat softening point	°C	133
Thermal conductivity coefficient	w/m.k	0.4
Longitudinal reversion	%	≤ 3.0
Thermal oxidation life	year	> 50
Hydraulic resistance performance	Short-term	20°C, hoop stress 12Mpa: 1h, not cracking, no leakage 95°C, hoop stress 4.8Mpa: 1h, not cracking, no leakage
	Long-term	95°C, hoop stress 4.6Mpa: 165h, not cracking, no leakage 95°C, hoop stress 4.4Mpa: 1000h, not cracking, no leakage 110°C, hoop stress 2.5Mpa: 8760h, not cracking, no leakage

Physical Performance Index for PE-Xb pipe:

Term	Unit	Technique Index
Density	g/cm ³	≥ 0.94
Cross linking degree	%	≥ 65
Vicat softening point	°C	133
Thermal conductivity coefficient	w/m.k	0.4
Longitudinal reversion	%	≤ 3.0
Thermal oxidation life	year	> 50
Hydraulic resistance performance	Short-term	20°C, hoop stress 12Mpa: 1h, not cracking, no leakage 95°C, hoop stress 4.8Mpa: 1h, not cracking, no leakage
	Long-term	95°C, hoop stress 4.6Mpa: 165h, not cracking, no leakage 95°C, hoop stress 4.4Mpa: 1000h, not cracking, no leakage 110°C, hoop stress 2.5Mpa: 8760h, not cracking, no leakage

