



PVC
PIPES CATALOGUE
U.PVC & C.PVC



Al-Watania Plastics



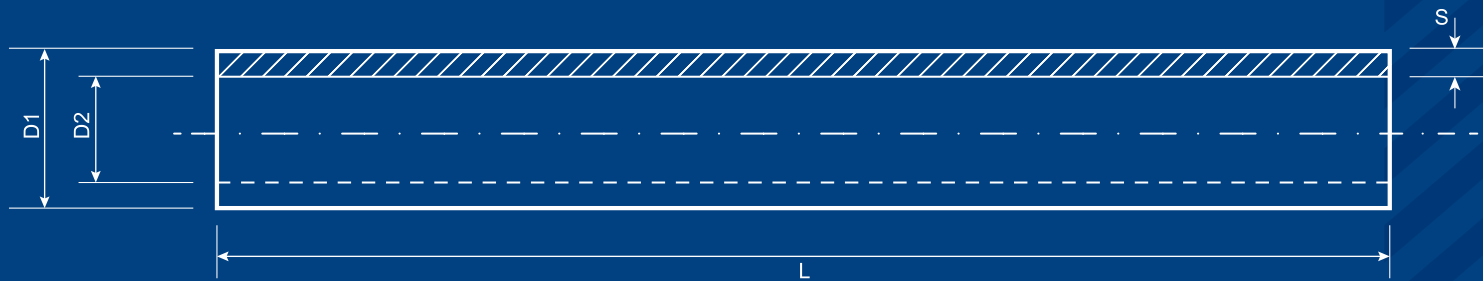
بلاستيك الوطنية



بلاستيك الوطنية
Al-Watania Plastics

American standard specification

المواصفات القياسية الأمريكية

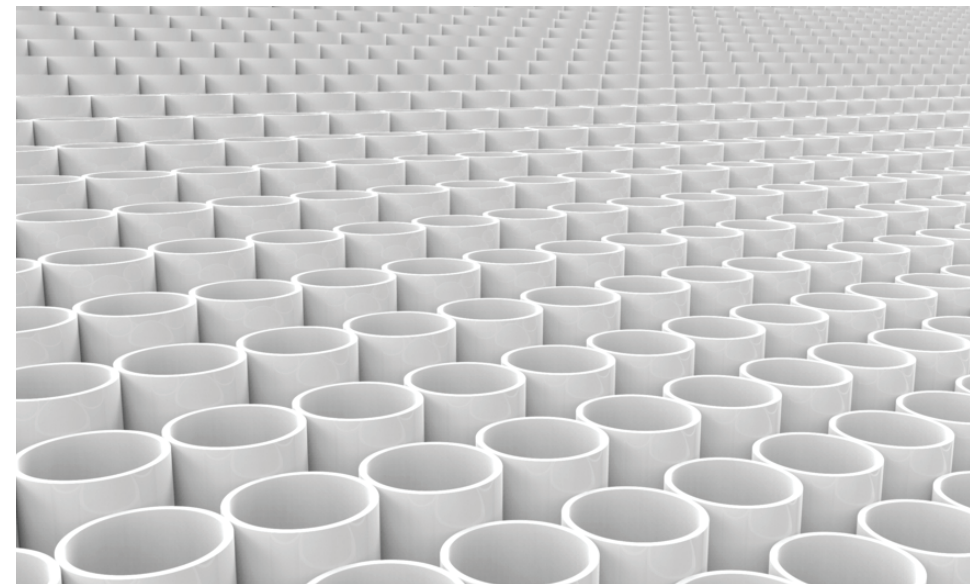


Dimensions of uPVC Pipes Manufactured to ASTM D1785 Specifications .

