



مجموعة الهلال الصناعية
Al-Hilal Industrial Group



WE BUILD TRUST

CATALOGUE

AL HILAL PLASTIC INDUSTRY

UPVC PIPES AND FITTINGS

CONTENT

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- **UPVC Pressure Fittings**
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UPVC PIPE PHYSICAL ,MECHANICAL ,THERMAL ,CHEMICAL AND ELECTRICAL PROPERTIES

PRODUCT QUALITY: COMPLAINT TO INTERNATIONAL STANDARDS ASTM, BS-EN, BS, ISO SPECIFICATION.

GENERAL	UNITS	VALUES	METHOD OF EVALUATION
Call Classification		12454	ASTM D 1784
Maximum Service Temp	°F	140	
	°C	60	
Colour		White,Shade of Gray,Golden Brown	
Specific Gravity	g/cu.cm	1.40+0.03	ASTM D 792
Water Absorption	mg/cm	< 2.0	ISO 2508/81,DIN 8061
Hardness	Shore D	81	ASTM.D 2240-75
	Rock Well	110-120	ASTM D 785
Poisson's Ratio	73 °F	0.41	
Hazen - Williams Factor		C = 150	
MECHANICAL			
Tensile Strength	psi @ 73 °F	7450	ASTM D 638
20° C at Break	Kp/cm ²	480-550	ISOR 257
Elongation at Break	%	> 125	ISOR 527
Tensile Modulus of Elasticity	psi @ 73 °F	420,000	ASTM D 638
	Kp/cm ²	3X10	DIN 53457
Flexural Strength	psi @ 73 °F	14,450	ASTM D 790
	Kp/cm ²	950	ASTM D 790
Flexural Modulus	psi @ 73 °F	360,000	ASTM D 790
Compressive Strength	psi @ 73 °F	9,600	ASTM D 695
	Kp/cm ² °F	668	BS 4607 Part2.7
Izod Impact,Notched	ft-lb/in @ 73	0.75	ASTM D 256
	Joule	4.75 - 5.42	DIN 53453
Impact Strength (Free Falling)		No Break	SAS 14
			1396 & BS 3506
THERMAL			
Co-efficient of Linear Expansion	in/in/°F	2.9 x 10 ⁵	ASTM D 696
	(cal)(cm)cm ² sec°c	3.5 x 10 ⁻⁴	ASTM D 177
Co-efficient of Thermal Con-ductivity	BTU/in/hr/ft.2°F	1.02	
	Watt/m/°K	0.147	

HEAT DEFLECTION

Temperature under Load	264 psi,annealed	170	ASTM D648
Heat Deflection	Cal / °C /gm	0.25	ASTM D 2766
Resistance to Heat	Impression Diameter	< 2	BS 4607 Part2.7

ELECTRICAL

Dielectric Strength	Volts/mil	1.413	ASTM D 149
	V/mil	1400	BS 4607 P-2
Dielectric Constant	60HZ,30	3.70	ASTM D 150
Volume Resistivity	ohm/cm @ 95 oC	1.2X10 ¹²	ASTM D 257

HARVEL PVC PIPE IS NON-ELECTROLYTIC

Insulation Resistance	M.Ω	1.1X10 ⁶	BS 4607 Part.2
Surface Resistance	Ω	10123	DIN 53842
Power factor	At 10 Hz	3	

TOXICITY & CHEMICAL

Toxicity	mg/L	Pb<0.03 Sn<0.02 Ba Zn Cd < 0.01	SAS 141396/4
Resistance to Sulphuric	g/45cm ²	(-0.013) (+0.316)	BS 3506
Resistance to Methylene Chlo-ride	%	<3	ISO 2508/81

FIRE PERFORMANCE

Flammability Rating		V - 0	UL - 94
Flame Spread Index		< 10	
Flame Spread		0 - 25	ULC
Smoke Generation		80 - 225	ULC
Flash Ignition Temp		730 oF	
Average Time of Burning		Sec <5	ASTM D 635
Average Extent of Burning		mm < 10	
Burning Rate		in/min Self Extinguishing	
Softening Starts		Approx 250°F (VSP 5kgf) 82°C	BS 2782
Deformation Temperature		76 to 82 °C	
Material becomes Viscous		350 °F	
Material Carbonizes		425 °F	
Limiting Oxygen Index (LOI)		43	ASTM D 2863
Clear Room Materials Flamma-bility Test		N/A	FM 4910



UPVC PIPES

UPVC PIPE AL HILAL PLASTIC, MADE IN OMAN



UPVC WASTE PIPE (TO BS: 5255/1976)

NOMINAL SIZE		OD	WALL THICKNESS
IN	DIN	MM	MM
1 1/4	32	36.3	2.0
1 1/2	40	42.9	2.1
2	50	55.6	2.2

- Standard length of 4 meter.
- One end solvent cement.
- Colour: white, light gray.

