



شركة تمديدات الجزيرة للصناعة

TAMMIDAT ALJAZEERA COMPANY FOR MANUFACTURING







Certificate of Registration

This is to certify that the **Quality Management System (QMS)** of

Tamdidat Al Jazeera Company for Manufacturing

Building No 8316 Street No 4454 Sakhar, District 4454, Postal No 227774, Ash Shuaybah, Kingdom of Saudi Arabia.

Has been successfully assessed as per the requirement of

ISO 9001: 2015

Quality Management System

For the scope of

Manufacturing of PVC Plastic Pipes, Hoses, Tubes, PE Pipes , PPR Pipes , Fittings and Accessories.

Initial Registration Date	: 19 - 01 - 2026
Certificate Issue Date	: 19 - 01 - 2026
1st Surveillance Date	: 18 - 01 - 2027
2nd Surveillance Date	: 18 - 01 - 2028
Re- Certification	: 18 - 01 - 2029

Certificate Registration Number **CN-QMS-15252178**



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01 - PVC - MATERIAL

- | | | | |
|---|-------------------------------------|--|--|
|  | 01 Does not affect water properties |  | 01 Lightweight |
|  | 03 Easy to transport and install |  | 03 Cost-effective |
|  | 05 Easy to maintain |  | 05 Fire resistant |
|  | 07 High tensile strength |  | 07 Smooth surface finish |
|  | 09 Electrically non-conductive |  | 09 High pressure resistance |
|  | 11 Resistant to chemical reactions |  | 11 Resistant to weathering and soil conditions |

2 - Properties of U.P.V.C Pipe Material

Material: Unplasticized Polyvinyl Chloride (U.P.V.C).

Color: Dark Grey.

General Conditions: All values are measured at 20°C.

Specific Gravity: 1.42 ± 0.02 .

Flammability: The material does not support combustion.

المواصفات الميكانيكية | Mechanical Properties

Tensile Strength مقاومة الشد		
BAR	LB FT / in ²	kg / CM ²
483 - 517	7500 - 7000	492 - 527
Compressive Strength قوة التحمل		
BAR	LB FT / in ²	kg / CM ²
665	9500	668 - 680
Flexural Strength قوة الالتواء (الثني)		
BAR	LB FT / in ²	kg / CM ²
930	13500	950 - 960
Modulus Of Elasticity عامل المرونة		
BAR	LB FT / in ²	kg / CM ²
3.1x 10 ⁴	45x 10 ⁴	3.2x 10 ⁴
(IZOD) Inch Notch Charpy Impact Strength		قوة الصدم (آيزود)
LB FT / in ²		Joule
3.5 - 4.0		4.75 - 4.52
Water Absorption قابلية امتصاص الماء (النفوذية)		
< 4 mg / cm ²		
Friction co- Efficient عامل الاحتكاك		
Colebrook	Friction co- Efficient	
0.00001	135 - 150	

مزايا أنابيب U.P.V.C

- تتميز أنابيب U.P.V.C بالعديد من الخصائص الفنية التي تجعلها من المواد المناسبة لمختلف تطبيقات نقل السوائل وشبكات البنية التحتية.
- تتميز بمقاومة عالية للتفاعلات الكيميائية، خاصة مع الأحماض والقلويات والأملاح، كما تتمتع بمقاومة جيدة للعوامل الجوية المختلفة وتأثيرات التربة.
 - لا تحتوي على أي مواد سامة، لذلك لا تؤثر على طعم أو لون أو رائحة المياه أو السوائل الأخرى المنقولة خلالها.
 - تتميز بأسطح داخلية ملساء تساعد على تحسين انسيابية السوائل والحد من تكوّن الرواسب داخل الأنابيب.
 - خفيفة الوزن، مما يسهل عمليات النقل والمناولة والتركيب والقطع، كما تُعد اقتصادية في الاستخدام مع جميع ملحقاتها، حيث يمكن تركيبها باستخدام الوصلات اللاصقة أو الحلقات المطاطية، بالإضافة إلى سهولة وسرعة أعمال الصيانة.
 - مقاومة للاشتعال، إذ يصعب اشتعالها وتمتلك خاصية الإطفاء الذاتي.
 - تتميز بخواص عزل كهربائي جيدة، مما يجعلها مناسبة للاستخدام في القنوات الكهربائية وفي مختلف ظروف التشغيل.
 - وقد أثبتت أنابيب U.P.V.C كفاءتها العملية من خلال استخدامها على مدى أكثر من أربعين عامًا في العديد من التطبيقات الهندسية المختلفة.

Advantages of U.P.V.C Pipes

U.P.V.C pipes are characterized by a range of technical properties that make them suitable for various fluid conveyance applications and infrastructure networks.

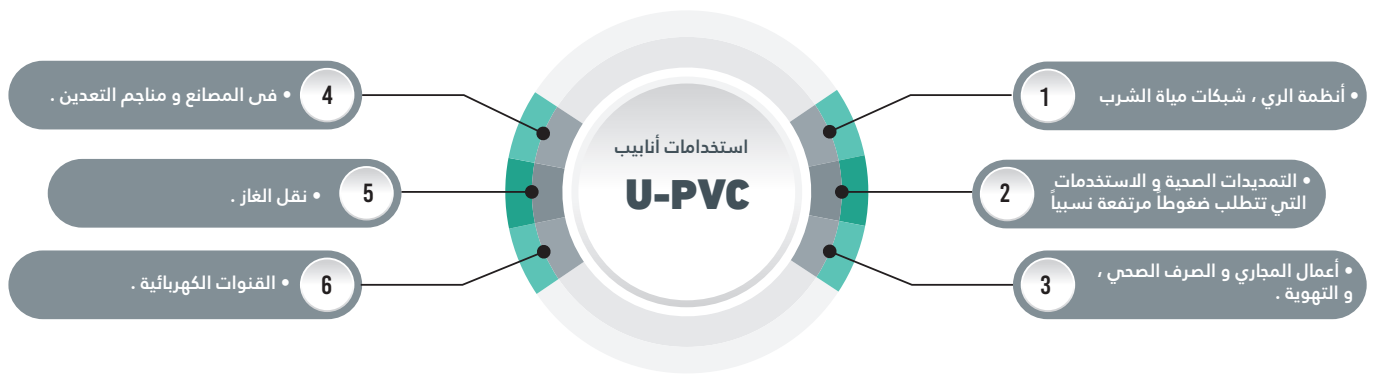
- They offer high resistance to chemical reactions, particularly against acids, alkalis, and salts, and also provide good resistance to different weathering conditions and soil effects.
- They do not contain any toxic substances and therefore do not affect the taste, color, or odor of water or other conveyed fluids.
- They have smooth internal surfaces that help improve flow characteristics and reduce the formation of deposits inside the pipes.
- They are lightweight, which facilitates transportation, handling, installation, and cutting. They are also economical in use with all related fittings, as they can be joined using solvent cement joints or rubber ring joints, in addition to the ease and speed of maintenance operations.
- They are resistant to ignition, as they are difficult to ignite and possess self-extinguishing properties.
- They provide good electrical insulation properties, making them suitable for use in electrical conduit applications and under various operating conditions.
- U.P.V.C pipes have demonstrated proven performance through more than forty years of use in a wide range of engineering applications.



Application of U-PVC Pipes

استخدامات أنابيب اليو بي في سي

- أنظمة الري ، شبكات مياه الشرب ،
- التمديدات الصحية وجميع الاستخدامات التي تتطلب ضغطاً مرتفعاً نسبياً
- Sanitary and any other under pressure System.
- أعمال المجاري و الصرف الصحي ، و التهوية .
- Drainage, sewer system and ventilation.
- فى المصانع و مناجم التعدين .
- Industry and mining.
- نقل الغاز .
- Gasline Pipes.
- القنوات الكهربائية .
- Conduits.



جدول يبين الاصناف المناسبة للاستعمالات المقابلة
Table shows series what suit kind of application

الصف Series Or Class			الضغط التشغيلي في الدرجة 20 مئوية Working Pressure At 20°C BAR			الاستعمال Application
5	4	3	16	10	6	الري Irrigation
5	4	-	16	10	-	شبكات المياه Water Supply
5	4	-	16	10	-	التمديدات المنزلية - Sanitary
-	4	3	-	10	6	الصرف الصحي Drainage
-	-	3	-	-	6	المجاري و التهوية Sewer - Ventilation
5	4	3	16	10	6	المصانع ونقل الغاز Mining Gaslines
-	-	3	-	-	6	القنوات الكهربائية Conduits







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FOR STANDARDIZATION

Table 1: Nominal outside diameters and tolerances

Dimensions in millimetres			
Nominal outside diameter	Tolerance for mean outside diameter, d_{em}^a	Tolerance for out-of-roundness ^b	
d_n	x	S 20 to S 16 ^c	S 12,5 to S 5 ^d
12	0,2	—	0,5
16	0,2	—	0,5
20	0,2	—	0,5
25	0,2	—	0,5
32	0,2	—	0,5
40	0,2	1,4	0,5
50	0,2	1,4	0,6
63	0,3	1,5	0,8
75	0,3	1,6	0,9
90	0,3	1,8	1,1
110	0,4	2,2	1,4
125	0,4	2,5	1,5
140	0,5	2,8	1,7
160	0,5	3,2	2,0
180	0,6	3,6	2,2
200	0,6	4,0	2,4
225	0,7	4,5	2,7
250	0,8	5,0	3,0
280	0,9	6,8	3,4
315	1,0	7,6	3,8
355	1,1	8,6	4,3
400	1,2	9,6	4,8
450	1,4	10,8	5,4
500	1,5	12,0	6,0
560	1,7	13,5	6,8
630	1,9	15,2	7,6
710	2,0	17,1	8,6
800	2,0	19,2	9,6
900	2,0	21,6	--
1 000	2,0	24,0	--

a) The tolerance conforms to grade D of ISO 11922 - 1 [3] for $d_n \leq 50$ and to grade C for $d_n > 50$. The tolerance is expressed in the form $^{+x}_0$ mm, where x is the value of the tolerance.

b) The tolerance is expressed as the difference between the largest and the smallest outside diameter in a cross-section of the pipe (i.e. $d_{e, \max} - d_{e, \min}$).

c) For $d_n \leq 250$, the tolerance conforms to grade N of ISO 11922 - 1 [3]. For $d_n > 250$, the tolerance conforms to grade M of ISO 11922 - 1 [3]. The requirement for out-of-roundness is only applicable prior to storage.

Table 2: Nominal (minimum) wall thicknesses

Nominal outside diameter, d_n	Nominal pressure PN based on design coefficient $C = 2,0^a$						
	PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
110	2,7	3,4	4,2	5,3	6,6	8,1	10,0
125	3,1	3,9	4,8	6,0	7,4	9,2	11,4
140	3,5	4,3	5,4	6,7	8,3	10,3	12,7
160	4,0	4,9	6,2	7,7	9,5	11,8	14,6
180	4,4	5,5	6,9	8,6	10,7	13,3	16,4
200	4,9	6,2	7,7	9,6	11,9	14,7	18,2
225	5,5	6,9	8,6	10,8	13,4	16,6	—
250	6,2	7,7	9,6	11,9	14,8	18,4	—
280	6,9	8,6	10,7	13,4	16,6	20,6	—
315	7,7	9,7	12,1	15,0	18,7	23,2	—
355	8,7	10,9	13,6	16,9	21,1	26,1	—
400	9,8	12,3	15,3	19,1	23,7	29,4	—
450	11,0	13,8	17,2	21,5	26,7	33,1	—
500	12,3	15,3	19,1	23,9	29,7	36,8	—
560	13,7	17,2	21,4	26,7	—	—	—
630	15,4	19,3	24,1	30,0	—	—	—
710	17,4	21,8	27,2	—	—	—	—
800	19,6	24,5	30,6	—	—	—	—
900	22,0	27,6	—	—	—	—	—
1000	24,5	30,6	—	—	—	—	—

Nominal outside diameter, d_n	Pipe series S						
	Nominal (minimum) wall thickness						
	S 20 (SDR 41)	S 16 (SDR 33)	S 12,5 (SDR 26)	S 10 (SDR 21)	S 8 (SDR 17)	S 6,3 (SDR 13,6)	S 5 (SDR 11)
	Nominal pressure PN based on design coefficient $C = 2,5$						
		PN 6	PN 8	PN 10	PN 12.5	PN 16	PN 20
12		—	—	—	—	—	1,5
16		—	—	—	—	—	1,5
20		—	—	—	—	1,5	1,9
25		—	—	—	1,5	1,9	2,3
32		—	1,5	1,6	1,9	2,4	2,9
40		1,5	1,6	1,9	2,4	3,0	3,7
50		1,6	2,0	2,4	3,0	3,7	4,6
63		2,0	2,5	3,0	3,8	4,7	5,8
75		2,3	2,9	3,6	4,5	5,6	6,8
90		2,8	3,5	4,3	5,4	6,7	8,2

• a To apply a design coefficient of 2,5 (instead of 2,0) for pipes with nominal diameters above 90 mm, the next higher pressure rating, PN, shall be chosen.

• **NOTE 1** The nominal wall thicknesses conform to ISO 4065^[4].

• **NOTE 2** The PN 6 values for S 20 and S 16 are calculated with the preferred number 6,3.

Table 3: Dimensions of sockets for solvent cementing

Dimensions in millimetres				
Nominal inside diameter of socket	Mean inside diameter of socket		Maximum out-of-roundness for d_i	Minimum socket length
d_n	$d_{im, min}$	$d_{im, max}$	a	L_{min}^b
12	12,1	12,3	0,25	12,0
16	16,1	16,3	0,25	14,0
20	20,1	20,3	0,25	16,0
25	25,1	25,3	0,25	18,5
32	32,1	32,3	0,25	22,0
40	40,1	40,3	0,25	26,0
50	50,1	50,3	0,3	31,0
63	63,1	63,3	0,4	37,5
75	75,1	75,3	0,5	43,5
90	90,1	90,3	0,6	51,0
110	110,1	110,4	0,7	61,0
125	125,1	125,4	0,8	68,5
140	140,2	140,5	0,9	76,0
160	160,2	160,5	1,0	86,0
180	180,2	180,6	1,1	96,0
200	200,2	200,6	1,2	106,0
225	225,3	225,7	1,4	118,5
250	250,3	250,8	1,5	131,0
280	280,3	280,9	1,7	146,0
315	315,4	316,0	1,9	163,5
355	355,4	356,1	2,0	183,5
400	400,4	401,2	2,0	206,0

a The out-of-roundness tolerances are rounded values of 0,25 grade M to ISO 11922 - 1^[3].

b The minimum socket lengths are equal to $(0,5d_n + 6 \text{ mm})$ or 12 mm if $(0,5d_n + 6 \text{ mm}) \leq 12 \text{ mm}$.

6.6.2 Sockets for elastomeric ring seal type joints

The minimum depth of engagement, m_{min} , of single sockets with elastomeric ring seal joints (see Figure 3) is based on pipe lengths up to 12 m and shall conform to Table 5.

The wall thickness of the sockets at any point, except the sealing ring groove, shall not be less than the minimum wall thickness of the connecting pipe. The wall thickness of the sealing ring groove shall not be less than 0,8 times the minimum wall thickness of the connecting pipe.

The requirements for mean inside diameters, d_{im} , of sockets shall apply at the midpoint of the depth of engagement, m .

Table 4: Requirements for the falling weight impact test

Nominal outside diameter dn mm	Medium level M			High level H		
	Mass of falling weight	Fall height	Impact energy ^a	Mass of falling weight	Fall height	Impact energy ^a
	kg	m	Nm	kg	m	Nm
20	0,5	0,4	2	0,5	0,4	2
25	0,5	0,5	2,5	0,5	0,5	2,5
32	0,5	0,6	3	0,5	0,6	3
40	0,5	0,8	4	0,5	0,8	4
50	0,5	1,0	5	0,5	1,0	5
63	0,8	1,0	8	0,8	1,0	8
75	0,8	1,0	8	0,8	1,2	9,5
90	0,8	1,2	9,5	1,0	2,0	20
110	1,0	1,6	16	1,6	2,0	31
125	1,25	2,0	25	2,5	2,0	49
140	1,6	1,8	28	3,2	1,8	57
160	1,6	2,0	31	3,2	2,0	63
180	2,0	1,8	35	4,0	1,8	71
200	2,0	2,0	39	4,0	2,0	78
225	2,5	1,8	44	5,0	1,8	88
250	2,5	2,0	49	5,0	2,0	98
280	3,2	1,8	57	6,3	1,8	111
≥ 315	3,2	2,0	63	6,3	2,0	124

a Based on $g = 9,81 \text{ m/s}^2$.

b For less than 10, rounded off to 0,5; for greater than 10, rounded off to integers.

8.2 Resistance to internal pressure

Pipes shall withstand, without bursting or leakage, the hydrostatic stress induced by internal hydrostatic pressure when tested in accordance with ISO 11671-, using the test conditions specified in Table 7.

For this test, end caps type A or B in accordance with ISO 11671- may be used. In case of dispute, end caps type A shall be used.



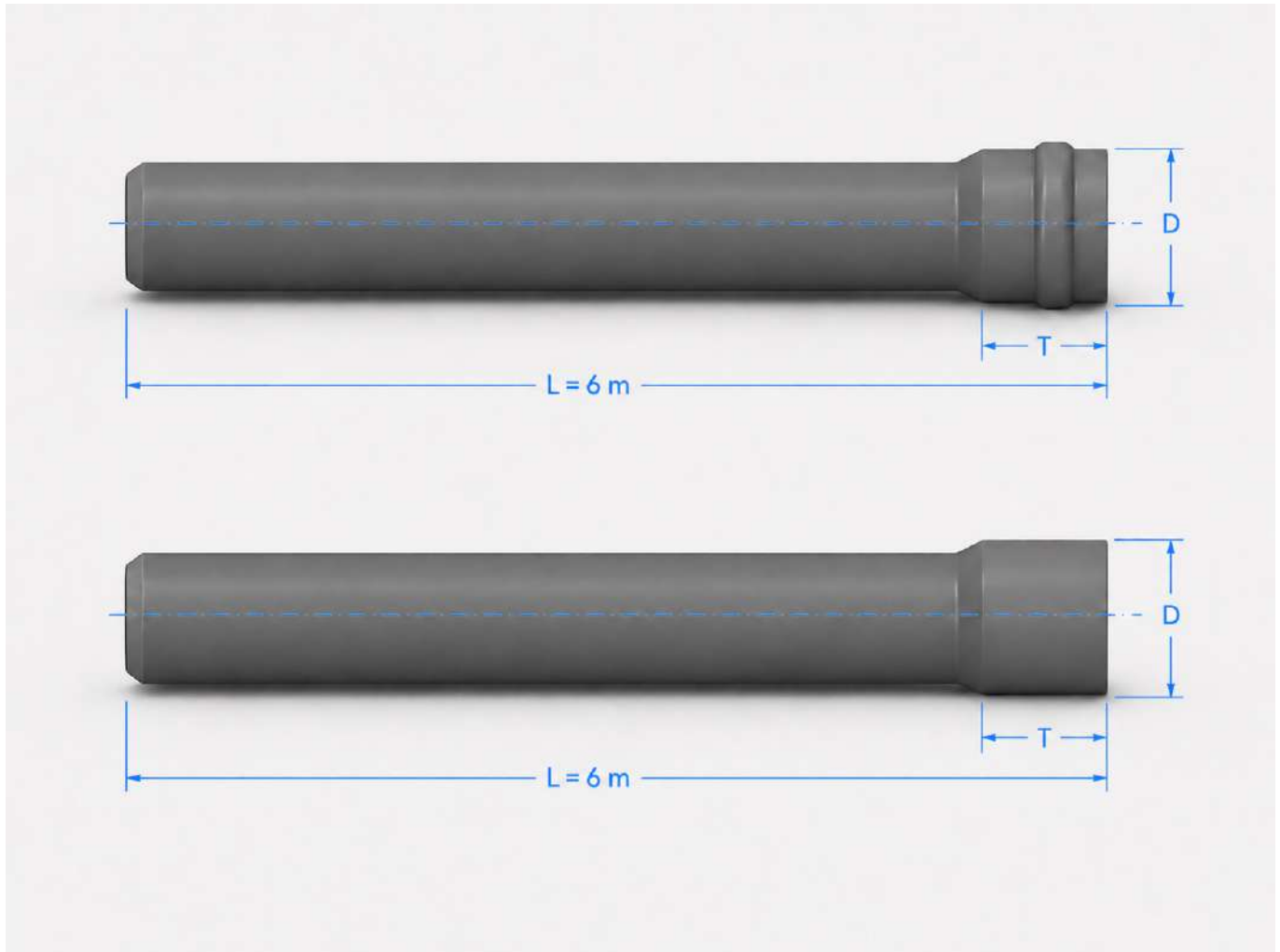
INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

Joints

Tamdidat Aljazeera U-PVC Pipes are manufactured by tow types.

1 - Solvent Cement Joint.

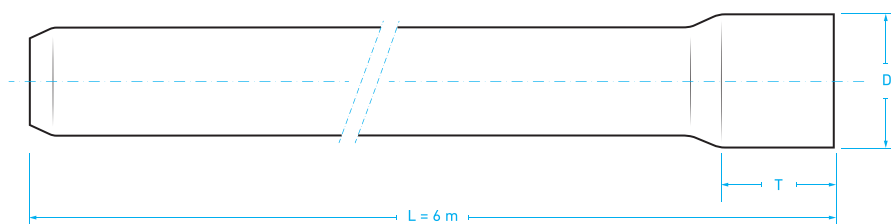
2 - «A» Rubber Joint.



T	Socket Depth
D	O.D of Socket
L	Length of Pipe

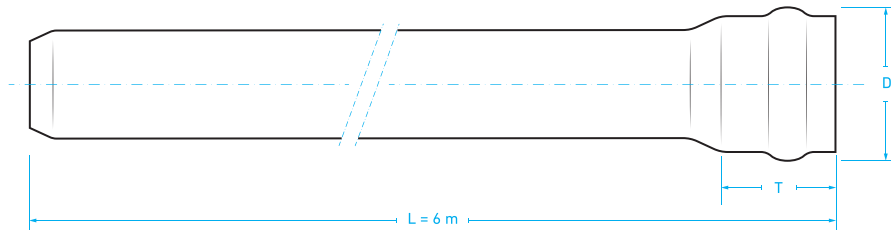
Tamdidat Aljazeera

U-PVC Pipes are 6m standard length. Other length can be supplied by arrangement.



