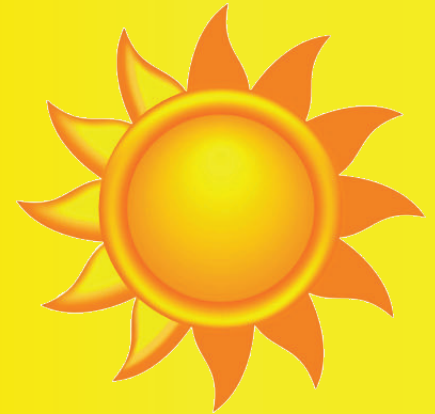




AEROFLEX - SK, Ltd.
PIPELINE & INSULATION SYSTEMS

AEROSOLAR[®]



THE UNIQUE CONNECTION OF SOLAR COLLECTORS AND HEAT PUMPS



**FLEXIBLE PRE-INSULATED
STAINLESS STEEL PIPELINE SYSTEM**

**RESISTENT AGAINST HIGH
TEMPERATURE, UV RADIATION AND
OZONE**

**CONNECTION OF THE SOLAR
COLLECTORS, HEAT PUMPS,
HEATING AND COOLING SYSTEMS**

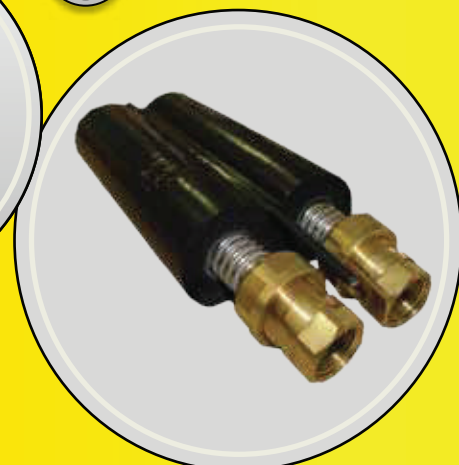


**MADE
IN SLOVAKIA**

AEROSOLAR[®] SOLO



**AEROSOLAR[®] DC
WITH FITTINGS AEROSOLAR**



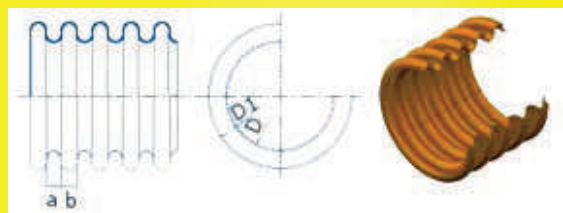
**AEROSOLAR[®] DC
WITH EASY COUPLING
FITTINGS**



FLEXIBLE STAINLESS STEEL PIPELINES CLASSIFIED ACCORDING 1.4404 - AISI 316L

dimension	inside diameter	outside diameter	a	b	*a+b	thickness	rated pressure			min. bend radius	flow rate	pressure loss on 1 m
	*D Ø	*D1 Ø					PN by					
	DN	(mm)					(mm)	(mm)	(mm)			
12	12,2	16,8	-	-	-	0,18	21	-	-	20	0,127	-
16	16,3	21,4	1,8	2,8	4,6	0,18	16	14,8	13,6	25	0,251	6360
20	20,5	26,7	2,3	2,5	4,8	0,18	10	10,5	9,5	30	0,416	4398
25	25,4	31,8	2,2	3,1	5,3	0,20	10	8,7	8,0	35	0,643	3491
32	34,5	41,1	-	-	-	0,20	10	-	-	45	0,733	-