UPVC SOIL & VENTILATING PIPE (BS: 4514 / 1983)

NOMINAL SIZE		OD	WALL THICKNESS
IN	DIN	MM	MM
3	82.6	82.4	3.2
4	110	110.0	3.2
6	160	160.3	3.2

- Standard length of 4 meter.
- Plain or with rubber ring.
- Colour: light gray.

UPVC DRAINAGE PIPE (BS: 4660/1973)

NOMINAL SIZE		OD	WALL THICKNESS
IN	DIN	MM	MM
3	90	82.65	3.2
4	110	110.20	3.2
6	160	160.30	4.1
8	200	200.6	4.9
10	250	250.5	6.2
12	315	351.6	6.2/SN2
16	400	400.7	7.9/SN2
20	500	500.9	9.8/SN2

- Standard length of 4 meter.
- Rubber ring joint.
- Colour: red, light gray.
- Plain or with rubber ring.

UPVC CONDUITS BS 6099 : 1982

SIZE	MINIMUM ID			
	MM	LIGHT	MEDIUM	HEAVY
16	13.7	13.0	12.2	
20	17.4	16.9	15.8	
25	22.1	21.4	20.6	
32	28.6	27.8	26.6	
38	37.7	-	-	
40	35.8	35.4	34.4	
50	45.1	44.3	43.2	
63	57.0	-	-	

BSEN 1452 : 2000 PLASTIC PIPING SYSTEM (PVC - U)* - IMPERIAL SIZES SPECIFICATIONS

NOMINAL SIZE (INCH)	OUTER DIAMETER (MM)		WALL THICKNESS					
			PN 9 (CLASS C)		PN 12 (CLASS D)		PN 15 (CLASS E)	
	MIN	MAX	MIN (MM)	MAX (MM)	MIN (MM)	MAX (MM)	MIN (MM)	MAX (MM)
1/2	21.2	21.5	-	-	-	-	1.7	2.1
3/4	26.6	26.9	-	-	-	-	1.9	2.5
1	33.4	33.7	-	-	-	-	2.2	2.8
1 1/4	42.1	42.4	-	-	2.2	2.7	2.7	3.3
1 1/2	48.1	48.4	-	-	2.5	3.0	3.1	3.7
2	60.0	60.5	2.5	3.0	3.1	3.7	3.9	4.5
3	88.7	89.1	3.5	4.1	4.6	5.3	5.7	6.6
4	114.1	114.5	4.5	5.2	6.0	6.9	7.3	8.4
6	168.0	168.5	6.6	7.6	8.8	10.2	10.8	12.5
8	218.8	219.4	7.8	9.0	10.3	11.9	12.6	14.5
10	272.6	273.4	9.7	11.2	12.8	14.8	15.7	18.1

BSEN 1401 - SDR 51, 41, 34. PVC - U PIPES FOR UNDERGROUND DRAINAGE SPECIFICATIONS

MEAN OUTSIDE DIEMETER		SN 2 SDR 51		SN 4 SDR 41		SN 8 SDR 34	
MIN	MAX	e_{min}	$e_{m, max}$	e_{min}	$e_{m, max}$	e_{min}	$e_{m, max}$
110	110.3	-	-	3.2	3.8	3.2	3.8
125	125.3	-	-	3.2	3.8	3.7	4.3
160	160.4	3.2	3.8	4.0	4.6	4.7	5.4
200	200.5	3.9	4.5	4.9	5.6	5.9	6.7
250	250.5	4.9	5.6	6.2	7.1	7.3	8.3
315	315.6	6.2	7.1	7.7	8.7	9.2	10.4

UPVC PIPES ACCORDING TO ASTM D 1785, SCHEDULES 40 & 80 SPECIFICATIONS

NORMAL SIZE	OUTER DIAMETER		SCHEDULE 40 (WHITE COLOUR)				SCHEDULE 80 (DARK GRAY COLOUR)			
			WALL THICKNESS		WEIGHT	PSI	WALL THICKNESS		WEIGHT	PSI
	MIN	MAX	MIN	MAX			MIN	MAX		
IN	MM	MM	MM	MM	KG/M		MM	MM	KG/M	
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	4.24	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	4.06	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
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	10.1	250

- Pipe length: Standar 4 & 6 mtrs.
- Schedule 40: White.
- Schedule 80: Dark Grey.