PEX-a Pipe



PN1.25Mpa

Size (MM)	Wall thickness (MM)
16	1.8
20	1.9
25	2.3
32	2.9

PN1.6Mpa



Size (MM)	Wall thickness (MM)
16	1.8
20	2.3
25	2.8
32	3.6

PN2.0Mpa



Size (MM)	Wall thickness (MM)
16	2.2
20	2.8
25	3.5
32	4.4

PEX-b Pipe



PN1.25Mpa

Size (MM)	Wall thickness (MM)
16	1.8
20	1.9
25	2.3
32	2.9

PN1.6Mpa



Size (MM)	Wall thickness (MM)
16	1.8
20	2.3
25	2.8
32	3.6

PN2.0Mpa



Size (MM)	Wall thickness (MM)
16	2.2
20	2.8
25	3.5
32	4.4



EVOH PEX-a Oxygen Barrier Pipe

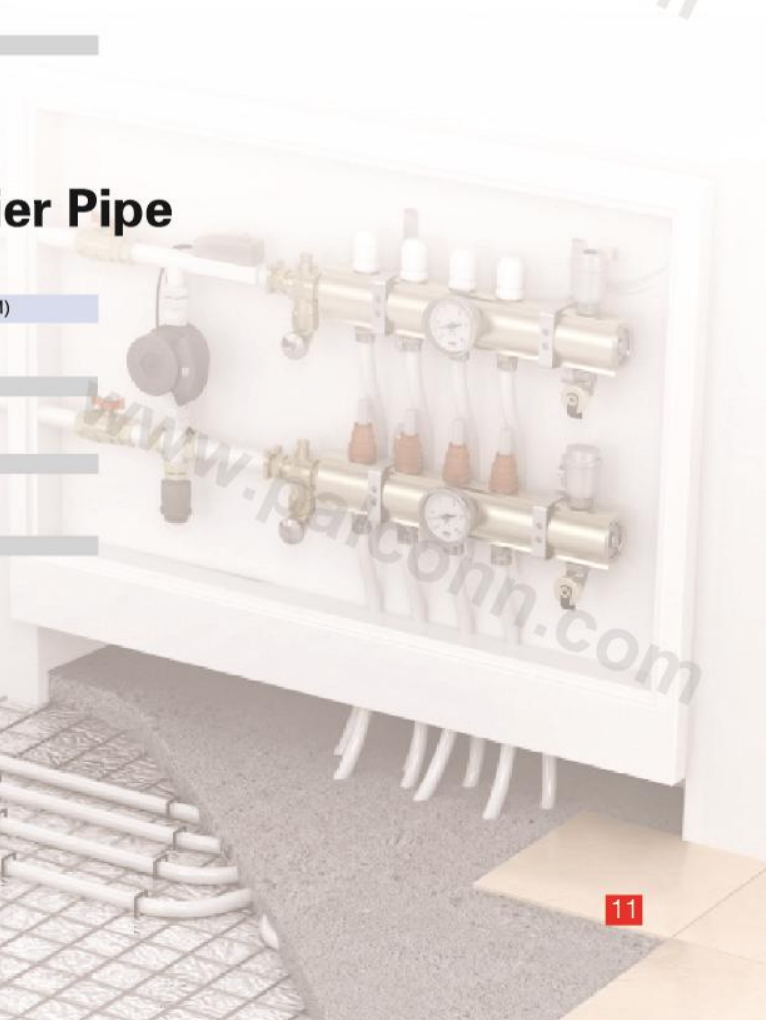


Size (MM)	Wall thickness (MM)
16	2.0
16	2.2
20	2.0
20	2.8
25	3.5
32	4.4

EVOH PEX-b Oxygen Barrier Pipe



Size (MM)	Wall thickness (MM)
16	2.0
16	2.2
20	2.0
20	2.8
25	3.5
32	4.4



Anti-UV PEX Pipe

General introduction:

PALCONN brand anti-UV silane crosslinked polyethylene (PEX-Anti UV) pipe is a newly developed top-tech products by Beijing University of Chemical and PALCONN in cooperation, which adopted the world's most advanced onestep silane crosslinked polyethylene production technology, and produced according to Germany standard DIN 1689297 production, an internal initiative and won the National Award for high-tech products.

Application:

1. Solar facilities systems;
2. Drink water systems;
3. Hot and cold water systems;
4. Central air-conditioning systems;
5. Agriculture irrigation systems;
6. Rain water and swimming pool pipe network systems.

Specific:



PN2.0MPA

Size (MM)	Wall thickness (MM)
16	2.2
20	2.8
25	3.5
32	4.4

	BLACK	Hot&cold potable water
	GREEN	Rainwater
	LILAC	Recycled water(non-potable)
	PINK	Hydronic heating
	RED	Hot water
	CONDUIT	In/under slab hot&cold water

PEX-AL-PEX Multiayer Pipe

I .Pipe Description:

PEX-AL-PEX composite pipe is composite pipe of five layers,inside and outside layers of which are made of Cross-Linked(PEX),tightly bonded with melt adhesive to the mid-layer of aluminum core which is longitudinally welded in a butt-welded or overlap-welded way,this kind of pipe is the perfect union of metal and the plastic ones

III .Application:

1. Under floor heating;
2. Heating system of Cali duct and wall,the equipment for snow melting in cold regions;
3. Heat and cold pipes for life,solar energy water heater,irrigation engineer in agriculture;
4. Pipes for coal gas and natural gas,air-condition and blower;
5. Pipes for electric wire and cable;
6. Pipes for oil and industrial liquids transportation.

IV.Pipe size range



Overlapped welding

Size(mm)
1216
1620
2026
2632



Butt welding

Size(mm)
1216
1620
2026
2632



Palconn Pex hose

Palconn Pex hose is made of excellent and high purity raw material which achieved the KTW certificate. It can be used in hot and cold drinking water, acid and alkali, with an excellent resistance to the reducing agent, oxidant, toluene, xylene and gasoline.

German technology, small ergonomic ideas hidden in the design and 360° rotating structure.

Palconn high-tech flex hoses have earned a reputation for reliability and quality of product.

Advantages

Instead of EPDM material.

No harmful effect on human life

Environment friendly

Application

Palconn Pex hose is a new high-tech products widely used in drinking water and sanitary accessory.

Working pressure is 10 bar in sanitary applications.