Solvent Cement Joints Dimensions

Size (O.D)	Class	D : O.D of Socket	T: Socket Depth
16	5	19	30
20	5	24	32
25	4	28	33
	5	29	
32	4	36	35
	5	37	
40	3	44	38
	4	45	
	5	47	
50	3	54	48
	4	56	
	5	58	
63	3	67	65
	4	70	
	5	73	
75	3	80	72
	4	83	
	5	87	
90	3	96	85
	4	99	
	5	105	
110	3	117	93
	4	122	
	5	128	
125	3	131	102
	2	167	
160	3	170	120
	4	176	
	5	185	
	2	210	
200	3	213	145
	4	221	
	5	232	
	2	235	
225	3	241	160
	4	249	
	5	285	
	2	261	
250	3	266	175
	4	276	
	5	289	
	2	261	



Rubber Joints Dimensions

Size (O.D)	Class	D : O.D of Socket	T: Socket Depth
63	3	84	105
	4	86	
	5	90	
75	3	99	108
	4	101	
	5	105	
90	3	116	112
	4	119	
	5	125	
110	3	139	118
	4	143	
	5	150	
160	3	195	135
	4	202	
	5	211	
200	3	242	150
	4	249	
	5	260	
225	3	268	155
	4	227	
	5	291	
250	3	296	166
	4	306	
	5	322	
280	3	331	176
	4	342	
	5	361	
315	3	370	190
	4	383	
	5	403	
400	2	460	230
	3	470	
	4	481	
	5	515	

Dimensions of UPVC Pipe (BASED on DIN 8062 & SASO 14)

NOMINAL DIMENSIONS									
CLASSES		CLASSES 2		CLASSES 3		CLASSES 4		CLASSES 5	
Pressure es Bart		4		6		10		16	
Nominal Out. Di mm	Nominal In. Di mm	Wall Thick mm	Weight Kg/m	Wall Thick mm	Weight Kg/m	Wall Thick mm	Weight Kg/m	Wall Thick mm	Weight Kg/m
16	+0.2	-	-	-	-	-	-	1.2	0.090
20	+0.2	-	-	-	-	-	-	1.5	0.132
25	+0.2	-	-	-	-	1.5	0.174	1.9	0.212
32	+0.2	-	-	-	-	1.8	0.264	2.4	0.342
40	+0.2	-	-	1.8	0.334	1.9	0.350	3.0	0.525
50	+0.2	-	-	1.8	0.422	2.4	0.552	3.7	0.859
63	+0.2	-	-	1.9	0.562	3.0	0.854	4.7	1.290
75	+0.3	1.8	0.642	2.2	0.782	3.6	1.225	5.6	1.820
90	+0.3	1.8	0.774	2.7	1.130	4.3	1.750	6.7	2.610
110	+0.3	2.2	1.160	3.2	1.640	5.3	2.610	8.2	3.900
125	+0.3	2.5	1.480	3.7	2.130	6.0	3.340	9.3	5.010
140	+0.3	2.8	1.840	4.1	2.650	6.7	4.180	10.4	6.270
160	+0.4	3.2	2.415	4.7	3.440	7.7	5.470	11.9	8.170
200	+0.5	4.0	3.730	5.9	5.370	9.6	8.510	14.9	12.800
225	+0.5	4.5	4.700	6.6	6.760	10.8	10.800	16.7	16.100
250	+0.6	4.9	5.650	7.3	8.310	11.9	13.200	18.6	19.900
280	+0.6	5.5	7.115	8.2	10.400	13.4	16.600	20.8	24.900
315	+0.7	6.2	9.020	9.2	13.200	15.0	20.900	23.4	31.500
355	+0.7	7.0	11.450	10.4	16.730	16.9	26.500	26.3	39.900
400	+0.7	7.9	14.500	11.7	21.100	19.1	33.700	29.7	50.800
500	+0.9	9.8	22.400	14.6	32.900	23.9	52.600	-	-
630	+1.1	12.4	35.700	18.4	52.200	30.0	83.200	-	-

uPVC Sewer Pipes (Gravity) According to
DIN 8061 / DIN 8062 Application : Sewer Pipe Gravity

Nominal Size (mm)	Outside Diameter mm		Wall Thickness mm		Weight Kg/m
	(D)	Tolerance	(S)	Tolerance	
110	110	0.3	3.2	+ 0.6	1.64
160	160	0.4	4.7	+ 0.7	3.440
200	200	0.4	5.9	+ 0.8	5.370
250	250	0.5	7.3	+ 1.0	8.310
315	315	0.6	9.2	+ 1.2	13.2
400	400	0.7	11.7	+ 1.4	21.1
500	500	0.9	14.6	+ 1.7	32.90
630	630	1.1	16.4	+ 2.2	52.2





ASTM INTERNATIONAL

مقاسات أنابيب (uPVC) وفق المواصفات والمقاييس الأمريكية
Dimensions of uPVC Pipes (Based on Astm D 1785 Schedule 40 & 80)

Nominal Size in Inch	O.D.MM		Schedule 40			Schedule 80		Weight Kg/m
			Thickness mm		Weight Kg/m	Thickness mm		
	Min.	Max	Min.	Max		Min.	Max	
½	21.2	21.44	2.8	3.3	0.24	3.7	4.2	0.31
¾	26.6	26.77	2.9	3.4	0.33	3.9	4.4	0.41
1	33.27	33.53	3.4	3.9	0.48	4.6	5.1	0.60
1¼	42.1	42.29	3.6	4.1	0.65	4.9	5.4	0.84
1½	48.1	48.4	3.7	4.2	0.77	5.1	5.7	1.03
2	60.2	60.5	3.9	4.4	1.04	5.5	6.2	1.41
3	88.7	89.1	5.5	6.2	2.14	7.6	8.5	2.88
4	114.1	114.5	6.0	6.7	3.05	8.6	9.6	4.22
6	168.0	168.6	7.1	8.0	5.37	11.0	12.3	8.05
8	218.7	219.4	8.2	9.2	8.11	12.7	12.9	-

