



## BS PRESSURE PIPE & FITTING SERIES



*an Aliaxis company*



Anchor

UPVC

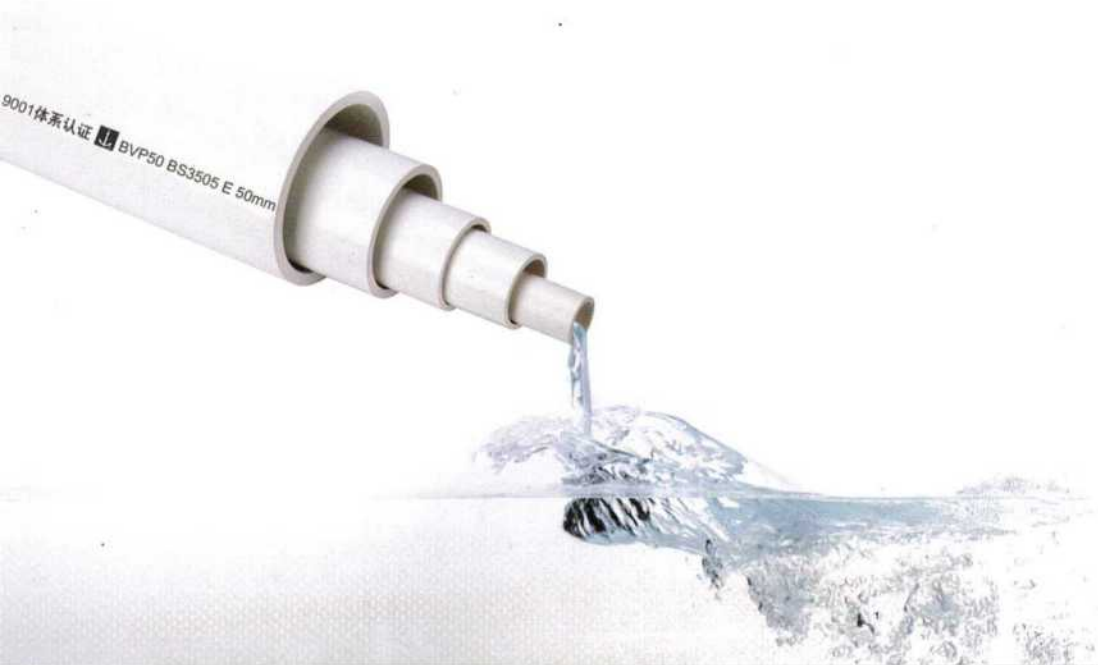
PRESSURE PIPE & FITTING SERIES

EXECUTIVE STANDARDS

BS 3505

BS 4346

BS 6920



The UNIVERSAL  
Hardware & Plastic Factory Limited(since 1961)

## Company profile

The Universal Hardware & Plastic Factory Ltd has been engaging in plastic pipe and fitting production business since 1961, is a member of world-rekowned plastic pipe manufacture corporation "Aliaxis". Our company's produce center is located in Dongfeng Town, Zhongshan City, Guandong Province.

Currently, Aliaxis headquarter is located in Brussels, Belgium, Europe. It is the world's largest plastic pipe / valve manufacturing and wholesales company, with more than 400 well-known brands and manufacturers over the world, and with an annual sales more than 40 billion RMB.

We have established a well-organized international management system. With excellent craftsmanship, we provide full and complete range of best quality products to different sectors like, residential and commercial buildings, industrial application, civil works, etc. We produce varieties of plastic pipes, fittings and valves making from different materials including CPVC, UPVC, PP-R, PP, EVA etc. Our products can be complied to different countries' standards, GB, BS, JIS, ASTM etc. which enable our products to switch in different market in the world.

Our company is always close to the trend of the times and the pulse of the market. At the same time, we continue to improve and enhance the technology of production and R&D level, so that we can always stand in the forefront of the market.

With a strong technical team, adhere to independent research and development, innovation strategy and proprietary technology, we were invited to be a core member of the National Plastic Products Standardization Technical Committee - Plastic pipe, Fittings and Valves Division, to participate in the relevant national standards formulation in China.