Hardness can be shore A 65-95

Pex hose size range

Size (mm)
5 × 8
6 × 8
6.5 × 8.5
6 × 9
7 × 9
7 × 10
7.5 × 10.5
7.8 × 11
10.0 × 14.0
11.5 × 13.5
12.0 × 16.0



Pipe In pipe Corrugated Conduits



Specification	Color
20mm	Red
25mm	Blue
32mm	Yellow
40mm	Black

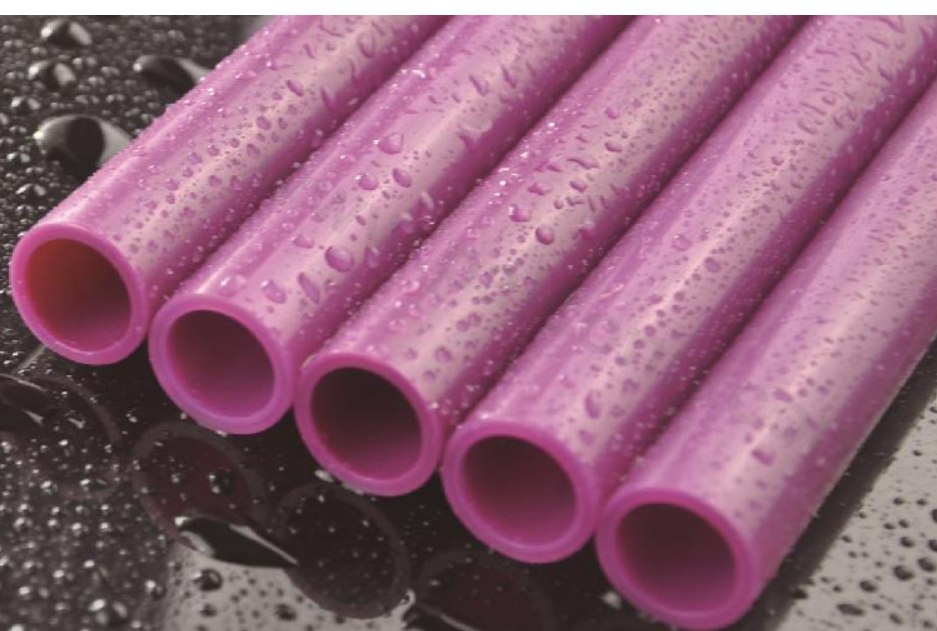
Plastic Box



Plastic Box For Wallplate Elbow



Specification	Color
16mmx1/2"	Red
20mmx1/2 "	Blue
25mm x 1/2"	Black



PE-RT Pipe



PN1.25Mpa

Size (MM)	Wall thickness (MM)
16	2.0
20	2.0
25	2.3
32	2.9



PN1.6Mpa

Size (MM)	Wall thickness (MM)
16	2.0
20	2.3
25	2.8
32	3.6



PN2.0Mpa

Size (MM)	Wall thickness (MM)
16	2.2
20	2.8
25	3.5
32	4.4

PE-RT Oxygen Barrier Pipe



Size (MM)	Wall thickness (MM)
16	2.0
16	2.2
20	2.0
20	2.8
25	3.5
32	4.4

Sliding Brass Fittings



Connecting Barb to Copper

Spec

S16-1/2COP S16-3/4COP S20-3/4COP S25-1COP



Male Elbow

Spec

L16-1/2M L20-1/2M L20-3/4M L25-3/4M



Female Elbow with Wing

Spec

L16-1/2FZ L16-3/4FZ L20-3/4FZ



Flared Copper Compression Union

Spec

S16-Y13 S20-Y13 S20-Y19



Equal Straight

Spec

SU16-16 SU20-20 SU25-25 SU32-32



Copper Ring

Spec

CK16 CK20 CK25 CK32



Female Straight

Spec

S16-1/2F S20-1/2F S20-3/4F S25-3/4F S25-1F



Reduced Straight

Spec

SR20-16 SR25-16 SR25-20 SR32-25



Equal Elbow

Spec

LL16-16 LL20-20 LL25-25 LL32-32



Cap

Spec

D16 D20



Equal Tee

Spec

TT16-16-16

TT20-20-20

TT25-25-25

TT32-32-32



Female Elbow

Spec

L16-1/2F

L16-3/4F

L20-1/2F

L20-3/4F

L25-3/4F

L25-1F



Male Straight

Spec

S16-1/2M

S16-3/4M

S20-1/2M

S20-3/4M

S20-1M

S25-1/2M

S25-3/4M

S25-1M

S32-1M



Male Elbow with Wing

Spec

L16-M1/2Z-65MM

L16-M1/2Z-90MM

L16-M1/2Z-150MM

L16-M1/2Z-200MM

L20-M1/2Z-95MM

L20-M3/4Z-95MM



Reduced Tee

Spec

TR16-20-16

TN20-16-16

TN20-20-16

TR20-16-20

TR20-25-20

TN25-16-16

TR25-16-25

TN25-25-16

TN25-20-20

TR25-20-25

TN25-25-20

TN32-20-32

TN32-25-25

TN32-25-32

TN25-20-16

TN25-16-20

Installation Instructions



1. Cut pipe

