

aquasmart **PEX Monolayer piping system**
 aquasmart**PEX Mono PEX Pipe**



Code	Description	Std Pack	Std Pack'g (Unit)
XP20-100-SDR11	Mono PEX Pipe PN12.5/SDR11-12.5 Bar @ 20°C; 6 Bar @ 95°C; D=20mm, th 2.0mm; 100m Coil	1	PACK
XP20-200-SDR11	Mono PEX Pipe PN12.5/SDR11-12.5 Bar @ 20°C; 6 Bar @ 95°C; D=20mm, th 2.0mm; 200m Coil	1	PACK
XP25-50-SDR11	Mono PEX Pipe PN12.5/SDR11-12.5 Bar @ 20°C; 6 Bar @ 95°C; D=25mm, th 2.3mm; 50m Coil	1	PACK
XP25-100-SDR11	Mono PEX Pipe PN12.5/SDR11-12.5 Bar @ 20°C; 6 Bar @ 95°C; D=25mm, th 2.3mm; 100m Coil	1	PACK
XP32-50-SDR11	Mono PEX Pipe PN12.5/SDR11-12.5 Bar @ 20°C; 6 Bar @ 95°C; D=32mm, th 2.9mm; 50m Coil	1	PACK
XP16-100-SDR9	Mono PEX Pipe PN16/SDR9-16 Bar @ 20°C; 6 Bar @ 95°C; D=16mm; th 2.0mm; 100m Coil	1	PACK
XP16-200-SDR9	Mono PEX Pipe PN16/SDR9-16 Bar @ 20°C; 6 Bar @ 95°C; D=16mm; th 2.0mm; 200m Coil	1	PACK
XP16-100-SDR7.4	Mono PEX Pipe PN20/SDR7.4 -20 Bar @ 20°C; 10 Bar @ 95°C; D=16mm, th 2.2mm; 100m Coil	1	PACK
XP16-200-SDR7.4	Mono PEX Pipe PN20/SDR7.4 -20 Bar @ 20°C; 10 Bar @ 95°C; D=16mm, th 2.2mm; 200m Coil	1	PACK
XP20-100-SDR7.4	Mono PEX Pipe PN20/SDR7.4 -20 Bar @ 20°C; 10 Bar @ 95°C; D=20mm, th 2.8mm; 100m Coil	1	PACK
XP20-200-SDR7.4	Mono PEX Pipe PN20/SDR7.4 -20 Bar @ 20°C; 10 Bar @ 95°C; D=20mm, th 2.8mm; 200m Coil	1	PACK
XP25-50-SDR7.4	Mono PEX Pipe PN20/SDR7.4 -20 Bar @ 20°C; 10 Bar @ 95°C; D=25mm, th 3.5mm; 50m Coil	1	PACK
XP25-100-SDR7.4	Mono PEX Pipe PN20/SDR7.4 -20 Bar @ 20°C; 10 Bar @ 95°C; D=25mm, th 3.5mm; 100m Coil	1	PACK
XP32-50-SDR7.4	Mono PEX Pipe PN20/SDR7.4 -20 Bar @ 20°C; 10 Bar @ 95°C; D=32mm, th 4.4mm; 50m Coil	1	PACK



aquasmart**PEX PEX Corrugated Protective Sleeve**

Code	Description	Internal Diameter (mm)	Outer Diameter (mm)	Suitable for PEX pipe diameter (mm)	Std Pack	Std Pack'g (Unit)
XP16-50-CRS/RD	PEX Corrugated Protective Sleeve (Red); 16 - 20mm; 50m Coil	21	25	16	1	COIL
XP20-50-CRS/RD	PEX Corrugated Protective Sleeve (Red); 16 - 20mm; 50m Coil	25	32	20	1	COIL
XP25-50-CRS/RD	PEX Corrugated Protective Sleeve (Red); 25mm; 50m Coil	32	37	25	1	COIL
XP32-50-CRS/RD	PEX Corrugated Protective Sleeve (Red); 32mm; 50m Coil	39	42	32	1	COIL
XP16-50-CRS/BL	PEX Corrugated Protective Sleeve (Blue); 16 - 20mm; 50m Coil	21	25	16	1	COIL
XP20-50-CRS/BL	PEX Corrugated Protective Sleeve (Blue); 16 - 20mm; 50m Coil	25	32	20	1	COIL
XP25-50-CRS/BL	PEX Corrugated Protective Sleeve (Blue); 25mm; 50m Coil	32	37	25	1	COIL
XP32-50-CRS/BL	PEX Corrugated Protective Sleeve (Blue); 32mm; 50m Coil	39	42	32	1	COIL