PIPE - SDR	41	32.5	26	21	17	13.5
RATING P.S.I	100	125	160	200	250	315

Conforming to ASTM D2241
color white plain end or solvent socket standard length 6.0 meter.
PRESSURE RATING 23°C



Water Pressure ratings at 73°F (23°C) for
Schedule 40 and 80 Plastic (psi) According to ASTM D1785

Nominal Pipe Size, Inch	Schedule 40	Schedule 80 Unthreaded
½	300	420
¾	240	340
1	220	320
1¼	180	260
1½	170	240
2	140	200
3	130	190
4	110	160
6	90	140
8	80	120



STANDARD DIMENSION RATIO PIPE (SDR) UPVC PIPES ACCORDING TO
ASTM D 2241 - Application : Pressure pipes

Nominal Pipe Size Inch	Nominal Outside Diameter (mm)		Wall Thickness (mm) Standard Dimension Ratio (SDR)											
			41 W.P: 6.9 Bar		32.6 W.P: 8.6 Bar		26W.P: 11 Bar		21 W.P: 13.8 Bar		17 W.P: 17.2 Bar		13.5 W.P: 21.7 Bar	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
½	21.24	21.44	-	-	-	-	-	-	-	-	-	-	1.57	2.08
¾	26.57	26.77	-	-	-	-	-	-	1.52	2.03	1.57	2.08	1.98	2.49
1	33.27	33.53	-	-	-	-	1.52	2.03	1.60	2.11	1.96	2.46	2.46	2.97
1¼	42.03	42.29	-	-	1.52	2.03	1.63	2.13	2.01	2.52	2.49	3.00	3.12	3.63
1½	48.11	48.41	-	-	1.52	2.03	1.85	2.36	2.29	2.80	2.84	3.35	3.58	4.09
2	60.17	60.47	-	-	1.85	2.36	2.31	2.82	2.87	3.38	3.56	4.06	4.47	4.98
3	88.70	89.10	2.16	2.67	2.74	3.25	3.43	3.94	4.24	4.75	5.23	5.87	6.58	7.37
4	114.07	114.53	2.80	3.30	3.51	4.01	4.39	4.90	5.44	6.10	6.73	7.54	8.46	9.49
6	168.0	168.56	4.11	4.62	5.18	5.79	6.48	7.26	8.03	9.00	9.91	11.10	12.47	13.97
8	218.7	219.46	5.33	5.97	6.73	7.54	8.43	9.45	10.41	11.66	12.90	14.45	-	-

CPVC PIPE

CHLORINATED POLYVINYL CHLORIDE HOT WATER PIPES

C-PVC PIPES for Hot Water

cPVC pipes (Chlorinated Polyvinyl Chloride) are used in hot systems, where temperature degree could reach boiling levels as well as cold water distribution systems.

It combine performance, durability and cost savings in addition to safety.





**Electrical Plastic Tubing (EPT) and Conduit
(EPC - 40 and EPD - 80) NEMA STANDARD**

المواصفات القياسية الأمريكية (نيمما)

مقاسات أنابيب (cPVC) وفق المواصفات والمقاييس الأمريكية

Dimensions of cPVC Pipes (Based on Astm F 441 Schedule 40 & 80) SASO 1517 / 1999

Nominal Size in Inch	O.D.MM		Schedule 40			Schedule 80		
			Thickness mm		Weight Kg/m	Thickness mm		Weight Kg/m
	Min.	Max	Min.	Max		Min.	Max	
1/2	21.2	21.4	2.8	3.3	0.269	3.7	4.2	0.336
3/4	26.6	26.8	2.9	3.4	0.359	3.9	4.4	0.457
1	33.4	33.5	3.4	3.9	0.527	4.6	5.1	0.671
1 1/4	42.1	42.3	3.6	4.1	0.713	4.9	5.4	0.928
1 1/2	48.1	48.4	3.7	4.2	0.851	5.1	5.7	1.13
2	60.2	60.5	3.9	4.4	1.14	5.5	6.2	1.56
3	88.7	89.1	5.5	6.2	2.36	7.6	8.5	3.18
4	114.1	114.5	6.0	6.7	3.35	8.6	9.6	4.65
6	168.0	168.6	7.1	8.0	5.91	11.0	12.3	8.88



DIMENSION of PVC TUBING AND CONDUIT for above and below ground use
Dimensions Based on NEMA TC2

Nominal Size " Inch	Average outside diameter mm	EPT - A - PVC		EPC - 40 - PVC		EPC - 80 - PVC	
		Wall Thickness (Min) mm	wall thickness (Max) mm	Wall Thickness (Min) mm	wall thickness (Max) mm	Wall Thickness (Min) mm	wall thickness (Max) mm
½	21.34	1.52	2.03	2.77	3.28	3.73	4.24
¾	26.67	1.52	2.03	2.87	3.38	3.91	4.42
1	33.40	1.52	2.03	3.38	3.89	4.55	5.08
1¼	42.16	1.78	2.29	3.56	4.06	4.85	5.43
1½	48.26	2.03	2.54	3.68	4.19	5.08	5.69
2	60.32	2.54	3.05	3.91	4.42	5.54	6.20
3	88.90	3.18	3.68	5.49	6.15	7.62	8.53
4	114.30	3.81	4.32	6.02	6.73	8.56	9.58
6	168.28	-	-	7.11	7.98	10.97	12.29

- EPT - A Electrical Plastic Tubing - Designed to be encased in concrete.
 EPT - 40 Electrical Plastic Conduit - Designed for normal duty application.
 EPT - 80 Electrical Plastic Conduit - Designed for heavy duty application.
 All EPC - A - PVC and EPC - 40 - PVC and EPC - 80 - PVC shall be gray color.



