

uPVC PRESSURE PIPE WITH SOLVENT CEMENT JOINT (SCJ)

CHINLEAN® uPVC Pressure pipes are superior material for water conveying system with higher internal pressure with major use in cold water service and industrial use. This piping system ranging sizes from DN 15mm to DN 300mm, in pressure ratings from 6 bar to 15 bar and high pressure up to 40 bar of Class 7. The pipes complied to standard of MS628: Part 1 (BS3505) and MS762 (BS3506).


PIPE CATEGORIES

uPVC pressure pipes are specified by:
Nominal size (DN); Measurement of outside diameter of pipes in millimeter.
Class of pipes; maximum working pressure in units Bar, MPa or Psi.
Type of joint; Solvent cement joints (SCJ).

PRODUCT FEATURES

Main Application; Water supply
Other application; Industrial use, telecommunication, electrical, mining.
Material; Unplasticized Polyvinyl Chloride (uPVC / PVC-U).
Product range; Supplied in plain end size DN15 to DN 300mm or socket at one end for solvent weld connection for DN 80mm to DN 300 mm.
Maximum working pressure; 6 bar to 15 bar for water supplier and 22 to 40 for industrial use.
Working temperature; uPVC pipe generally can be used at temperatures between 20°C to 50°C. Temperature up to 60°C can be accommodated if at a reduced pressure rating and service life are acceptable.
Length; 6 meter & 5.8 meter (upon customer request).

Colour; Grey
 Blue



QUALITY ASSURANCE

Quality Management System complied to ISO 9001:2008 by SIRIM QAS International Sdn. Bhd.
 Certificate No.: AR 2643

MARKING

Printing by inject printer, as following identification:
 Pressure pipes marked by inject printer, and fittings has clearly and durable marked by moulded impression for each cavity of products.

CERTIFICATION

This pipe certified by SIRIM QAS International Sdn. Bhd. since 1993 with certificate No.:
 • PC 007106 - MS628: Part 1
 • PC 007111 - MS762



MS ISO 9001 : 2008
 REG NO.: AR 2643

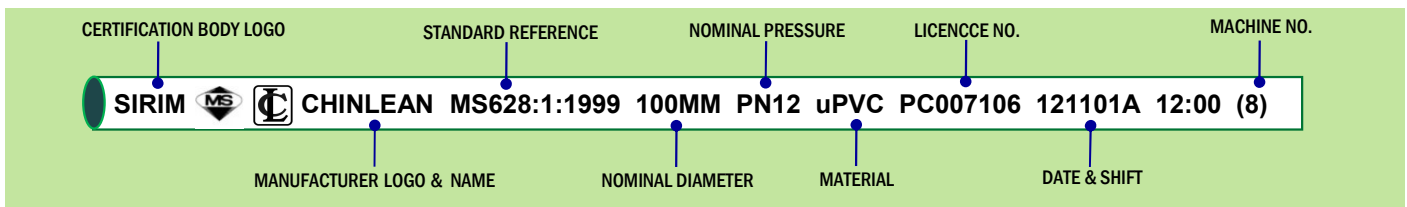
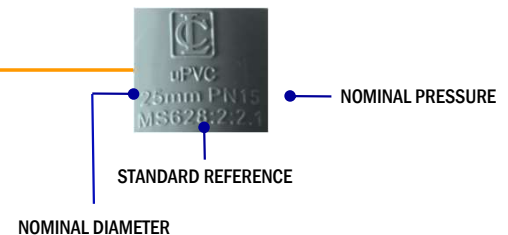
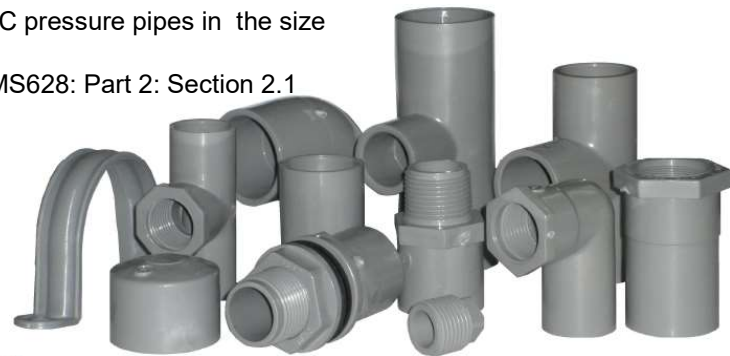


CLASSIFICATION OF PIPES

Pressure Temperature	Maximum Working Pressure		Standard
	20 °C	30 °C	
Pipes Class	Bar /MPa/ Psi	Bar /MPa/ Psi	
Class B	6 / 0.6 / 87	4.8 / 0.48 / 70	MS 672
PN 9	9 / 0.9 / 131	7.2 / 0.72 / 104	MS 628.1
PN 12	12 / 1.2 / 174	9.6 / 0.96 / 139	MS 628.1
PN 15	15 / 1.5 / 218	12.0 / 1.2 / 174	MS 628.1
Class 7			
15 mm	40 / 4.0 / 580	32 / 3.2 / 464	MS 672
20mm	32 / 3.2 / 464	25.6 / 2.6 / 371	MS 672
25 mm	32 / 3.2 / 464	25.6 / 2.6 / 371	MS 672
32 mm	28 / 2.8 / 406	22.4 / 2.2 / 325	MS 672
40mm	25 / 2.5 / 363	20.0 / 2.0 / 290	MS 672
50mm	22 / 2.2 / 319	17.6 / 1.8 / 255	MS 672

uPVC PRESSURE FITTINGS WITH SOLVENT CEMENT JOINT

A range of fitting manufactured is available for use with CHINLEAN® uPVC pressure pipes in the size as shown.
 Standard Reference: MS628: Part 2: Section 2.1 (BS4346: Part 1).



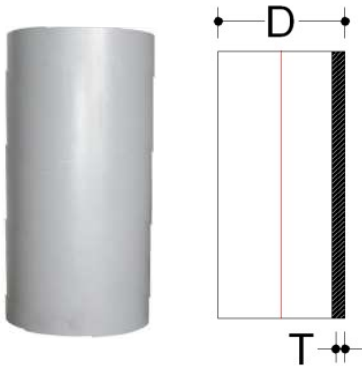
PIPES DIMENSION & PRODUCT RANGE



PIPES RANGE

Product Description	No. of Size	Size (mm)	Standard
PIPES (Plain End)			
Class B	6	80, 100, 155, 200, 250, 300	MS 762
PN 9	7	50, 80, 100, 155, 200, 250, 300	MS 628.1
PN 12	10	32, 40, 50, 65, 80, 100, 155, 200, 250, 300	MS 628.1
PN 15	12	15, 20, 25, 32, 40, 50, 80, 100, 155, 200, 250, 300	MS 628.1
Class 7	5	15, 20, 25, 32, 40, 50	MS 762
PIPES (with Socket End)			
Class B	6	80, 100, 155, 200, 250, 300	MS 762
PN 9	6	80, 100, 155, 200, 250, 300	MS 628.1
PN 12	6	80, 100, 155, 200, 250, 300	MS 628.1
PN 15	6	80, 100, 155, 200, 250, 300	MS 628.1

PIPES DIMENSION



Nominal Diameter DN mm	Inch	Outside diameter D (mm)	Wall Thickness T (mm)				
			Class B (MS 762)	PN 9 (MS628.1)	PN 12 (MS628.1)	PN 15 (MS628.1)	Class 7
15	1/2"	21.2 - 21.5				1.7 - 2.1	3.7 - 4.3
20	3/4"	26.6 - 26.9				1.9 - 2.5	3.9 - 4.5
25	1"	33.4 - 33.7				2.2 - 2.7	4.5 - 5.2
32	1 1/4"	42.1 - 42.4			2.2 - 2.7	2.7 - 3.2	4.8 - 5.5
40	1 1/2"	48.1 - 48.4			2.5 - 3.0	3.1 - 3.7	5.1 - 5.9
50	2"	60.2 - 60.5		2.5 - 3.0	3.1 - 3.7	3.9 - 4.5	5.5 - 6.3
65	2 1/2"	75.7 - 76.3*			3.9 - 4.5		
80	3"	88.7 - 89.1	2.9 - 3.4	3.5 - 4.1	4.6 - 5.3	5.7 - 6.6	
100	4"	114.1 - 114.5	3.4 - 4.0	4.5 - 5.2	6.0 - 6.9	7.3 - 8.4	
155	6"	168.0 - 168.5	4.5 - 5.2	6.6 - 7.6	8.8 - 10.2	10.8 - 12.5	
200	8"	218.8 - 219.4	5.3 - 6.1	7.8 - 9.0	10.3 - 11.9	12.6 - 14.5	
250	10"	272.6 - 273.4	6.6 - 7.6	9.7 - 11.2	12.8 - 14.8	15.7 - 18.1	
300	12"	323.4 - 324.3	7.8 - 9.0	11.5 - 13.3	15.2 - 17.5	18.7 - 21.6	

* Dimension of outside diameter is complied to standard of JIS K 6741.84

FITTINGS RANGE

Product Description	No. of Size	Size (mm)
90° Elbow	13	15, 20, 25, 32, 40, 50, 65*, 80, 100*, 155*, 200#, 250#, 300#
Reducing Elbow	3	20x15, 25x20, 25x20
P/T Elbow	6	15, 20, 25, 32*, 40*, 50*
45° Elbow	6	50*, 80*, 100*, 155*, 200#, 250#
Tee	12	15, 20, 25, 32, 40, 50, 65*, 80*, 100*, 155*, 200#, 250#
Reducing Tee	33	20x15, 25x15, 25x20, 32x15, 32x20, 32x25, 40x15*, 40x20, 40x25, 40x32, 50x15*, 50x20, 50x25, 50x32, 50x40, 65x40*, 65x50*, 80x25, 80x32, 80x40, 80x50, 80x65#, 100x40*, 100x50, 100x80, 155x80*, 155x100*, 200x100#, 200x155#, 250x155F, 250x200F, 300x200F, 300x250F
P/T Tee	2	15, 20
D/E Socket	13	15, 20, 25, 32, 40, 50, 65*, 80, 100, 155*, 200F, 250F, 300F
Reducing Socket	29	20x15, 25x15, 25x20, 32x15, 32x20, 32x25, 40x15*, 40x20, 40x25, 40x32, 50x15*, 50x20, 50x25, 50x32, 50x40, 65x40*, 65x50*, 80x50*, 80x65*, 100x50*, 100x80*, 155x80*, 155x100*, 200x100#, 200x155#, 250x155F, 250x200#, 300x200F, 300x250F
Valve Socket	10	15, 20, 25, 32, 40, 50, 65*, 80, 100*, 155#
P/T Socket	9	15, 20, 25, 32, 40, 50, 65*, 80, 100
Tank Connector	6	15, 20, 25, 32, 40, 50
Jam Nut	6	15, 20, 25, 32, 40, 50
End Cap	11	15, 20, 25, 32, 40, 50, 65*, 80, 100, 155*, 200#
Reducing Bush	10	20x15, 25x15, 25x20, 32x25*, 40x25*, 40x32*, 50x25*, 50x32*, 50x40*, 100x80*
Plug	8	15, 20, 25, 32, 40, 50, 80*, 100*
Flange	9	40*, 50*, 65*, 80*, 100*, 155*, 200#, 250#, 300#
Pipe Clip	8	15*, 20*, 25*, 32*, 40*, 50*, 80*, 100*

* Other source # Imported F Fabricated

FITTINGS PRODUCT RANGE

uPVC PRESSURE FITTINGS PRODUCT RANGES



90° ELBOW

Size (mm)	
15	80
20	100*
25	155*
32	200#
40	250#
50	300#
65*	



REDUCING ELBOW

Size (mm)	
20x15	
25x15	
25x20	



P/T ELBOW

Size (mm)	
15	
20	
25	
32*	
40*	
50*	



45° ELBOW

Size (mm)	
50*	
80*	
100*	
155*	
200#	
250#	



TEE

Size (mm)	
15	250#
20	
25	
32	
40	
50	
65*	
80*	
100*	
155*	
200#	



REDUCING TEE

Size (mm)		
20x15	50x20	100x40*
25x15	50x25	100x50
25x20	50x32	100x80
32x15	50x40	155x80*
32x20	65x40*	155x100*
32x25	65x50*	200x100#
40x15*	80x25	200x155#
40x20	80x32	250x155 ^F
40x25	80x40	250x200 ^F
40x32	80x50	300x200 ^F
50x15*	80x65#	300x250 ^F



