

Potable Water Pipe Application Indonesian National Standard (SNI)



RUCIKA
SAFE & LOK



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RUCIKASAFE & RUCIKALOK

Is a piping network system according to the Indonesian National Standard (SNI) designed to distribute drinking water and clean water to the wider community and various types of projects.

RUCIKASAFE uses a solvent cement jointing system, while RUCIKALOK uses a Z-joint rubber ring system.

Advantages. *And* Benefit

- Strong and does not break easily because it contains uPVC resin and additives.
- Safe to use for flowing drinking water.
- Resistant to chemical contamination.
- Easy to transport and handle because it is light.
- Easy and fast installation.
- Smooth inner surface which reduces friction losses.
- Anti-rust and maintenance free.

Quality Standard

Refers to this standard:

- ISO 4422-1996 : Pipes and Fittings made of unplasticized Poly Vinyl Chloride (uPVC) for Water Supply.
- SNI 06-0084-2002 : PVC pipe for drinking water lines.
- SNI 06-0135-1987 : PVC pipe fitting for drinking water.

SOLVENT CEMENT PIPE
PIPE WITH SC JOINT SYSTEM

PRESSURE NOMINAL	OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	EFFECTIVE LENGTH (m)	PRODUCT CODE
1,6 MPa (16 bar) S.6,3	20	1.5	4	000 020 101
1.25 Mpa (12.5 bar) S.8	25	1.5	4	010 025 101
	32	1.9	4	010 032 101
	40	2.4	4	010 040 101
1,00 MPa (10 bar) S.10	32	1.6	4	020 032 101
	40	1.9	4	020 040 101
	50	2.4	6	020 050 201
1,25 MPa (12.5 bar) S.10	63	3.0	6	010 063 201
	90	4.3	6	010 090 201
	110	5.3	6	010 110 201
	160	7.7	6	010 160 201
1,00 MPa (10 bar) S.12,5	63	2.4	6	020 063 201
	90	3.5	6	020 090 201
	110	4.2	6	020 110 201
	160	6.2	6	020 160 201
0,8 MPa (8 bar) S.12,5	50	2.0	6	030 050 201
0,8 MPa (8 bar) S.16	63	2.0	6	030 063 201
	90	2.8	6	030 090 201
	110	3.4	6	030 110 201
	160	4.9	6	030 160 201

RUBBER RING PIPE RRJ / Z-JOINT SYSTEM

NOMINAL PRESSURE	OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	EFFECTIVE LENGTH (m)	GOODS CODE
1,6 MPa (16 bar) S.8	63	3.8	6	000 063 202
	90	5.4	6	000 090 202
	110	6.6	6	000 110 202
	160	9.5	6	000 160 202
	200	11.9	6	000 200 202
	250	14.8	6	000 250 202
	315	18.7	6	000 315 202
1,25 MPa (12.5 bar) S.10	63	3.0	6	010 063 202
	90	4.3	6	010 090 202
	110	5.3	6	010 110 202
	160	7.7	6	010 160 202
	200	9.6	6	010 200 202
	250	11.9	6	010 250 202
	315	15.0	6	010 315 202
	400	19.1	6	010 400 202
	500	23.9	6	010 500 202
1,00 MPa (10 bar) S.12,5	630	30.0	6	010 630 202
	63	2.4	6	020 063 202
	90	3.5	6	020 090 202
	110	4.2	6	020 110 202
	160	6.2	6	020 160 202
	200	7.7	6	020 200 202
	250	9.6	6	020 250 202
	315	12.1	6	020 315 202
	400	15.3	6	020 400 202
	500	19.1	6	020 500 202
0,80 MPa (8 bar) S.16	630	24.1	6	020 630 202
	63	2.0	6	030 063 202
	90	2.8	6	030 090 202
	110	3.4	6	030 110 202
	160	4.9	6	030 160 202
	200	6.2	6	030 200 202
	250	7.7	6	030 250 202
	315	9.7	6	030 315 202
	400	12.3	6	030 400 202
	500	15.3	6	030 500 202
	630	19.3	6	030 630 202

System Applied

RUCIKASAFE and RUCIKALOK have been used in various irrigation projects in the government and private sectors, such as:

- PDAM (City Water Service)
- Dept. Public Works
- Real estate
- Industry
- Plantation/agriculture
- and others

Characteristics of the Materials

RUCIKASAFE and RUCIKASAFE are made of uPVC which is thermoplastic, non-corrosive, insoluble in water, good insulators, strong and lightweight.

Material Properties

Density	= 1.40 g/cm ³
Coefficient of linear expansion	= 8×10^{-2} mm/m.°C
Thermal conductivity	= 0.15 W/m.°C
Modulus of elasticity	= 3000 N/mm ²
Surface resistance	> 10 ¹² Ohm

Jointing Procedure RUCIKASAFE

1. Clean dirt on the surface of the spigot and socket.
2. Measure the depth of the socket and mark the spigot using a marker.
3. Apply enough PVC pipe glue on the socket surface, then on the spigot.
4. Connect immediately and hold the connection position for a moment so it does not change.
5. Clean the excess PVC pipe glue on the spigot and socket surface.



Joining Procedure RUCIKALOK

1. Give a 15 ° chamfer to the end of the spigot pipe that will be connected.
2. Clean dirt on the surface of the spigot and socket.
3. Measure the depth of the socket and mark the spigot using a marker.
4. Attach the rubber ring to its place with the lip facing inwards.
5. Apply lubricant around the inside of the Z-joint rubber ring and half the length of the spigot marked with the marker.
6. Position the spigot pipe in one axis with the end of the pipe socket or fitting partner, then push them both slowly and in a circular motion until they reach the mark.



PT. GOLDEN PIPING INDONESIA
Piping System Solution

Kawasan Multiguna Blok B1/5 Pakualam, Serpong Utara
Tangerang Selatan 15325 Banten - Indonesia
Telp. : +62 21 2292 7700, 2292 7788
Email : info@depopipa.com

 PT. Golden Piping Indonesia Official
 PT. Golden Piping Indonesia
 [goldenpipingindonesia](https://www.instagram.com/goldenpipingindonesia)
 www.goldenpiping.id
 www.depopipa.id