To start the installation, the cut is a very important part of the finished joint. The cut must be clean and square. All Measurements between fittings should be measured shoulder and shoulder.



2. Pipe expansion

Slide the compression sleeve over the pipe, with the bevelled end facing the fittings being connected. Commence expanding the pipe by pulling the handle of the expanding tool as far as possible without straining or excessive force. Rotate pipe a few degrees and repeat the expansion process.



3. Completion of the joint

Place the fitting into the expanded pipe until the pipe reaches the pipe stop on the fittings. And slide the compression sleeve towards the fittings. Place the compression sleeve and fitting parallel within the jaws of the slide tool. Screw down the tool handle clockwise, the joint is completed when the compression sleeve reaches the shoulder of the fitting.

Brass Compression Fittings



Straight Nipple Double

Size(mm)

16x16 16x20 18x18 20x20 25x25 25x20 32x32



Straight Nipple Male

Size(mm)

16x1/2"M 16x3/4"M 18x1/2"M 18x3/4"M 20x1/2"M 20x3/4"M 25x3/4"M 25x1"M 32x3/4"M 32x1"M



Straight Nipple Female

Size(mm)

16x1/2"F 16x3/4"F 18x1/2"F 18x3/4"F 20x1/2"F 20x3/4"F 25x3/4"F 25x1"F 32x3/4"F 32x1"F



Wallplate Elbow Female

Size(mm)

16x1/2"F 16x3/4"F 18x1/2"F 18x3/4"F 20x1/2"F 20x3/4"F



Tee Female

Size(mm)

16x1/2"Fx16 16x3/4"Fx16 18x1/2"Fx18 18x3/4"Fx18 20x1/2"Fx20 20x3/4"Fx20 25x3/4"Fx25 25x1"Fx25 32x3/4"Fx32 32x1"Fx32



Brass Compression Fittings



Tee Male

Size(mm)

16x1/2"Mx16 16x3/4"Mx16 18x1/2"Mx18 18x3/4"Mx18 20x1/2"Mx20 20x3/4"Mx20 25x3/4"Mx25 25x1"Mx25 32x3/4"Mx32 32x1"Mx32



Tee

Size(mm)

16x16x16 18x18x18 20x20x20 16x20x16 20x16x16 20x16x20 20x20x16 25x25x25 25x16x25 25x20x25 32x32x32 20x16x20



Elbow Male

Size(mm)

16x1/2"M 16x3/4"M 18x1/2"M 18x3/4"M 20x1/2"M 20x3/4"M 25x3/4"M 25x1"M 32x3/4"M 32x1"M



Elbow Double

Size(mm)

16x16 18x18 16x20 20x20 25x25 32x32



Elbow Female

Size(mm)

16x1/2"F 16x3/4"F 18x1/2"M 18x3/4"M 20x1/2"F 20x3/4"F 25x3/4"F 25x1"F 32x3/4"F 32x1"F



Cross

Size(mm)