Nominal Pipe Size Inches	Outside Diameter mm	Schedule 40			Schedule 80		
		Wall Thickness mm	Working Pressure		Wall Thickness mm	Working Pressure	
			PSI	Bars		PSI	Bars
½	21.34 ± 0.10	2.77 + 0.51	600	41.3	3.73 + 0.51	850	58.6
¾	26.67 ± 0.10	2.87 + 0.51	480	33.1	3.91 + 0.51	690	47.5
1	33.40 ± 0.13	3.38 + 0.51	450	31.0	4.55 + 0.53	630	43.5
1¼	42.16 ± 0.13	3.56 + 0.51	370	25.5	4.85 + 0.58	520	35.8
1½	48.26 ± 0.15	3.68 + 0.51	330	22.8	5.08 + 0.61	470	32.4
2	60.32 ± 0.15	3.91 + 0.51	280	19.3	5.54 + 0.66	400	27.6
2½	73.02 ± 0.18	5.16 + 0.61	300	20.7	7.01 + 0.84	420	29.0
3	88.90 ± 0.20	5.49 + 0.66	260	17.9	7.62 + 0.91	370	25.5
3½	101.6 ± 0.20	5.74 + 0.68	240	16.5	8.08 + 0.96	350	24.1
4	114.30 ± 0.23	6.02 + 0.71	220	15.2	8.56 + 1.02	320	22.0
5	141.3 ± 0.25	6.55 + 0.79	190	13.1	9.52 + 1.14	290	20.0
6	168.28 ± 0.26	7.11 + 0.86	180	12.4	10.97 + 1.32	280	19.3

Dimensions of non-Pressure uPVC Pipes for Drain & Waste as per ASTM D2665

Nominal Size Inches	Outside Diameter mm	Wall Thickness mm
1¼	42.16 ± 0.13	3.56 + 0.51
1½	48.26 ± 0.15	3.68 + 0.51
2	60.33 ± 0.15	3.91 + 0.51
3	88.90 ± 0.20	5.49 + 0.66
4	114.30 ± 0.23	6.02 + 0.71
6	168.28 ± 0.28	7.11 + 0.86



Dimensions of uPVC Pipes Manufactured to ASTM D2241 Specifications .

Nominal Pipe Size	Out Side Diameter	Wall Thickness						
		mm						
Inches	mm	SDR 64	SDR 41	SDR 32.5	SDR 26	SDR 21	SDR 17	SDR 13.5
½	21.34 ± 0.10	-	-	-	-	-	-	1.57 + 0.51
¾	26.67 ± 0.10	-	-	-	-	1.52 + 0.51	1.57 + 0.51	1.98 + 0.51
1	33.40 ± 0.13	-	-	-	1.52 + 0.51	1.60 + 0.51	1.95 + 0.51	2.46 + 0.51
1¼	42.16 ± 0.13	-	-	1.52 + 0.51	1.62 + 0.51	2.00 + 0.51	2.49 + 0.51	3.12 + 0.51
1½	48.26 ± 0.15	-	-	1.52 + 0.51	1.85 + 0.51	2.28 + 0.51	2.84 + 0.51	3.58 + 0.51
2	60.32 ± 0.15	-	-	1.85 + 0.51	2.31 + 0.51	2.87 + 0.51	3.55 + 0.51	4.47 + 0.51
2½	73.02 ± 0.18	-	-	2.24 + 0.51	2.79 + 0.51	3.48 + 0.51	4.29 + 0.51	5.4 + 0.661
3	88.90 ± 0.20	-	2.16 + 0.51	2.74 + 0.51	3.43 + 0.51	4.24 + 0.51	5.23 + 0.63	6.58 + 0.78
3½	101.60 ± 0.20	-	2.49 + 0.51	3.12 + 0.51	3.91 + 0.51	4.83 + 0.58	5.97 + 0.71	7.5 + 0.91
4	114.30 ± 0.23	1.77 + 0.15	2.97 + 0.51	3.50 + 0.51	4.39 + 0.51	5.43 + 0.66	6.73 + 0.81	8.45 + 1.01

SDR - Standard Dimension Ratio. It is ratio of pipe Diameter to wall thickness



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
1/2	300	420
3/4	240	340
1	220	320
1 1/4	180	260
1 1/2	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
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

أنابيب (cPVC) للمياه الساخنة

ان أنابيب (سي بي في سي) المصنعة من مركب عديد كلورايد الفينيل (cPVC) تستخدم لتوصيل المياه الساخنة التي تصل درجة حرارتها إلى درجة الغليان كما أنه يمكن استخدامها في توصيلات للمياه الباردة وتلائم الظروف البيئية والجوية لمنطقتنا الجغرافية بكفاءة تفوق كافة أنواع الأنابيب الأخرى بتكلفة منخفضة بالإضافة الى زيادة الأمان .