PRESSURE PIPES DIN 8061/8062 SPECIFICATIONS

OD	CLASS2 (4 BAR)		CLASS3 (6 BAR)		CLASS4 (10 BAR)		CLASS5 (16 BAR)	
MM	NOM WALL THICKNESS (MM)	NOM WEIGHT (KG/M)	NOM WALL THICKNESS (MM)	NOM WALL THICKNESS (MM)	NOM WEIGHT (KG/M)	NOM WALL THICKNESS (MM)	NOM WALL THICKNESS (MM)	NOM WEIGHT (KG/M)
20	-	-	-	-	-	-	1.5	0.137
25	-	-	-	-	1.5	0.174	1.9	0.212
32	-	-	-	-	1.8	0.264	2.4	0.342
40	-	-	1.8	0.334	1.9	0.350	3.0	0.525
50	-	-	1.8	0.422	2.4	0.550	3.7	0.809
63	-	-	1.9	0.562	3.0	0.854	4.7	1.290
75	1.8	0.642	2.2	0.782	3.6	1.22	5.6	1.820
90	1.8	0.774	2.7	1.13	4.3	1.75	6.7	2.61
110	2.2	1.16	3.2	1.64	5.3	2.61	8.2	3.90
160	3.2	2.41	4.7	3.44	7.7	5.47	11.9	8.17
200	4.0	3.70	5.9	5.37	9.6	8.51	14.9	12.8

- 20mm - 50mm: Solvent cement socket only
- 63mm - 400mm: Solvent cement socket or Rubber ring joint
- Length: Standard 6m & 5.8m for export packing
- Colour: Dark Grey, White