NEMA TC- 6 and ASTM F512 Dimension PVC Type EB 20

Nom Pipe Size Inch	Outside Die	Wall Thick (Minimum)	Net Weight	Wall Thick	Net Weight
Inch	mm	mm	Kgs / M	Min. mm	Kgs / M
2	60.32	1.52	0.463	1.52	0.465
3	88.90	1.55	0.702	2.34	1.000
4	114.30	2.08	1.170	3.07	1.650
5	141.30	2.62	1.710	3.86	2.500
6	168.28	3.18	2.530	4.62	3.570

- Type EB for Encased Burial in Concrete.
- Type DB for Direct Burial without Concrete.

NEMA TC- 8 and ASTM F512 Dimension

Nom Pipe Size Inch	Outside Die	Wall Thick (Minimum)	Net Weight	Wall Thick	Net Weight
Inch	mm	mm	Kgs / M	Min. mm	Kgs / M
1	33.40	-	-	1.52	0.251
1½	48.26	-	-	1.52	0.369
2	60.32	1.52	0.465	1.96	0.576
3	88.90	1.93	0.847	3.00	1.250
4	114.30	2.54	1.390	3.91	2.050
5	141.30	3.20	2.090	4.85	3.120
6	168.28	3.86	3.020	5.77	4.420



Tamdidat Aljazeera Rigid PVC Electrical Plastic Tubing (EPT) & Conduit (EPC - 40 and EPC - 80)

NEMA TC- 6 and ASTM F512 Dimension PVC Type EB 20

Nominal	Outside		EPT - A - PVC		EPC - 40 - PVC		EPC - 80 - PVC	
Pipe Size	Dia		W/Thick	N.Weight	W/T	N.Weight	W/T	N.Weight
Inch	Inch	mm	mm	Kgs/M	mm	Kgs/M	mm	Kgs/M
½	0.840	21.340	1.52	0.155	2.77	0.248	3.73	0.309
¾	1.050	26.670	1.52	0.197	2.87	0.329	3.91	0.418
1	1.315	33.400	1.52	0.250	3.38	0.483	4.55	0.614
1¼	1.660	42.160	1.78	0.365	3.56	0.652	4.85	0.850
1½	1.900	48.260	2.03	0.468	3.68	0.779	5.08	1.030
2	2.376	60.320	2.54	0.717	3.91	1.040	5.54	1.430
2½	2.876	73.020	2.79	0.952	5.16	1.650	7.01	2.180
3	3.502	88.900	3.18	1.310	5.49	2.160	7.62	2.900
4	4.503	114.30	3.81	2.000	6.02	3.070	8.56	4.260
5	5.567	141.30	-	-	6.55	4.170	9.52	5.910
6	6.629	168.28	-	-	7.11	5.410	10.97	8.130
8	8.631	219.08	-	-	8.18	8.143	12.70	12.40

- EPT - A - PVC Electrical Plastic Tubing for encasement in concrete.
- EPC 40 (Sch 80) Electrical Plastic Conduit for normal duty.
- EPC 80 (Sch 80) Electrical Plastic Conduit for heavy duty.



التحميل و التخزين

مواسير تمديدات الجزيرة بي في سي ، يجب نقلها وتحميلها وتنزيلها بكل عناية وإهتمام لتجنب حدوث أية أضرار ميكانيكية أثناء ذلك ، ويجب تكديسها على شكل طبقات وبحيث تكون المواسير بعكس بعضها وكما هو موضح بالصور ولا يجب رصها بكميات كبيرة خاصة عند درجات حرارة مرتفعة حتى لا يؤدي ذلك الى اية إنبعاجات أو تلف في الوصلات .

وفي حال تخزينها في مستودعات ولمدة طويلة يجب وضعها على أرضية مستقيمة أو عوارض أو دعائم مستقيمة لا يقل عرضها عن 75 ملم وأن لا يزيد المسافات بين الدعائم عن متر واحد ويجب أيضاً أن لا يزيد ارتفاع الرصة عن 7 طبقات أو 1,75 متر أيها أقل ، وفي حال رص أصناف مختلفة يجب أن تكون الأصناف من النوع الواحد في نفس الصف و الأصناف ذات السماكة الأعلى في الأسفل .

Handling & Storage

U-PVC Should be handled with care to avoid mechanical damage before installation. pipes should not be stacked in large pipes especially as under warm temperature condition the bottom pipes may distort, thus giving rise to difficulty in pipe alignment and joining at sites. Socketed pipes should be stacked in layers with sockets placed at alternate ends of the stack and with sockets protruding so as to avoid lop - sided stacks and the imparting of a permanent set to the pipes.

For long term storage, the pipes should be stored either on flat level floors or pipe racks which provide continuous support. If this is not possible supports of at least 75mm bearing width at spacing not greater than 1 meter centres should be placed beneath the pipes.

In such racks the pipes may be stored not more than seven layers high or max 1.75 meters whichever is lower if different classes of pipes are kept in the same rack then the thickest classes must always be at the bottom.

التخزين في الموقع

يجب الاهتمام في تخزين المواسير في مواقع العمل والتنفيذ بحيث يتم وضع المواسير على أرضية مستقيمة خالية من الأحجار ولا يجب أن يزيد تكديسها عن ثلاث طبقات ويجب ان تكون المواسير في جميع الأحوال محمية من أشعة الشمس المباشرة ومن درجات الحرارة العالية خاصة في فصل الصيف .