16x16x16x16 18x18x18x18 20x20x20x20 25x25x25x25 32x32x32x32

Installation Instructions



Step1

Cut Palconn PEX-AL-PEX pipe



Step2

Round and bevel the end of PEX-AL-PEX pipe



Step3

Install the compression fitting



Step4

Tighten the compression nut by spanner



Step5

Connection is complete



Step6

PRESS BRASS FITTINGS



Equal Straight

Spec			
SU16	SU20	SU25	SU32



Equal Tee

Spec		
TT16TT20	TT25	TT32



Reduced Straight

Spec					
SR20-16	SR25-16	SR25-20	SR32-16	SR32-20	SR32-25



Male Tee

Spec						
TM16-1/2	TM16-3/4	TM20-1/2	TM20-3/4	TM25-3/4	TM25-1	TM32-1



Cap

Spec		
D16	D20	D25



Equal Elbow

Spec			
LL16	LL20	LL25	LL32



Female elbow with wing

Spec		
EFW16-1/2	EFW20-1/2	EFW20-3/4



Male Straight

Spec

SM16-1/2 SM16-3/4 SM20-1/2 SM20-3/4 SM25-3/4 SM25-1 SM32-1



Female Straight

Spec

SF16-1/2 SF16-3/4 SF20-1/2 SF20-3/4 SF25-3/4 SF25-1 SF32-1



Female Tee

Spec

TF16-1/2 TF16-3/4 TF20-1/2 TF20-3/4 TF25-1/2 TF25-3/4 TF25-1 TF32-1



Reduced Tee 1

Spec

TR16-20-16 TR20-16-20 TR20-25-20 TR25-16-25 TR25-20-25 TR25-32-25 TR32-16-32 TR32-20-32 TR32-25-32



Male Elbow

Spec

EM16-1/2 EM16-3/4 EM20-1/2 EM20-3/4 EM25-3/4 EM25-1 EM32-1



Female Elbow

Spec

EF16-1/2 EF16-3/4 EF20-1/2 EF20-3/4 EF25-3/4 EF25-1 EF32-1



Reduced Tee 2

Spec

TN20-16-16 TN20-20-16 TN25-16-16 TN25-16-20 TN25-20-16 TN25-20-20 TN25-25-16

TN25-25-20 TN32-20-25 TN32-25-25 TN32-25-20 TN32-32-25

Installation Instructions

1.Preparation for pressing



Installing jaw on to the tool



Adjusting the pressing tool

2.Preparation for pipe & fittings



Pipe Cutting



Rounding and beveling



Inserting

3.Pressing



Brass Push-fit Fittings



Couplings

Size(mm)

16X16

20X20



Reducing Couplings

SPEC (mm)

16X20



Male Coupling

Size(mm)

16x1/2"M

25X3/4"M



Female Coupling

SPEC (mm)

16x1/2"F

25X3/4"F



Tee

Size(mm)

16

20



Reducing Tee

SPEC (mm)

20-16-16

20-20-16

20-16-20



Female Tee

Size(mm)

16X1/2"F

20X3/4"F

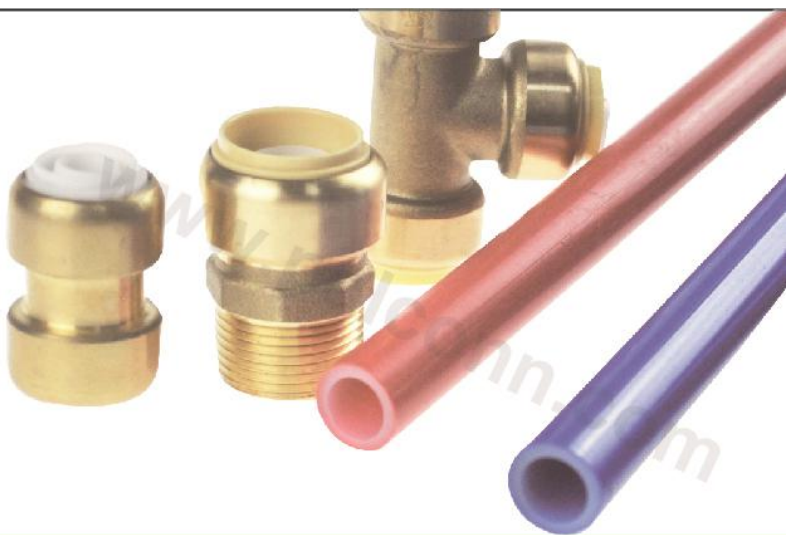


Elbow

SPEC (mm)