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.



Dimension of cPVC Pipes Based on ASTM F 441 Pressure Rating
Applies for Water at 23°C and for Unthreaded Pipes SASO 1517 / 1999

Nominal Size In Inch	Outside Diameter		Schedule 80 Minimum Wall Thickness		Nominal Weight Kg / m	Water Pressure Rating	
	Inch	mm	Inch	mm		Psi	Bar
¼	0.540	13.7	0.119	3.02	0.230	1130	77.8
½	0.840	21.34	0.147	3.73	0.337	850	58.6
¾	1.050	26.67	0.154	3.91	0.457	690	47.6
1	1.315	33.40	0.179	4.55	0.671	630	43.4
1¼	1.660	42.20	0.191	4.85	0.928	520	35.9
1½	1.900	48.30	0.200	5.08	1.13	470	32.4
2	2.375	60.33	0.218	5.54	1.56	400	27.6
3	3.500	88.9	0.300	7.62	2.9	370	25.5
4	4.500	114.3	0.337	9.52	4.3	320	22.1
6	6.625	168.3	0.432	10.97	8.1	280	19.3

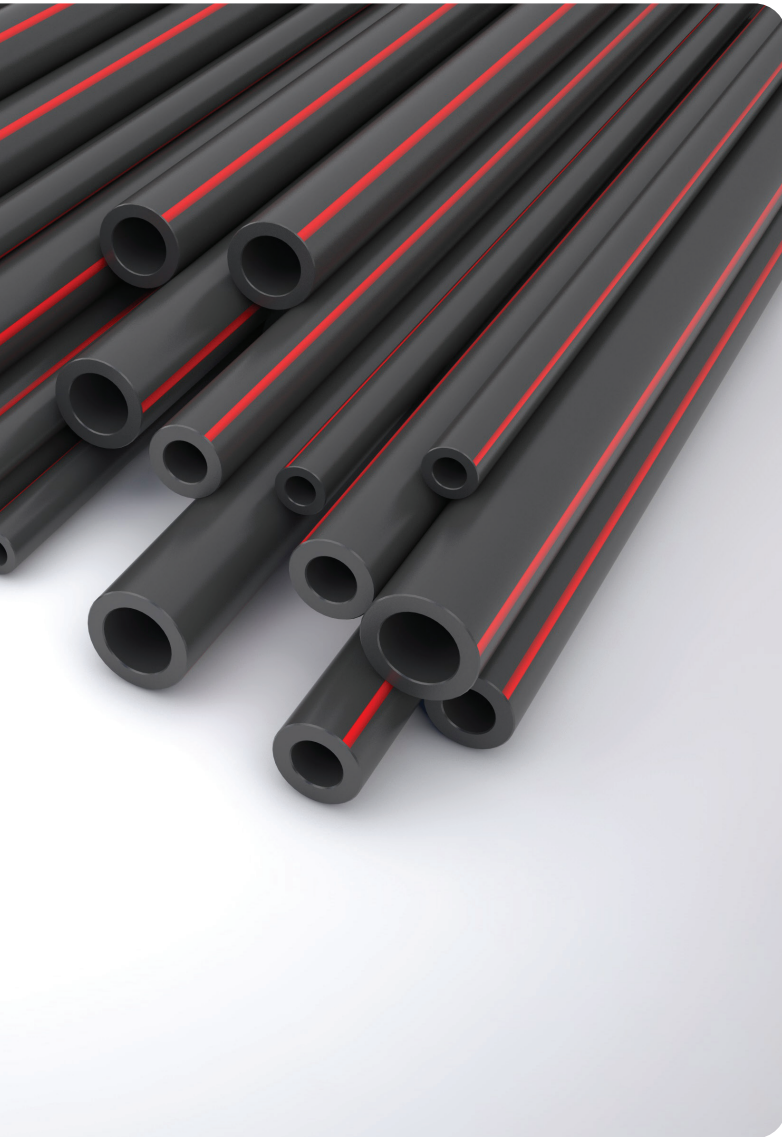
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Water Pressure Ratings for cPVC Pipes According to standard Blow in the table