*tolerance for DN 12, DN 16, DN 20 ± 0,2 and for DN 25, DN 32 ± 0,25



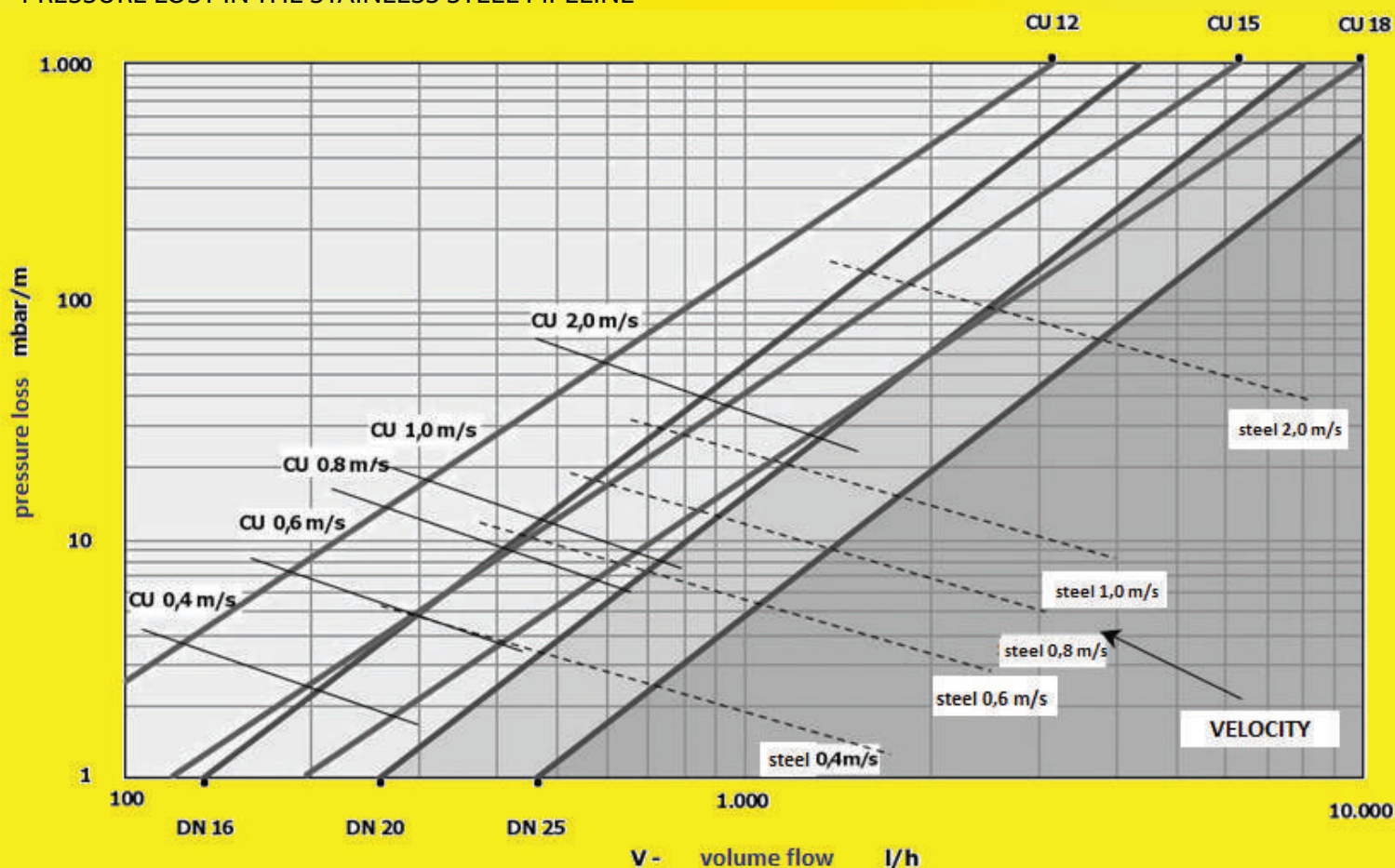
CHARACTERISTICS OF PIPELINE AND OF AN INSULATION (EPDM)

- stable against high temperature of medium till +175° C (stable temp. +230°C)
- UV and OZONE resistive and stable jacketing of insulation hoses
- not contains the PVC, CFCs a FCKW and formaldehyde
- class horenia 4102-B2

PIPELINES PROPERTIES (STAINLESS STEEL)

- flexible till -57°C
- no corrosion by using: copper, meal and stainless steel pipes...

PRESSURE LOST IN THE STAINLESS STEEL PIPELINE





FLEXIBLE PRE-ISOLATED PIPELINE FOR SOLAR SYSTEM WITH THE QUICK INSTALLATION, CONNECTION BETWEEN THE SOLAR COLLECTORS AND HEAT PUMPS

- »»» pipes are easy to split without damaging the Im
- »»» pre-isolated pipelines without junction – one piece from the collector right to the basement
- »»» insulation made by high - class EPDM rubber withstands by continual straining till 175°C and for a short – term till 230°C.
- »»» UV – proof Im on the insulation protect against mechanical damage by the installation
- »»» UV – proof cabel – dual wire for the sensor (2 x 0,75 mm)
- »»» high – class pipeline made by anticorrosive stainless steel AISI 316 L