16

20



Brass Push-fit Fittings



Female Elbow

Size(mm)	
16X1/2"F	20X3/4"F



Male Elbow

SPEC (mm)	
16X1/2"M	20X3/4"M



Flared Copper Compression Union

Size(mm)	
16	



Back Plate Long Male Elbow

SPEC (mm)	
16X1/2"ML	



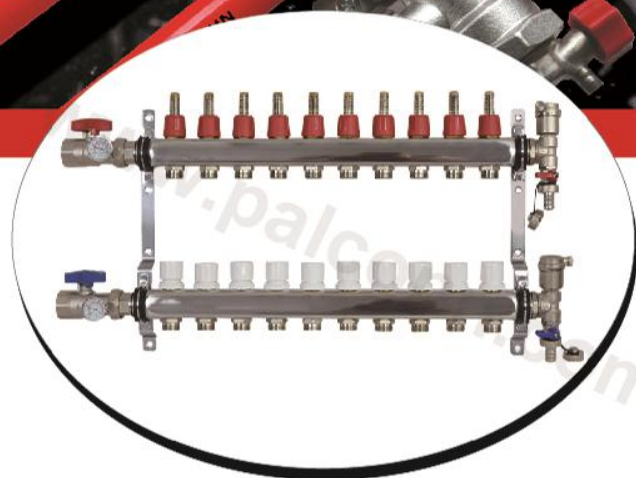
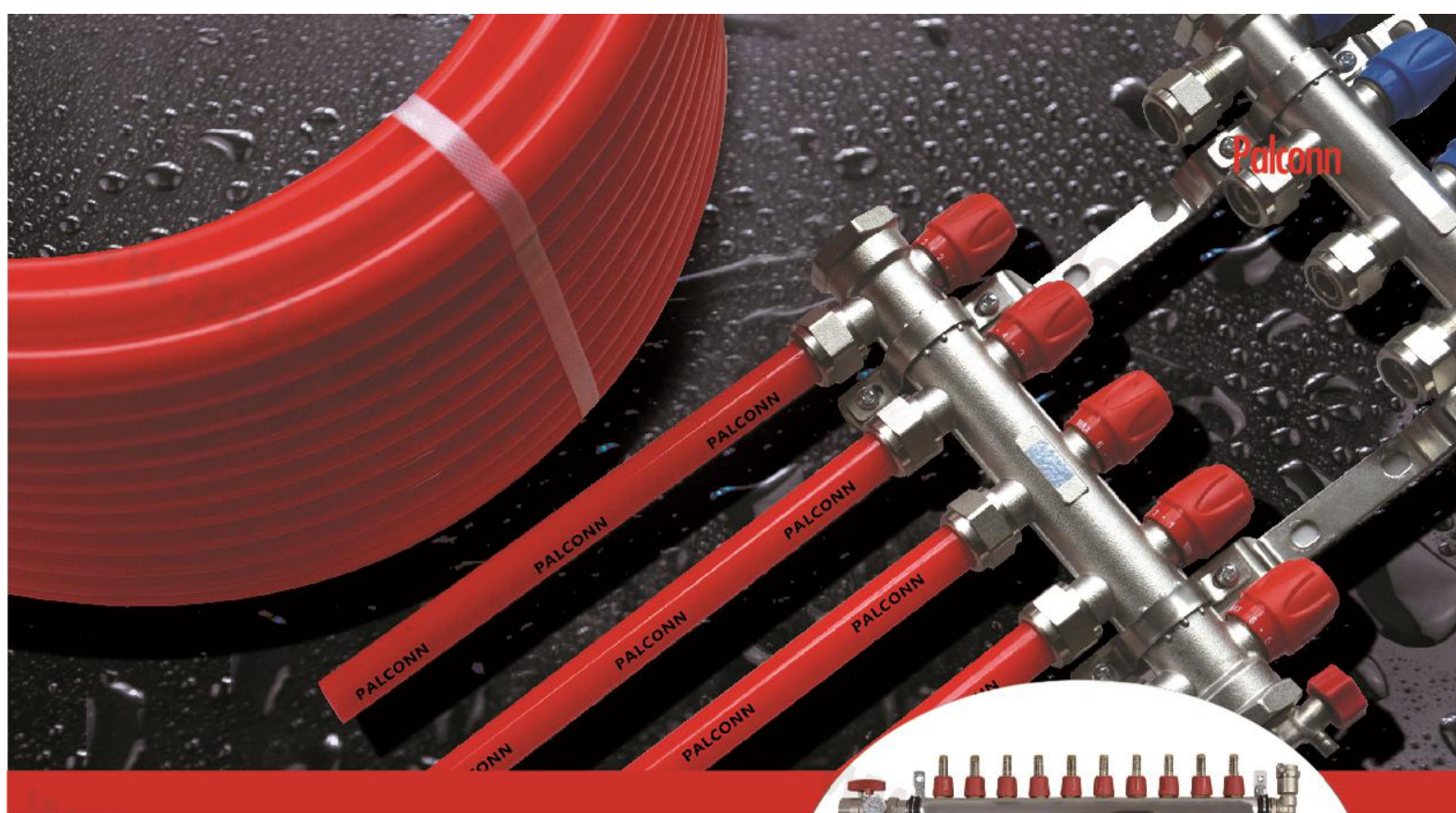
Cap

Size(mm)	
16	20



Disconnect clip

SPEC (mm)	
16	20



PAL-MFS Main body Stainless Steel

Specification		Loops	Connections
1"Caliber	1-1/4"Caliber	1	3/4"BSP
1"Caliber	1-1/4"Caliber	2	3/4"BSP
1"Caliber	1-1/4"Caliber	3	3/4"BSP
1"Caliber	1-1/4"Caliber	4	3/4"BSP
1"Caliber	1-1/4"Caliber	5	3/4"BSP
1"Caliber	1-1/4"Caliber	6	3/4"BSP
1"Caliber	1-1/4"Caliber	7	3/4"BSP
1"Caliber	1-1/4"Caliber	8	3/4"BSP
1"Caliber	1-1/4"Caliber	9	3/4"BSP
1"Caliber	1-1/4"Caliber	10	3/4"BSP
1"Caliber	1-1/4"Caliber	11	3/4"BSP
1"Caliber	1-1/4"Caliber	12	3/4"BSP



PAL-MFB

- 1.Brass intelligent manifold,material:brass nickel coated
- 2.From 2 way –6 way

Material: Brass

Size
3/4" F-1/2FX2
3/4" F-1/2FX3
3/4" F-1/2FX4
3/4" F-1/2FX5
3/4" F-1/2FX6
1" F-1/2FX2
1" F-1/2FX3
1" F-1/2FX4
1" F-1/2FX5
1" F-1/2FX6



PALCONN TOOLS

The moulds can be replaceable, the head can be rotated 360°



Tool specification	Weight
φ 12, 14, 16, 18, 20, 25, 26, 32(mm)	4.3(kg)

Expander heads can be changeable



Application range	Weight
φ 16- φ 32	0.8(kg)

The moulds can be replaceable



Specifications	Weight
φ 16, φ 20, φ 25, φ 32	3.1(kg)

The moulds can be replaceable



Application range	Weight
φ 16- φ 32	4(kg)

Pipe cutter



Pipe reamer



PE(x)-Al-PE(x) GAS pipe

PALCONN GAS Pipe is multi-layered, incorporating a layer of aluminum between an inner of HDPE(PE-X) and an outer of HDPE(PE-X).

