



# PRO AQUA

AXIAL SYSTEMS



**HIGH**  
QUALITY

# PRO AQUA crosslinked PE-Xa EVOH pipes SDR 7.4

Universal pipes made of cross-linked polyethylene PE-Xa with an antidiffusion layer EVOH are suitable for hot and cold water supply systems, high-temperature radiator heating and floor heating systems.

## Specifications:

Average coefficient of expansion	0,15 mm/m°C
Thermal conductivity	0,35 W/m°C
Pipe roughness	0,007 mm
Density	938 kg/m <sup>3</sup>
Tensile strength at 20° C	22 MPa
Crosslinking degree	≥70%
Oxygen diffusion	≤0,1 g/m <sup>3</sup> day
Minimum bending radius	5 x D with pipe bend former

## Advantages of pipes PRO AQUA PE-Xa/EVOH

- + Unique additional continuous control for crosslinking degree, wall thickness and diameter of pipe
- + Flexible elastic PE-Xa pipe is easy to install
- + EVOH layer prevent oxygen ingress and corrosion metallic parts of system
- + Application in drinking water systems is verified with certificate
- + Possibility to repair pipe without loss of operational characteristics after breaks in the process of careless laying
- + Special packaging guaranteed pipe safety during transportation
- + Fully compatibility of SDR 7.4 silver pipe with axial fittings makes it possible to mount the pipe conveniently and reliably



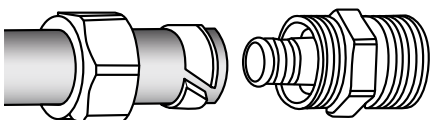
## PE-Xa Pipe with oxygen barrier EVOH red Standard: S 3.5, S 4.5 Series

Maximum pressure	bar for 16x2,0 bar for 20x2,0
Maximum operating temperature	90 °C
Warranty	10 years
Service life	min 50 years, for all classes of operation

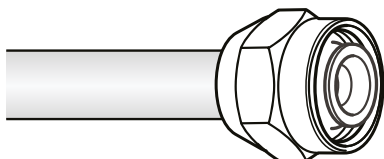


De x S, mm	Meters per coil	Code number
16 x 2,0	100 m	PXA.03.06.100.R
16 x 2,0	200 m	PXA.03.06.200.R
16 x 2,0	500 m	PXA.03.06.500.R
20 x 2,0	100 m	PXA.03.08.100.R
20 x 2,0	200 m	PXA.03.08.200.R

- Pipe connection performed with compression fittings



- Connection with manifolds is performed with Eurocone fittings



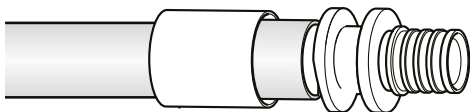
## PE-Xa Pipe with oxygen barrier EVOH silver Standard: SDR 7.4 (S 3.2 Series)

Maximum pressure	10 bar
Maximum operating temperature	90 °C
Warranty	10 years
Service life	min 50 years, for all classes of operation

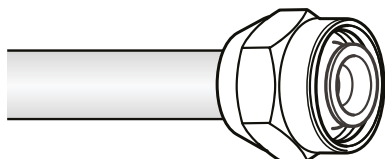


De x S, mm	Meters per coil	Code number
16 x 2,2	120 m	PXA.04.06.120.S
16 x 2,2	240 m	PXA.04.06.240.S
16 x 2,2	500 m	PXA.04.06.500.S
20 x 2,8	120 m	PXA.04.08.120.S
25 x 3,5	50 m	PXA.04.10.050.S
32 x 4,4	50 m	PXA.04.12.050.S
40 x 5,5	50 m	PXA.04.14.050.S

- Pipe connection performed with axial fittings



- Connection with manifolds is performed with Eurocone fittings



# Axial fittings PRO AQUA

Axial fittings PRO AQUA with sliding sleeve are designed for connection PE-Xa and PE-RT pipes SDR 7.4 (S 3.2) in hot and cold watersupply, heating systems included surface heating systems

## Specifications:

Material:	Brass CW617N
Maximum operating temperature	95 °C
Maximum pressure:	10 bar at 95 °C, 20 bar at 20 °C
Warranty	10 years
Service life	min 50 years

## Advantages of axial fittings PRO AQUA

- + Increased strenght of brass products - do not crack from mechanical impact
- + Connection is stronger than a pipe - used with concrete screed
- + No ageing rubber connections - no tightening or replacement required
- + Reusable - less material consumption in case of installation errors by insufficiently trained personnel
- + Wide range - ease to choose for any requirements
- + Do not narrow the passage cross-section - less hydraulic resistance of the circulation circuit and longer pump life