Dimensions of Aquasmart PEX pipes

Outer diameter (mm)	SDR 7.4 - PN 20 - 20 Bar @ 95°C		SDR 9 - PN 16 - 16 Bar @ 95°C		SDR 11-PN 12.5-12.5 Bar @ 95°C	
	Wall Thickness (mm)		Wall Thickness (mm)		Wall Thickness (mm)	
	Min	Max	Min	Max	Min	Max
16	2.2	2.7	1.8	2.2	1.5	1.9
20	2.8	3.3	2.3	2.8	1.9	2.3
25	3.5	4.1	2.8	3.3	2.3	2.8
32	4.4	5.1	3.6	4.2	2.9	3.4

AquasmartPEX pipe allows easy and quick installation of sanitary and heating systems.

When installing it is necessary to follow the simple instructions referring to the connections of the pipes with the proper adaptors, bending of the pipes, protection from sun rays, and possible damages of the pipe or the protective sleeve by cracking.

- The connection to manifolds or to sanitary connections for the taps must be done using adaptors in the correct size.
- In order to make a correct connection, it is necessary to cut the pipe precisely and perpendicularly to its axis by the proper cutter.
- Pliability of the pipe is only guaranteed when the bends have a minimum radius eight times more than the outside diameter of the pipe.
- Do not heat the pipe with naked flame or any other heating sources with high temperatures, as this will cause the pipes to melt.
- Upon the completion installation of the pipe it is recommended that the system be pressure tested to ensure there are no leakages.
- After the pressure test, the sleeves must be protected by covering them with concrete, to avoid cracking the pipes and movement of the installation.
- Where the pipes are visible they must be protected against ultra violet rays, capable of altering the chemical-physical features.
- When the pipe is installed without the protective sleeve, it must be covered by a screed of at least 1.5 cm, to avoid fissures due to expansion of the pipe.
- In case the pipe is damaged due to incidental causes and must be replaced, traction fitting article must be used.

It is widely recommended that in order to established a consistent and leak free joint, it is necessary to follow AquasmartPEX jointing procedure for screw fittings.

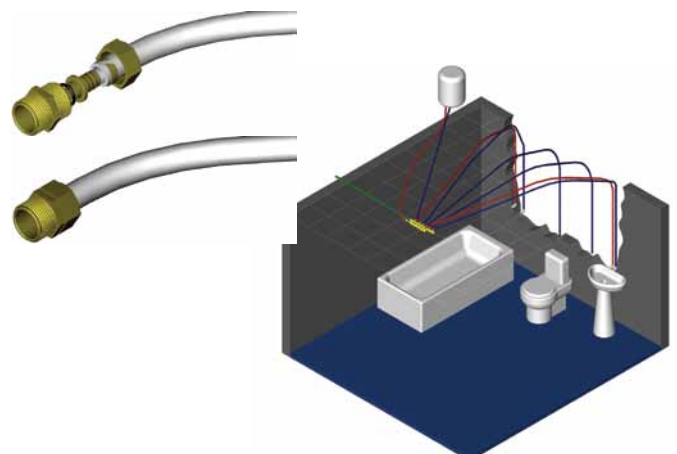
- Always use Special pipe cutters to cut and prepare the pipe. Make sure that a straight

cut is made.

- Use a level for correct positioning of Elbow Box.
- Select the right size screw brass fitting according to the pipe size. Put the nut on the pipe. Make sure the female side of the nut and the pipe end are on the same side. Slide the compression crimp ring over the pipe.
- Do not apply lubricant or pipe dope on the insert fitting.
- Position crimp ring 3 to 6mm from end of tubing. To prevent ring from moving, squeeze the ring slightly with spanner.
- Keeping both ring and tool square with tube. DO NOT CRIMP TWICE. It is recommended that each crimped ring be checked with the appropriate gauge.

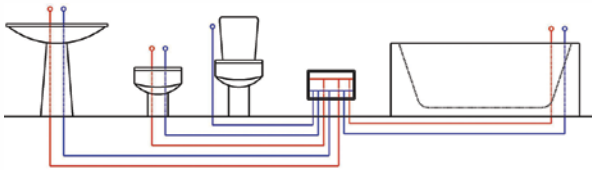
PEX Piping Supports

- Plastic Brackets and or straps can be used. Supports that damage the pipes should not be used. Support should allow free pipe movement.
- Although metal supports which are designed for use with plastic pipes can be used, but should be avoided. In any case, all supports should be inspected for sharp edges before use to ensure that they do not damage the pipe.