UPVC DUCT PIPE ACCORDANCE TO BS 3506 : 1986 SPECIFICATIONS

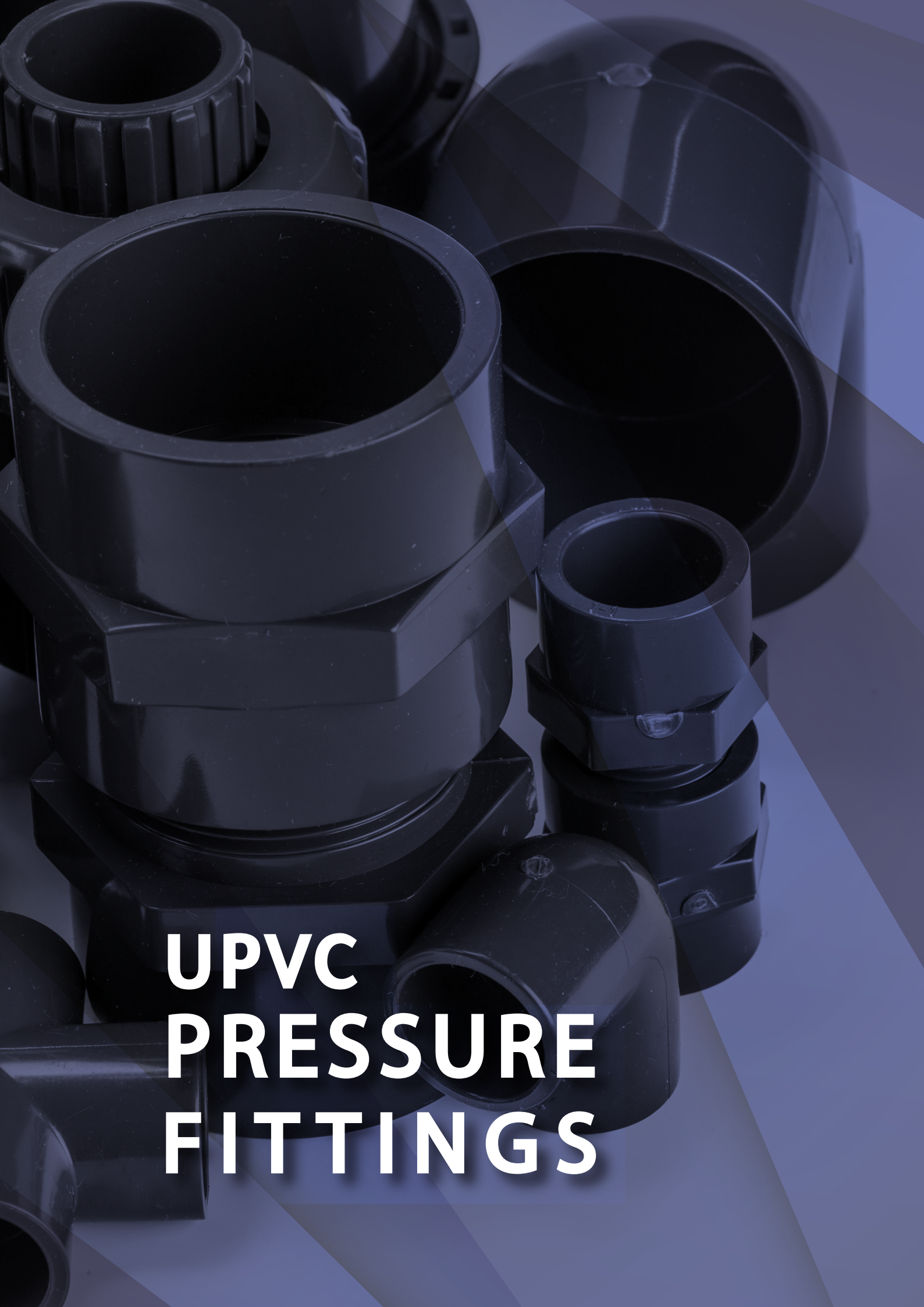
	MEAN OUTSIDE DIAMETER		WALL THICKNESS														
			CLASS O			CLASS B			CLASS C			CLASS D			CLASS E		
	MIN	MAX	AVERAGE VALUE	INDIVI-DUAL VALUE		AVERAGE VALUE	INDIVI-DUAL VALUE		AVERAGE VALUE	INDIVI-DUAL VALUE		AVERAGE VALUE	INDIVI-DUAL VALUE		AVERAGE VALUE	INDIVI-DUAL VALUE	
			MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN	MAX	MAX	MIN	MAX
1/2	21.2	21.5	-	-	-	-	-	-	-	-	-	-	-	-	2.1	1.7	2.1
3/4	26.6	26.9	-	-	-	-	-	-	-	-	-	-	-	-	2.5	1.9	2.5
1	33.4	33.7	-	-	-	-	-	-	-	-	-	-	-	-	2.7	2.2	2.7
1 1/4	42.1	42.4	-	-	-	-	-	-	-	-	-	2.7	2.2	2.7	3.2	2.7	3.2
1 1/2	48.1	48.4	2.2	1.8	2.2	-	-	-	-	-	-	3.0	2.5	3.0	3.7	3.1	3.7
2	60.2	60.5	2.2	1.8	2.2	-	-	-	3.0	2.5	3.0	3.7	3.1	3.7	4.5	3.9	4.5
2 1/2	75.0	75.3	2.2	1.8	2.2	-	-	-	3.5	3.0	3.5	4.5	3.9	4.5	5.5	4.8	5.5
3	88.7	89.1	2.2	1.8	2.2	3.4	2.9	3.4	4.1	3.5	4.1	5.3	4.6	5.3	6.5	5.7	6.6
4	114.1	114.5	2.8	2.3	2.8	4.0	3.4	4.0	5.2	4.5	5.2	6.8	6.0	6.9	8.3	7.3	8.4
6	168.0	168.5	3.7	3.1	3.7	5.2	4.5	5.2	7.5	6.6	7.6	9.9	8.8	10.2	12.1	10.8	12.5
8	218.7	219.4	3.7	3.1	3.7	6.1	5.3	6.1	8.8	7.8	9.0	11.6	10.3	11.9	14.1	12.6	14.5
10	272.0	273.0	3.7	3.1	3.7	7.5	6.6	7.6	10.9	9.7	11.2	14.3	12.8	14.8	17.5	15.7	18.1

UPVC PIPES (BSEN. 1452-2! 2009) SPECIFICATIONS

NORMAL SIZE	OD		WALL THICKNESS								
			CLASS B (6 BAR)		CLASS C (9 BAR)		CLASS D (12 BAR)		CLASS E (15 BAR)		
	IN	MIN (MM)	MAX (MM)	MIN (MM)	MAX (MM)	MIN (MM)	MAX (MM)	MIN (MM)	MAX (MM)	MIN (MM)	MAX (MM)
1/2	21.2	21.5	-	-	-	-	-	-	-	1.7	2.1
3/4	26.6	26.9	-	-	-	-	-	-	-	1.9	2.5
1	33.3	33.8	-	-	-	-	-	-	-	2.2	2.7
1.1/4	42.0	42.5	-	-	-	-	-	2.2	2.7	2.7	3.2
1.1/2	48.0	48.5	-	-	-	-	-	2.5	3.0	3.1	3.7
2	60.0	60.5	-	-	2.5	3.0	3.1	3.7	3.9	4.9	
3	88.7	89.1	2.9	3.4	3.5	4.1	4.6	5.3	5.7	6.6	
4	114.1	114.5	3.4	4.0	4.5	5.2	6.0	6.9	7.3	8.4	
6	168.0	168.5	4.5	5.2	6.5	7.6	8.8	10.2	10.8	12.5	
8	218.7	219.4	5.3	6.1	7.5	9.0	10.3	11.9	12.6	14.5	
10	272.0	273.0	6.6	7.6	9.7	11.2	12.8	14.8	15.7	18.1	

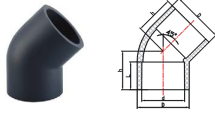
● Pipe length: 4 & 6 mtrs.

● Colour: Dark Grey, White.



**UPVC
PRESSURE
FITTINGS**

45° ELBOW



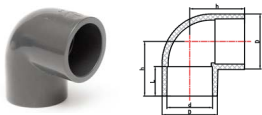
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1/2"	28.5	21.34	17	23.14
3/4"	34.5	26.67	20	27.18
1"	41.7	33.4	23	32
1 1/4"	51.4	42.16	27.5	38.28
1 1/2"	59.8	48.26	30.5	43
2"	74	60.33	36.5	52
3"	105.7	88.9	51	73
4"	134.5	114.3	63.5	92.5
6"	196.7	168.3	91	132

FEMALE ELBOW



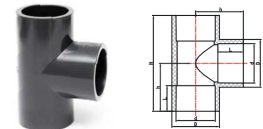
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1/2"	28.5	21.34	17	28.25	1/2"
3/4"	34.5	26.67	20	34.25	3/4"
1"	41.7	33.4	23	39.35	1"
1 1/4"	51.4	42.16	27.5	48.8	1 1/4"
1 1/2"	59.8	48.26	30.5	54.1	1 1/2"
2"	74.5	60.33	36.5	67.75	2"

90° ELBOW



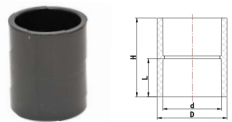
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1/2"	28.5	21.34	17	30
3/4"	34.5	26.67	20	35.5
1"	41.7	33.4	23	42
1 1/4"	51.4	42.16	27.5	51
1 1/2"	59.8	48.26	30.5	58.5
2"	74	60.33	36.5	71
3"	105.7	88.9	51	102
4"	134.5	114.3	63.5	127.5
6"	196.7	168.3	91	183.5

TEE



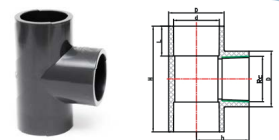
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1/2"	28.5	21.34	17	59	29.5
3/4"	34.5	26.67	20	71	35.5
1"	41.7	33.4	23	84	42
1 1/4"	51.4	42.16	27.5	103	51.5
1 1/2"	59.8	48.26	30.5	117	58.5
2"	74	60.33	36.5	143	71.5
3"	105.7	88.9	51	202.7	101.35
4"	134.5	114.3	63.5	255	127.5
6"	196.7	168.3	91	367	183.5

COUPLING



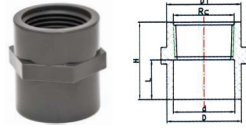
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1/2"	28.5	21.34	17	36
3/4"	34.5	26.67	20	42
1"	41.7	33.4	23	48
1 1/4"	51.4	42.16	27.5	57
1 1/2"	59.8	48.26	30.5	64
2"	74	60.33	36.5	77
3"	105.7	88.9	51	109
4"	134.5	114.3	63.5	132
6"	196.7	168.3	91	188

FEMALE TEE



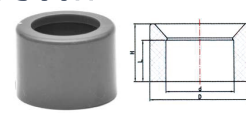
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1/2"	28.5	21.34	17	56.5	28.25	1/2"
3/4"	34.5	26.67	20	68.5	34.25	3/4"
1"	41.7	33.4	23	80	39.35	1"
1 1/4"	51.4	42.16	27.5	97.6	48.8	1 1/4"
1 1/2"	59.8	48.26	30.5	109	54.1	1 1/2"
2"	74.5	60.33	36.5	135.5	67.75	2"

FEMALE ADAPTOR



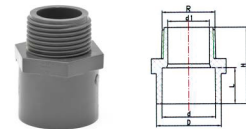
Size	D	D1	d	L	H	Rc
1/2"	28.5	28.5	21.34	17	35.5	1/2"
3/4"	34.5	34.5	26.67	20	41	3/4"
1"	41.7	41.7	33.4	23	45.5	1"
1 1/4"	51.4	51.4	42.16	27.5	53.7	1 1/4"
1 1/2"	59.8	59.4	48.26	30.5	62	1 1/2"
2"	74	76	60.33	36.5	76	2"
3"	103.5	105	88.9	51	100	3"
4"	134.5	136	114.3	63.5	120	4"
6"	196.7	196.7	168.3	91	149	6"

REDUCING BUSH



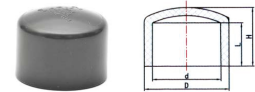
Size	D	d	L	H
3/4" X 1/2"	26.67	21.34	17	20
1" X 1/2"	33.4	21.34	17	23
1" X 3/4"	33.4	26.67	20	23
1 1/4" X 1/2"	42.16	21.34	17	27.5
1 1/4" X 3/4"	42.16	26.67	20	27.5
1 1/4" X 1"	42.16	33.4	23	27.5
1 1/2" X 1/2"	48.26	21.34	17	30.5
1 1/2" X 3/4"	48.26	26.67	20	30.5
1 1/2" X 1"	48.26	33.4	23	30.5
1 1/2" X 1 1/4"	48.26	42.16	27.5	30.5
2" X 1/2"	60.33	21.34	17	36.5
2" X 3/4"	60.33	26.67	20	36.5
2" X 1"	60.33	33.4	23.8	36.5
2" X 1 1/4"	60.33	42.16	28.2	36.5
2" X 1 1/2"	60.33	48.26	30.5	36.5
3" X 1 1/2"	88.9	48.26	30.5	51
3" X 2"	88.9	60.33	36.5	51
4" X 2"	114.3	60.33	36.5	63.5
4" X 3"	114.3	88.9	51	63.5
6" X 4"	168.3	114.3	63.5	91

MALE ADAPTOR



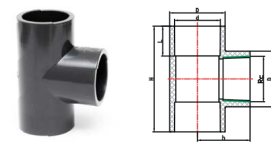
Size	D	d	d1	L	h	RC
1/2"	28.5	21.34	12.2	17	41.5	1/2"
3/4"	34.5	26.67	16	20	46.5	3/4"
1"	41.7	33.4	23	23	55	1"
1 1/4"	51.4	42.16	33	27.5	58.5	1 1/4"
1 1/2"	59.8	48.26	37	30.5	63	1 1/2"
2"	74	60.33	47	36.5	75	2"
3"	103.5	88.9	72	51	99	3"
4"	134.5	114.3	94	63.5	122	4"
6"	196.7	168.3	136.6	91	157.5	6"

END PLUG



Size	D	d	L	h
1/2"	28.5	21.34	17	22.58
3/4"	34.5	26.67	20	26.51
1"	41.7	33.4	23	30.56
1 1/4"	51.4	42.16	27.5	36.55
1 1/2"	59.8	48.26	30.5	41.32
2"	74	60.33	36.5	49.65
3"	105.7	88.9	51	68.64
4"	134.5	114.3	63.5	85.65
6"	196.7	168.3	91	124.04