P/T TEE

Size (mm)	
15	
20	



DE SOCKET

Size (mm)	
15	200 ^F
20	250 ^F
25	300 ^F
32	
40	
50	
65*	
80	
100	
155*	



REDUCING SOCKET

Size (mm)		
20x15	50x15*	100x80*
25x15	50x20	155x80*
25x20	50x25	155x100*
32x15	50x32	200x100#
32x20	50x40	200x155#
32x25	65x40*	250x155 ^F
40x15*	65x50*	250x200#
40x20	80x50	300x200 ^F
40x25	80x65*	300x250 ^F
40x32	100x50*	



VALVE SOCKET

Size (mm)	
15	80
20	100*
25	155#
32	
40	
50	
65*	



P/T SOCKET

Size (mm)	
15	80
20	100
25	
32	
40	
50	
65*	



TANK CONNECTOR

Size (mm)	
15	
20	
25	
32	
40	
50	



JAM NUT

Size (mm)	
15	
20	
25	
32	
40	
50	



END CAP

Size (mm)	
15	80
20	100
25	155*
32	200#
40	
50	
65*	



REDUCING BUSH

Size (mm)	
20x15	50x32*
25x15	50x40*
25x20	100x80*
32x25*	
40x20*	
40x25*	
50x25*	



PLUG

Size (mm)	
15	100*
20	
25	
32	
40	
50	
80*	



FLANGE

Size (mm)	
40*	250*
50*	300*
65*	
80*	
100*	
155*	
200*	



PIPE CLIP

Size (mm)	
15*	100*
20*	
25*	
32*	
40*	
50*	
80*	

* Other source

Imported

^F Fabricated

INSTALLATIONS

SOLVENT CEMENT WELD JOINT

Procedure

To make good solvent weld joints, the following steps are recommended:



1. Cut the pipe square and remove all burr.



2. Mark the spigot at a distance equal to the internal depth of the socket.



3. Using the clean cloth, wipe away all loose dirt and moisture from bonding surface.



4. Using a clean brush apply a thin, uniform coat of **CHINLEAN® NO. 70** solvent cement to the both internal surface of socket, and then to the external surface of the spigot up to the mark.



5. Immediately push the spigot straight (no twisting) into the socket as far as the mark. Hold the jointing for 20 to 30 seconds.



OTHERS PRODUCT RANGE

EXTRUSION PRODUCTS



uPVC PRESSURE PIPE WITH SOLVENT CEMENT JOINTS
MS 628-1 ((BS 3505 ,)
MS 628-2-2.1 (BS 4346) –
Fittings, MS 762 (BS 3506)



uPVC BELL-MOUTH PRESSURE PIPE JOINT (RRJ)
MS 628-2-2.1 (BS 4346)



uPVC PIPE (JIS STANDARD)
JIS K 6741



uPVC SOIL WASTE VENTILATING (SWV) PIPES
MS 1063 (BS EN1329-1 -
Revision of BS 4514 and BS
5255)



uPVC RAINWATER DOWN (RWDP) PIPES
SIRIM certified: BS ES 12200-1



uPVC SEWERAGE PIPE
MS 979-1 (BS 4660)
MS 979-2 (BS 5481)



uPVC TELECOMMUNICATION CABLES PIPE
MS 1034



HIGH DENSITY POLYETHYLENE (HDPE) PRESSURE PIPE
MS 1058-2



PVC GARDEN HOSE
Complied to: BS 3746



PVC GAS HOSE
AS/NZS 1869



PVC INSERT TUBE (GASKET) GLAZING

ROTATIONAL MOULDING PRODUCTS



POLYETHYLENE (PE) WATER TANK
SIRIM certified: MS 1225-1 & 2



POLYETHYLENE (PE) SEPTIC TANK
Complied to: CSA B66



MAIN HOLE COVER AND FRAME



ROAD BARRIER, HOARDING & ROAD CONE

INJECTION MOULDING PRODUCTS



uPVC PRESSURE FITTING
MS 628-2-2.1 (BS 4346)



uPVC SOIL WASTE VENTILATING (SWV) FITTINGS
MS 1063 (BS EN1329-1)

CHEMICALS PRODUCT



PVC SOLVENT CEMENT
MS 628-2-2.2



CHINLEAN PLASTIC FACTORY SDN. BHD. (049922-V)
Lot 5005, Jalan Chui Chak 36700 Langkap, Perak, Malaysia.
Tel: 605-569 3444 (3 Lines) Fax: 605-659 3175
Web: www.chinlean.com.my / www.chinlean.com
Email: chinlean49922@gmail.com / sales@chinlean.com