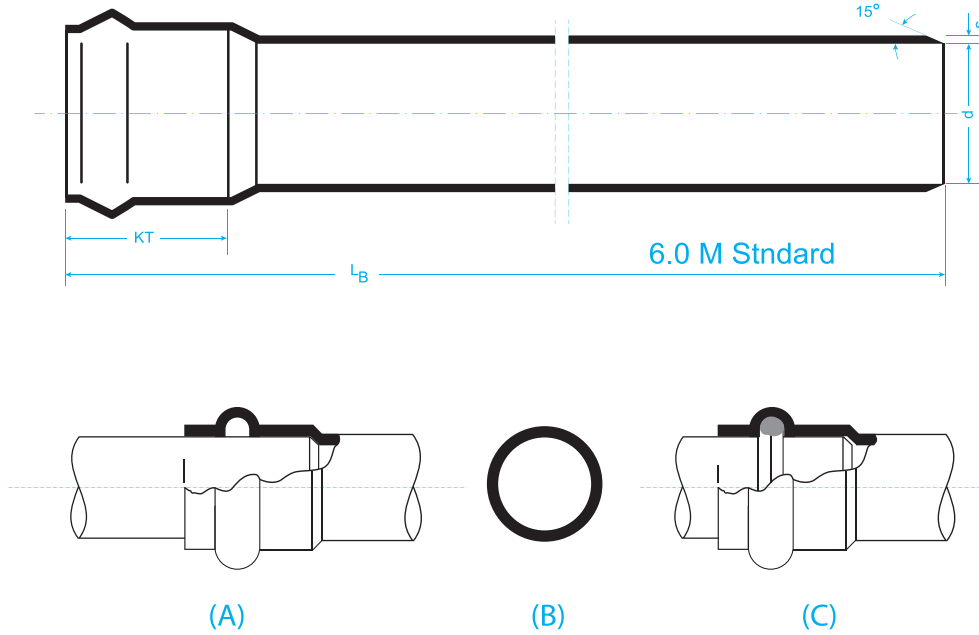
Field Storage

For temporary storage in the field / site where racks are not provided, care should be taken that the ground is level and free from loose stones.

Pipes stored in the field should not exceed three layers and should be either stored in the shade or covered to prevent excess heating under direct sunlight when the temperature of dark colored UPVC pipes can reach 60oC to 70oC in summer.



uPVC Pipe with wallthickened socket joint (Rubber Joint)
of unplasticized Poly vinyl chloride (uPVC) .



- يجب تأكد من أن نهاية الأنبوبة والوصله خاليان من الغبار ، وجافة .
- دخل الأنبوبة في الوصله بدون الحلقة المطاطية ثم ضع علامة على الأنبوب عند إدخاله بالكامل.
- ثم ضع الحلقة المطاطية في فتحة التجويف
- يجب ان تكون نهاية الماسورة مشطوفة بحيث يمكنها الدخول فى نهاية الماسورة الاخرى بسهولة
- ادخل الأنبوب في الجلبة إلى العلامة التي تم إجراؤها مسبقًا.

- Ensure that the spigot and socket are free from dust, and as dry as possible .
- Insert pipe into the socket without seal ring place and mark pipe when it fully inserted.
- Place seal in groove of socket ensuring that seal is correct way round .
- Must be the end of the pipe chamfered , so be viable to enter into the other end of the pipe easily.
- Push the pipe firmly into the socket up to the insertion mark previously made .

طرق التركيب

تتوفر أنابيب تمديدات الجزيرة بأطوال قياسية بطول 6 أمتار. ويمكن توفيرها بأطوال أخرى حسب طلب العميل .
توصيل الأنابيب :

يتم توصيل أنابيب تمديدات الجزيرة بطرق عديدة:

1 - انبوب ذات نهاية عادية (PE) مع وصلات منفصلة.

2 - انبوبة ذات الحلقة المطاطية (RR)

3 - انبوب ذات وصلة غراء (SC)

يمكن توفير الأنابيب مع طرفي النهايات مشنفرة (DC) بأطوال 6 أمتار أو أطول مختلفة ، حسب الطلب .

AlJazeera Extensions pipes are available in standard lengths of 6 meters. Other lengths can also be supplied upon customer request.

Pipe Jointing:

AlJazeera Extensions pipes can be joined using several methods:

01 - Plain End Pipe (PE) with separate fittings.

02 - Rubber Ring Pipe (RR).

03 - Solvent Cement Socket Pipe (SC).

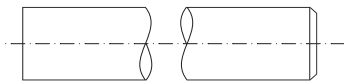
Pipes can also be supplied with double-chamfered ends (DC) in standard 6-meter lengths or in other lengths upon request.

installation

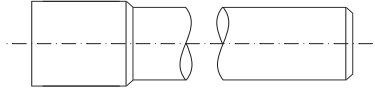
Tamdidat Aljazeera pipes are available in nominal standard lengths of 6 meters. Other lengths can be supplied by arrangement customer requiremnt.

Pipe Joint-Tamdidat Aljazeera pipes are supplied with various joint system.

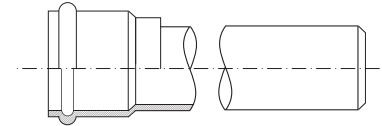
Plain Ended (PE) pipe for use with separate Couplings, Rubber Ring, Solvent (Adhesive) Weld or Special Fittings. Pipe can also be supplied with both ends chamfered (DC) if requested, in lengths of 6 metres ather lengths can be supplied.



Plain Socket Solvent Weld Joint



Rubber Ring joint



Rubber ring joints (R/J).

Pipes are supplied with integral grooved socket at one end incorporating elastomeric sealing ring.

توصيل الحلقات المطاطية (RRJ) :

يتم تصنيع الانابيب بنهاية ذات تجويف داخلي لوضع حلقة مطاطية مانعة للتسرب.



