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| 
Strict Compliance with
International Standards
مطابقة لكافة المعايير الدولية | 
Massive Production
Capacity
قدرة الإنتاجية كبيرة جداً | 
Guaranteed Seamless
Supply Chain
ضمان سلسلة التوريد | 
Extended Long-Term
Warranty
ضمان يدوم طويلاً | 
Comprehensive
One-Stop Services
خدمات شاملة في مكان واحد | 
All Products
Under One Roof
كل المنتجات في مكان واحد |
| 
Uncompromising Quality
and Reliability
الاعتمادية والجودة | 
Complete Alignment with
the Kingdom's Vision
توافق كامل مع رؤية المملكة | 
Unmatched Value and
Return on Investment (ROI)
القيمة مقابل العائد في الأفضل | 
Advanced Loyalty Program
for Ultimate Satisfaction
برنامج ولاء متقدم لرضاكم | 
24/7 Round-the-Clock
Support
خدمات على مدار الساعة | 
Expert Consultation
for Optimal Value
الدعم الاستشاري لأفضل قيمة |

احسب كفاءة شبكتك:
استخدم حاسبة الهيدروليكا
المتقدمة من تكوين بلاست
OPTIMIZE YOUR NETWORK:
Use Takween's Plast Advanced
Hydraulics Calculator.



صمم بدقة:
حمل مكتبة (BIM)
لمنتجات تكوين الآن.
DESIGN WITH PRECISION:
Download Takween's BIM
Library Now.



شارع عبد الرحمن الغافقي - 3285 الروضة - بناء رقم 13213 الطابق الأول - الرياض
ABDULRAHMAN ALGHAFFEY - ST.3285 AR RAWDAH,
RIYADH 13213 1ST FLOOR
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TP TAKWEEN PLAST
One of Innovation Experts Brands إحدى علامات شركة صابرات الابتكار التجارية

uPVC FITTINGS
SASO/ISO
STANDARD



رسالتنا

بناء قاعدة صلبة ومتنامية من العملاء المخلصين عبر تقديم أنظمة أنابيب بلاستيكية عالية الجودة تتوافق مع أرفع المعايير الدولية. نحن ملتزمون بتوفير منتجات موثوقة وحلول مبتكرة وخدمات استثنائية تدعم النجاح طويل الأمد لعملائنا وشركائنا، وتسهم بفاعلية في التنمية المستدامة للبنية التحتية الحديثة.

رؤيتنا

أن نصبح رائداً عالمياً معترفاً به في مجال أنظمة الأنابيب البلاستيكية، واضعين معايير جديدة للثقة والابتكار والتميز الصناعي. نطمح "تكوين بلاست" لقيادة الأسواق الإقليمية من خلال التقنيات المتقدمة والحلول المستدامة والشراكات الاستراتيجية، لتصبح مرجعاً موثقاً لمشاريع البنية التحتية والمرافق العامة حول العالم.

قيمنا الجوهرية

1. التميز في الجودة: نلتزم بأعلى معايير التصنيع لتقديم حلول أنابيب موثوقة وطويلة الأمد تلبي المتطلبات الدولية وتتجاوز تطلعات عملائنا.
2. الالتزام تجاه العملاء: نضع عملاءنا في قلب اهتماماتنا، ونبني شراكات طويلة الأمد قائمة على الثقة، والأداء المتفوق، والنجاح المشترك.
3. الابتكار والتحسين المستمر: نسعى دوماً لتطوير حلول متقدمة وتحسين عملياتنا لمواكبة الاحتياجات المتطورة في قطاع البنية التحتية والصناعة.
4. النزاهة والموثوقية: نعمل بشفافية ومسؤولية ومهنية عالية، بما يضمن أداءً يعتمد عليه في كل مشروع ندعمه.
5. الاستدامة والمسؤولية: نلتزم بممارسات تصنيعية مسؤولة بيئياً تسهم في تطوير بنية تحتية مستدامة وحماية البيئة للأجيال القادمة.

من نحن تكوين بلاست



تعد شركة "صادرات الابتكار" المظلة المؤسسية والمالك لعلامة "تكوين بلاست" التجارية. حيث يجسد هذا الارتباط تكاملاً استراتيجياً يجمع بين الرؤية الاستثمارية والخبرة الصناعية المعمقة؛ بينما تقود "صادرات الابتكار" قاطرة الابتكار والنمو، تبرز "تكوين بلاست" كذراع صناعي متميز يمثل تحالفاً استراتيجياً لنخبة من كبار المصنعين في العديد من الدول عبر خمس دول.

نحن ملتزمون بتقديم حلول مستدامة ومبتكرة لأنظمة الأنابيب البلاستيكية المستخدمة في شبكات تصريف المياه، والاتصالات، وأنظمة التكييف (HVAC)، وتطبيقات الطاقة. ونفخر بتوفير أنظمة متطورة تتماشى مع المتطلبات المتسارعة لمشاريع البنية التحتية الحديثة، على المستويين الإقليمي والعالمي.

تكمّن قوتنا في العمل التشاركي، والوحدة التنظيمية، والالتزام المشترك بالتميز. ومن خلال تواجدها الاستراتيجي في مراكز الأعمال الرئيسية بالملكة العربية السعودية ومنطقة الخليج والشرق الأوسط، تستند "تكوين بلاست" إلى كوادرات بشرية عالية الكفاءة، وشبكة موثوقة من الموزعين، وشراكات تجارية متينة لخدمة قاعدة عريضة ومتنوعة من العملاء.

وتعمل "تكوين بلاست" كشبكة متكاملة من شركات التصنيع المحلية، بالتعاون مع أكثر من 20 شريك إنتاج دولي، مدعومة بسلسلة توريد قوية في كافة أنحاء المملكة ودول مجلس التعاون الخليجي والشرق الأوسط الكبير. تتيح لنا هذه القدرات الجماعية تقديم جودة ثابتة، وحلولاً مخصصة، وخدمات موثوقة في كافة الأسواق التي نتواجد فيها.

Who We Are **TAKWEEN PLAST**



About Us "Innovation Expeerts" (Innovation Exports) is the institutional umbrella and the proud owner of the "Takween Plast" brand. This relationship represents a strategic integration combining investment vision with industrial expertise, where "Innovation Expeerts" drives innovation and growth, while "Takween Plast" operates as a distinguished industrial arm representing a strategic consortium of leading Saudi manufacturers. We are committed to delivering sustainable and innovative plastic piping solutions for water drainage, telecommunications, HVAC, and energy applications. We take pride in providing advanced piping systems that align with the evolving requirements of modern infrastructure projects, both regionally and globally. Our strength lies in collaboration, organizational unity, and a shared commitment to excellence. With a strategic presence across key business hubs in the Kingdom of Saudi Arabia, the Gulf region, and the Middle East, TAKWEEN PLAST leverages a highly skilled workforce, a trusted network of distributors, and strong business partnerships to serve a broad and diverse client base. Operating as an integrated network of local manufacturing companies, and collaborating with more than 20 international production partners, TAKWEEN PLAST is supported by a robust distribution chain throughout Saudi Arabia, the GCC, and the wider Middle East. This collective capability enables us to deliver consistent quality, customized solutions, and reliable service across all markets we serve.