### Sleeve

Size	Code
16	AX10016ST
20	AX10020ST
25	AX10025
20	AX10032
25	AX10040



### Sleeve

Size	Code
16	AX10016
20	AX10020



### Coupling

Size	Code
16x16	AX11016
20 x 20	AX11020
25 x 25	AX11025
32 x 32	AX11032
40 x 40	AX11040



### Reducing coupling

Size	Code
16 x 20	AX101620
16 x 25	AX102516
20 x 25	AX102520
25 x 32	AX103225
25 x 40	AX102540
32 x 40	AX103240



### Coupling M

Size	Code
16 x 1/2"	AX1701612
16 x 3/4"	AX1701634
20 x 1/2"	AX1702012
20 x 3/4"	AX1702034
25 x 1/2"	AX1702512
25 x 1"	AX1702501
25 x 3/4"	AX1702534
32 x 1"	AX1703201
32 x 3/4"	AX1703234
40x1 1/4"	AX17040114



### Coupling F

Size	Code
16 x 1/2"	AX1801612
16 x 3/4"	AX1801634
20 x 1/2"	AX1802012
20 x 3/4"	AX1802034
25 x 3/4"	AX1802534
25 x 1"	AX1802501
32 x 1"	AX1803201



### Elbow 90°

Size	Code
16 x 16	AX3009016
20 x 20	AX3009020
25 x 25	AX3009025
32 x 32	AX3009032
40 x 40	AX3009040



### Coupling with union nut

Size	Code
16 x 1/2"	AX6001612
16 x 3/4"	AX6001634
20 x 1/2"	AX6002012
20 x 3/4"	AX6002034
25 x 3/4"	AX6002534
32 x 1"	AX6003201
40x1 1/2"	AX60040112



### Coupling with union nut Eurocone

Size	Code
16x3/4"EK	AX6001634.EK
20x3/4"EK	AX6002034.EK



### Elbow 90° with union nut

Size	Code
16 x 1/2"	AX3501612NG
20 x 1/2"	AX3502012NG
20 x 3/4"	AX3502034NG
25 x 3/4"	AX3502534NG



### Elbow 90° M

Size	Code
16 x 1/2"	AX3301612
16 x 3/4"	AX3301634
20 x 1/2"	AX3302012
20 x 3/4"	AX3302034
25 x 3/4"	AX3302534
32 x 1"	AX3303201



### Elbow 90° F

Size	Code
16 x 1/2"	AX3501612
16 x 3/4"	AX3501634
20 x 1/2"	AX3502012
20 x 3/4"	AX3502034
25 x 3/4"	AX3502534
32 x 1"	AX3503201



### Long elbow with wall mount

Size	Code
16 x 1/2"	AX5001612L



### Elbow 90° with wall mount

Size	Code
16 x 1/2"	AX5001612
20 x 1/2"	AX5002012



### Tee F

Size	Code
16x1/2"x16	AX9161216
20x1/2"x20	AX9201220
25x3/4"x25	AX9253425



### Eurocone flat seal adapter

Size	Code
3/4"	AXB.650.EK



### Plug

Size	Code
16	AXB.630.16
20	AXB.630.20
25	AXB.630.25



### Union connectors

Size	Code
16 x 2,2	AX411622E
20 x 2,8	AX412028E



### Union connector G3/4-15

Size	Code
15x3/4"	AX415134

### L-type radiator tube

Size	Code
250 x 16	AX716250
300 x 16	AX716300
500 x 16	AX716500
750 x 16	AX716750
1000 x 16	AX7161000
250 x 20	AX720250
300 x 20	AX720300
500 x 20	AX720500
750 x 20	AX720750
1000 x 20	AX7201000



### T-type radiator tube

Size	Code
250 x 16	AX416250
300 x 16	AX416300
500 x 16	AX416500
750 x 16	AX416750
1000 x 16	AX4161000
250 x 20	AX420250
250 x 20 x 16	AX42016250
250 x 16 x 20	AX41620250
250 x 25 x 20	AX42520250
250 x 20 x 25	AX42025250
300 x 20	AX420300
500 x 20	AX420500
750 x 20	AX420750
1000 x 20	AX4201000



### Tee

Size	Code
16x16x16	AX20016
20x20x20	AX20020
25x25x25	AX20025
32x32x32	AX20032
40x40x40	AX20040



### Reducing tee

Size	Code
16x20x16	AX8162016
20x16x20	AX8201620
20x20x16	AX8202016
20x25x20	AX8202520
20x16x16	AX8201616
20x25x16	AX8202516
25x16x16	AX8251616
25x16x25	AX8251625
25x20x16	AX8252016
25x20x20	AX8252020
25x20x25	AX8252025
25x25x16	AX8252516
25x25x20	AX8252520
25x32x25	AX8253225
25x20x32	AX8322025
25x25x32	AX8322525
25x16x20	AX8251620
32x16x32	AX8321632
32x20x32	AX8322032
32x25x32	AX8322532
40x20x40	AX8402040
40x25x40	AX8402540
40x32x32	AX8403232
40x32x40	AX8403240