We have an advanced mould development center and have produced over thousand sets of high quality mould which cover whole range of supply and drainage pipe systems.

We have trained up a professional sales team and technicians. Our team members are willing to listen the needs of every client, provide professional advice and product knowledge to each customer, to help them to choose the right products and provide the highest level of after sales services.

Through our good company culture, well-organized wholesale distribution network and professional sales team, strong product development, The Universal Hardware & Plastic Factory Ltd establishes a global brand "ANCHOR".

ANCHOR is dedicated to serve the public.



**UPVC British Standards water supply pipe system:**

**Executive Standards:** BS 3505, BS 4346, BS 6920  
**Nominal Size:** DN1 / 2 " ~ 8" (DN15mm ~ DN 200mm)  
**Pressure Rating:** 1.5MPa ~ 2.1MPa

**UPVC British Standards water supply pipe characteristics:**

- 1.Anchor brand BS water supply pipe is using a selection of high quality UPVC resin raw materials for manufacture, providing an excellent, stable and enduring product.
- 2.An appropriate choice for conveying water or chemicals for the domestic, residential and industrial application.
- 3.Corrosion resistance.
- 4.Easily handled and installed, saving time and cost.

**Applications:**

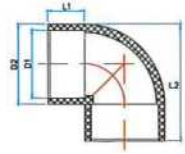
- 1.Construction water supply system.
- 2.Water or sewage treatment system.
- 3.City potable water supply system.
- 4.Industrial water supply system.



General Specifications				
Nominal size	Outside Diameter(mm)		Wall Thickness(mm)	
	O.D.(Min)	O.D.(Max)	Min	Max
15	21.2	21.5	1.7	2.1
20	26.6	26.9	1.9	2.4
25	33.4	33.7	2.2	2.7
32	42.1	42.4	2.7	3.2
40	48.1	48.4	3.1	3.7
50	60.2	60.5	3.9	4.5
65	75.1	75.5	4.8	5.5
80	88.7	89.1	5.7	6.6
100	114.1	114.5	7.3	8.4
150	168	168.5	10.8	12.5
200	218.8	219.4	12.6	14.5

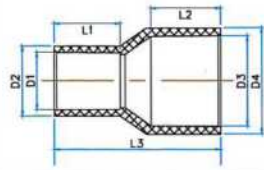
**BS PRESSURE PIPE & FITTING SERIES**

Physical Performance	Test Result	BS3505	BS6920
Vicat softening temperature /°C	84°C	-	-
Deflection temperature	78°C	75°C	-
Elongation at break	120%	-	-
Tensile strength(Mpa)	54	-	-
Heat reversion test 150°C	3%	< 5%	-
Flattening test	pass	-	-
Resistance to acetone	pass	No delamination or fragmentation	-
20°C Impact resistance test	pass	No fragmentation	-
0°C Impact resistance test	pass	-	-
20°C Circumferential stress, ≤7"	42Mpa	392 bar	-
20°C Circumferential stress, ≥7"	42Mpa	427 bar	-
60°C Circumferential stress	12.5Mpa	10Mpa	-
20°C 1 hour hydraulic test	54 bar	54 bar	-
20°C 1 minute hydraulic test	-	-	-
Water absorption	10.7g/kg	-	-
Extraction tests:			
Lead 1st extraction,	<0.002	≤1.0mg/L	
3rd extraction	<0.002	≤0.3mg/L	<0.005mg/L
Zinc	<0.05	-	-
Tin	<0.02	≤0.02mg/L	-
Cadmium	<0.0002	≤0.01mg/L	<0.005mg/L
Mercury	<0.0001	≤0.001mg/L	<0.001mg/L
Antimony	<0.001	-	<0.01mg/L
Arsenic	<0.002	-	<0.05mg/L
Chromium	<0.005	-	<0.05mg/L
Manganese	<0.005	-	<0.05mg/L
Nickel	<0.002	-	<0.05mg/L
Selenium	<0.001	-	<0.01mg/L
Silver	<0.001	-	<0.01mg/L
VCM residue	<0.08mg/kg	≤1.0mg/kg	≤1.0mg/L
Recommend conveying temperature	20 °C	30 °C	
1/2" to 4" diameter pipe	21 bar	16.8bar	
6" to 8" diameter pipe	15bar	14.4bar	