CONNECTION WITH THE EASY QUICK-NIPPLES OR WITH THE CLASSICAL COMPRESSION

AEROSOLAR® DOUBLE (DC) with cabel – thickness of the insulation 13 mm

position number	dimension	length	weight
02121310	DN12	10 m	
02121315	DN12	15 m	
02121320	DN12	20 m	
02121325	DN12	25 m	
02121330	DN12	30 m	
02121350	DN12	50 m	



position number	dimension	length	weight
02161310	DN16	10 m	4,90 kg
02161315	DN16	15 m	8,30 kg
02161320	DN16	20 m	10,50 kg
02161325	DN16	25 m	12,50 kg
02161330	DN16	30 m	16,00 kg
02161350	DN16	50 m	25,00 kg
02201310	DN20	10 m	6,00 kg
02201315	DN20	15 m	8,70 kg
02201320	DN20	20 m	11,70 kg
02201325	DN20	25 m	14,90 kg
02201330	DN20	30 m	17,00 kg
02201350	DN20	50 m	28,00 kg

EASY QUICK COUPLING FITTINGS

- without gaskets
- without usage on any tools
- bigger dimensions



AEROSOLAR® FITING

- with gaskets
- with tools



AEROSOLAR® SOLO - thickness of the insulation 13 mm

position number	dimension	length	weight	position number	dimension	length	weight
01161310	DN16	10 m	2,50 kg	01121310	DN12	10 m	2,30 kg
01161315	DN16	15 m	3,70 kg	01121315	DN12	15 m	3,45 kg
01161320	DN16	20 m	4,70 kg	01121320	DN12	20 m	4,60 kg
01161325	DN16	25 m	6,00 kg	01121325	DN12	25 m	5,75 kg
01161330	DN16	30 m	7,40 kg	01121330	DN12	30 m	6,90 kg
01161350	DN16	50 m	11,90 kg	01121350	DN12	50 m	11,50 kg
01201310	DN20	10 m		01251310	DN25	10 m	3,00 kg
01201315	DN20	15 m	4,10 kg	01251315	DN25	15 m	4,50 kg
01201320	DN20	20 m	5,40 kg	01251320	DN25	20 m	6,00 kg
01201325	DN20	25 m	6,80 kg	01251325	DN25	25 m	7,50 kg
01201330	DN20	30 m	8,10 kg	01251330	DN25	30 m	9,00 kg
01201350	DN20	50 m	13,50 kg	01251350	DN25	50 m	15,00 kg

NEW!



AEROSOLAR® SOLO - thickness of the insulation 19 mm

position number	dimension	length	weight	position number	dimension	length	weight
01161910	DN16	10 m	2,60 kg	01121910	DN12	10 m	
01161915	DN16	15 m	3,90 kg	01121915	DN12	15 m	
01161920	DN16	20 m	5,20 kg	01121920	DN12	20 m	
01161925	DN16	25 m	6,50 kg	01121925	DN12	25 m	
01161930	DN16	30 m	7,20 kg	01121930	DN12	30 m	
01161950	DN16	50 m	13,00 kg	01121950	DN12	50 m	
01201910	DN20	10 m	2,80 kg				
01201915	DN20	15 m	4,20 kg				
01201920	DN20	20 m	5,60 kg				
01201925	DN20	25 m	7,00 kg				
01201930	DN20	30 m	8,40 kg				
01201950	DN20	50 m	14,00 kg				

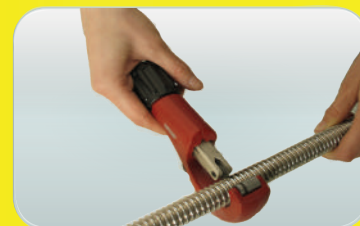
NEW!



*Tolerance per 1 meter = ± 1%

HOW TO PREPARE THE CORRUGATED WAVE-PIPELINE WITH A PUNCHING PRESS ?

1. Measure the length of the pipe and add six waves. Use the cutter to cut out the measured length of a pipe and remove the spike. Try to achieve a clean cut to achieve the high quality of a new surface for the sealing.



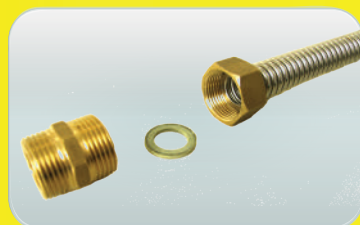
2. Put on a pipe a passing through nut and the end of pipe put into a punch press to get the last three waves of the punching side of the piston toward. With a few panching hammer out waves to create equal seating surface. You can recognize by ears, the sound changes from silenced punch to a sharp-metal sound.



3. Behind the pressed wave put on a split clamping –ring and close it. To ensure a sliding of the nut from a pipe.



4. Repeat all on the other side of the pipe. Do not forget to put on the second passing through nut. The pipe is ready to install to the given place.