OUR MISSION

To build a strong and continuously expanding base of satisfied and loyal customers by consistently delivering high-quality plastic piping systems that meet the highest international standards. We are committed to providing reliable products, innovative solutions, and exceptional service that support the long-term success of our clients and partners while contributing to the sustainable development of modern infrastructure.

OUR VISION

To become a globally recognized leader in plastic piping systems, setting benchmarks for trust, innovation, and manufacturing excellence. Takween Plast aims to lead regional markets through advanced technologies, sustainable solutions, and strategic partnerships, becoming a trusted reference for infrastructure and utility projects worldwide.

Our Core Values

1. **Quality Excellence:** We uphold the highest standards in manufacturing, delivering reliable and long-lasting piping solutions that meet international requirements and exceed customer expectations.
2. **Customer Commitment:** We place our customers at the center of everything we do, building long-term partnerships based on trust, performance, and mutual success.
3. **Innovation & Continuous Improvement:** We continuously develop advanced solutions and enhance our processes to meet evolving infrastructure and industry demands.
4. **Integrity & Reliability:** We operate with transparency, accountability, and consistency, ensuring dependable performance in every project we support.
5. **Sustainability & Responsibility:** We are committed to environmentally responsible manufacturing practices that contribute to sustainable infrastructure development and long-term environmental protection.

uPVC FITTINGS

SASO/ISO STANDARD




HIGH
DURABILITY


CORROSION
RESISTANT


LEAK
PROOF


QUALITY
ASSURED

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"Y" 45° Female / Female		Rubber Ring		
Code	Size	D	DI	L
AL50Y12S	50mm	50	-	20
ALN75Y12S	75mm	75	-	25
ALN3Y12S	82mm	82	-	26
ALN4Y12S	110mm	110	-	40
ALN6Y12S	160mm	160	-	60
ALN8Y12S	200mm	200	-	61

"Y" 45° Male / Female		Rubber Ring		
Code	Size	D	DI	L
ALN75Y11S	75mm	75	75	25
ALN3Y11S	82mm	82	82	26
ALN4Y11S	110mm	110	110	40
ALN6Y11S	160mm	160	160	60
ALN8Y11S	200mm	200	200	61

"Y" 45° Female / Female Access Opening		Rubber Ring		
Code	Size	D	DI	L
ALN3YA12S	82mm	82	-	26
ALN4YA12S	110mm	110	-	40

"Y" 45° Male / Female Access Opening		Rubber Ring		
Code	Size	D	DI	L
ALN3YA11S	82mm	82	82	26
ALN4YA11S	110mm	110	110	40

DOUBLE "Y" 45° Female / Female		Rubber Ring		
Code	Size	D	DI	L
ALN3DY12S	82mm	82	-	26
ALN4DY12S	110mm	110	-	40

ABOVE GROUND UPVC SOIL & WASTE FITTINGS BS EN 1329-1 (SUPERCEDES BS 5255 & BS 4514)



DOUBLE "Y" 45° Male / Female		Rubber Ring		
Code	Size	D	DI	L
ALN3DY11S	82mm	82	82	26
ALN4DY11S	110mm	110	110	40

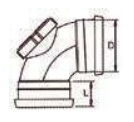
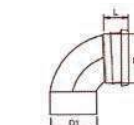
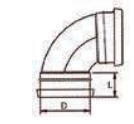
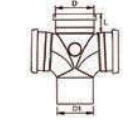
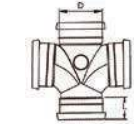
TEE 87.5° Female / Female		Rubber Ring		
Code	Size	D	DI	L
ALN50T12S	50mm	52	-	20
ALN75T12S	75mm	75	-	25
ALN3T12S	82mm	82	-	26
ALN4T12S	110mm	110	-	40
ALN6T12S	160mm	160	-	60
ALN8T12S	200mm	200	-	61

TEE 87.5° Male / Female		Rubber Ring		
Code	Size	D	DI	L
ALN75T11S	75mm	75	75	25
ALN3T11S	82mm	82	82	26
ALN4T11S	110mm	110	110	40
ALN6T11S	160mm	160	160	60
ALN8T11S	200mm	200	200	61

TEE 87.5° Female / Female Access Opening		Rubber Ring		
Code	Size	D	DI	L
ALN75TA12S	75mm	75	-	25
ALN3TA12S	82mm	82	-	26
ALN4TA12S	110mm	110	-	40

TEE 87.5° Male / Female Access Opening		Rubber Ring		
Code	Size	D	DI	L
AL75TA11S	75mm	75	75	25
ALN3TA11S	82mm	82	82	26
ALN4TA11S	110mm	110	110	40

ABOVE GROUND UPVC SOIL & WASTE FITTINGS BS EN 1329-1 (SUPERCEDES BS 5255 & BS 4514)



DOUBLE TEE 87.5° Female / Female		Rubber Ring		
Code	Size	D	DI	L
ALN3DT12S	82mm	82	-	26
ALN4DT12S	110mm	110	-	40

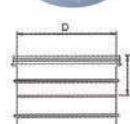
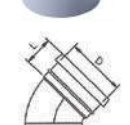
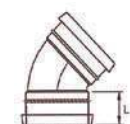
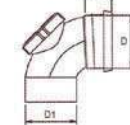
DOUBLE TEE 87.5° Male / Female		Rubber Ring		
Code	Size	D	DI	L
ALN3DT11S	82mm	82	82	26
ALN4DT11S	110mm	110	110	40

BEND 87.5° Female / Female		Rubber Ring		
Code	Size	D	DI	L
ALN50B12S	50mm	50	-	20
ALN75B12S	75mm	75	-	25
ALN3B12S	82mm	82	-	26
ALN4B12S	110mm	110	-	40
ALN6B12S	160mm	160	-	60
ALN8B12S	200mm	200	-	61

BEND 87.5° Male / Female		Rubber Ring		
Code	Size	D	DI	L
ALN75B11S	75mm	75	75	25
ALN3B11S	82mm	82	82	26
ALN4B11S	110mm	110	110	40
ALN6B11S	200mm	200	160	61
ALN8B11S	200mm	200	200	61

BEND 87.5° Female / Female Access Opening		Rubber Ring		
Code	Size	D	DI	L
ALN75BA12S	75mm	75	-	25
ALN3BA12S	82mm	82	-	26
ALN4BA12S	110mm	110	-	40

ABOVE GROUND UPVC SOIL & WASTE FITTINGS BS EN 1329-1 (SUPERCEDES BS 5255 & BS 4514)



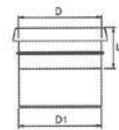
BEND 87.5° Male / Female Access Opening		Rubber Ring		
Code	Size	D	DI	L
ALN75BA11S	75mm	75	75	25
ALN3BA11S	82mm	82	82	26
ALN4BA11S	110mm	110	110	40

BEND 45° Female / Female		Rubber Ring		
Code	Size	D	DI	L
ALN50B4512S	50mm	50	-	20
ALN75B4512S	75mm	75	-	25
ALN3B4512S	82mm	82	-	26
ALN4B4512S	110mm	110	-	40
ALN6B4512S	160mm	160	-	60
ALN8B4512S	200mm	200	-	61

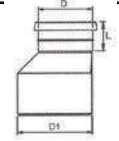
BEND 45° Male / Female		Rubber Ring		
Code	Size	D	DI	L
ALN75B4511S	75mm	75	75	25
ALN3B4511S	82mm	82	82	26
ALN4B4511S	110mm	110	110	40
ALN6B4511S	160mm	160	160	60
ALN8B4511S	200mm	200	200	61

EXPANSION/DOUBLE RUBBER SOCKET/COUPLER		Rubber Ring		
Code	Size	D	DI	L
ALN50C12S	50mm	50	-	20
ALN75C12S	75mm	75	-	25
ALN3C12S	82mm	82	-	26
ALN4C12S	110mm	110	-	40
ALN6C12S	160mm	160	-	60
ALN8C12S	200mm	200	-	61

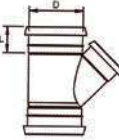
ABOVE GROUND UPVC SOIL & WASTE FITTINGS BS EN 1329-1 (SUPERCEDES BS 5255 & BS 4514)



SINGLE RUBBER RING SOCKET / COUPLER		Rubber Ring		
Code	Size	D	DI	L
ALN3SRC11S	82mm	82	-	26
ALN4SRC11S	110mm	110	-	40
ALN6SRC11S	160mm	160	-	60
ALN8SRC11S	200mm	200	-	61



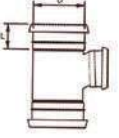
LEVEL INVERTER TAPER		Rubber Ring		
Code	Size	D	DI	L
AL75X50LI11S	75X50mm	50	75	43
AL3X2LI11S	82X56mm	56	82	43
AL4X2LI11S	110X56mm	56	110	43
ALN4X3LI12S	110X82mm	82	110	48
ALN6X4LI12S	160X110mm	110	160	58
ALN8X6LI11S	200X160mm	160	200	60



REDUCER Y Female / Female		Rubber Ring		
Code	Size	D	DI	L
ALN4X3RY12S	110X82mm	110	-	43
ALN6X4RY12S	160X110mm	160	-	60



REDUCER Y Male / Female		Rubber Ring		
Code	Size	D	DI	L
ALN4X3RY11S	110X82mm	110	-	43
ALN6X4RY11S	160X110mm	160	-	60



REDUCER TEE Female / Female		Rubber Ring		
Code	Size	D	DI	L
ALN3X2RT12S	82X56mm	82	-	43
ALN4X2RT12S	110X56mm	110	-	48
ALN4X3RT12S	110X82mm	110	-	48
ALN6X4RT12S	160X110mm	160	-	58

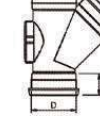
ABOVE GROUND UPVC SOIL & WASTE FITTINGS BS EN 1329-1 (SUPERCEDES BS 5255 & BS 4514)



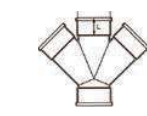
ACCESS PIPE Female / Female		Rubber Ring		
Code	Size	D	DI	L
ALN3AP12S	82mm	82	-	26
ALN4AP12S	110mm	110	-	40
ALN6AP12S	160mm	160	-	42



"Y" 45° Female / Female		Solvent		
Code	Size	D	DI	L
AL1.25Y14	36mm	36	-	18
AL1.5Y14	43mm	43	-	26
AL50Y14	50mm	50	-	33
AL2Y14	56mm	56	-	28.5
AL75Y14	75mm	75	-	44
AL3Y14	82mm	82	-	48.5
AL4Y14	110mm	110	-	51
AL6Y14	160mm	160	-	60
AL8Y14	200mm	200	-	61



"Y" 45° Female / Female Access Opening		Solvent		
Code	Size	D	DI	L
AL3YA14S	82mm	82	-	48.5
AL4YA14S	110mm	110	-	51



DOUBLE "Y" 45° Female / Female		Solvent		
Code	Size	D	DI	L
AL3DY14	82mm	82	-	48.5
AL4DY14	110mm	110	-	51

ABOVE GROUND UPVC SOIL & WASTE FITTINGS BS EN 1329-1 (SUPERCEDES BS 5255 & BS 4514)



TEE 87.5° Female / Female		Solvent			
Code	Size	D	DI	L	
AL1.25T14	36mm	36	-	18	
AL1.5T14	43mm	43	-	27	
AL50T14	50mm	50	-	33	
AL2T14	56mm	56	-	30.5	
AL2.5T14	75mm	75	-	44	
AL3T14	82mm	82	-	48.5	
AL4T14	110mm	110	-	51	
AL6T14	160mm	160	-	60	
AL8T14	200mm	200	-	61	



TEE 87.5° Female / Female Access Opening		Solvent			
Code	Size	D	DI	L	
AL2.5TA14S	75mm	75	-	44	
AL4 TA14S	110mm	110	-	51	
AL3TA14S	82mm	82	-	48.5	

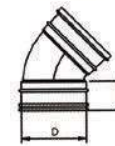
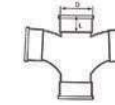


BEND 87.5° Female / Female		Solvent			
Code	Size	D	DI	L	
AL1.25B14	36mm	36	-	25	
AL1.5B14	43mm	43	-	27	
AL50B14	50mm	50	-	33	
AL2B14	56mm	56	-	30.5	
AL2.5B14	75mm	75	-	44	
AL3B14	82mm	82	-	48.5	
AL4B14	110mm	110	-	51	
AL6B14	160mm	160	-	60	
AL8B14	200mm	200	-	61	

ABOVE GROUND UPVC SOIL & WASTE FITTINGS BS EN 1329-1 (SUPERCEDES BS 5255 & BS 4514)