Types of Manifold Connection Networks

Standard Direct Connection



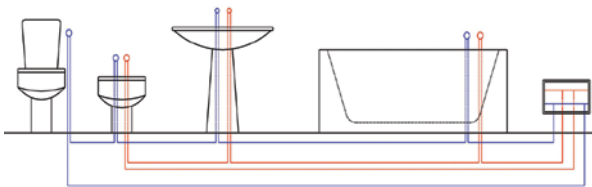
Advantage:

1. Zone maintenance is possible.
2. No effect of pressure or flow between appliances.

Disadvantages:

1. More piping quantity and space is required.

Distribution In-Series



Advantages:

1. Less piping required.
2. Fast Installation.

Disadvantages:

1. Effect on one appliance on the next.
2. Maintenance requires complete shut-off of circuit.

Handling and Storing AquasmartPEX Piping System

- AquasmartPEX pipes should be stored well covered in order to keep the pipes clean and avoid exposure to sunlight. Consult aquasmartPEX for recommended limits for outside storage.
- aquasmartPEX pipes should be stored in a way to protect the system from mechanical damage (slitting, puncturing, etc.)
- Do not drag the aquasmartPEX pipes over rough terrain, rocks, or any surface that can cut, puncture, or damage the pipes wall.
- Do not crush or kink the aquasmartPEX pipes. Inspect all pipes before and after installation. Cut out and replace all damaged sections.

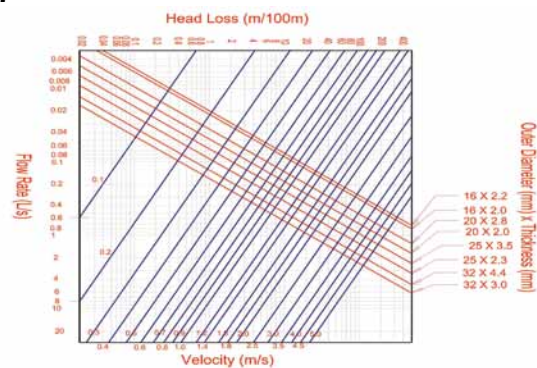
Pressure Loss

The pressure losses in PEX pipes can be assessed

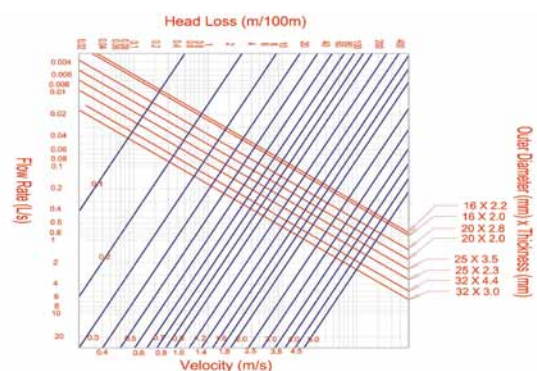
by the following chart. The chart represents performance at 80°C. The deterioration curves indicate life of the piping system, depending on the fluid pressure, temperature and hoop stress created in the pipe.

Due to smooth pipe surface, aquasmartPEX pipes have very low coefficient of friction compared to the metallic pipes. Moreover, no chemical reaction takes place between the pipe and calcium and magnesium carbonates in the water and no reduction in cross section occurs, thus giving constant pressure losses in long term use.

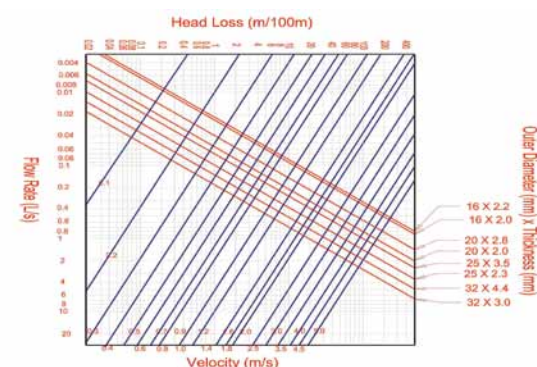
Pressure Loss Diagram for AquasmartPEX pipes @10°C



Pressure Loss Diagram for AquasmartPEX pipes @50°C



Pressure Loss Diagram for AquasmartPEX pipes @80°C





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www.aquaarab.com

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info@aquaarab.com

sales@aquaarab.com

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