5. Model it to the required shape and use a suitable sealing to that.



Passing through nut

dimension position

16 (3/4") PM 16

20 (1") PM 20

25 (5/4") PM 25

32 (6/4") PM 32

40 (2") PM 40



End thread + split clamping-ring

dimension position

16 (3/4") ZK 16

20 (1") ZK 20



Asbestos – free sealing ring for the thread connections till 250°C

dimension position

16x24x2mm pre PM 16 T 34

20x30x2mm pre PM 20 T 01

25x38x2mm pre PM 25 T 54



Split clamping-ring – anticorrosive pad

dimension position

pre PM 16 DK 16

pre PM 20 DK 20

pre PM 25 DK 25

pre PM 32 DK 32

pre PM 40 DK 40



Brackets to fasten the pipelines

dimension position

DN 16 OVAL16

DN 20 OVAL 20



Universal press (to create the flange) + clamps

dimension position

clamp for DN 12 a DN 16 S1216

clamp for DN 20 a DN 25 S2025



Nut male thread with a bigger surface for placing the gasket

dimension position

/8" x 1/2" 3812

1/2" V 12

1/2" x 3/4" 1234

3/4" V 34

3/4" x 1" 341

1" V 1

1" x 5/4" 154

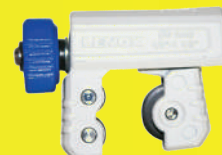
5/4" V 54



Pipeline cutter for the stainless steel pipelines

dimension position

3 – 45 mm V 6245-1



Teflon sealing for thread connections till 500°C PTFE

dimension position

15x24x2mm pre PM 16 TPTFE 34

19x30x2mm pre PM 20 TPTFE 01

24x38x2mm pre PM 25 TPTFE 54



Substitute wheel to the cutter

dimension position

6001-0



Spike remover

dimension position

3 rezáky V 221261



valves for potable water, heating systems solar usage too:

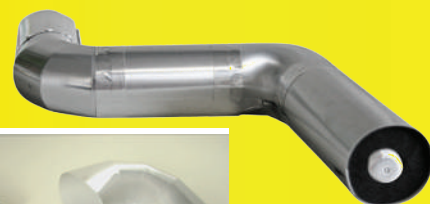
with male/female threads
in offer pressing on copper pipelines
with / without drainage



ACCESSORIES

► **JACKETING COAT 570, 573** IS A DOUBLE COMPOUNDED LAYER ON THE ALUMINIUM BASIS, COATED BY A SPECIAL UV PROTECTION AND WITH A PVC BACKING. THE SYSTEM IS PUNCTURE AND TEAR RESISTANT AS WELL AS FLAME RETARDANT AND CAN BE FOR INTERIOR AND EXTERIOR FACING OF HOT AND COLD INSULATION. IT COMBINES AN EXCELLENT VAPOUR BARRIER WITH A WATER TIGHTNESS. IS PARTICULARLY SUITABLE FOR INSULATION APPLICATION ESPECIALLY ON PIPES, EVEN FOR SMALL DIAMETERS. THE SYSTEM CAN **WITHSTAND 15 YEARS**.

Coating with a curling effect / Coating without a curling effect
thickness 0,23 mm width 1 000 mm length 25 m



Endrosette

width 15 - 100 mm
length 5 m



Self-adhesive tape

T 0,06 mm W 30 mm L 25 m
T 0,06 mm W 50 mm L 50 m



Rivet device / rivets - side, straight



Armatures jacketing



Bends jacketing

► EASY CLICK - COUPLING SYSTEM FOR STAINLESS STEEL PIPELINES - NO PRESSING (1 CLICK - 1 WAVE)



CROSS SECTION OF FITTING



Elbow fitting female

DN 16 Cu 3/4"



Straight female fitting

DN	Cu
12	1/2"
12	3/4"
16	1/2"
16	3/4"
20	3/4"
20	1"
25	1"
25	1 1/4"
32	1 1/4"
32	1 1/2"
40	1 1/2"
40	2"

CLICK ON



Straight male fitting stainless steel/ cylindrical pipe

DN	Cu
12	15
12	18
16	15
16	18
16	22
20	15
20	18
20	22
25	18
25	22
32	28
40	35

CLICK ON



Straight male fitting

DN	Cu
12	1/2"
16	1/2"
16	3/4"
20	3/4"
20	1"
25	1"
25	1 1/4"
32	1 1/4"
32	1 1/2"
40	1 1/2"
40	2"

CLICK ON



Coupling fitting stainless steel / copper

DN	Cu
12	15
12	18
16	15
16	18
16	22
20	18
20	22
25	18
25	22
32	28
40	35

CLICK ON



Coupling fitting

DN
DN12/DN12
DN16/DN16
DN20/DN20
DN25/DN25
DN32/DN32
DN40/DN40

CLICK ON



Elbow double stainless steel/copper

DN 16 x 22



T-piece Cu / stainless steel / Cu

Cu	DN	Cu
22 x DN 16	22	22