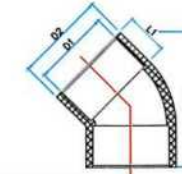
**Elbow 90°**

Nom. Size	Product Code	D1	D2	L1	L2
1/2"	B152	21.50	26.70	16.50	43.60
1/2" ( Reinforced Thickness )	B152H	21.50	29.10	20.80	50.60
3/4"	B153	26.90	32.10	19.50	51.30
3/4" ( Reinforced Thickness )	B153H	26.90	34.70	26.20	59.30
1"	B154	33.70	38.90	22.50	61.56
1" ( Reinforced Thickness )	B154H	33.70	42.70	29.20	69.80
1-1/4"	B155	42.50	49.10	27.00	76.00
1-1/2"	B156	48.50	55.90	30.00	83.80
2"	B157	60.70	69.90	36.00	103.80
2-1/2"	B158	75.60	87.00	43.50	154.40
3"	B159	89.30	102.70	50.50	148.30
4"	B160	114.80	132.00	63.00	215.60
6"	B161	168.80	189.00	90.00	328.00



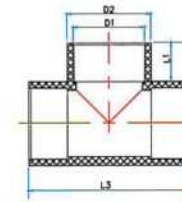
**Reducer**

Nom. Size	Product Code	D1	D2	D3	D4	L1	L2	L3
3/4"x1/2"	B352	21.50	26.70	26.90	32.10	16.50	19.50	54.20
1"x1/2"	B353	21.50	26.70	33.70	38.90	16.50	22.50	60.50
1"x3/4"	B354	26.90	32.10	33.70	38.90	19.50	22.50	62.66
1-1/4"x1/2"	B355	21.50	26.70	42.50	49.10	16.50	27.00	69.80
1-1/4"x3/4"	B356	26.90	32.10	42.50	49.10	19.50	27.00	71.30
1-1/4"x1"	B357	33.70	38.90	42.50	49.10	22.50	27.00	70.50
1-1/2"x1/2"	B358	21.50	26.70	48.50	55.90	16.50	30.00	75.76
1-1/2"x3/4"	B359	26.90	32.10	48.50	55.90	19.50	30.00	77.24
1-1/2"x1"	B360	33.70	38.90	48.50	55.90	22.50	30.00	76.60
1-1/2"x1-1/4"	B361	42.50	49.10	48.50	55.90	27.00	30.00	76.96
2"x1/2"	B362	21.50	26.70	60.70	69.90	16.50	36.00	89.20
2"x3/4"	B363	26.90	32.10	60.70	69.90	19.50	36.00	91.20
2"x1"	B364	33.70	38.90	60.70	69.90	22.50	36.00	91.36
2"x1-1/4"	B365	42.50	49.10	60.70	69.90	27.00	36.00	90.10
2"x1-1/2"	B366	48.50	55.90	60.70	69.90	30.00	36.00	91.30
2-1/2"x2"	B367	60.70	69.90	75.60	87.00	36.00	43.50	159.40
3"x2"	B369	60.70	69.90	89.30	102.70	36.00	50.50	164.90
3"x2-1/2"	B370	75.60	87.00	89.30	102.70	43.50	50.50	164.30
4"x2"	B371	60.70	69.90	114.80	132.00	36.00	63.00	192.10
4"x3"	B373	89.30	102.70	114.80	132.00	50.50	63.00	189.50
6"x4"	B374	114.80	132.00	168.80	189.00	63.00	90.00	294.20



**Elbow 45°**

Nom. Size	Product Code	D1	D2	L1	L2
1/2"	B185	21.50	26.70	16.50	51.60
1/2" ( Reinforced Thickness )	B185H	21.50	28.90	22.50	60.20
3/4"	B186	26.90	32.10	19.50	62.36
3/4" ( Reinforced Thickness )	B186H	26.90	34.90	26.20	71.90
1"	B187	33.70	38.90	22.50	73.90
1" ( Reinforced Thickness )	B187H	33.70	43.30	29.20	82.50
1-1/4"	B188	42.50	49.10	27.00	90.60
1-1/2"	B189	48.50	55.90	30.00	104.50
2"	B190	60.70	69.90	36.00	131.00
2-1/2"	B191	75.60	87.00	43.50	148.50
3"	B192	89.30	102.70	50.50	216.80
4"	B193	114.80	132.00	63.00	259.40



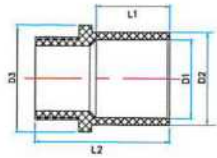
**Equal Tee**

Nom. Size	Product Code	D1	D2	L1	L2	L3
1/2"	B202	21.50	26.70	16.50	42.10	57.20
1/2" ( Reinforced Thickness )	B202H	21.50	29.10	22.60	49.90	70.40
3/4"	B203	26.90	32.10	19.50	50.50	68.30
3/4" ( Reinforced Thickness )	B203H	26.90	34.90	23.80	58.60	82.40
1"	B204	33.70	38.90	22.50	60.48	81.00
1" ( Reinforced Thickness )	B204H	33.70	43.10	26.20	69.40	95.50
1-1/4"	B205	42.50	49.10	27.00	74.60	99.80
1-1/2"	B206	48.50	55.90	30.00	84.50	112.00
2"	B207	60.70	69.90	36.00	103.90	137.10
2-1/2"	B208	75.60	87.00	43.50	152.30	216.20
3"	B209	89.30	102.70	50.50	167.00	228.00
4"	B210	114.80	132.00	63.00	217.40	303.50
6"	B211	168.80	189.00	90.00	326.70	462.80



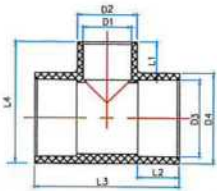
# The UNIVERSAL

Hardware & Plastic Factory Limited (since 1961)



**BSPT Male Coupling**

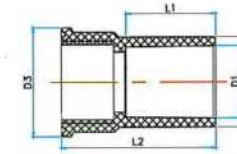
Nom. Size	Product Code	D1	D2	D3	L1	L2
1/2"	B552	21.50	26.70	29.76	16.50	42.70
3/4"	B553	26.90	32.10	35.24	19.50	49.60
1"	B554	33.70	38.90	43.20	22.50	56.20
1-1/4"	B555	42.50	49.10	52.60	27.00	58.20
1-1/2"	B556	48.50	55.90	59.50	30.00	61.60
2"	B557	60.70	69.90	71.60	36.00	69.10
2-1/2"	B558	75.60	87.00	86.45	43.50	116.90
3"	B559	89.30	102.70	101.70	50.50	127.30
4"	B560	114.80	132.00	128.10	63.00	153.90
6"	B561	168.80	189.00	191.20	90.00	221.00



**Reducing Tee**

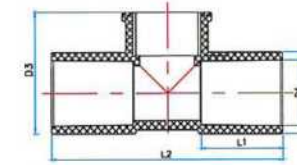
Nom. Size	Product Code	D1	D2	D3	D4	L1	L2	L3	L4
3/4"x1/2"	B252	21.50	26.70	26.90	32.10	16.50	19.50	62.10	47.50
1"x1/2"	B253	21.50	26.70	33.70	38.90	16.50	22.50	68.18	54.50
1"x1/2" (Reinforced Thickness)	B253H	21.50	29.20	33.70	43.10	23.20	23.20	89.70	65.10
1"x3/4"	B254	26.90	32.10	42.50	38.90	19.50	22.50	74.00	57.00
1"x3/4" (Reinforced Thickness)	B254H	26.90	34.90	48.50	57.70	19.90	23.20	89.80	68.60
1-1/4"x1/2"	B255	21.50	26.70	48.50	49.10	16.50	27.00	77.60	63.50
1-1/4"x3/4"	B256	26.90	32.10	48.50	49.10	19.50	27.00	83.10	67.30
1-1/4"x1"	B257	33.70	38.90	42.50	49.10	22.50	27.00	89.50	70.30
1-1/2"x1/2"	B258	21.50	26.70	48.50	55.90	16.50	30.00	84.20	70.90
1-1/2"x3/4"	B259	26.90	32.10	48.50	55.90	19.50	30.00	89.20	73.80
1-1/2"x1"	B260	33.70	39.90	48.50	55.90	22.50	30.00	96.00	76.80
1-1/2"x1-1/4"	B261	42.50	49.10	48.50	55.90	27.00	30.00	105.50	81.80
2"x1/2"	B262	21.50	26.70	60.70	69.90	16.50	36.00	95.50	83.60
2"x3/4"	B263	26.90	32.10	60.70	69.90	19.50	36.00	102.50	86.90
2"x1"	B264	33.70	38.90	60.70	69.90	22.50	36.00	108.16	89.70
2"x1-1/4"	B265	42.50	49.10	60.70	69.90	27.00	36.00	117.60	94.80
2"x1-1/2"	B266	48.50	55.90	60.70	69.90	30.00	36.00	123.20	97.60
2-1/2"x2"	B267	60.70	69.90	75.60	87.00	36.00	43.50	203.96	147.60
3"x1-1/2"	B268	48.50	55.90	89.30	102.70	30.00	50.50	199.20	154.80
3"x2"	B269	60.70	69.90	89.30	102.70	36.00	50.50	211.90	164.00
4"x2"	B271	60.70	69.90	114.80	132.00	36.00	63.00	255.30	195.00
4"x3"	B273	89.30	102.70	114.80	132.00	50.50	63.00	279.20	197.80