This combination gives stability while still being flexible and strong. PALCONN GAS Pipe complies and is manufactured in accordance with the standards as set out in AS4176 and ISO 17484.



GAS Pipe Range

Model No.	Size(mm)	Package(m/Coil)
16mm	16*2.0mm	100
20mm	20*2.0mm	100
25mm	25*2.5mm	50
32mm	32*3.5mm	50

Female Straight



Model No.	Size(mm)
SF16-1/2	16mm*1/2"
SF16-3/4	16mm*3/4"
SF20-1/2	20mm*1/2"
SF20-3/4	20mm*3/4"
SF25-3/4	25mm*3/4"
SF25-1	25mm*1"
SF32-1	32mm*1"

Male Elbow



Model No.	Size(mm)
EM16-1/2	16mm*1/2"
EM16-3/4	16mm*3/4"
EM20-1/2	20mm*1/2"
EM20-3/4	20mm*3/4"
EM25-3/4	25mm*3/4"
EM25-1	25mm*1"
EM32-1	32mm*1"

Male Straight



Model No.	Size(mm)
SM16-1/2	16mm*1/2"
SM16-3/4	16mm*3/4"
SM20-1/2	20mm*1/2"
SM20-3/4	20mm*3/4"
SM25-3/4	25mm*3/4"
SM25-1	25mm*1"
SM32-1	32mm*1"

Female Elbow



Model No.	Size(mm)
EF16-1/2	16mm*1/2"
EF16-3/4	16mm*3/4"
EF20-1/2	20mm*1/2"
EF20-3/4	20mm*3/4"
EF25-3/4	25mm*3/4"
EF25-1	25mm*1"
EF32-1	32mm*1"

Equal Straight



Model No.	Size(mm)
SU16	16mm
SU20	20mm
SU25	25mm
SU32	32mm

Equal Tee



Model No.	Size(mm)
TT16	16-16-16mm
TT20	20-20-20mm
TT25	25-25-25mm
TT32	32-32-32mm

Unequal Tee



Model No.	Size(mm)
TR16-20-16	16-20-16mm
TR20-16-20	20-16-20mm
TR20-25-20	20-25-20mm
TR25-16-25	25-16-25mm
TR25-20-25	25-20-25mm
TR25-32-25	25-32-25mm
TR32-16-32	32-16-32mm
TR32-20-32	32-20-32mm
TR32-25-32	32-25-32mm

Reduced Straight



Model No.	Size(mm)
SR20-16	20mm-16mm
SR25-16	25mm-16mm
SR25-20	25mm-20mm
SR32-20	32mm-20mm
SR32-25	32mm-25mm

Butterfly Valve



Model No.	Size(mm)
BV16	16MM
BV20	20MM
BV25	25MM
BV32	32MM

Installation Instructions



PEX-AI-PEX pipe for Air Conditioning System

PALCONN PEX-AI-PEX pipe is a new pipe for application in air-conditioning system.

It is the new generation that unites the advantage of plastic pipes and copper pipes offers the high degree of flexibility and toughness, coupled with high pressure and temperature resistance.



PEX-AI-PEX pipe

Size(mm)	Pakage(m)
PAL-0912	100/200
PAI-1216	100/200
PAL-1620	100/200

Air-Conditioning Fittings



Equal Straight	
ES/12	12*12mm
ES/16	16*16mm
ES/20	20*20mm



Female Straight	
FS/12716	12mm*7/16UNF
FS/1258	12mm*5/8UNF
FS/1634	16mm*3/4UNF
FS/2078	20mm*7/8UNF

Installation Instructions



Step1
Cut the pipe by PALCONN cutter



Step2
Choose the right size of fittings according to the pipe, put the nut over the pipe, slide the compression ring over the pipe, make the mouth of nut and the pipe face the same direction.



Step3
Screw the fitting body into the service valve of air conditioner put the pipe into the fittings.



Step4
Use a spanner to screw the nut of fitting tight.

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