 Water Pressure Ratings at 180°F (82°C) for cPVC Pipe
 Schedule 40 and 80 (psi) According to ASTM F 441 SASO 1517 / 1999

Nominal Diameter in Inch	Schedule 40	Schedule 80 Unthreaded
¼	195 - 1340	280 - 1930
½	150 - 1030	210 - 1450
¾	120 - 830	170 - 1170
1	110 - 760	155 - 1070
1¼	90 - 650	130 - 960
1½	80 - 550	115 - 790
2	70 - 480	100- 690
3	65 - 450	90 - 620
4	55 - 380	80 - 530
6	45- 310	70 - 480





Chlorinated Polyvinyl Chloride HOT WATER PIPES

Dimension of cPVC Pipes Based on ASTM F 441 Pressure Rating Applies for Water at 23°C and for Unthreaded Pipes SASO 1517 / 1999

Nominal Size In Inch	Outside Diameter		Schedule 80 Minimum Wall Thickness		Nominal Weight Kg / m	Water Pressure Rating	
	Inch	mm	Inch	mm		Psi	Bar
½	0.840	21.34	0.147	3.73	0.337	850	58.6
¾	1.050	26.67	0.154	3.91	0.457	690	47.6
1	1.315	33.40	0.179	4.55	0.671	630	43.4
1¼	1.660	42.20	0.191	4.85	0.928	520	35.9
1½	1.900	48.30	0.200	5.08	1.13	470	32.4
2	2.375	60.33	0.218	5.54	1.56	400	27.6
3	3.500	88.9	0.300	7.62	2.9	370	25.5
4	4.500	114.3	0.337	9.52	4.3	320	22.1

مقاسات أنابيب (cPVC) وفق المواصفات والمقاييس الامريكية

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	
½	21.2	21.4	2.8	3.3	0.269	3.7	4.2	0.336
¾	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
1¼	42.1	42.3	3.6	4.1	0.713	4.9	5.4	0.928
1½	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



CPVC
PIPES

Quality Control Testing

Al-Watania PVC Factory is equipped with a testing laboratory having a fully trained staff for evaluation of raw materials and finished pipes.

In order to maintain uniform quality level, all our routine control tests are carried out as per SAS, and DIN Standards.



إختبارات الجودة

لقد زود مصنع بلاستيك الوطنية بمختبرات على أعلى المستويات الفنية تحت إشراف مجموعة من المختصين من ذوي الخبرة ليؤكدوا أفضل مستويات الجودة بدءاً من المواد الأولية وانتهاءً بالأنابيب الجاهزة للاستعمال .

إن هذه المجموعة تعمل وبكل كفاءة لتبقى أنابيب الوطنية بجودتها المميزة و المطابقة بمواصفاتها لنظام المواصفات السعودية المتفق مع نظام المواصفات الألماني .



APPENDIX TO CERTIFICATE OF REGISTRATION

Al Watania Plastics

This appendix identifies the locations covered by the management system of Al Watania Plastics. This appendix is linked to the Main Certificate # QMS 180125-01 and cannot be shown nor reproduced without it.

Al Watania Plastics
 Main Site: New Strategy Industrial Zone, Street 202, Post Box- 10164, Riyadh - 11483, Kingdom of Saudi Arabia
 See appendix for additional sites and additional site scope.
 This has been registered by Intertek as conforming to the requirements of ISO 9001:2015

ISO 9001:2015
 The management system is applicable to:
 Manufacture of Plastic Products including PVC Pipes, PPR Pipes, Flexible Packaging, Blow Film, Cap Irrigation Tape for Extension, Injection Molding, Blow Molding, and Thermo Forming Methods

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AL WATANIA CERTIFICATES

CERTIFICATE
 No. 9660262

This is to certify the Food Safety Management System of Al Watania Plastics

AL WATANIA PLASTICS
 Main Site: New Strategy Industrial Zone, Street 202, Post Box- 10164, Riyadh - 11483, Kingdom of Saudi Arabia

ISO 22000:2005
 The certificate has been issued under No. 9660262 for the registration period from 15 November 2015 to 14 November 2020