# BS PRESSURE PIPE & FITTING SERIES



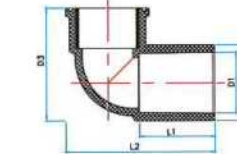
**Faucet Socket  
(With Brass Thread)**

Nom. Size	Product Code	D1	D2	D3	L1	L2
1/2"	B502	21.50	26.70	32.90	16.50	42.70
3/4"	B502CU	21.50	26.70	32.90	16.50	42.70
1"	B503	26.90	32.10	39.50	19.50	48.50
1/2"	B503CU	26.90	32.10	39.50	19.50	48.50
1/2"	B504	33.70	38.90	43.30	22.50	52.24
3/4"	B504CU	33.70	38.90	43.30	22.50	52.24
1-1/4"	B505	42.50	49.10	54.30	27.00	58.80
1-1/2"	B506	48.50	55.90	61.80	30.00	63.60
2"	B507	60.70	69.90	71.60	36.00	75.06



**Faucet Tee 90°  
(With Brass Thread)**

Nom. Size	Product Code	D1	D2	L1	L2	L3
1/2"	B452CU	21.50	26.70	49.40	16.50	79.00
3/4"	B453CU	26.90	32.10	54.50	19.50	103.60
1"	B454CU	33.70	38.90	64.80	22.50	120.60
3/4"x1/2"	B454ACU	26.90	32.10	53.40	19.50	73.70
1"x1/2"	B454BCU	33.70	38.90	57.70	22.50	103.90
1"x3/4"	B455CU	33.70	38.90	58.40	22.50	111.36
1/2"	B452	21.50	29.72	49.92	21.58	67.66
3/4"	B453	26.90	35.38	57.68	26.42	83.90
1"	B454	33.70	42.28	69.48	28.42	95.74
1"x3/4"	B455	33.70	42.84	64.38	28.66	88.98



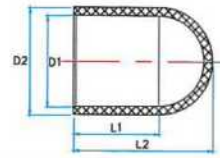
**Faucet Elbow 90°  
(With Brass Thread)**

Nom. Size	Product Code	D1	D2	L1	L2	L3
1/2"	B402CU	21.50	26.70	47.90	16.50	58.10
3/4"	B403CU	26.90	32.10	54.60	19.50	67.80
1"	B404CU	33.70	38.90	61.70	22.50	83.90
1/2"	B402	21.50	29.08	49.24	16.64	48.60
3/4"	B403	26.90	34.94	59.32	21.14	58.88
1"	B404	33.70	42.44	69.20	22.94	69.22
1-1/4"	B405	42.50	51.48	81.86	32.44	81.60
1-1/2"	B406	48.50	58.66	92.9	33.52	91.72
2"	B407	60.50	71.66	111.0	41.36	110.24