Double TEE 87.5° Female / Female		Solvent			
Code	Size	D	DI	L	
AL3DT14	82mm	82	-	48.5	
AL4DT14	110mm	110	-	51	



BEND 45° Female / Female		Solvent			
Code	Size	D	DI	L	
AL1.25B4514	36mm	36	-	18	
AL1.5B4514	43mm	43	-	26	
AL50B4514	50mm	50	-	33	
AL2B4514	56mm	56	-	30.5	
AL75B4514	75mm	75	-	44	
AL3B4514	82mm	82	-	48.5	
AL4B4514	110mm	110	-	51	
AL6B4514	160mm	160	-	60	
AL8B4514	200mm	200	-	61	



BEND 87.5° Female / Female Access Opening		Solvent			
Code	Size	D	DI	L	
AL75BA14S	75mm	75	-	44	
AL3BA14S	82mm	82	-	48.5	
AL4BA14S	110mm	110	-	51	



COUPLER / SOCKET		Solvent			
Code	Size	D	DI	L	
AL1.25C14	36mm	36	-	18	
AL1.5C14	43mm	43	-	27	
AL50C14	50mm	50	-	33	
AL2C14	56mm	56	-	30.5	
AL75C14	75mm	75	-	44	
AL3C14	82mm	82	-	48.5	
AL4C14	110mm	110	-	51	
AL6C14	160mm	160	-	60	
AL8C14	200mm	200	-	61	

ABOVE GROUND UPVC SOIL & WASTE FITTINGS BS EN 1329-1 (SUPERCEDES BS 5255 & BS 4514)



ACCESS PLUG & CAP		Solvent		
Code	Size	D	DI	L
AL1.25AGS	36mm	-	36.2	-
AL1.5AGS	43mm	-	43	-
AL50AGS	50mm	-	50	-
AL2AGS	56mm	-	56	-
AL2.5AGS	75mm	-	75	-
AL3AGS	82mm	-	82	-
AL4AGS	110mm	-	110	-
AL6AGS	160mm	-	160	-
AL8AGS	200mm	-	200	-



ACCESS PIPE Female / Female		Solvent		
Code	Size	D	DI	L
AL3AP14S	82mm	82	-	43
AL4AP14S	110mm	110	-	48
AL6AP14S	160mm	160	-	58



BOSS PIPE Female / Female		Solvent		
Code	Size	D	DI	L
AL4P14	110mm	110	-	51



VENT COWL		Solvent		
Code	Size	D	DI	L
AL50VC	50mm	50	-	-
AL2VC	56mm	56	-	-
AL2.5VC	75mm	75	-	-
AL3VC	82mm	82	-	-
AL4VC	110mm	110	-	-
AL6VC	160mm	160	-	-

ABOVE GROUND UPVC SOIL & WASTE FITTINGS BS EN 1329-1 (SUPERCEDES BS 5255 & BS 4514)



REDUCER BUSH		Solvent		
Code	Size	D	DI	L
AL1.5X1.25RB	43X36mm	43	36	26
AL2X1.5RB	56X43mm	56	43	27
AL75X50RB	75X50mm	75	50	43
AL3X2RB	82X56mm	82	56	43
AL4X2RB	110X56mm	110	56	48
AL4X3RB	110X82mm	110	82	48
AL6X4RB	160X110mm	160	110	58
AL8X6RD	200X160mm	200	160	60



REDUCER TEE Female / Female		Solvent		
Code	Size	D	DI	L
AL4X3RT14	110X82mm	110	-	48
AL6X4RT14	160X110mm	160	-	58



REDUCER "Y" Female / Female		Solvent		
Code	Size	D	DI	L
AL4X3RY14	110X82mm	110	-	43
AL6X4RY14	160X110mm	160	-	60

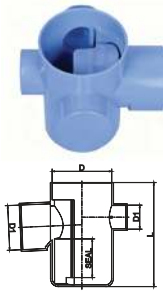


PATCH BOSS ADAPTOR		Solvent		
Code	Size	D	DI	L
AL4X2CO14S	110X56mm	110	56	48
AL6X2CO14S	160X56mm	160	56	58

ABOVE GROUND UPVC SOIL & WASTE FITTINGS BS EN 1329-1 (SUPERCEDES BS 5255 & BS 4514)



FEMALE / FEMALE THREAD BEND 90°		Solvent		
Code	Size	D	DI	L
AL1.5B9014	43X1 1/2" BSP	43	1 1/2" BSP	27



FLOOR TRAP		Solvent			
Code	Size	D	D1	L	Seal
AL4X3X2FT70KMS	110X82X56mm	110	82/56	182	70
AL4X3X1.50FT70KMS	110X82X43mm	110	82/43	182	70
AL110X82X56FT50S	110X82X56mm	110	82/56	135	50
AL110X82X43FT50S	110X82X43mm	110	82/43	135	50



FEMALE THREAD SOCKET		Solvent		
Code	Size	D	DI	L
AL1.5FSO14	43X1 1/2" BSP	43	1 1/2" BSP	27



END CAP		Solvent		
Code	Size	D	DI	L
AL1.25EC	36mm	36	-	18
AL1.5EC	43mm	43	-	25
AL50EC	50mm	50	-	33
AL2EC	56mm	56	-	27
AL75EC	75mm	75	-	44
AL3EC	82mm	82	-	43
AL4EC	110mm	110	-	48
AL6EC	160mm	160	-	58
AL8EC	200mm	200	-	60

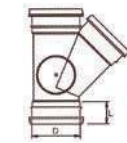


AC CONVERTER / ADAPTOR		Solvent		
Code	Size	D	DI	L
AL43x1RB	43mmX1" HP class E	43	33.5	21
AL56x1RB	56mmx1" HP class E	56	33.5	21

BELOW GROUND UPVC DRAINAGE FITTINGS BS EN 1401-1 (SUPERCEDES BS 4660 & BS 5481)



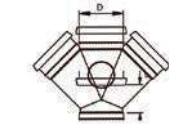
Y" 45° Female / Female		Rubber Ring		
Code	Size	D	DI	L
ARN50Y22S	50mm	50	-	20
ARN75Y22S	75mm	75	-	25
ARN3Y22S	82mm	82	-	25
ARN4Y22S	110mm	110	-	40
ARN6Y22S	160mm	160	-	60
ARN8Y22S	200mm	200	-	61



Y" 45° Male / Female		Rubber Ring		
Code	Size	D	DI	L
ARN3Y21S	82mm	82	82	25
ARN4Y21S	110mm	110	110	40
ARN6Y21S	160mm	160	160	60
ARN8Y21S	200mm	200	200	61



DOUBLE Y" 45° Female / Female		Rubber Ring		
Code	Size	D	DI	L
ARN3DY22S	82mm	82	-	26
ARN4DY22S	110mm	110	-	40



DOUBLE Y" 45° Male / Female		Rubber Ring		
Code	Size	D	DI	L
ARN3DY21S	82mm	82	82	26
ARN4DY21S	110mm	110	110	40



TEE 87.5° Female / Female		Rubber Ring		
Code	Size	D	DI	L
ARN50T22S	50mm	50	-	20
ARN75T22S	75mm	75	-	25
ARN3T22S	82mm	82	-	26
ARN4T22S	110mm	110	-	40
ARN6T22S	160mm	160	-	60
ARN8T22S	200mm	200	-	61



BELOW GROUND UPVC DRAINAGE FITTINGS BS EN 1401-1 (SUPERCEDES BS 4660 & BS 5481)



TEE 87.5° Male / Female		Rubber Ring		
Code	Size	D	DI	L
ARN3T21S	82mm	82	82	26
ARN4T21S	110mm	110	110	40
ARN6T21S	160mm	160	160	60
ARN8T21S	200mm	200	200	61



P-TRAP BASE		Solvent		
Code	Size	D	DI	L
AR4PT13	110mm	110	110	48



DOUBLE TEE 87.5° Female / Female		Rubber Ring		
Code	Size	D	DI	L
ARN3DT22S	82mm	82	-	40
ARN4DT22S	110mm	110	-	40



DOUBLE TEE 87.5° Male / Female		Rubber Ring		
Code	Size	D	DI	L
ARN3DT21S	82mm	82	82	25
ARN4DT21S	110mm	110	110	40



BEND 87.5° Female / Female		Rubber Ring		
Code	Size	D	DI	L
ARN50B22S	50mm	50	-	20
ARN75B22S	75mm	75	-	25
ARN3B22S	82mm	82	-	26
ARN4B22S	110mm	110	-	40
ARN6B22S	160mm	160	-	60
ARN8B22S	200mm	200	-	61

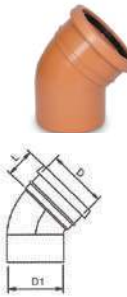
BELOW GROUND UPVC DRAINAGE FITTINGS BS EN 1401-1 (SUPERCEDES BS 4660 & BS 5481)



BEND 87.5° Male / Female		Rubber Ring		
Code	Size	D	DI	L
ARN3B21S	82mm	82	82	26
ARN4B21S	110mm	110	110	40
ARN6B21S	160mm	160	160	60
ARN8B21S	200mm	200	200	61



BEND 45° Female / Female		Rubber Ring		
Code	Size	D	DI	L
ARN50B4522S	50mm	50	-	20
ARN75B4522S	75mm	75	-	25
ARN3B4522S	82mm	82	-	26
ARN4B4522S	110mm	110	-	40
ARN6B4522S	160mm	160	-	60
ARN8B4522S	200mm	200	-	61



BEND 45° Male / Female		Rubber Ring		
Code	Size	D	DI	L
ARN3B4521S	82mm	82	82	26
ARN4B4521S	110mm	110	110	40
ARN6B4521S	160mm	160	160	60
ARN8B4521S	200mm	200	200	61



EXPANSION/DOUBLE RUBBER SOCKET/COUPLER		Rubber Ring		
Code	Size	D	DI	L
ARN50C22S	50mm	50	-	20
ARN75C22S	75mm	75	-	25
ARN3C22S	82mm	82	-	26
ARN4C22S	110mm	110	-	40
ARN6C22S	160mm	160	-	60
ARN8C22S	200mm	200	-	61

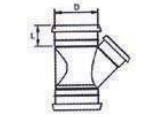
BELOW GROUND UPVC DRAINAGE FITTINGS BS EN 1401-1 (SUPERCEDES BS 4660 & BS 5481)



P-TRAP		Rubber Ring		
Code	Size	D	DI	L
ARN4PTR22S	110mm	110	110	40



REDUCER Y Female / Female		Rubber Ring		
Code	Size	D	DI	L
ARN4X3RY22S	110X82mm	110	-	40
ARN6X4RY22S	160X110mm	160	-	60



REDUCER Y Male / Female		Rubber Ring		
Code	Size	D	DI	L
ARN4X3RY21S	110X82mm	110	-	40
ARN6X4RY21S	160X110mm	160	-	60



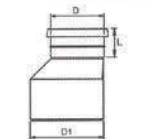
160 X110 DIA BOTTLE GULLY TRAP WITH OPTIONAL BAC K INLETS & CIRCULAR GRID			Rubber Ring		
Code	D	D1	D2	H	L
ARN6X4GTRS	110	50	160	268	51



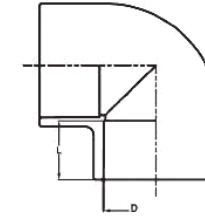
160 X110 DIA BOTTLE GULLY TRAP, ROUND BOTTOM & CIRCULAR GRID					
Code	D	D1	D2	H	L
AR6X4BGS	110	160	160	290	61.5



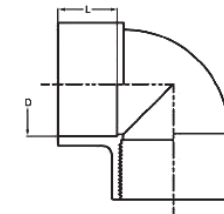
LEVEL INVERTER TAPER		Rubber Ring		
Code	Size	D	DI	L
AR3X2LI2IS	82X56mm	56	82	43
AR4X2LI22S	110X56mm	56	110	43
ARN4X32IS	110X82mm	82	110	48
ARN6X4LI2IS	160X110mm	110	160	58
ARN8X6LI2IS	200X160mm	160	200	60



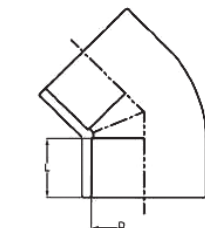
UPVC MILLIMETER SIZE PRESSURE FITTINGS (DIN 8063)



Elbow 90° Plain				
Code	Size	D	L	PN
E9020	20 mm	20.1	16.0	16
E9025	25 mm	25.1	19.0	16
E9032	32 mm	32.1	22.0	16
E9040	40 mm	40.1	26.0	16
E9050	50 mm	50.1	31.0	16
E9063	63 mm	63.1	38.0	16
E9075x2.5	75 mm	75.1	44.0	16
E9090	90 mm	90.1	51.0	16
E90110(N)	110 mm	110.1	61.0	16
E90160	160 mm	160.2	86.0	16
E90200	200 mm	200.2	106.0	10

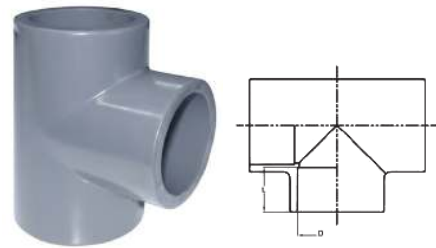


Female Elbow 90° One end plain/other end BSP female thread				
Code	Size	D	L	PN
FE20X0.5	20 x 1/2"	20.1	16.0	16
FE25X0.75	25 x 3/4"	25.1	19.0	16
FE32X1	32 x 1"	32.1	22.0	16
FE40X1.25	40 x 1 1/4"	40.1	26.0	16
FE50X1.5	50 x 1 1/2"	50.1	31.0	16
FE63X2	63 x 2"	63.1	38.0	16
FE75X2.5WOC	75 x 2 1/2*	75.1	44.0	16
FE90X3WOC	90 x 3"	90.1	51.0	16

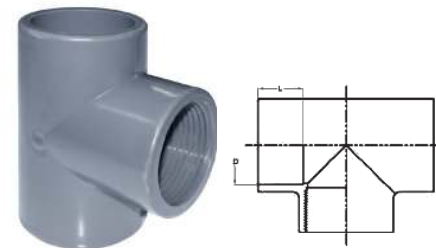


Elbow 45° Plain				
Code	Size	D	L	PN
E4520	20 mm	20.1	16.0	16
E4525	25 mm	25.1	19.0	16
E4532	32 mm	32.1	22.0	16
E4540	40 mm	40.1	26.0	16
E4550	50 mm	50.1	31.0	16
E4563	63 mm	63.1	38.0	16
E4575	75 mm	75.1	44.0	16
E4590	90 mm	90.1	51.0	16
E45110	110 mm	110.1	61.0	16
E45160	160 mm	160.2	86.0	16
E45200	200 mm	200.2	106.0	10

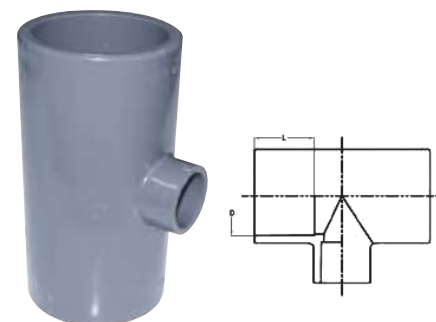
UPVC MILLIMETER SIZE PRESSURE FITTINGS (DIN 8063)



Tee 90° Plain				
Code	Size	D	L	PN
T20	20 mm	20.1	16.0	16
T25	25 mm	25.1	19.0	16
T32	32 mm	32.1	22.0	16
T40	40 mm	40.1	26.0	16
T50	50 mm	50.1	31.0	16
T63	63 mm	63.1	38.0	16
T75x2.5	75 mm	75.1	44.0	16
T90	90 mm	90.1	51.0	16
T110(N)	110 mm	110.1	61.0	16
T160	160 mm	160.2	86.0	16
T200	200 mm	200.2	106.0	10

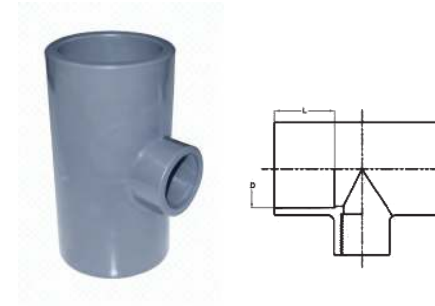


Female Tee : Tow end plain/Center end BSP female thread				
Code	Size	D	L	PN
FE20X0.5	20 x 1/2"	20.1	16.0	16
FE25X0.25	25 x 3/4"	25.1	19.0	16
FE32X1	32 x 1"	32.1	22.0	16
FE40X1.25	40 x 1 1/4"	40.1	26.0	16
FE50X1.5	50 x 1 1/2"	50.1	31.0	16
FE63X2	63 x 2"	63.1	38.0	16
FE75X2.5	75 x 2 1/2"	75.1	44.0	16
FE90X3	90 x 3"	90.1	51.0	16



Reducing Tee				
Code	Size	D	L	PN
RT25X20	25X20mm	25.1	19.0	16
RT32X20	32X20mm	32.1	22.0	16
RT32X25	32X25mm	32.1	22.0	16
RT50X20	50X20mm	50.1	31.0	16
RT50X25	50X25mm	50.1	31.0	16
RT50X32	50X32mm	50.1	31.0	16
RT63X20	63X20mm	63.1	38.0	16
RT63X25	63X25mm	63.1	38.0	16
RT63X32	63X32mm	63.1	38.0	16
RT63X50	63X50mm	63.1	38.0	16
RT90X63	90X63mm	90.1	51.0	16
RT110X90	110X90mm	110.1	61.0	16
RT160X90	160X90mm	160.2	86.0	16
RT160X110	160X110mm	160.2	86.0	16

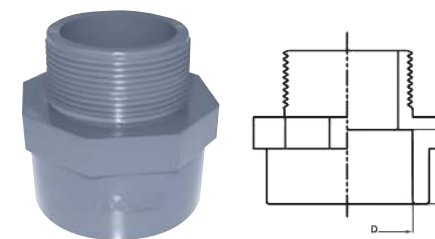
UPVC MILLIMETER SIZE PRESSURE FITTINGS (DIN 8063)



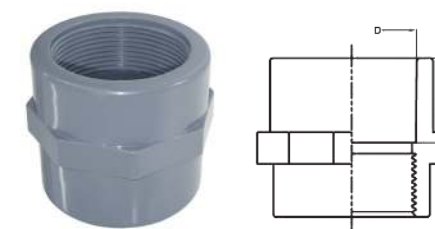
Reducing Female Tee: Two end plain/Center end BSP female thread				
Code	Size	D	L	PN
	20 x 1/2"	20.1	16.0	16
RFT25x0.5	25 x 1/2"	25.1	19.0	16
RFT32x0.5	32 x 1/2"	32.1	22.0	16
RFT32x0.75	32 x 3/4"	32.1	22.0	16
RFT50x0.5	50 x 1/2"	50.1	31.0	16
RFT50x0.75	50 x 3/4"	50.1	31.0	16
RFT63x0.5	63 x 1/2"	63.1	38.0	16
RFT63x0.75	63 x 3/4"	63.1	38.0	16
RFT90x0.75	90 x 3/4"	90.1	51.0	16



End Cap Plain				
Code	Size	D	L	PN
C20	20 mm	20.1	16.0	16
C25	25 mm	25.1	19.0	16
C32	32 mm	32.1	22.0	16
C40	40 mm	40.1	26.0	16
C50	50 mm	50.1	31.0	16
C63	63 mm	63.1	38.0	16
C75x2.5	75 mm	75.1	44.0	16
C90	90 mm	90.1	51.0	16
C110	110 mm	110.1	61.0	16
C160	160 mm	160.2	86.0	16
C200	200 mm	200.2	106.0	10

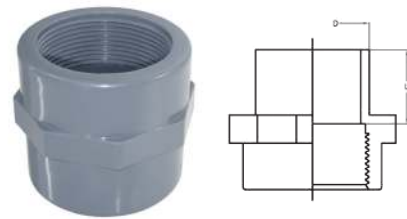


Male Thread Adaptor/Nipple Socket; BSP male thread/plain socket				
Code	Size	D	L	PN
MA20X0.5	20 x 1/2"	20.1	16.0	16
MA25X0.75	25 x 3/4"	25.1	19.0	16
MA32X1	32 x 1"	32.1	22.0	16
MA40X1.25	40 x 1 1/4"	40.1	26.0	16
MA50X1.5	50 x 1 1/2"	50.1	31.0	16
MA63X2	63 x 2"	63.1	38.0	16
MA75X2.5	75 x 2 1/2"	75.1	44.0	16
MA90X3	90 x 3"	90.1	51.0	16
MA110x4	110x4"	110.1	61.0	16



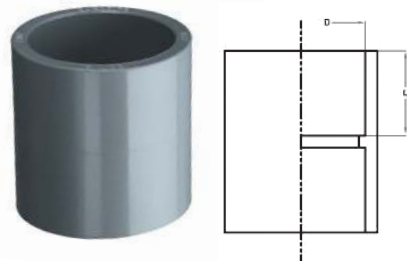
Female Socket Adaptor; BSP female thread/plain socket				
Code	Size	D	L	PN
FS20X0.5	20 x 1/2"	20.1	16.0	16
FS25X0.75	25 x 3/4"	25.1	19.0	16
FS32X1	32 x 1"	32.1	22.0	16
FS40X1.25	40 x 1 1/4"	40.1	26.0	16
FS50X1.5	50 x 1 1/2"	50.1	31.0	16
FS63X2	63 x 2"	63.1	38.0	16
FS75X2.5	75 x 2 1/2"	75.1	44.0	16
FS90X3	90 x 3"	90.1	51.0	16
FS110x4	110x4"	110.1	61.0	16

UPVC MILLIMETER SIZE PRESSURE FITTINGS (DIN 8063)



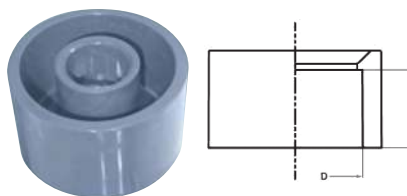
Female Slip Adaptor; BSP female thread/male plain socket

Code	Size	D	L	PN
FSL20X0.5	20 x 1/2"	20.1	16.0	16
FSL25X0.75	25 x 3/4"	25.1	19.0	16
FSL32X1	32 x 1"	32.1	22.0	16
FSL40X1.25	40 x 1 1/4"	40.1	26.0	16
FSL50X1.5	50 x 1 1/2"	50.1	31.0	16
FSL63X2	63 x 2"	63.1	38.0	16



Socket

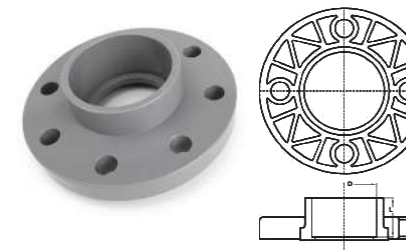
Code	Size	D	L	PN
S20	20mm	20.1	16.0	16
S25	25mm	25.1	19.0	16
S32	32mm	32.1	22.0	16
S40	40mm	40.1	26.0	16
S50	50mm	50.1	31.0	16
S63	63mm	63.1	38.0	16
S75x2.5	75mm	75.1	44.0	16
S90	90mm	90.1	51.0	16
S110	110mm	110.1	61.0	16
S160	160mm	160.2	86.0	16
S200	200mm	200.2	106.0	10



Reducer Bush

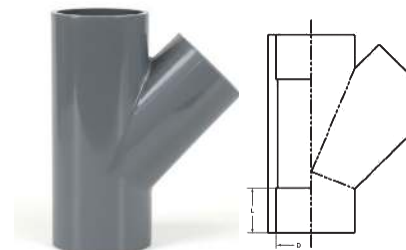
Code	Size	D	L	PN
RB25x20	25x20mm	25.1	19.0	16
RB32x20	32x20mm	32.1	22.0	16
RB32x25	32x25mm	32.1	22.0	16
RB40x20	40x20mm	40.1	26.0	16
RB40x25	40x25mm	40.1	26.0	16
RB40x32	40x32mm	40.1	26.0	16
RB50x20	50x20mm	50.1	31.0	16
RB50x25	50x25mm	50.1	31.0	16
RB50x32	50x32mm	50.1	31.0	16
RB63x20	63x20mm	63.1	38.0	16
RB63x25	63x25mm	63.1	38.0	16
RB63x32	63x32mm	63.1	38.0	16
RB63x50	63x50mm	63.1	38.0	16
RB75x50	75x50mm	75.1	44.0	16
RB75x63	75x63mm	75.1	44.0	16
RB90x50	90x50mm	90.1	51.0	16
RB90x63	90x63mm	90.1	51.0	16
RB90x75	90x75mm	90.1	51.0	16
RB90x75	110x90mm	110.1	61.0	16
RB110x63	110x63mm	110.1	61.0	16
RB160x90	160x90mm	160.2	86.0	16
RB160x110	160x110mm	160.2	86.0	16
RB200x160	200x160mm	200.2	106.0	10
RB225x160	225x160mm	225.3	119.0	16

UPVC MILLIMETER SIZE PRESSURE FITTINGS (DIN 8063)



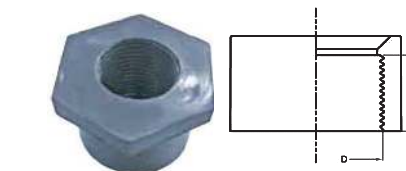
Flanges with stub

Code	Size	D	L	PN
FL63S	63mm	63.10	38.0	16
FL75.2.5S	75mm	75.10	44.0	16
FL90S	90mm	90.10	51.0	16
FL4.110S	110mm	110.10	61.0	16
FL160S	160mm	160.20	86.0	16
FL200S	200mm	200.2	106.0	10



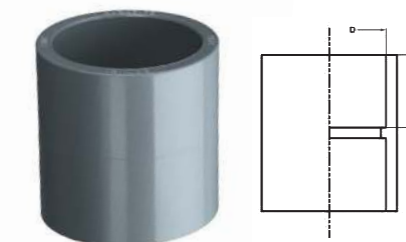
WYE 45°

Code	Size	D	L	PN
Y25	25mm	25.1	19.0	16
Y32	32mm	32.1	22.0	16
Y40	40mm	40.1	25.0	16
Y50	50mm	50.1	31.0	16
Y63	63mm	63.1	38.0	16



Female Reducer Bush ; BSP female thread

Code	Size	D	L	PN
FTRRB25x0.5	25 x 1/2"	25.1	19.0	16
FTRRB32x0.5	32 x 1/2"	32.1	22.0	16
FTRRB32x0.75	32 x 3/4"	32.1	25.0	16



Converter Socket

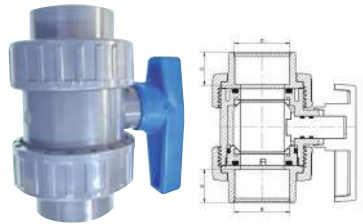
Code	Size	D	L	PN
S20x0.5	20 x 1/2"	20.1 / 21.3	16.0 / 16.5	16
S25x0.75	25 x 3/4"	25.1 / 26.7	19.0 / 19.5	16
S32x1	32 x 1"	32.1 / 33.5	22.0 / 22.5	16
S50x1.5	50 x 1 1/2"	50.1 / 48.2	31.0 / 30.0	16
S63x2	63 x 2"	63.1 / 60.3	38.0 / 36.0	16
S90x3	90 x 3"	90.1 / 88.8	51.0 / 50.5	16
S110x4	110 x 4"	110.1 / 114.2	61.0 / 63.0	16



Reducing Socket

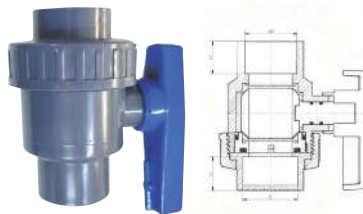
Code	Size	D1 / D	L1 / L	PN
RS200x160	200 x 160mm	200.2 / 160.2	106.0 / 86.0	10

UPVC MILLIMETER SIZE PRESSURE BALL VALVE / UNION



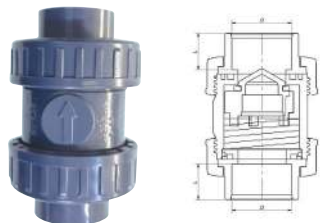
Double Union Ball Valve

Code	Size	D	L	PN
ABVDUP20S	20mm	21.1	16.0	16
ABVDUP25S	25mm	25.1	19.0	16
ABVDUP32S	32mm	32.1	22.0	16
ABVDUP40S	40mm	40.1	26.0	16
ABVDUP50S	50mm	50.1	31.0	16
ABVDUP63S	63mm	63.1	38.0	16



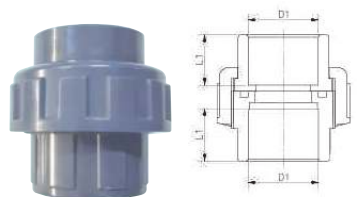
Single Union Ball Valve

Code	Size	D	L	PN
ABVSUP20S	20mm	21.1	16.0	16
ABVSUP25S	25mm	25.1	19.0	16
ABVSUP32S	32mm	32.1	22.0	16
ABVSUP40S	40mm	40.1	26.0	16
ABVSUP50S	50mm	50.1	31.0	16
ABVSUP63S	63mm	63.1	38.0	16



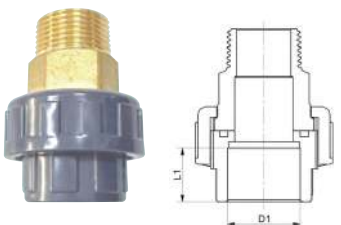
Spring Check Valve

Code	Size	D	L	PN
ACV20S	20mm	20.1	16.0	16
ACV25S	25mm	25.1	19.0	16
ACV32S	32mm	32.1	22.0	16
ACV40S	40mm	40.1	26.0	16
ACV50S	50mm	50.1	31.0	16
ACV63S	63mm	63.1	38.0	16



Upvc High Pressure Union

Code	Size	D	L	PN
APUNION32S	32mm	32.1	22.0	16
APUNION50S	50mm	50.1	31.0	16
APUNION63S	63mm	63.1	38.0	16



Upvc High Pressure Brass Union

Code	Size	D	L	PN
APBUNION32S	32mm	32.1	22.0	16
APBUNION50S	50mm	50.1	31.0	16
APBUNION63S	63mm	63.1	38.0	16



Flow Chart for uPVC PIPES NOMINAL DIAMETER ½" TO 12"

The accompanying flow chart has been calculated on the mean bore of UPVC pipes manufactured in different classes according to PN Rating BS EN ISO1452: 2: 2000 These standards are based on pipes made to inch diameters and the diagram has been prepared on the basis of imperial units; metric equivalents of velocity and a separate scale for rate of flow in litres per second are incorporated.

The smooth bore of UPVC pipes, which are not subject to modulation, together with long pipe lengths, enables them to be treated as hydraulically smooth where they are used for the conveyance of potable water supply. Sewage pumping mains are in certain circumstances, liable to acquire coatings of limes which may reduce their flow capacity.

To use the chart it is only necessary to visually locate the appropriate intersection points to ascertain the relationship between pipe dimension, flow and loss of head and if required, the mean velocity of flow.

The charts has been prepared using the
Colebrook = white Flow equation.

$$V = 2\sqrt{2gDi} \cdot \log_{10} \left(\frac{Ks}{3.7D} + \frac{2.51v}{D\sqrt{2gDi}} \right)$$

WHERE

- V = Velocity in metres per second
- g = gravitational acceleration (a value of 9.807 m/s has been assumed)
- i = Hydraulic gradient
- v = Kinetic Viscosity (a value of 1.141x10⁻⁶ m²/s (1.141x10% centistokes))
- Ks = linear measure of roughness in mm. = 0.003 mm
- D = mean internal diameter of pipe (manufactured to B.S.EN ISO 1452-2:2000)



K. VALUE

The frictional losses occasioned by flow through fittings are approximately proportional to the square of the liquid velocity.

The losses can be determined by the use of the following formula.

$$H = \frac{Kv^2}{2g}$$

WHERE

- H = loss of head
- V = liquid velocity
- g = acceleration due to gravity
- K = coefficient dependent on type of fitting

various Values for K are:-

90° Elbow	K = 1.00
45° Elbow	K = 0.4
22 1/2° Elbow	K = 0.2
90° Bend	K = 0.2
45° Bend	K = 0.1
22 1/2° Bend	K = 0.05
90° Tee flow in line	K = 0.35
90° Tee flow into or from branch	K = 1.20
Gate valve: Open	K = 0.12
1/4 closed	K = 1.0
1/2 closed	K = 6.0
3/4 closed	K = 24.0
Globe valve: open	K = 10.0
Butterfly valve: open	K = 0.3

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