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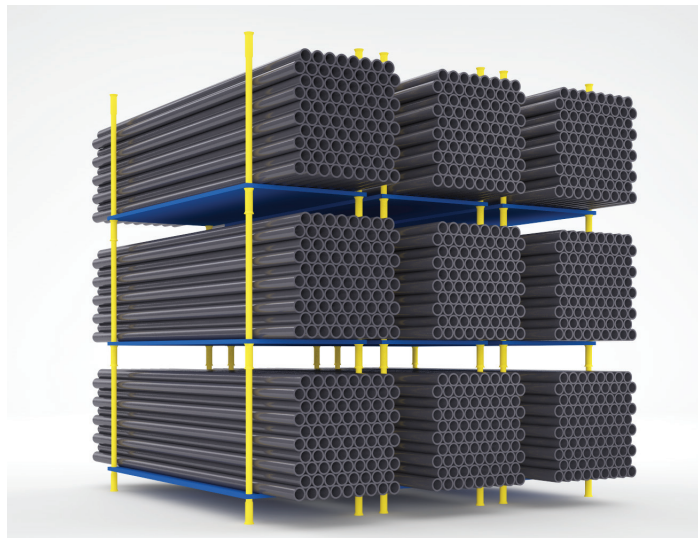
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التحميل و التخزين

مواسير الوطنية بي في سى ، 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 فى 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 الاصناف من النوع الواحد فى نفس الصف و الأصناف ذات السماكة الأعلى فى 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

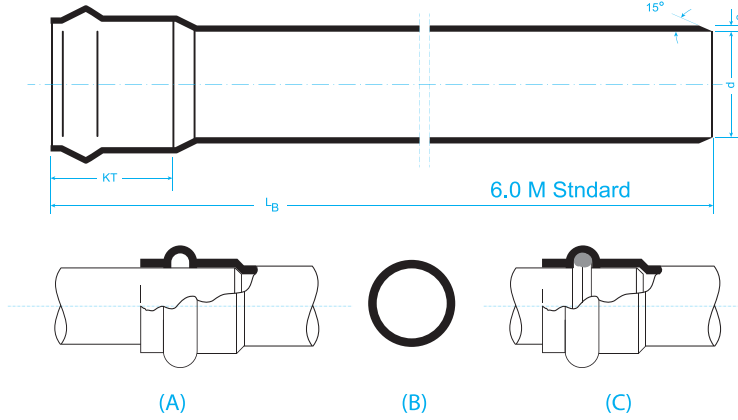
يجب الاهتمام في تخزين المواسير فى مواقع العمل والتنفيذ بحيث يتم وضع المواسير على أرضية مستقيمة خالية من الأحجار ولا يجب أن يزيد تكديسها عن ثلاث طبقات ويجب ان تكون المواسير في جميع الأحوال محمية من أشعة الشمس المباشرة ومن درجات الحرارة العالية خاصة في فصل الصيف .

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 الانبوبة 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 في 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 الوطنية بأطوال قياسية بطول 6 أمتار. ويمكن توفيرها بأطوال أخرى حسب طلب العميل .

توصيل الأنابيب :

يتم توصيل أنابيب الوطنية بطرق عديدة:

- 1 - انبواب ذات نهاية عادية (PE) مع وصلات منفصلة.
- 2 - انبوبة ذات الحلقة المطاطية (RR)
- 3 - انبواب ذات وصلة غراء (SC)

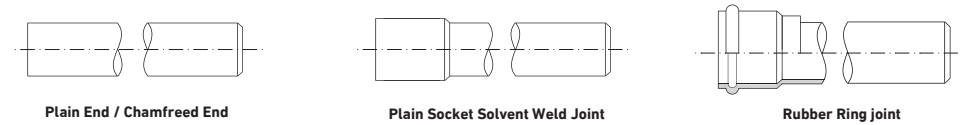
يمكن توفير الأنابيب مع طرفي النهايات مشنفرة (DC) بأطوال 6 أمتار أو أطول مختلفة ، حسب الطلب .

Installation

Al-Watania pipes are available in nominal standard lengths of 6 meters. Other lengths can be supplied by arrangement customer requiremnt.

Pipe Joint- Al-Watania 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.



توصيل الحلقات المطاطية (RRJ) :

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

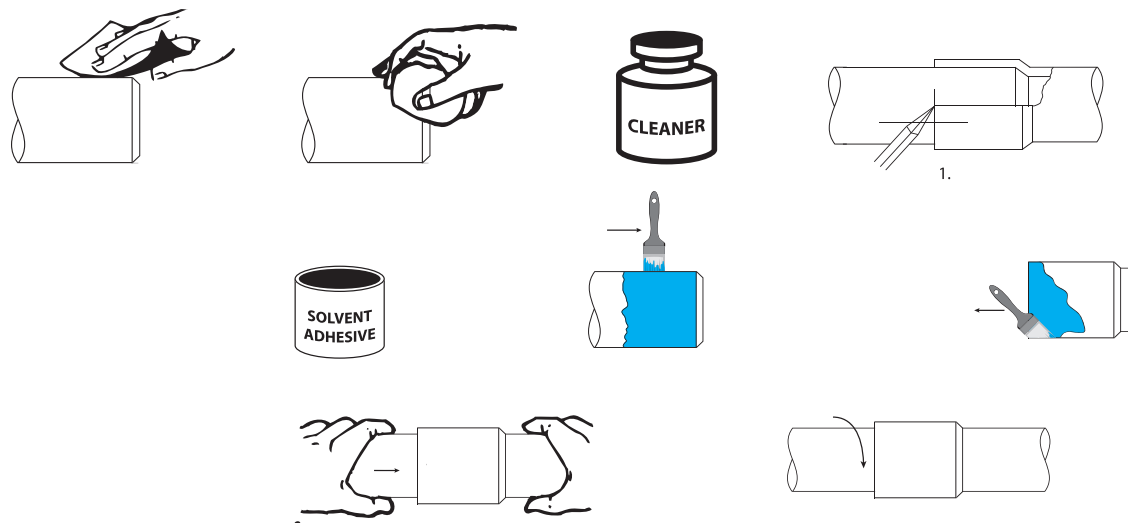
Rubber ring joints (R/J).

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

Pipes up to 110 mm may be jointed easily with solvent adhesives.

Larger sizes require more special techniques and require tow men to make such joints.

- 1- Jointing Procedure. Mark depth of entry of the pipe into the socket and alignment mark.
- 2- Make small chamfer on the edge of the pipe and with medium file.
- 3- Roughen the outside of the pipe and the inside of the socket using sand paper or emery cloth upto the entry mark.
- 4- Clean both surfaces and remove all dust, grease and swaerf using a dry clean cloth and cleaner.
- 5- Stir adhesive thoroughly.
- 6- Apply adhesive without delay after cleaning , using a flat clean brush .



- 7- Immediately insert the pipe into the socket up to the entry mark, align pipe and socket. Hold in position for a few seconds, then wipe off excess cement (DO NOT TWIST).

يمكن توصيل المواسير حتى 110 مم بسهولة باستخدام المواد اللاصقة المذيبة.

تتطلب الأحجام الأكبر تقنيات أكثر خصوصية وتتطلب من الفنيين سحب هذه الوصلات .

- 1 - إجراءات الربط: ضع علامة على دخول الأنبوب في الجلبة وعلامة المحاذاة.
- 2 - جعل الشطب الصغير على حافة الأنبوب وفي الوسط تماماً .
- 3- قم بتخشين الجزء الخارجي من الأنبوب والجزء الداخلي من المقبس باستخدام ورق الصنفرة حتى علامة الإدخال.
- 4- نظف السطح الخارجي ، و قم بإزالة جميع الأتربة والشحوم باستخدام قطعة قماش نظيفة.
5. تحرك المادة اللاصقة جيداً.
- 6- ضع المادة اللاصقة دون تأخير بعد التنظيف باستخدام فرشاة نظيفة.

- 7 - قم بإدخال نهاية الأنبوب على الفور حتى يصل إلى علامة الإدخال ، قم بمحاذاة الأنبوب والمقبس.
- قم بتثبيتها على هذا الوضع لبضع ثوان ، ثم امسح الغراء الفائض مع مراعاة عدم لف الأنبوب في أي اتجاه .