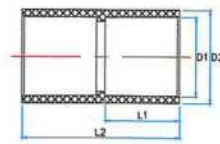
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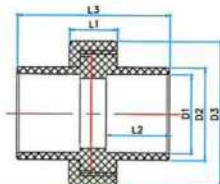
Cap

Nom. Size	Product Code	D1	D2	L1	L2
1/2"	B102	21.50	26.70	16.50	27.90
3/4"	B103	26.90	32.10	19.50	32.40
1"	B104	33.70	38.90	22.50	38.20
1-1/4"	B105	42.50	49.10	27.00	43.80
1-1/2"	B106	48.50	55.90	30.00	43.10
2"	B107	60.70	69.90	36.00	59.80
2-1/2"	B108	75.60	87.00	43.50	96.50
3"	B109	89.30	102.70	50.50	102.60
4"	B110	114.80	132.70	63.00	138.20
6"	B111	168.80	189.00	90.00	216.90



Coupling

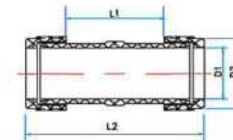
Nom. Size	Product Code	D1	D2	L1	L2
1/2"	B302	21.50	26.70	16.50	44.10
3/4"	B303	26.90	32.10	19.50	53.80
1"	B304	33.70	38.90	22.50	62.10
1-1/4"	B305	42.50	49.10	27.00	70.10
1-1/2"	B306	48.50	55.90	30.00	76.10
2"	B307	60.70	69.90	36.00	77.30
2-1/2"	B308	75.60	87.00	43.50	93.00
3"	B309	89.30	102.70	50.50	152.50
4"	B310	114.80	132.70	63.00	130.80
6"	B311	168.80	189.00	90.00	289.70



Union

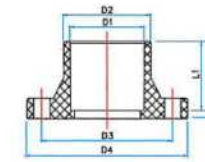
Nom. Size	Product Code	D1	D2	D3	L1	L2	L3
1/2"	B902	21.50	31.16	49.54	22.78	21.30	55.82
3/4"	B903	26.90	36.72	58.74	25.78	20.48	60.68
1"	B904	33.70	44.70	68.00	28.80	26.26	71.90
1-1/4"	B905	42.50	53.66	83.00	31.70	28.38	86.78
1-1/2"	B906	48.50	64.64	92.70	34.70	30.72	99.28
2"	B907	60.70	77.30	113.28	38.28	35.98	88.78

# BS PRESSURE PIPE & FITTING SERIES



Flexible Joint

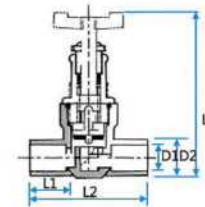
Nom. Size	Product Code	D1	D2	L1	L2
1/2"	B912	22.80	46.70	59.00	121.00
3/4"	B913	27.80	53.10	63.00	124.50
1"	B914	34.60	60.50	65.00	136.30
1-1/4"	B915	43.20	70.62	72.14	150.08
1-1/2"	B916	49.00	79.40	81.00	160.80
2"	B917	61.50	92.70	88.00	179.60



One Piece Flange

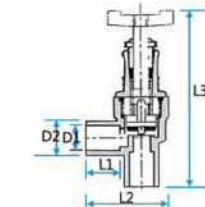
Nom. Size	Product Code	D1	D2	D3	D4	L1	L2
2"	737B	60.70	69.90	120.00	155.50	64.00	70.40
2-1/2"	B738	75.60	87.00	145.00	175.50	64.40	78.80
3"	739B	89.30	102.70	150.00	184.20	69.10	79.20
4"	740B	114.80	132.00	175.00	209.90	87.20	88.10
6"	741B	168.80	190.40	240.00	282.80	129.50	144.40

c/c distance of hole | hole nos.



Stop Valve

Nom. Size	Product Code	D1	D2	L1	L2	L3
1/2"	B602A	21.50	29.90	31.30	100.20	136.30
3/4"	B603	26.90	36.30	38.00	120.70	137.90



Gate Valve

Nom. Size	Product Code	D1	D2	L1	L2	L3
1/2"	B604	21.50	30.30	32.00	73.80	159.70