## Specifications:

Material of sleeves	PVDF
Materials of fittings	PPSU
Maximum operational temperature	90 °C
Maximum pressure	10 bar

### Sleeve PVDF



Size	Code
16	AXP.100.16.E
20	AXP.100.20.E
25	AXP.100.25.E
32	AXP.100.32.E

### Tees



Size	Code
16	AXP.320.16
20	AXP.320.20
25	AXP.320.25
32	AXP.320.32

### Coupling



Size	Code
16	AXP.120.16
20	AXP.120.20
25	AXP.120.25
32	AXP.120.32

### Reducing tee

Size	Code
16×20×16	AXP.330.162016
20×16×16	AXP.330.201616
20×16×20	AXP.330.201620
20×20×16	AXP.330.202016
20×25×16	AXP.330.202516
20×25×20	AXP.330.202520
25×16×16	AXP.330.251616
25×16×20	AXP.330.251620
25×16×25	AXP.330.251625
25×20×16	AXP.330.252016
25×20×20	AXP.330.252020
25×20×25	AXP.330.252025
25×25×16	AXP.330.252516
32×16×32	AXP.330.321632
32×20×20	AXP.330.322020
32×20×25	AXP.330.322025
32×20×32	AXP.330.322032
32×25×20	AXP.330.322520
32×25×25	AXP.330.322525

### Reducing coupling



Size	Code
16×20	AXP.130.1620
16×25	AXP.130.1625
20×25	AXP.130.2025
25×32	AXP.130.2532



### Elbow 90°



Size	Code
16	AXP.220.16
20	AXP.220.20
25	AXP.220.25
32	AXP.220.32

## Manual expand and pressing tool



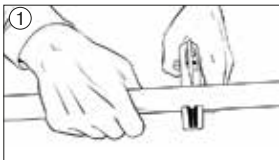
Код	Для труб, D x S
AXTOOL-1632	16 x 2,2, 20 x 2,8 25 x 3,5,32 x 4,4

#### Set included:

- manual pressing tool
- manual expand tool
- 4 nozzles for pipes  
SDR 7.4 DN 16 - 32 mm
- pipe cutter DN 16 - 32 mm
- storage and transportation case
- instruction

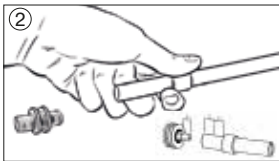


# Installation guide for axial fittings



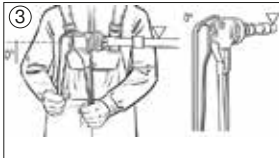
## Cut the pipe to the desired length.

Use special pipe cutters. The angle of the cut should be 90°. There must be no burrs on the cut edges.



## Place a sleeve on the pipe.

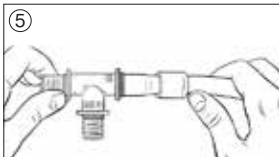
The chamfer inside the sleeve must be facing towards the fitting. The connection must be made on a straight pipe section (no bends). When the pipe expands, the sleeve must be at a distance from the edge of the pipe at least 2 sleeves



## Insert the expander into the pipe up to the stop and make a single expansion by bringing the handles of the expander halfway (≈50%)

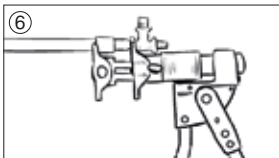


## Pull the handles back to the initial position, turn the expander by 30° and perform a second expansion more than half, but not to the end (≈ 70-75%). Repeat operation and perform expansion by bringing the expander knobs to the to the stop (100%).



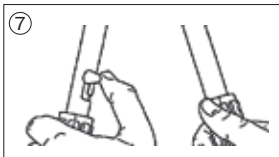
## Insert the fitting socket into the expanded end of the pipe as far as it will go.

During this process you should feel a slight resistance. If you do not feel no resistance, then the pipe has been over-expanded and you should wait a few seconds until the pipe is tight against the fitting socket.

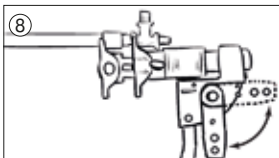


## Grasp the joint with the tool.

The tool must be held at right angles, to prevent the fitting and sleeve from twisting between the jaws of the tool.

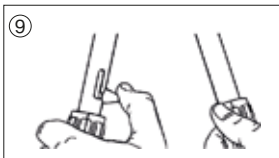


## Move the safety catch of the tool to the upper position.



## By pushing the tool handles together, push the sleeve up to the flange of the fitting (up to the stop).

It is necessary to observe the position of the connection during pressing, avoiding misalignment and/or misalignment.



## Move the safety catch to the lower position



[proaquasystems.com](http://proaquasystems.com)

Contact details:

