

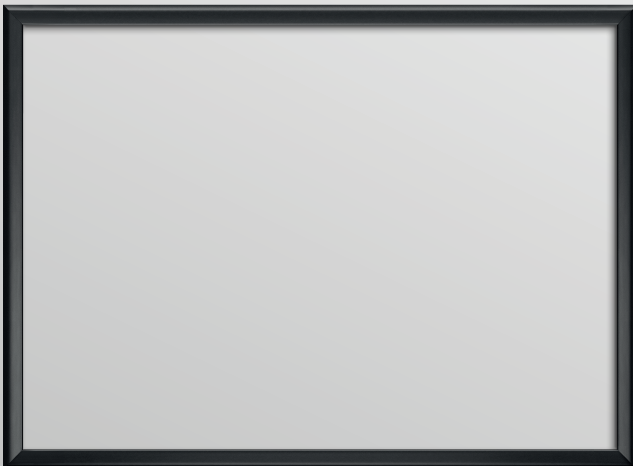
■ Our Branches in Kingdom

■ فروعنا على مستوى المملكة



بلاسكو للصناعات البلاستيكية
PLASCO FOR PLASTIC INDUSTRIES

PLASCO CERTIFICATES



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بلاسكو للصناعات البلاستيكية
PLASCO FOR PLASTIC INDUSTRIES

■ Quality Policy

The PLASCO Co. has established a Quality Management System (QMS) (EMS) (OH&S)(NSF) that is described in The system continue with the requirements of the ISO 9001:2015 ISO 14001:2015 ISO 45001 :2018 Standards, and is implemented at all levels within the organization where the Product Quality Aspects gets affected. The QMS EMS OH&S NSF Revision and improvement the quality policy Provide its products with outstanding quality, consistent with customer requirements and applicable standards (ASTM, DIN, and SASO) Work towards continuous improvement in every functional area. The continued success and profitability of our company is totally dependent upon our ability to attract and satisfy customers. Satisfy the customers by providing the products that fulfils their requirements and expectations. Improve the quality of products by continuous monitoring and improvement of the resources and through proper training and corrective actions at all levels. It is the duty of all employees to strive for customer satisfaction continuously and seek to promote company's image and reputation by total dedication to the quality systems and quality policy Satisfy the customers/clients by providing the products and services that fulfill their requirements and expectations. Improve the quality of products and services by continuous assessment and improvement of the allocated resources and through proper training and corrective actions at various levels. It is ensured that this Quality policy is understood, implemented, and maintained at all levels in the company by providing appropriate training to all personnel. Statement of Quality Policy is displayed at prominent locations in the company to increase awareness among the The Quality Policy is reviewed in the Management Review Meetings and ensured that it is appropriate to current business operations of the company and managers and employees are committed to comply with the requirements specified in the system

■ سياسة الجودة..

اعتمد مصنع بلاسكو نظام إدارة الجودة (QMS) (EMS) (OH&S) (NSF) والذي يوضح متطلبات نظام الأيزو التالية : ((ISO 14001:2015)) (ISO 9001:2015) ((ISO 45001 :2018)) وذلك بمعاييرها القياسية والتي يتم تطبيقها على جميع منتجات المصنع حيث يعنى بجوانب جودة المنتج ونظام إدارة الجودة ((QMS (OH&S) (NSF)) (EMS)) يراجع ويحسن سياسة الجودة ويقدم المنتجات ذات الجودة العالية ، و بما يتوافق مع متطلبات العملاء و المعايير القياسية المعمول بها (ASTM ، DIN ، و SASO) من أجل التحسين المستمر في جميع المجالات .

إن استمرار النجاح و الربحية لشركتنا يعتمد كلياً على قدرتنا على جذب و إرضاء العملاء من خلال توفير المنتجات التي تلبى متطلباتهم وتوقعاتهم و تحسين جودة المنتجات من خلال الرصد والتحسين المستمر للموارد من خلال التدريب المناسب والإجراءات التصحيحية على جميع المستويات .

و الإلتزام من جميع الموظفين للسعي لكسب رضا العملاء بشكل مستمر و تعزيز صورة الشركة وسمعتها في أنظمة الجودة و سياسة الجودة لإرضاء العملاء من خلال توفير المنتجات والخدمات التي تلبى احتياجاتهم وتوقعاتهم . و تحسين جودة المنتجات والخدمات من خلال التقييم المستمر وتحسين الموارد المخصصة وإجراء التدريبات المناسبة والإجراءات التصحيحية على مختلف المستويات .

يتم التأكد على فهم سياسة الجودة وتنفيذها ، و الحفاظ على جميع مستوياتها في الشركة من خلال توفير التدريب المناسب لجميع العاملين . و يتم عرض بيان سياسة الجودة في مواقع بارزة في الشركة لزيادة الوعي بين الموظفين و تتم مراجعة سياسة الجودة في الإجتماعات الدورية والتأكد من أن العمليات الجارية لأعمال الشركة و المديرين والموظفين أنهم ملتزمون بما يتوافق مع المتطلبات المحددة في النظام .





بلاسكو للصناعات البلاستيكية PLASCO FOR PLASTIC INDUSTRIES

PLASCO FACTORY for plastic industries was established in 1984 to produce various kinds of plastic products. One of our major products is plastic pipes (uPVC,cPVC) trade mark (RIG) Plasco which is the best alternative to metal pipes now a days.

Now pipes produced from unplasticized polyvinyl chloride (uPVC) are cheaper and more efficient, easy to transport to the site easy to install resistant at corrosion and chemicals. Compared to other plastic pipes such as polypropylene and polyethylene PVC pipes are less costly last longer and better hygienically. With the above advantages, today uPVC pipes represent a better technical solution in our contemporary life.

PVC pipes are used in all important applications especially in high and low pressure water lines, sewerage & drainage lines, and electricity telecommunications applications.

PLASCO pipes are produced according to the latest specifications and requirements of engineering applications, PLASCO pipes meet Saudi Arabian Standard Organization (SASO GSO 675 14/15-1999) (SASO ISO 1452/4435) The German Standard DIN 8062 and American Standard ASTM D 1785 specifications.

Strict production control system is applied accurately in the quality control laboratories using high technology tools to ensure the best high quality products

PLASCO uPVC pipes are produced in sizes and thickness suitable for all working pressures. PLASCO uPVC pipes are widely sold in the local market Gulf and different neighboring countries as well as overseas. PLASCO successful management style and its ultimate commitment to high quality products .

تم تأسيس مصنع بلاسكو للصناعات البلاستيكية في عام 1984م لتصنيع المنتجات البلاستيكية على مختلف أنواعها ، ومن أهم منتجاته الأنابيب البلاستيكية (uPVC , cPVC) والتي تحمل العلامة التجارية (آر أي جي) (RIG) ، بلاسكو التي أصبحت البديل الأمثل لأنابيب الحديد في وقتنا الحاضر

حيث يتم إنتاجها من مادة البولي فينيل كلورايد (بي في سي) والتي تتميز عن الحديد بإنخفاض التكلفة وفعاليتها وسهولة نقلها وتركيبها وعدم تعرضها للصدأ ومقاومتها للعناصر الكيماوية . وتتميز عن الأنابيب البلاستيكية الأخرى المصنعة من مادة البولي بروبيلين والبولي إيثيلين بإنخفاض تكلفتها وطول عمرها الافتراضي وملائمتها للصحة العامة . بفضل هذه المميزات فإن أنابيب الـ بي في سي هي الرد المثالي على تحديات العصر الحديث والحل الأفضل لمشكلاته الفنية المستعصية .

إن لأنابيب بلاسكو استخدامات في كل المجالات المهمة خصوصاً في تمديدات خطوط المياه ذات الضغط العالي والمنخفض وتمديدات المجاري والصرف الصحي وتمديدات الهاتف والكهرباء والاتصالات .

وتقوم بلاسكو بإنتاج هذه الأنابيب طبقاً لأحدث المواصفات العالمية المقررة ووفقاً للمتطلبات الهندسية وتخضع الأنابيب بنوعيتها وأحجامها للمواصفات المقررة من قبل الهيئة العربية السعودية للمواصفات والمقاييس (SASO GSO 675 14/15-1999) (SASO ISO 1452/4435) والمواصفات الألمانية DIN 8062 والأمريكية ASTM D 1785 .

ويتم مراقبة الإنتاج وفقاً لنظام دقيق في مختبرات مراقبة الجودة بواسطة أحدث وسائل التكنولوجيا والمعدات الحديثة لضمان جودة ونوعية عالية من الإنتاج .

كنتيجة طبيعية لأسلوبها الإداري المتميز وتبنيها مبدأ الجودة في منتجاتها . وتتوفر أنابيب بلاسكو بكل المقاسات والسماكات والتي تناسب كل الضغوط ، ويتم تسويق منتجات بلاسكو من الأنابيب على نطاق واسع في السوق المحلية في جميع أنحاء المملكة العربية السعودية ودول الخليج العربية والعديد من البلدان الأخرى .



General Advantages U-PVC Pipes

U-PVC PIPES resist corrosion by acids, alkalis, and weather, it also resists climatic and soil conditions.

U-PVC PIPES non toxic, not affect the taste, have smooth surface which resist and impede build up of deposits and corrosive scales.

U-PVC Pipes have great tensile strength. Yet they will not dent or flatten under pressure .

U-PVC PIPES are light, easy to transport, install, cut, repaired with a complete range of fittings, using solvent cement or rubber ring joints with an economic cost and easy maintenance.

U-PVC PIPES are not support combustion and it is self extinguishing.

U-PVC PIPES are ideal for electric conduits because of itself insulator.

U-PVC PIPES have been used for used for over 40 years, and and it has proved its supreme quality.

المواصفات العامة لأنابيب ال يو بي في سي

تمتاز هذه الأنابيب بمقاومتها العالية للتفاعل مع الكيماويات وبخاصة الأحماض والقلويات و الأملاح كما تقاوم عوامل المناخ وتأثيرات التربة المختلفة .

لا توجد فيها أى مواد سامة بحيث لا تؤثر على طعم ولون ورائحة الماء أو السوائل الأخرى.

ذات سطوح ملساء تعمل على جعل انسيابية السائل عالية وتحول دون تراكم الرواسب .

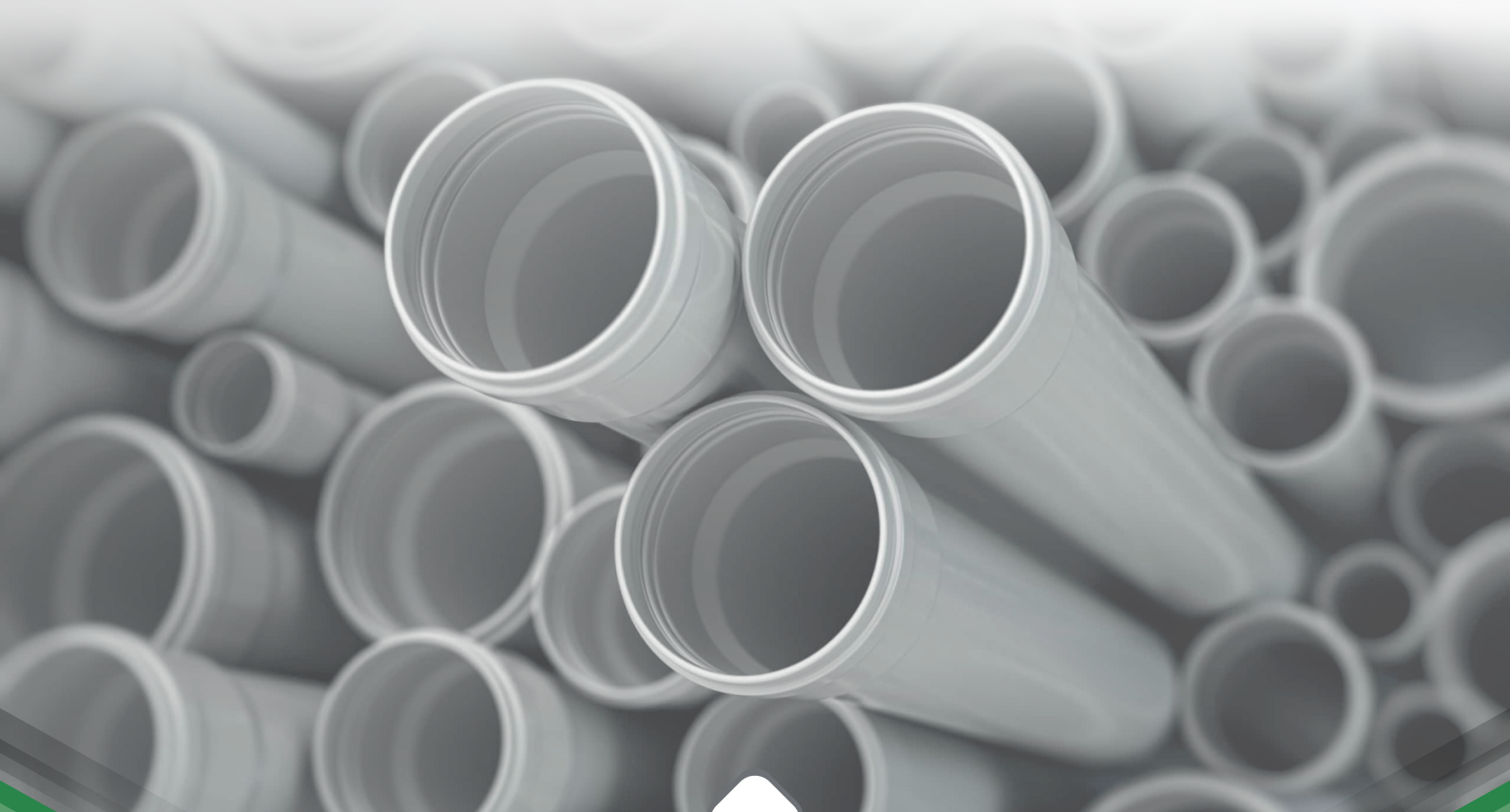
ذات مقاومة كبيرة للشد تحول دون تجعد أو تسنن سطوح الأنابيب تحت تأثير أي ضغط .

خفيفة الوزن ، سهلة النقل والتكيب والقطع ، إقتصادية حتى مع جميع لوزامها، حيث تستعمل بوصلات عادية (غراء) أو بواسطة طلاقات مطاطية كما أن صيانتها سهلة وسريعة .

تقاوم الأحتراق ، صعبة الاشتعال وذات قدرة على الإنطفاء الذاتي .

ذات عازلية جيدة للتيار الكهربائي مما يجعلها صالحة للاستعمال في القنوات الكهربائية وفي كل الظروف.

يضاف الى ما سبق أن هذه الأنابيب أثبتت كفاءتها من خلال استعمال منذ مدة تزيد عن اربعين سنة في كل المجالات العلمية .

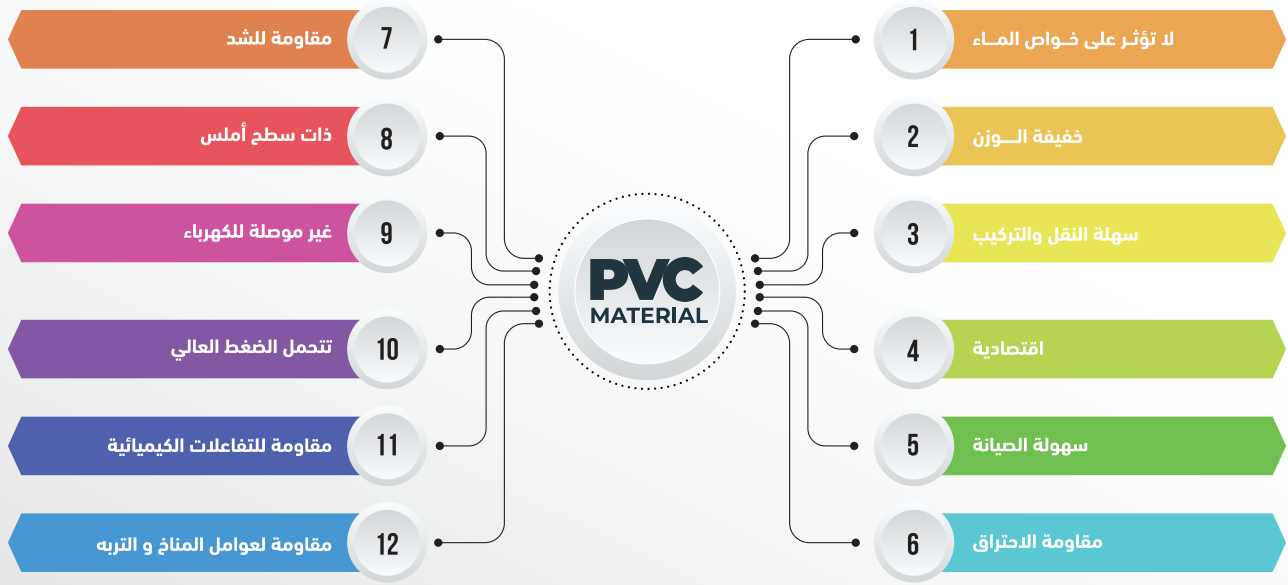


Material Properties Of U-PVC Pipes

Material	Unplasticized Poly vinyl Chloride UPVC
Color	Dark Grey
General Properties	All values at 20°C
Specific Gravity	1.42 ± 0.02
Flamability	will not supports combustion.

خواص مواد أنابيب ال يو بي في سي

المواد	عديد كلوريد الفينيل القاسي (يو بي في سي)
اللون	رمادي غامق
شروط عامة	جميع القيم مقاسة عند 20 درجة مئوية .
الثقل النوعي	0.02 ± 1.42
قابلية الاشتعال	لا تساعد على الاشتعال .

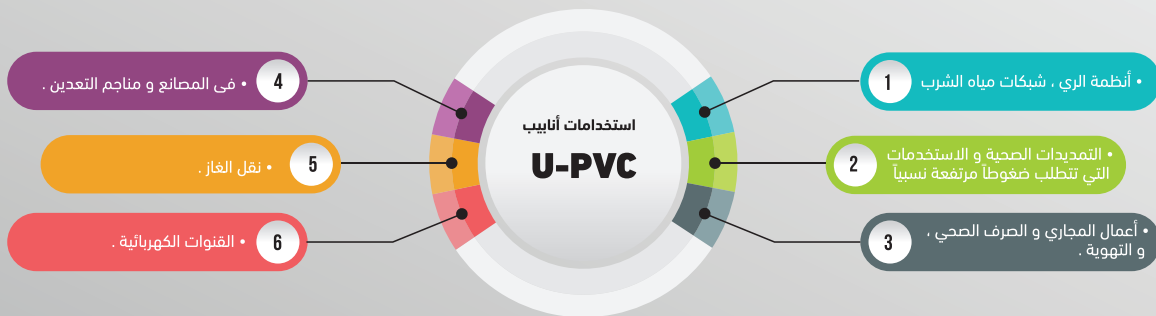


Application of U-PVC Pipes

- Irrigation systems, water supply.
- Sanitary and any other under pressure System.
- Drainage, sewer system and ventilation.
- Industry and mining.
- Gasline Pipes.
- Conduits.

استخدامات أنابيب اليو بي في سي

- أنظمة الري ، شبكات مياه الشرب ،
- التمديدات الصحية وجميع الاستخدامات التي تتطلب ضغطاً مرتفعاً نسبياً
- أعمال المجاري و الصرف الصحي ، و التهوية .
- فى المصانع و مناجم التعدين .
- نقل الغاز .
- القنوات الكهربائية .



Physical and Chemical Properties of un Plasticized Polyvinyl Chloride Pipes

الخصائص الفيزيائية والكيميائية غير المطاطية أنابيب البولي فينيل كلورا

Property	Characteristics	Test meth	Value	Units
Physical	Specific Gravity	ASTM D 792	1.44	g / cc
	Hardness	ASTM D 785	120	Rockwell R
	Water Absorption	ASTM D 570	0.05	mg / cm ²
	Tensile Strength@20oC	ASTM D 638	500	kg / cm ²
	Ultimate Elongation.min.	ASTM D 638	80	%
	Copressive Strength	ASTM D 695	675	kg / cm ²
	Modulus Of Elasticity	ASTM D 5934	1400	MPa
	Modulus Of Rigidity	ASTM D 1043	11.250	kg / cm ²
	Charpy Impact Strength	ASTM D 256	4.75	Joule
Thermal	Specific Heat	-	0.25	Kcal./kg/°C
	Thermal Conductivity	ASTM D 518	0.13	Kcal/C..m.h
	Vicat Softening Point	ASTM D 1525	80	°C
	Heat Distortion Temperature	ASTM D 648	75	°C
	Co-efficient of linear expansion	ASTM D 696	5 x 10 ⁻⁵	mm / °C
Chemical	Resistance to chemicals	ASTM D 543	Good	-
Electrical	Volume Resistivity	ASTM D 257	10 ¹⁵	Ohms / cm
	Di Electric Strength	ASTM D 149	>40	Kv / mm
Flammability			Self Extinguishing	
	Limiting Oxygen Index	ASTM D 2893	47	-

Mechanical Properties - المواصفات الميكانيكية

Tensile Strength مقاومة الشد

BAR	LB FT / in ²	kg / CM ²
483 - 517	7500 - 7000	492 - 527

(IZOD)

Inch Notch Charpy Impact Strength

قوة الصدم (آيزود)

LB FT / in ²	Joule
3.5 - 4.0	4.75 - 4.52

Compressive Strength قوة التحمل

BAR	LB FT / in ²	kg / CM ²
665	9500	668 - 680

Water Absorption قابلية امتصاص الماء (النفوذية)

< 4 mg / cm²

Flexural Strength قوة الالتواء (الثني)

BAR	LB FT / in ²	kg / CM ²
930	13500	950 - 960

Friction co- Efficient

عامل الاحتكاك

Colebrook	Friction co- Efficient
0.00001	135 - 150

Modulus Of Elasticity عامل المرونة

BAR	LB FT / in ²	kg / CM ²
3.1x 10 ⁴	45x 10 ⁴	3.2x 10 ⁴

Thermal Properties

المواصفات الحرارية

Softening Point - نقطة الليونة	80°C or 176F
Coefficient Of Linear Expansaion - عامل التمدد الطولى On 3M.Length	5x10 ⁻⁵ MM/ 1°C
Specfic Heat - الحرارة النوعية	0.25 Cal / Gr x 1°C

Electrical Properties

المواصفات الكهربائية

المقاومة الكهربائية النوعية Volume Resistivity	10 ¹⁶ OHM / cm
عامل التمدد الطولى Coefficient Of Linear Expansaion On 3M.Length	إن مادة عديد كلورايد الفينيل القاسية غير ناقلة للكهرباء
عامل العازلية Dielectric Strength	>40 KV / MM

Chemical Resistance

الفاعلية الكيميائية

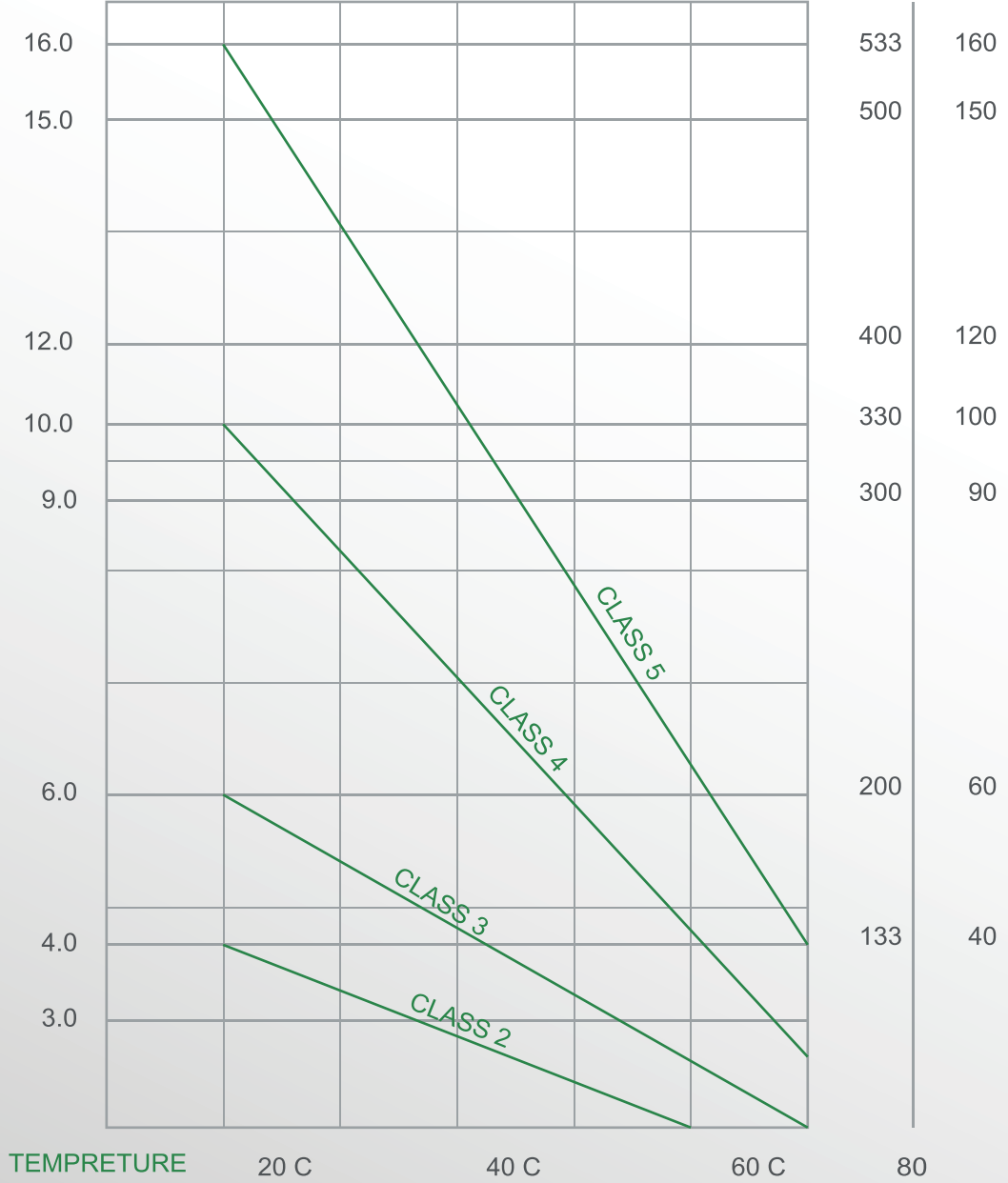
Al-Watania Plastics U-PVC Pipe are manufactured according to SAS 14 - 15 / 1996 which conforms with DIN 8061 - 8062 - and it is unaffected by acids, alkales, aqueous, salt, water and demineralised water. Also U-PVC Pipes are not affected by most chemicals.

تنتج بلاستيك الوطنية أنابيبها القاسية من اليوم بي في سي وفقاً للمواصفات السعودية 14-15/1996 م المطابقة لنظام الألماني دين 8061/8062 ، وهذه الأنابيب لا تتأثر بمحاليل الأحماض و القلويات ، و الأملاح وبخاصة المياة المالحة و المعدنية علي إختلاف أنواع وبشكل عام ان أنابيب اليو بي فى سي عديمة التأثير بمعظم المحاليل الكيميائية .



FIGURE No.1

pressure - Temperature Relationship
Temperature of liquid variable



UPVC Pipes and Elevated Temperatures

Pressure Temp Relationship ambient Variable , Internal temp 20°C.

For ambient temperature of 40°C, a required working pressure of 6 BARS requires a 10 BAR rated Pipe.

تأثير ارتفاع درجة الحرارة على أنابيب اليو بي في سي

الشكل البياني يبين العلاقة بين الضغط و درجة الحرارة المحيطة بالأنبوب حيث درجة الحرارة الداخلية 20° م .

ويفرض أن درجة الحرارة المحيطة = 40° م ، و الضغط التشغيلي = 6 بار ، فإن الشكل يبين ضرورة استعمال أنابيب اليو بي في سي ، من ضغط 10 بار الصنف 4 عوضاً عن الصنف 3 .

FIGURE No.2

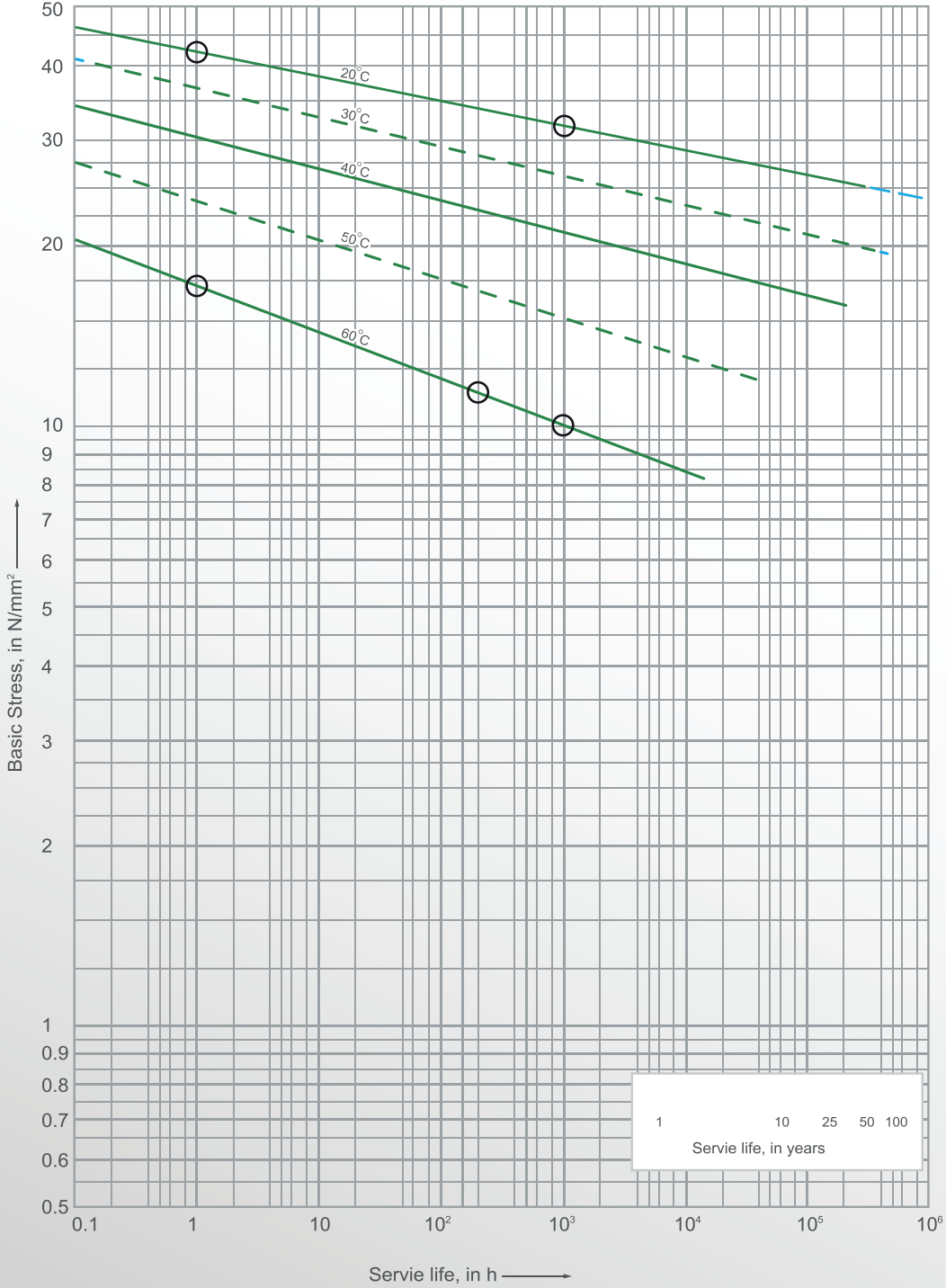


Figure 2 : Behaviour of PVC-U-K Pipes in long - term Hydrostatic pressure testing

UPVC Pipes and Elevated Temperatures

Pressure Temp Relationship ambient temp. 20°C internal variable.

For required working pressure 8 BARS with liquid temperature of 40°C. Therefore a 16 bar rated pipe is required.

تأثير ارتفاع درجة الحرارة على أنابيب اليو بي في سي

الشكل البياني يبين العلاقة بين الضغط و درجة حرارة السائل حيث درجة الحرارة المحيطة 20°C .

وبفرض أن الضغط التشغيلي = 8 بار ، ودرجة حرارة السائل = 40 م فإن الأنابيب من الضغط 16 بار ، الصف 5 عوضاً عن الصف 4 هي الأكثر ملائمة .

MANUFACTURING STANDARDS

uPVC PIPES ARE MANUFACTURED IN ACCORDANCE WITH

- Saudi Arabian Standard (SSA 14 & 15 / 1998 for Potable water) ISO (International Organization for Standardization) 161/1 which conforms to German Standard DIN 8061, 8062 and 19532 & 19534.
- Saudi Arabian Standards (SSA 255, 254 / (1981) Conforming to BS EN 50086 - 1:1994 for Electrical Conduits replaces BS 6099 : Part 1 : 1981
- British Standards, BS 3505, BS 4660, BS 5481.
- ASTM Standards ASTM D-1785, For (Sch. 40, 80) ASTM D-2241 (SDR), ASTM D-2665, ASTM F-441, F-439.
- NEMA Standards TC-2, TC-6 and TC-8, TC-3/TC-9.
- EN Standard Pr EN 1401, Pr EN 1452-2.
- DIN 4925 for Well Casing & Screen.

Range of Production

Pipes are manufactured according to SASO and or DIN Standards from 16mm, up to 800mm outside diameter in various pressure classes.

uPVC pipes are available with solvent weld Socket joints for diameters less than 63mm. Sizes of outside diameter 63mm and larger are available with both mechanical rubber ring joints or solvent weld Socket joints.

Pipes manufactured in accordance with ASTM are ranging from 1/2 inch up to 8 inches in various pressure (SCH 40, SCH 80) with white and gray colour.

PLASCO Pipes are available with plain spigot and Solvent Cement joints only. pipes are produced in 6 meters standard length (other lengths are available on request), standard colours are grey, white and black (other colours are available on request).

MARKING:

PLASCO uPVC pipes are marked automatically during the process of production. Each pipe is marked according to its relevant standard classifications. Special marking can be added on request.

UPVC PRESSURE PIPES





بلاسكو للصناعات البلاستيكية
PLASCO FOR PLASTIC INDUSTRIES

UPVC pipes according to (SASO 14, DIN 8062, DIN 19532, ISO 161)

Class		Class 1		Class 2		Class 3		Class 4		Class 5	
Nominal Pressure in Bars		2 BAR		4 BAR		6 BAR		10 BAR		16 BAR	
Nom-OD mm	Tolerance on Nom-OD mm	Nom-thick of wall mm	Nom-wt. kg/m	Nom thick of wall mm	Nom-wt. kg/m	Nom-thick of wall mm	Nom-wt. kg/m	Nom-thick wall mm	Nom-wt. kg/m	Nom-thick of wall mm	Nom-wt. kg/m
20	+0.2									1.5	0.137
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	0.809
63	+0.2					1.9	0.562	3.0	0.854	4.7	1.29
75	+0.3			1.8	0.642	2.2	0.782	3.6	1.22	5.6	1.82
90	+0.3			1.8	0.774	2.7	1.13	4.3	1.75	6.7	2.61
110	+0.3	1.8	0.950	2.2	1.16	3.2	1.64	5.3	2.61	8.2	3.90
125	+0.3	1.8	1.08	2.5	1.48	3.7	2.13	6.0	3.64	9.3	5.01
140	+0.4	1.8	1.21	2.8	1.84	4.1	2.65	6.7	4.18	10.4	6.27
160	+0.4	1.8	1.39	3.2	2.41	4.7	3.44	7.7	5.47	11.9	8.17
180	+0.4	1.8	1.57	3.6	3.02	5.3	4.37	8.6	6.88	13.4	10.4
200	+0.4	1.8	1.74	4.0	3.70	5.9	5.37	9.6	8.51	14.9	12.8
225	+0.5	1.8	1.96	4.5	4.70	6.6	6.76	10.8	10.8	16.7	16.1
250	+0.5	2.0	2.40	4.9	5.65	7.3	8.31	11.9	13.2	18.6	19.9
280	+0.6	2.3	3.11	5.5	7.11	8.2	10.4	13.4	16.6	20.8	24.9
315	+0.6	2.5	3.78	6.2	9.02	9.2	13.2	15.0	20.9	23.4	31.5
355	+0.7	2.9	4.88	7.0	11.4	10.4	16.7	16.9	26.5	26.3	39.9
400	+0.7	3.2	6.10	7.9	14.5	11.7	21.1	19.1	33.7	29.7	50.8
450	+0.8	3.6	7.65	8.9	18.3	13.2	26.8	21.5	42.7	33.1	
500	+0.9	4.0	9.38	9.8	22.4	14.6	32.9	23.9	52.6	36.8	
560	+1.0	4.2	11.8	11.0	28.1	16.4	41.4	26.7	65.8		
630	+1.1	2.5	14.7	12.4	35.7	18.4	52.2	30.0	83.2		
710	+1.2	5.7	18.9	14.0	45.3	20.7	66.1				
800	+1.3	6.4	23.9	15.7	57.2	23.3	83.9				

Length : 6 meters (Other lengths are available on request.)

Colour : Grey.

Socket Type : Rubber joint (R/J) type supplied from sizes 63mm up to 800mm.

Solvent Cement (SC/J) type supplied from sizes 20mm up to 800mm.

SASO - ISO - 1452

Table 2_Nominal (minimum) wall thicknesses

Nominal Outside diameter d_n	Pipe series S						
	Nominal (minimum) Wall thickness						
	S 20 (SDR 41)	S16 (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						
	PN6	PN8	PN10	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	3.7
50		1.6	2	2.4	3	3.7	4.6
63		2	2.5	3	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
Nominal pressure PN based on design coefficient C=2,0							
	PN6	PN8	PN10	PN 12.5	PN 16	PN 20	PN 25
110	2.7	3.4	4.2	5.3	6.6	8.1	10
125	3.1	3.9	4.8	6	7.4	9.2	11.4
140	3.5	4.3	5.4	6.7	8.3	10.3	12.7
160	4	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	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	13.8	17.2	21.5	26.7	33.1	
500	12.3	15.3	19.1	23.9	29.7	36.8	

Note: To apply an overall service (design) coefficient of 2.5 (instead of 2.0) for pipes with nominal diameter above 90mm, the next higher pressure rating, PN, shall be chosen.

Length : 6 meters (Other lengths are available on request).
 Colour : Grey.
 Socket Type : Rubber joint (R/J) type supplied from sizes 63mm up to 800mm.
 Solvent Cement (SC/J) type supplied from sizes 20mm up to 800mm.

UPVC Pipes According to ASTM D - 1785, Schedule 40 & Schedule 80

Nominal Size Inch.	O.D. (mm)		Schedule 40				Schedule 80			
	min	max	Wall Thickness (mm)		Nominal Weight (kg/m)	PSI	Wall Thickness (mm)		Nominal Weight (kg/m)	PSI
			min	max			min	max		
1/2	21.24	21.44	2.77	3.28	0.24	600	3.73	4.24	0.3	850
3/4	26.57	26.77	2.87	3.38	0.33	480	3.91	4.42	0.43	690
1	33.27	33.53	3.38	3.89	0.48	450	4.55	5.08	0.61	630
1 1/4	42.03	42.29	3.56	4.07	0.65	370	4.85	5.44	0.87	520
1 1/2	48.11	48.41	3.68	4.19	0.77	330	5.08	5.69	1.03	470
2	60.17	60.47	3.91	4.42	1.04	280	5.54	6.2	1.43	400
2 1/2	72.84	73.2	5.16	5.77	1.57	300	7.01	7.85	2.2	420
3	88.7	89.1	5.49	6.15	2.14	260	7.62	8.53	2.91	370
4	114.1	114.5	6.02	6.73	3.05	220	8.56	9.58	4.26	320
5	141.05	141.55	6.22	7.347	4.18	190	9.52	10.67	6.42	290
6	168	168.56	7.11	7.98	5.37	180	10.97	12.29	8.13	280
8	218.7	219.46	8.18	9.17	8.11	160	12.7	14.22	12.4	250

Length : 6 meters (Other lengths are available on request.)
 Colour : Schedule 40- White, Schedule 80 - Grey
 Socket Type : Plain, solvent cement (SC/J)

UPVC Pressure-rated Pipes According to ASTM D 2241

Nominal Size Inch.	O.D. (mm)		Wall Thickness (mm)												
	min	max	Standard Diameter Ratio (SDR)												
			41 W.P: 6.9 Bar		32.5 W.P: 8.6 Bar		26 W.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	
1/2	21.24	21.44												1.57	2.08
3/4	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
1 1/4	42.03	42.29			1.52	2.03	1.63	2.13	2.01	2.52	2.49	3.00	3.12	3.63	
1 1/2	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	9.47	
6	168.00	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	218.70	219.46	5.33	5.97	6.73	7.54	8.43	9.45	10.41	11.66	12.90	14.45			

Note: The maximum pressure rating given above is based on water at 73 °F/23 °C and for unthreaded pipes.

Length : 6 meters (Other lengths are available on request.)
 Colour : White
 Socket Type : Plain, solvent cement (SC/J).

UPVC Pipes According to BS 3505 / 3506

Applications: Water supply, irrigation systems, industrial use.

Nominal Size Inch.	O.D. (mm)		Wall Thickness (mm)													
	min	max	Class B		Class C		Class D		Class E		Class O		Class 6		Class 7	
			min	max	min	max	min	max	min	max	min	max	min	max	min	max
3/8	17.0	17.3							1.5	1.9			2.3	2.8	3.2	3.8
1/2	21.2	21.5							1.7	2.1			2.8	3.3	3.7	4.3
3/4	26.6	26.9							1.9	2.5			2.9	3.4	3.9	4.5
1	33.4	33.7							2.2	2.7			3.4	4.0	4.5	5.2
1 1/4	42.1	42.4					2.2	2.7	2.7	3.2			3.6	4.2	4.8	5.5
1 1/2	48.1	48.4					2.5	3.0	3.1	3.7	1.8	2.2	3.7	4.3	5.1	5.9
2	60.2	60.5			2.5	3.0	3.1	3.7	3.9	4.5	1.8	2.2			5.5	6.3
2 1/2	75.0	75.3			3.0	3.5	3.9	4.5	4.8	5.5	1.8	2.2				
3	88.7	89.1	2.9	3.4	3.5	4.1	4.6	5.3	5.7	6.6	1.8	2.2				
4	114.1	114.5	3.4	4.0	4.5	5.2	6.0	6.9	7.3	8.4	2.3	2.8				
5	140.0	140.4	3.8	4.4	5.5	6.4	7.3	8.4	9.0	10.4	2.6	3.1				
6	168.0	168.5	4.5	5.2	6.6	7.6	8.8	10.2	10.8	12.5	3.1	3.7				
8	218.8	219.4	5.3	6.1	7.8	9.0	10.3	11.9	12.6	14.5	3.1	3.7				

Note: Classes B,C,D and E are to BS 3505/3506. Classes O, 6 and 7 are to BS 3506 / 1969. Classes 6 and 7 equivalent to ASTM D-1785, SCH 40 and SCH 80 respectively.

Length : 6 meters (Other lengths are available on request.)

Colour : Dark Grey except class O which is grey.

Socket Type : Plain, solvent cement (SC/J)

Pressure ratings for working pressure at 20 °C

Class

- B 6.0 bar
- C 9.0 bar
- D 12.0 bar
- E 15.0 bar

For higher working temperatures, the pressure rating should be reduced.

UPVC DRAINAGE AND SEWERAGE PIPES



UPVC pipe according to DIN 8062, ISO 161-1

Class		Class 1		Class 2		Class 3		Class 4	
Nominal Pressure in Bars		2 BAR		4 BAR		6 BAR		10 BAR	
Nom-OD (mm)	Tolerance on Nom-OD (mm)	Nom-wall thickness (mm)	Nom- wt. kg/m	Nom-wall thickness (mm)	Nom- wt. kg/m	Nom-wall thickness (mm)	Nom-wt. kg/m	Nom-wall thickness (mm)	Nom-wt. kg/m
25	+0.2							1.5	0.174
32	+0.2							1.8	0.264
40	+0.2					1.8	0.334	1.9	0.350
50	+0.2					1.8	0.422	2.4	0.552
63	+0.2					1.9	0.563	3.0	0.854
75	+0.3			1.8	0.642	2.2	0.782	3.6	1.22
90	+0.3			1.8	0.774	2.7	1.13	4.3	1.75
110	+0.3	1.8	0.950	2.2	1.16	3.2	1.64	5.3	2.61
125	+0.3	1.8	1.08	2.5	1.48	3.7	2.13	6.0	3.64
140	+0.4	1.8	1.21	2.8	1.84	4.1	2.65	6.7	4.18
160	+0.4	1.8	1.39	3.2	2.41	4.7	3.44	7.7	5.47
180	+0.4	1.8	1.57	3.6	3.02	5.3	4.37	8.6	6.88
200	+0.4	1.8	1.74	4.0	3.70	5.9	5.37	9.6	8.51
225	+0.5	1.8	1.96	4.5	4.70	6.6	6.76	10.8	10.8
250	+0.5	2.0	2.40	4.9	5.65	7.3	8.31	11.9	13.2
280	+0.6	2.3	3.11	5.5	7.11	8.2	10.4	13.4	16.6
315	+0.6	2.5	3.78	6.2	9.02	9.2	13.2	15.0	20.9
355	+0.7	2.9	4.88	7.0	11.4	10.4	16.7	16.9	26.5
400	+0.7	3.2	6.10	7.9	14.5	11.7	21.1	19.1	33.7
450	+0.8	3.6	7.65	8.9	18.3	13.2	26.8	21.5	42.7
500	+0.9	4.0	9.38	9.8	22.4	14.6	32.9	23.9	52.6
560	+1.0	4.2	11.8	11.0	28.1	16.4	41.4	26.7	65.8
630	+1.1	2.0	14.7	12.4	35.7	18.4	52.2	30.0	83.2
710	+1.2	5.7	18.9	14.0	45.3	20.7	66.1		
800	+1.3	6.4	23.9	15.7	57.2	23.3	83.9		

Length : 6 meters (Other lengths are available on request).

Colour : Grey.

Socket Type : Rubber joint (R/J) type supplied from sizes 63mm up to 800mm.

Solvent Cement (SC/J) type supplied from sizes 20mm up to 800mm.

UPVC Sewer Pipes (Gravity) According to DIN 19534.

Applications : Sewerage Pipe Underground

Nominal Size (mm)	Outside Diameter (mm)		Wall Thickness (mm)		Insertion Depth (mm)	Weight kg/m
	(D)	Tolerance	(S)	Tolerance		
110	110	0.3	3.0	0.5 +	115	1.63
125	125	0.3	3.0	0.5 +	120	1.870
160	160	0.4	3.6	0.6 +	132	2.650
200	200	0.4	4.5	0.7 +	145	4.120
250	250	0.5	6.1	0.9 +	160	7.00
315	315	0.6	7.7	1.0 +	180	11.110
400	400	0.7	9.8	1.2 +	200	17.800
500	500	0.9	12.2	1.5 +	250	27.649
600	630	1.1	15.4	1.8 +	300	43.944

LENGTH : 6 meters (Other lengths are available on request.)

COLOUR : Golden Brown.

SOCKET TYPE : Solvent cement (SC/J) type, Rubber Joint (R/J) type.

UPVC Drain Pipes According to DIN 19531.

Applications : Waste & Soil discharge systems inside buildings

Nominal Size (mm)	Outside Diameter (mm)		Wall Thickness (mm)		Weight kg/m
	Min	Max	Min	Max	
40	40.0	40.2	1.8	2.2	0.381
50	50.0	50.2	1.8	2.2	0.481
75	75.0	75.3	1.8	2.2	0.642
110	110.0	110.3	2.2	2.7	1.160
125	125.0	125.3	2.5	3.0	1.480
160	160.0	160.4	3.2	3.8	2.410

LENGTH : 6 meters (Other lengths are available on request.)

COLOUR : Grey.

SOCKET TYPE : Solvent cement (SC/J) type, Rubber Joint (R/J) type

UPVC Underground Sewer Pipe (Gravity) According to BS 5481

Applications : Gravity Sewerage Underground

Nominal Size	Outside Diameter (mm)		Wall Thickness (mm)		Weight kg/m
	Min	Max	Min	Max	
200 (8")	200.0	200.6	4.9	5.6	4.50
250 (10")	250.0	250.7	6.1	7.0	7.01
315 (12")	315.0	315.9	7.7	8.7	11.07
400 (16")	400.0	401.0	9.8	11.0	17.83

UPVC Underground Drainage & Sewerage Pipes according to BS 4660

Applications : Drainage Under Gardens, Fields, Driveways & Roads

Nominal Size	Outside Diameter (mm)		Wall Thickness (mm)		Weight kg/m
	Min	Max	Min	Max	
110 (4")	110.0	110.4	3.2	3.8	1.64
160 (6")	160.0	160.6	4.1	4.8	3.04

LENGTH : 5.8 & 6 meters (Other lengths are available on request).

COLOUR : Golden Brown.

SOCKET TYPE : Solvent cement (SC/J) type, Rubber Joint (R/J) type

UPVC Aboveground Soil & Ventilating Pipes according to BS 4514

Applications : Soil & Ventilating Pipes Aboveground

Nominal Size	Outside Diameter (mm)		Wall Thickness (mm)		Weight kg/m
	Min	Max	Min	Max	
82 (3")	82.4	82.8	3.2	3.8	1.21
110 (4")	110.0	110.4	3.2	3.8	1.64
160 (6")	160.0	160.6	3.3	3.9	2.47

LENGTH : 5.8 & 6 meters (Other lengths are available on request).

COLOUR : Golden Brown.

SOCKET TYPE : Solvent cement (SC/J) type, Rubber Joint (R/J) type

Non standard lengths & colours available on request.

UPVC Aboveground Waste Pipes according to BS 5255

Applications : Waste Aboveground

Nominal Size	Outside Diameter mm		Wall Thickness (mm)		Weight kg/m
	Min	Max	Min	Max	
32 (1 1/4")	36.15	36.45	1.8	2.2	0.301
40 (1 1/2")	42.75	43.05	1.9	2.3	0.376
50 (2")	55.75	56.05	2.0	2.4	0.519

Nominal Size	(Outside Diameter (mm		(Wall Thickness (mm		Weight kg/m
	Min	Max	Min	Max	
("4/11) 32	36.15	36.45	1.8	2.2	0.301
("2/11) 40	42.75	43.05	2.3	2.8	0.452
("2) 50	55.75	56.05	2.4	2.9	0.620

Note: Table (b) for waste pipes - Cold water

LENGTH : 4, 5.8 & 6 meters (Other lengths are available on request).

COLOUR : Grey.

SOCKET TYPE : Solvent cement (SC/J) type, Rubber Joint (R/J) type
Non standard lengths & colours available on request.

UPVC Drain, Waste, Vent Pipes According to ASTM D 2665.

Applications : Drain, Waste, Vent (DWV)

Nominal Size (inch)	Outside Diameter (mm)		Wall Thickness (mm)		Weight kg/m
	Min	Max	Min	Max	
1 1/4	42.03	42.29	3.56	4.07	0.65
1 1/2	48.11	48.41	3.68	4.19	0.77
2	60.18	60.48	3.91	4.42	1.04
3	88.7	89.1	5.49	6.15	2.14
4	114.07	114.53	6.02	6.73	3.05
6	168.0	168.56	7.11	7.97	5.37
8	218.7	219.46	8.18	9.17	8.11

LENGTH : 5.8 & 6 meters (Other lengths are available on request).

COLOUR : White.

SOCKET TYPE : Plain, Solvent cement (SC/J)
Non standard lengths & colours available on request.

SASO - ISO - 4435

Table 3 Mean outside diameters

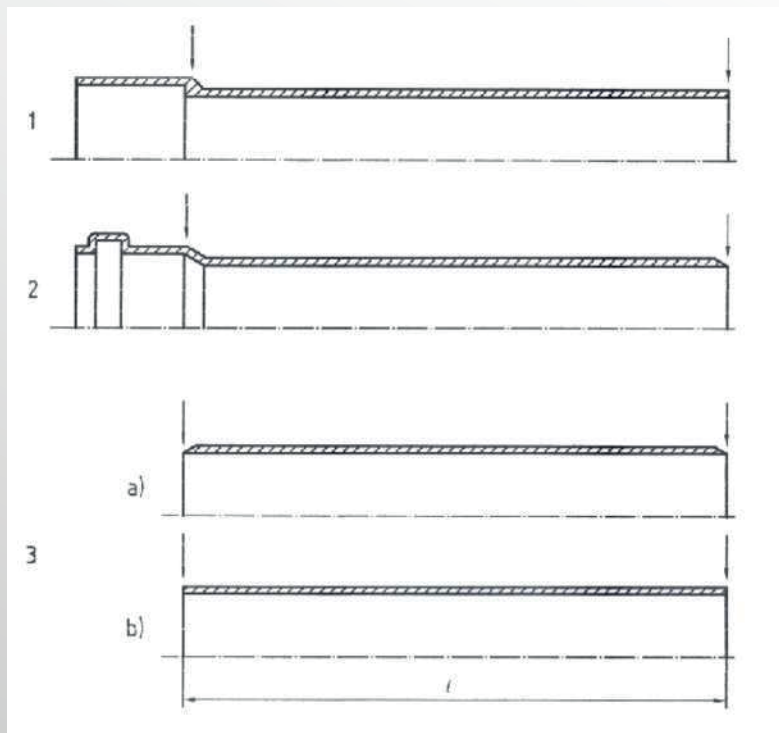
Dimensions in millimeters

Nominal size ^a DN/OD	Nominal outside diameter ^d _n	Mean outside diameter ^d _{em}	
		Min	Mix
110	110	110	110.3
125	125	125	125.3
160	160	160	160.4
200	200	200	200.5
250	250	250	250.5
315	315	315	315.6
(355)	355	355	355.7
400	400	400	400.7
(450)	450	450	450.8
500	500	500	500.9

non-preferred sizes are indicated in parentheses.

Key

- 1 Single-socket pipe
- 2 ring-seal pipe
- 3 plain-ended pipe
 - a) with chamfer
 - b) without chamfer



SASO - ISO - 4435

Table 4 _ Wall thicknesses

Dimensions in millimeters

Nominal size ^a DN/OD	Nominal out- side diameter ^d _n	SN 2 SDR 51		SN 4 SDR 41		SN 8 SDR 34	
		e Min	^e _m Mix	e Min	^e _m Mix	e Min	^e _m Mix
110	110			3.2	3.8	3.2	3.8
125	125			3.2	3.8	3.7	4.3
160	160	3.2	3.8	4	4.6	4.7	5.4
200	200	3.9	4.5	5.9	5.6	5.9	6.7
250	250	4.9	5.6	6.2	7.1	7.3	8.3
315	315	6.2	7.1	7.7	8.7	9.2	10.4
(355)	355	7	7.9	8.7	9.8	10.4	11.7
400	400	7.9	8.9	9.8	11	11.7	13.1
(450)	450	8.8	9.9	11	12.3	13.2	14.8
500	500	9.8	11	12.3	13.8	14.6	16.3

non-preferred sizes are indicated in parentheses.

Table 6 _ Diameters and lengths of lengths of elastomeric ring seal sockets and spigots

Dimensions in millimeters

Nominal size ^a DN/OD	Nominal outside diameter ^d _n	Cocket			Spigot	
		^d _{sm} Min	A Min	C Max	L ₁ Min	H ^b
110	110	110.4	32	26	60	6
125	125	125.4	35	26	67	6
160	160	160.5	42	32	81	7
200	200	200.6	50	40	99	9
250	250	250.8	55	70	125	9
315	315	316	62	70	132	12
(355)	355	356.1	66	70	136	13
400	400	401.2	70	80	150	15
(450)	450	451.4	75	80	155	17
500	500	501.5	80	80	160	18

a Non-preferred sizes are indicated in parentheses.

b Approximate values when a 15° chamfer is applied

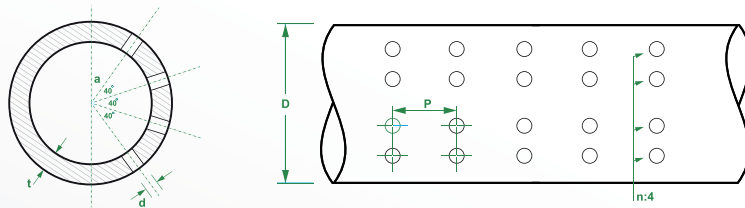
c Higher values of C are allowed, provided the manufacturer states in his documentation the actual value of L_{1,min} required by the equation $L_{1,min} = A_{min} + C$.

Perforated and Slotted pipes

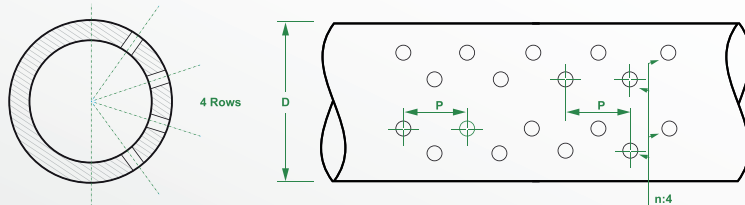
PERFORATED UPVC pipes

A RIG PLASCO Perforated uPVC Pipes are Manufactured upon request depending on the size and class of the pipes , below figures given a general configuration which may vary for each clients requirements .

Straigh Rows



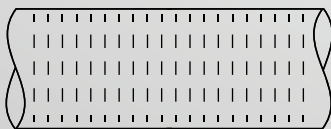
Staggered Rows



Range of sizes	75 mm to 500 mm
Longitude Pitch of wholes (LP)	30 mm to 200 mm
Hole Diameter	05 mm to 13 mm
Number of Rows	1 to 6
Angular Pitch of Holes	40 degree for 3 or 4 rows 40 , 80 or 120 degree for 2 rows

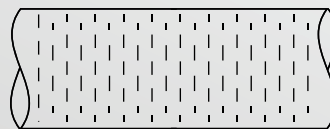
SLOTTED UPVC pipes

B RIG PLASCO slotted pipes are produced according to RDA requirements and for use in lowering the under-ground water table .



STRAIGHT SLOTS

Slot Length
Slot Width
Number of Row
Angular Pitch



STAGGERED SLOTS

: Depend to the size
: 1 / 1.1 / 1.5 / 2 mm
: 4,6 & 8 (but according to the size)
: To be recommended by RIG PLASCO

UPVC ELECTRICAL AND TELECOMMUNICATION DUCT



UPVC Electrical Conduits according to DIN 8062

Applications: Electrical installations.

Nominal OD (mm)	Class 2		Class 3	
	Wall Thickness (mm)	Weight kg/m	Wall Thickness (mm)	Weight kg/m
40	-	-	1.8	0.334
50	-	-	1.8	0.422
63	-	-	1.9	0.562
75	1.8	0.642	2.2	0.782
90	1.8	0.774	2.7	1.13
110	2.2	1.16	3.2	1.64
125	2.5	1.48	3.7	2.13
140	2.8	1.84	4.1	2.65
160	3.2	2.41	4.7	3.44
200	4.0	3.70	5.9	5.37
225	4.5	4.70	6.6	6.76
250	4.9	5.65	7.3	8.31
280	5.5	7.11	8.2	10.4
315	6.2	9.02	9.2	13.2
400	7.9	14.5	11.7	21.1

Length : 6 meters (Other lengths are available on request).

Colour : Grey.

Socket Type : Solvent cement (SC/J) type.

UPVC Electrical Conduits according to BS 6099

Applications: Electrical installations.

Nominal Size (mm)	Minimum Inside Diameter (mm)			Maximum Wall Thickness mm			Weight kg/m		
	Light	Medium	Heavy	Light	Medium	Heavy	Light	Medium	Heavy
16	13.7	13.0	12.2	1.15	1.5	1.9	0.080	0.100	0.125
20	17.4	16.9	15.8	1.3	1.55	2.1	0.120	0.140	0.180
25	22.1	21.9	20.6	1.45	1.8	2.2	0.165	0.200	0.240
32	28.6	27.8	26.6	1.7	2.1	2.7	0.245	0.296	0.370
40	35.8	35.4	34.4	2.1	2.3	2.8	0.352	0.406	0.485
50	45.1	44.3	43.2	2.45	2.85	3.4	0.540	0.622	0.707
63	57.0	-	-	3.0	-	-	0.830	-	-

Length : 3 meters (Other lengths are available on request).

Colour : Black/White.

Socket Type : Plain, Solvent cement (SC/J) type



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

Introduction

PLASCO for plastic Industries, One of the major manufactures of plastic products in the Kingdom of Saudi Arabia established in 1984 to produce various kinds of Plastic products. One of PLASCO main product is rigid PVC conduits according to American NEMA standard.

Material

Material of Electrical Plastic Conduit Pipe According to (NEMA) standard from rigid Polyvinyl Chloride (PVC) . The plastic compound used in manufacturing is according to ASTM D1784.and the color shall be gray color.

Dimensions & Sizes

NEMA TC2 Eletrical plastic Tube (EPT) and conduit EPC-40 and EPC-80 sizes and Dimensions enclosed, according to specifications TC2-1983 is shown in Table #11.

NEMA TC-6 plastic duct for under ground installations. Sizes and dimensions is shown in Table # 12 .

NEMA TC-8 Extra strength plastic duct for under ground installations. Sizes and dimensions is shown in Table # 13 .

To assure and maintain high Quality of products, PLASCO have a well-experienced quality control team and strict production control system in the quality control laboratories using high technology tools to ensure the best and high quality products. PLASCO meets ARAMCO standards, ISO 9002 quality certification achieved on 1998, and achieved SASO (Saudi Arabian Standards Organization) cerification and achieve NSF 61 Certifecat 2014 .

Chemical Resistance

Unlike Metallic conduits, PLASCO PVC conduits are totally resistant to corrosive fluids , wide range of acids , alkalin, soil and all kinds of water.

Usages

Rigid PVC conduits being a non-conductor of electricity is an ideal media designed to suit for concrete encasement as well as for direct burial applications of power supply, telecommunications, street lighting and network distribution.

Technical Properties For NEMA

الخصائص الفنية - نيمما

Material Properties

Material	Polyvinyl Chlorid (PVC)
----------	-------------------------

Physical Properties

Specific Gravity	1.42 gm/ cm ³
Flammabilty	Self Extinguishing
Water Absorption	< 4mg /Cm ²

Mechanical Properties

ZOD Impact Strength	4.0 ft lb/In Notch
Tensile Strength	7500 p.s.i.
Flexural Strength	13500 p.s.i.
Modulus of Elasticity	5.0 X 10 ⁵ p.s.i.
Flattening	No Splitting

Thermal Properties

Vicat Softenning Point 5KG	> 80 C
Thermal Conductivity	0.13 k Cal / m.h. C
CO-Efficient of linear	5.0 X 10 ⁻⁵ / C
Expansion	-
Specifi Heat	0.25 Cal / C

Electrical Properties

Dielectric Strength	> 40 kv /mm
Surface Resistivity	> 10 chm
Volume Resistivity	> 10 chm.cm

UPVC Electrical Conduits & Tubing according to NEMA TC-2

Applications:

EPT Electrical plastic tubing for encasement in concrete, EPC 40 Electrical plastic conduit for directburial underground, EPC 80 Electrical plastic conduit for heavy duty.

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
1/2	21.34	1.52	2.03	2.77	3.28	3.73	4.24
3/4	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
1 1/4	42.16	1.78	2.29	3.56	4.06	4.85	5.43
1 1/2	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.
- EPC - 40 Electrical Plastic Conduit - Designed for normal duty application.
- EPC - 80 Electrical Plastic Conduit - Designed for heavy duty application.
- All EPT - A - PVC and EPC - 40 - PVC and EPC - 80 - PVC shall be gray color.



UPVC Electrical Conduits & Tubing according to NEMA TC-6 & ASTM F 512

Applications: Type EB for encased burial in concrete, Type DB for direct burial without concrete.

Nominal Size (inch)	Outside Diameter (mm)	PVC type EB 20		PVC type DB 60	
		Wall Thickness (mm)	Weight kg/m	Wall Thickness (mm)	Weight kg/m
2	60.17	1.52	0.465	1.52	0.465
3	88.7	1.55	0.703	2.34	1.000
4	114.1	2.08	1.170	3.07	1.650
5	141.05	2.62	1.170	3.86	2.50
6	168.0	3.18	2.530	4.62	3.570

PVC Electrical Conduits & Tubing according to NEMA TC-8 & ASTM F 512

Applications: Type EB for encased burial in concrete, Type DB for direct burial without concrete.

Nominal Size (inch)	Outside Diameter (mm)	PVC type EB 35		PVC type DB 120	
		Wall Thickness (mm)	Weight kg/m	Wall Thickness (mm)	Weight kg/m
1	33.27	-	-	1.52	0.251
1 1/2	48.11	-	-	1.52	0.369
2	60.17	1.52	0.465	1.96	0.576
3	88.7	1.93	0.847	3.00	1.250
4	114.1	2.54	1.390	3.91	2.050
5	141.05	3.2	2.09	4.85	3.12
6	168.0	3.86	3.020	5.77	4.420

Length : 5.8 & 6 meters (Other lengths are available on request).

Colour : Grey.

Socket Type : Solvent cement (SC/J) type

UPVC Electrical & Telephone Duct

Applications: Electrical and telephone duct.

Duct No.	Outside Diameter (mm)	Wall Thickness (mm)	
		min	max
54D	96.5 +/-0.2	3.25	3.65
56	53.9 +/-0.1	1.55	1.70
57	114.3 +/-0.2	3.4	3.8

Length : 6 meters (Other lengths are available on request).

Colour : Black.

Socket Type : Solvent cement (SC/J) type

UPVC Telephone Duct (U-Gard)

Item Description	Wall Thickness (mm)	No. of Holes/pc	Length (cm/pc)	Weight (kg/pc)
36 U-Gard	2.8	10	150	0.60

Colour: Yellow.

Note: UV Resistance

PLASCO uPVC Conduits



BSEN 61386 – Heavy Duty, Medium Guage Conduits

UPVC Conduits complying with BSEN61386-Part-1
Standard length 2.9m Black or White

Outside Diameter	Max. Wall Thickness
20mm	1.6mm
25mm	1.8mm
32mm	2.1mm
38mm	2.2mm
50mm	2.5mm

Manufactured in accordance with the BSEN 61386 Part-1 medium mechanical stress. It provides excellent physical properties for flush and surface applications where heavy compressive strength is not required.



BSEN 61386 – Very Heavy Duty, Heavy Guage Conduits

BSEN 61386 Part-1 Conduits Medium Impact Heavy guage
Standard length 2.9m Black or White

Outside Diameter	Max. Wall Thickness
20mm	1.8mm
25mm	1.9mm
32mm	2.5mm
38mm	2.5mm
50mm	3.2mm

Manufactured in accordance with the BSEN 61386 Part-1 medium mechanical stress and complies with all relevant requirement of 16th edition of IEE wiring regulation and provide high degree of protection.



US Sch. 40 Conduits

Standard length 3m Grey

Inside Diameter	Max. Wall Thickness
1/2"	2.77-3.28mm
3/4"	2.87-3.38mm
1"	3.38-3.89mm
1 1/2"	3.68-4.19mm
2"	3.91-4.42mm
3"	5.49-6.15mm
4"	6.02-6.73mm

Manufactured to NEMA TC -2 and UL 651 specifications, it provides a high degree of protection.



SASO Conduits

SASO GSO IEC 61386-1 & 21 Conduits
Standard length 3m Black or White

Outside Diameter	Max. Wall Thickness
20mm	1.55mm
25mm	1.8mm
32mm	2.1mm

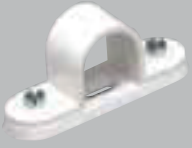




Manufactured in accordance with the Saudi Standard SSA 254/255 and SASO GSO IEC 61386-1 & 21. It provides excellent physical properties for flush and surface applications where heavy compressive strength is not required.



Manufactured in accordance with BS4607-5/1982+A3-2010

Tube Conduits Accessories

HEAVY GAUGE COUPLINGS	EXPANSION COUPLINGS	STRAP SADDLES	ADAPTORS MALE THREAD	ADAPTORS FEMALE THREAD	REDUCERS*
BLK OR WHI	BLK OR WHI	BLK OR WHI	BLK OR WHI WITH LOCK RINGS *20mm MALE THEREAD WITH 16mm ENTRY	BLK OR WHI PLAIN PUSH-IN WITH MALE BUSHES	BLK OR WHI
					

SPACER BAR SADDLES	SPRING CLIP SADDLES*	NORMAL BENDS	NORMAL BENDS*	LOCKRINGS
BLK OR WHI	BLK OR WHI	HEAVY GAUGE FITTED WITH TWO COUPLINGS BLK OR WHI	LIGHT GAUGE FITTED WITH TWO COUPLINGS NOT REQUIRED BLK OR WHI	BLK OR WHI
				

Tube Circular Boxes

CIRCULAR BOXES

BLK OR WHI



TERMINALS BOXES

BLK OR WHI



THROUGH BOXES

BLK OR WHI



BRANCH BOXES

BLK OR WHI



ANGLE BOXES

BLK OR WHI



ALL CIRCULAR BOXES

MATERIAL: PVC-U
 LID FIXING CETRES:
 50 .8mm
 PILLAR THREAD SIZE:
 M4(Brass inserts)
 All boxes contain moulded
 recess for earth terminal.

LOAD SUSPENSION
 Standard Circular Box:
 3kg. @ 60°c max.
 Extended Lug Box :
 10kg@ 60°c Max.

Available in black or white.
 when ordering use color
 suffix BLK or WHI.

TEE BOXES*

BLK OR WHI



INTERSECTION BOXES

BLK OR WHI



CIRCULAR LIDS AND GASKETS

BLK OR WHI



ALL CIRCULAR BOXES

MATERIAL: PVC-U
 LID FIXING CETRES:
 50 .8mm
 PILLAR THREAD SIZE:
 M4(Brass inserts)
 All boxes contain moulded
 recess for earth terminal.

For 16mm size use 20mm
 fitting with reduces
 (Ref. ER/1)

Some circular box
 are available with
 extended lugs for
 the support of heavy
 loads.

LOAD SUSPENSION
 Standard Circular Box:
 3kg. @ 60°c max.
 Extended Lug Box :
 10kg@ 60°c Max.

Available in black or white.
 when ordering use color
 suffix BLK or WHI.

cPVC PIPES

Chlorinated Polyvinyl Chloride
HOT WATER PIPES

cPVC 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.

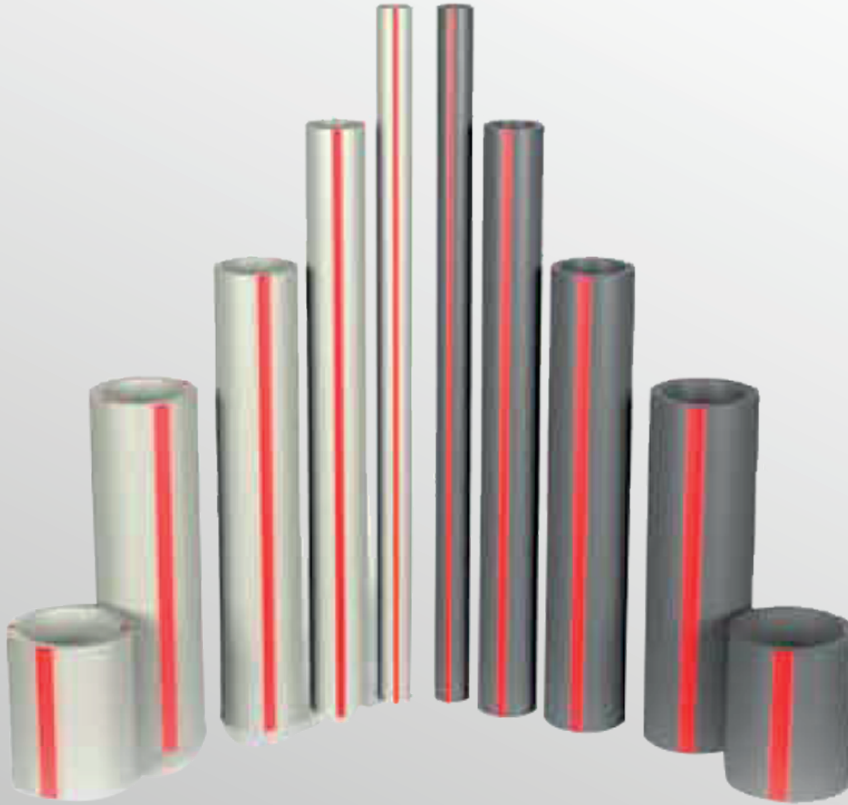
Plasco use the raw material from BF-Goodrich of USA which manufacture cPVC compound according to American standard ASTM F441.

conforming to the highest Saudi Arabian Standards (SASO 1517 / 1999)

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 الامان .

وحرصاً من بلاسكو بتوفير أنابيب cPVC تتصف بالجودة العالية فقد قامت بالإتفاق مع شركة بي اف جودريتش الأمريكية الرائدة عالمياً والمتخصصة بتصنيع المواد الخام المطابقة لمواصفات الجمعية الأمريكية للمقاييس ASTM F 441 والمطابقة مع اعلى المواصفات السعودية (ساسو 1517 / 1999)



C-PVC Pipes

C-PVC Pipes are manufactured from chlorinated Polyvinyl chloride compound, Type IV, Grade Polyvinyl chloride, Compound, Type IV, Grade a Call Classification Of 23447 as defined by ASTM D 1784. This Compound is medium grey in color and is approved for with portable water.

Advantages of C-PVC Pipes

- Corrosion Resistant.
- High water quality maintained
- Energy Efficiency.
- Reduced Condensation.
- Quite Operation.
- Scale Resistant.
- Longer life.
- Increased reliability.
- Stable in high fluid temperatures.

Applications

- Domestic Hot Water Plumbing.
- Chemical Processing Plants.
- Plating Plants.
- High Purity applications.
- water and waste water treatment plants.
- Industrial applications involving corrosive fluids.

Dimensions of C-PVC Pipes As Per ASTM F 441 : Schedule 80

Nominal Pipe Size	Outside Diameter	Wall Thickness		Sustained Pressure Rating	
		Inches	mm	PSI	Bars
½	21.34 ± 0.10	0.147 + 0.020	3.73 + 0.51	850	58.6
¾	26.7 ± 0.10	0.154 + 0.020	3.91 + 0.51	690	47.6
1	33.4 ± 0.13	0.179 + 0.021	4.55 + 0.53	630	43.4
1¼	42.2 ± 0.13	0.191 + 0.023	4.85 + 0.58	520	35.9
1½	48.3 ± 0.15	0.200 + 0.024	5.08 + 0.61	470	32.4
2	60.3 ± 0.15	0.218 + 0.026	5.54 + 0.66	400	27.6

Properties Of C-PVC Pipes

Property	Characteristics	Test meth	Value	Units
Physical	Specific Gravity	ASTM D 792	1.55	g / cc
	Hardness	ASTM D 785	120	Rockwell R
	Water Absorption	ASTM D 570	0.05	mg / cm ²
	Tensile Strength@20oC	ASTM D 638	500	kg / cm ²
	Ultimate Elongation.min.	ASTM D 638	80	%
	Copressive Strength	ASTM D 695	675	kg / cm ²
	Modulus Of Elasticity	ASTM D 5934	1500	MPa
	Modulus Of Rigidity	ASTM D 1043	12000	kg / cm ²
	Charpy Impact Strength	ASTM D 256	4.75	Joule
	Izod Impact Strength	ASTM D 256	80	J / m
Thermal	Specific Heat	ASTM D 2766	0.25	Kcal./kg/ °C
	Thermal Conductivity	ASTM D 518	0.04	Kcal/C..m.h
	Vicat Softening Point	ASTM D 1525	110	°C
	Heat Distortion Temperature	ASTM D 648	103	°C
	Co-efficient of linear expansion	ASTM D 696	5.6 x 10 ⁻⁵	mm / °C
Chemical	Resistance to chemicals	ASTM D 543	Good	-
Electrical	Volume Resistivity	ASTM D 257	10 ¹⁵	Ohms / cm
	Di Electric Strength	ASTM D 149	>40	Kv / mm
Flammability			Self Extinguishing	
	Flammability Rating	UL-94	V-0	-
	Limiting Oxygen Index	ASTM D 2863	60	-

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 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	
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

(جدول تقييم ضغط الماء دخل مواسير ال (سى بي فى سى)
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

CPVC Pipes according to DIN 8079

Nominal Size mm	Pressure Rating at 20 °C					
	PN16		PN20		PN25	
	Wall Thickness (mm)	Weight kg/m	Wall Thickness (mm)	Weight kg/m	Wall Thickness (mm)	Weight kg/m
16	1.2	0.100	1.5	0.118	1.8	0.136
20	1.5	0.151	1.9	0.183	2.3	0.217
25	1.9	0.234	2.3	0.379	2.8	0.326
32	2.4	0.379	3.0	0.455	3.6	0.534
40	3.0	0.582	3.7	0.701	4.5	0.830
50	3.7	0.896	4.6	1.090	5.6	1.290
63	4.7	1.430	5.8	1.720	7.0	2.020
75	5.6	2.020	6.9	2.420	8.4	2.880
90	6.7	2.880	8.2	3.460	10.0	4.100
110	8.2	4.310	10.0	5.130	12.3	6.160

Length: 5.8 and 6 meters | Colour: Beige
 Socket Type: Plain *Non standard lengths and colour are available on request.

BRITISH STANDARDS

Technical Specifications uPVC Pressure (water supply, irrigation & industrial use)

Nominal Size	Out Side Diameter		Wall Thickness													
			mm													
Inches	mm		Class B		Class C		Class D		Class E		Class O		Class 6		Class 7	
Inches	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
½	21.2	21.5	-	-	-	-	-	-	1.7	2.1	-	-	2.8	3.3	3.7	4.3
¾	26.6	26.9	-	-	-	-	-	-	1.9	2.5	-	-	2.9	3.4	3.9	4.5
1	33.4	33.7	-	-	-	-	-	-	2.2	2.7	-	-	3.4	4.0	4.5	5.2
1¼	42.1	42.4	-	-	-	-	2.2	2.7	2.7	3.2	-	-	3.6	4.2	4.8	5.5
1½	48.1	48.4	-	-	-	-	2.5	3.0	3.1	3.7	1.8	2.2	3.7	4.3	5.1	5.9
2	60.2	60.5	-	-	2.5	3.0	3.1	3.7	3.9	4.5	1.8	2.2	-	-	5.5	6.3
2½	75.0	75.3	-	-	3.0	3.5	3.9	4.5	4.8	5.5	1.8	2.2	-	-	-	-
3	88.7	89.1	2.9	3.4	3.5	4.1	4.6	5.3	5.7	6.6	1.8	2.2	-	-	-	-
4	114.1	114.5	3.4	4.0	4.5	5.2	6.0	6.9	7.3	8.4	2.3	2.8	-	-	-	-
6	168.0	168.5	4.5	5.2	6.6	7.6	8.8	10.2	10.8	12.5	3.1	3.7	-	-	-	-
8	218.8	219.4	5.3	6.1	7.8	9.0	10.3	11.9	12.6	14.5	3.1	3.7	-	-	-	-

Pressure Ratings : Designated by the different classes at 20°C

Class	B	C	D	E	O
Bar	6	9	12	15	Non Pressure

Note : 2% of rated pressure should be reduced for each 1°C rise above 20°

Pressure Rating Bar		
Size - Inch	Class 6	Class 7
½	28	40
¾	22	32
1	24	32
1¼	20	28
1½	18	25
2	-	22

- Manufactured to** : BS 3505 / Classes B, C, D & E, BS 3506, Classes 0, 6 & 7
- Standard Length** : 5.8 and 6 meters
- Color** : Grey (except Class 0 which is white & Class B in black)
- Soket** : Solvent weld
: Plain - end

1 - A wide range of compatible fittings manufactured to BS 4346 part 1 by Durapipe (U.K) are available.

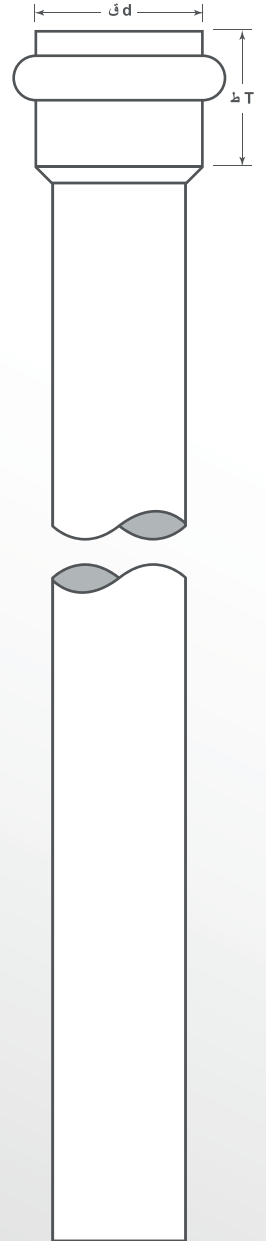
2 - Class D pipes are non - stock items, can be produced on request.



أبعاد الوصلة ذات الحلقة المطاطية

"A" Rubber Joints Dimensions

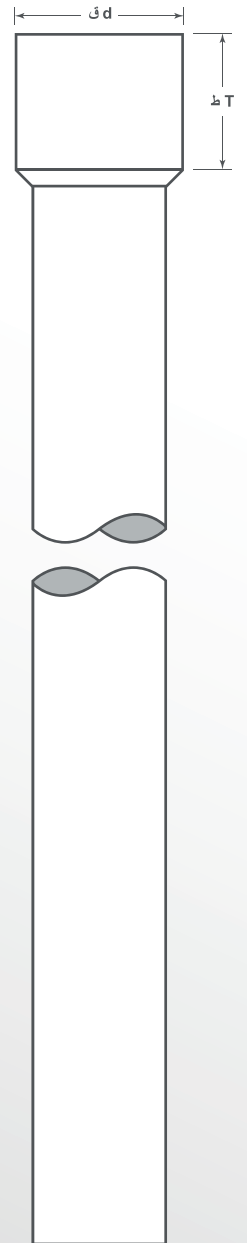
القطر الخارجي SIZE (O.D)	الصفن CLASS	ق. قطر الوصلة D. (O.D) SOCKET	ط. عمق الوصلة T. SOCKET DEPTH
63	3	84	105
	4	86	
	5	90	
75	3	99	108
	4	101	
	5	105	
90	3	116	112
	4	119	
	5	125	
110	3	139	118
	4	143	
	5	150	
160	3	195	135
	4	202	
	5	211	
200	3	242	150
	4	249	
	5	260	
225	3	268	155
	4	227	
	5	291	
250	3	296	166
	4	306	
	5	322	
280	3	331	176
	4	343	
	5	361	
315	3	370	190
	4	383	
	5	403	
400	2	460	230
	3	470	
	4	481	
	5	515	



أبعاد الوصلة العادية (غراء)

Solvent Cement Joints Dimensions

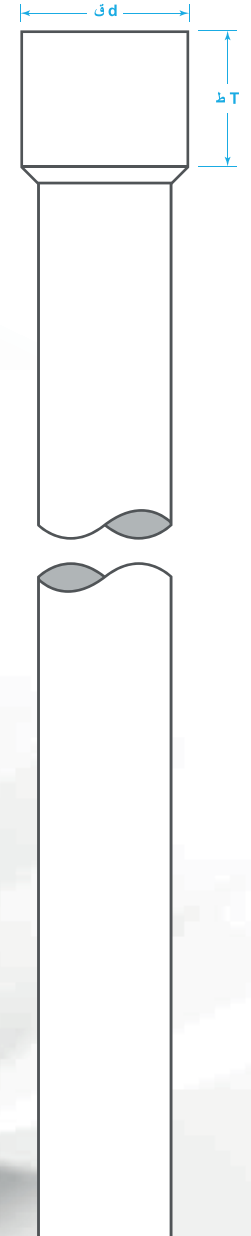
القطر الخارجي SIZE (O.D)	الصنف CLASS	ق. قطر الوصلة D. (O.D) SOCKET	ط. عمق الوصلة T. SOCKET DEPTH
16	5	19	30
20	5	24	32
25	4	28	33
	5	29	
32	4	36	35
	5	37	
40	3	44	38
	4	45	
	5	47	
50	3	54	48
	4	56	
	5	58	
63	3	67	65
	4	70	
	5	73	
75	3	80	72
	4	83	
	5	87	
90	3	96	85
	4	99	
	5	105	
110	3	117	93
	4	122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



أبعاد الوصلة العادية (غراء)

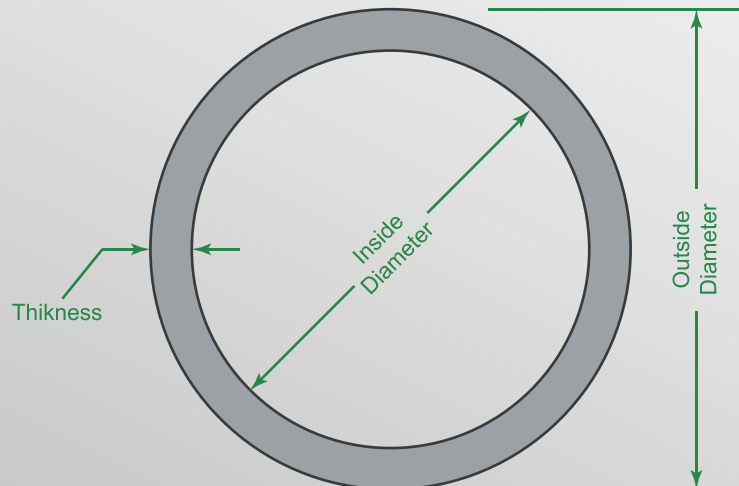
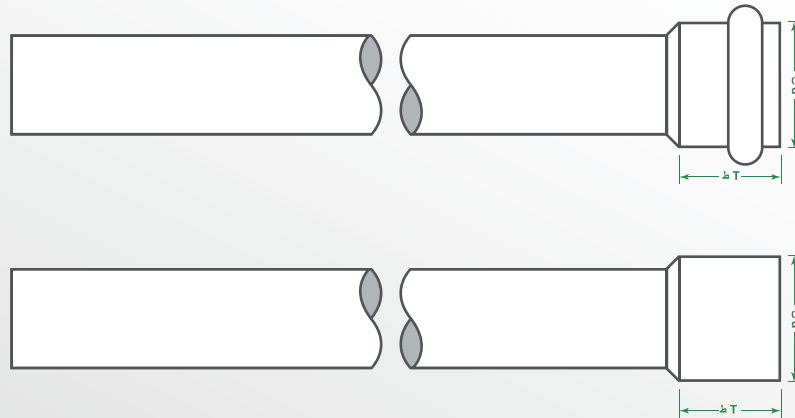
Solvent Cement Joints Dimensions

القطر الخارجي SIZE (O.D)		ق. قطر الوصلة D. (O.D) SOCKET		ط. عمق الوصلة T. SOCKET DEPTH	
in	mm	in	mm	in	mm
1 1/4	42.54	1.871	47.52	0.687	17.44
1 1/2	48.64	2.127	54.03	0.687	17.44
2	6.71	2.634	66.90	0.750	19.05
3	89.41	3.841	97.56	1.187	30.13
4	114.81	4.907	124.64	1.281	32.54
6	168.83	7.203	182.96	1.500	38.10
8	219.84	9.320	236.73	1.687	42.85



■ National and International Standard Sizes Available

u PVC	u PVC	c PVC
<p>وفق مواصفات الأنابيب الأمريكية 1/4 - 8"</p>	<p>وفق مواصفات الأنابيب الألمانية والسعودية 16 - 710 mm</p>	<p>مقاسات الحار Schedule 1/4 - 6"</p>



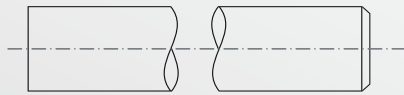
■ PLASCO PIPE JOINT

PLASCO pipes are available in nominal standard lengths of 6 meters. Other lengths can be supplied by arrangement customer requirement.

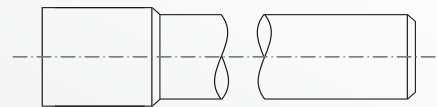
Pipe Joint- PLASCO pipes are supplied with various joint system.

Plain Ended (P/E) pipe for use with separate Couplings, Ring Seal, Solvent (Adhesive) Weld or Special Fittings. Pipe can also be supplied with both ends chamfered (D/C) if requested, in lengths of 6 metres or 5 metres other lengths can be supplied.

Plain Socket (P/S) Solvent Weld Joints. Pipes are supplied with an integral plain socket preformed in our factory. They are jointed using the recommended solvent adhesive supplied by PLASCO.

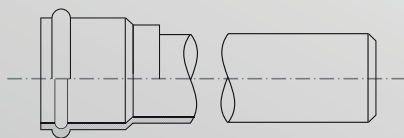


Plain End/Chamfered End

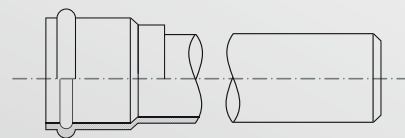


Plain Socket Solvent Weld joint

Rubber ring joints (R/J). Pipes are supplied with integral grooved socket at one end incorporating elastomeric sealing ring. PLASCO manufacture the world wide known Anger joint system, the Anger joint sockets are made with locally wall thickened pipe. PLASCO also produce the "A" joint system which uses a reinforcing sleeve for making the "A" joint socket. in internal pressure in the pipeline.



Anger - joint (RIJ)



A - joint (RIJ)

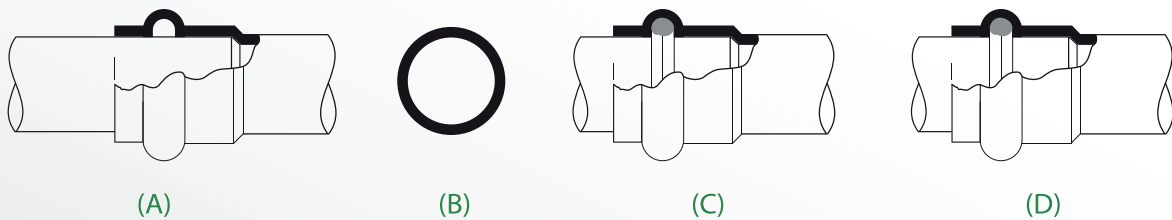
Ensure that the spigot and socket are free from dust, grit, grease and as dry as possible .

Insert pipe into the socket without seal ring place and mark pipe when it fully inserted.

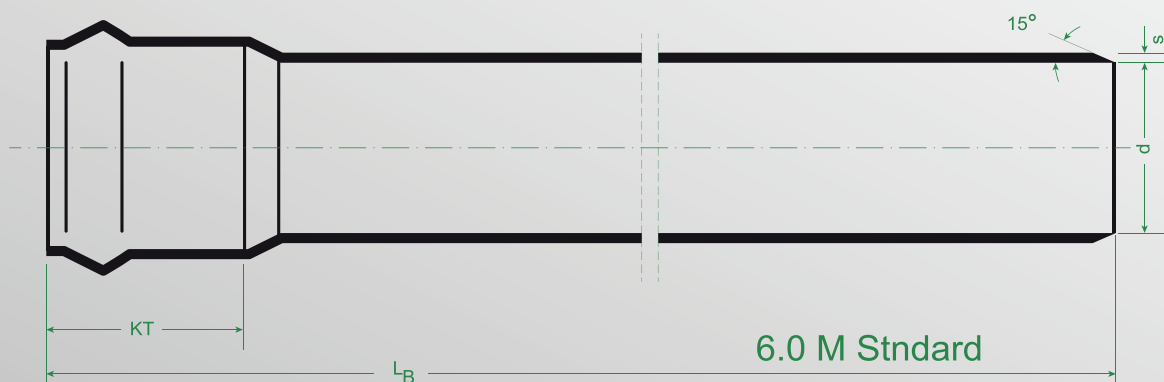
Place seal in groove of socket ensuring that seal is correct way round . Anger seal ring should be fitted with tapered section facing the outside of the socket.

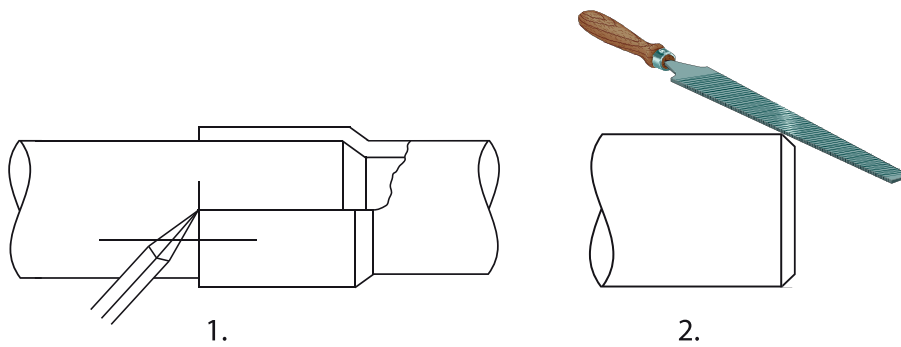
Apply jointing lubricant to the chamfer and the end of the spigot of the pipe or fitting only.

Push the pipe firmly into the socket up to the insertion mark previously made . If an expansion gap is required the pipe is then pulled back by the desired amount .



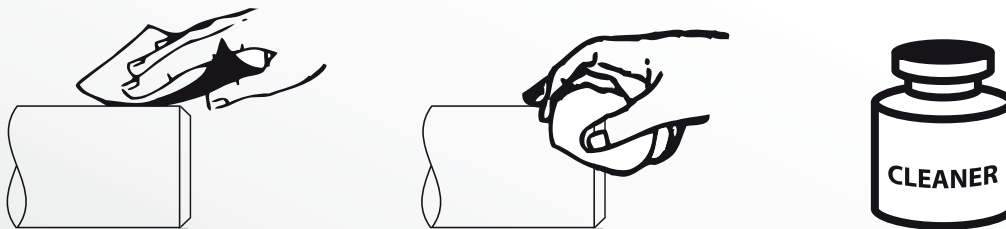
uPVC Pipe with wallthickened socket joint (Rubber Joint)
of unplasticized Poly vinyl chloride (uPVC) .



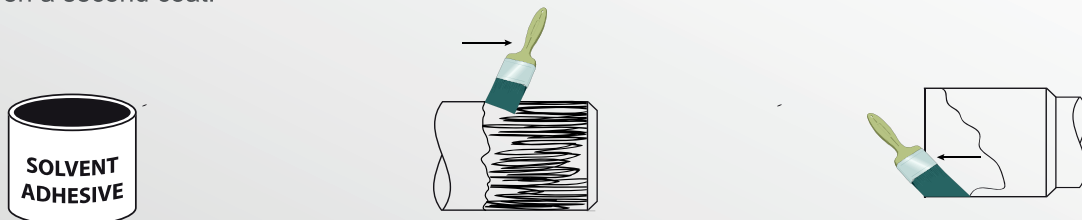


Pipes up to 75mm may be jointed easily with solvent adhesives. Larger sizes require more special techniques and require two men to make such joints.

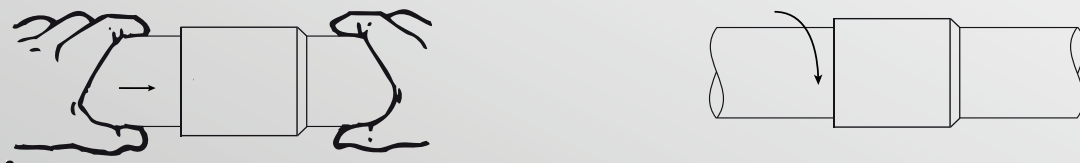
- 1- Jointing Procedure. Mark depth of entry of the pipe into the socket and alignment mark.
- 2- Make small chamfer on the edge of the pipe and with medium file.
- 3- Roughen the outside of the pipe and the inside of the socket using sand paper or emery cloth upto the entry mark.
- 4- Clean both surfaces and remove all dust, grease and swarf using a dry clean cloth and cleaner.



- 5- Stir adhesive thoroughly.
- 6- Apply adhesive without delay after cleaning , using a flat clean brush . Apply an even unbroken layer brushing axially to the pipe end and socket mouth with a heavier layer on the pipe. where loose fits are found, the pipe should be given a second coat.



- 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).



- 8- Solvent Weld Jointing of large diameter pipe requires special care and our technical service department should be contacted in case of difficulty.

9- Always replace the lid of the can after making a joint and follow the instructions on the can observing any warnings.

10- Always use the solvent adhesive supplied and approved by PLASCO .

Installation and Storage of PVC Pipes

When installing uPVC - cPVC pipes and fittings there are certain basic rules to follow. These serve as guide to ensure the maximum efficiency of the pipes system installed.

1 STORAGE:

Pipes should not be stacked in large piles, especially in warm conditions as the lower layers may distort, resulting in difficulties in jointing and alignment. The sockets of the pipes should protrude from the stacks all times.

Tropics and semitropics pipes and fittings should be shielded from direct sunlight.

Wherever possible pipes should be stored in a position where they can be cold by the wind.

2 HANDLING:

Do not drop pipes on the ground. Special care should be taken with the pipes ends as they must be in perfect condition for a proper joint.

During transportation pipes should not come into contact with sharp objects.

When lowering pipes from vehicles, timber and ropes should be used.

3 RUBBER RING JOINTING:

Clean the pipe ends fittings and rings. Apply lubricant evenly around the spigot end.

Make sure that the pipes align correctly in both planes. Do not dry to insert the spigot at an angle. Push home but not fully - stop at 13-15 mm from the bottom of the socket or from the central register of the coupler.

4 SOLVENT CEMENT JOINTING:

Clean the pipe ends and the fittings thoroughly with cleaner.

Spread adhesive liberally and evenly over spigot end and inside of socket, assemble within 40 seconds.

Hold together for at least 5 minutes. Wipe off all excess adhesive. Leave for 24 hrs before pressure testing. Due to pipes chemicals, solvent cement melts well with its material insuring complete fitting with them .

تخزين وتركيب أنابيب PVC

عند تركيب أنابيب بي في سي وملحقاتها ، هنالك خطوات يجب اتباعها حيث أنها تضمن الفعالية القصوى :

1 التخزين

يجب عدم تخزين الأنابيب بأعداد كبيرة فوق بعضها البعض خصوصاً في الأجواء الحارة حيث أن الحمولة الزائدة تؤثر على الأنابيب الملامسة لسطح الأرض مما يتعذر معه تركيبها ووصلها عند الحاجة ، ويفترض رصها في منصات خاصة . كما يجب أن تكون وصلة النهاية بعيدة عن الحمولة ، كما يجب أن لا تعرض الأنابيب وملحقاتها إلى أشعة الشمس المباشرة وتكون منطقة التخزين عرضة لتيارات الهواء المتداخلة

2 الشحن والتحميل :

رغم صلابة ومتانة أنابيب بي في سي لابد من مراعاة الحذر عند رفعها وتحميلها حتى لا تتعرض للسقوط في الأرضيات الصلبة كما يجب المحافظة على نهايات الأنابيب للعناية بالوصلات حتى لا تتعرض للتلف ويتعذر وصلها .

3 التركيب بواسطة الحلقات المطاطية :

نظف نهاية الأنابيب والحلقات والملحقات ، ضع طبقة خفيفة من دهان التشحيم لسهولة الإنزلاق ، تأكد أن نهايات الأنابيب تلتقي تماماً في وضع متعادل وأن لا يكون وضعها منحرفاً ، ادفع طرفي النهايتين ببطء عميق 13/25 مم لتلتقي عند حافة الوصلة .

4 التركيب بواسطة اللحام السائل :

نظف نهايات الأنابيب والملحقات بواسطة منظم . غط وصلة النهاية بطبقة من اللحام السائل (الغراء) دون ترك أي فراغات في السطح ، إنتظر حوالي 40 ثانية ثم إدخال النهايتين للتوصيل ، إمسك الطرفين لمدة خمس دقائق ، ثم امسح كل الزائد من الغراء ، يفضل الإنتظار 24 ساعة قبل إجراء اختبار الضغط أو التشغيل ، ونظراً للخاصية الكيميائية للأنابيب فإن اللحام السائل يذيب مادة PVC مما يضمن إلتحام كامل للأطراف .

Notes :