UNION

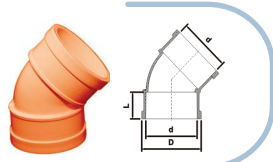


Size	NPT Thd./in	BSPT Thd./in	JIS d1	BS d1	ANSI d1	DIN d1	d2	D2	D1	I	L
1/2"	14	14	22	22	21.34	20	14	29.20	50.6	20.5	48
3/4"	14	14	26	26	26.67	25	19	34.5	56.7	22	53.6
1"	11.5	11	32	34	33.4	32	24	42.6	66.5	28	63
1 1/4"	11.5	11	38	42	42.16	40	32	52	81	30	72.6
1 1/2"	11.5	11	48	48	48.26	50	40	59	86.8	34.5	85
2"	11.5	11	60	60	60.33	63	45	72.1	105.8	40	103
2 1/2"	8	11	76	76	73.03	75	60	90	129	40	109
3"	8	11	89	89	88.9	90	80	103.5	145.5	48	125.5
4"	8	11	114	114	114.3	110	100	132.5	175	60	160



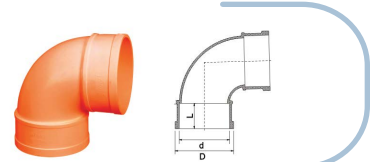
**UPVC
DRAINAGE
FITTINGS**

45 ELBOW



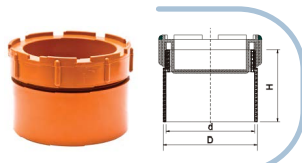
Size	D	d	L
1 1/2"	52	42.9	23
2"	62	55.9	29
3"	91.2	82.6	40
4"	120.6	110	48
6"	173.6	160	58
8"	216	200	70
10"	266.8	250	75

90 ELBOW



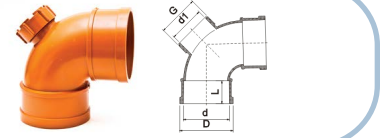
Size	D	d	L
2"	62	55.9	29
3"	91.2	82.6	40
4"	120.6	110	48
6"	173.6	160	58
8"	216	200	70

CLEAN OUT



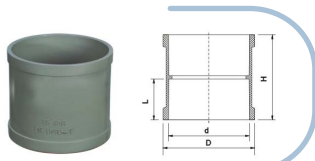
Size	D	d
1 1/2"	42.9	48.5
2"	55.9	61
3"	82.6	82
4"	110	99
6"	160	125

90 ELBOW (WITH INSPECTION PORT)



Size	D	d	L	G	D1
2"	62	55.9	29	M45 X 2	38.8
3"	91.2	82.6	40	M45 X 2	38.2
4"	120.6	110	48	M72 X 2	62.8
6"	173.6	160	58	M72 X 2	61.2

COUPLING



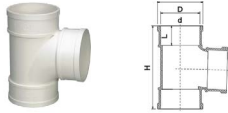
Size	D	d	L	H
1 1/2"	52	42.9	23	48.5
2"	62	55.9	29	61
3"	91.2	82.6	40	82
4"	120.6	110	48	99
6"	173.6	160	58	125
8"	216	200	70	144.5

INSPECTION PORT



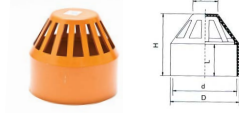
Size	D	d	L	G	d1	H
2"	62	55.9	29	M45 X 2	38.8	111
3"	91.2	82.6	40	M72 X 2	63.5	168.8
4"	120.6	110	48	M105 X 3	96.5	230
6"	173.6	160	58	M105 X 3	94.3	275
8"	216	200	70	M145 X 4	134	335

DOWNSTREAM TEE



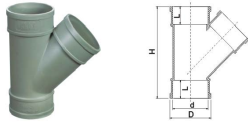
SIZE	D	D	L	H
1 1/2"	52	42.9	23	100.5
2"	62	55.9	29	133
3"	91.2	82.6	40	170
4"	120.6	110	48	219
6"	173.6	160	58	296
8"	216	200	70	355

VENT CAP



Size	D	d	L	H	d1
2"	62	55.9	29	49	19.8
3"	91.2	82.6	40	82	39.8
4"	120.6	110	48	99.9	61.1
6"	173.6	160	58	143	82.3

SKEW TEE



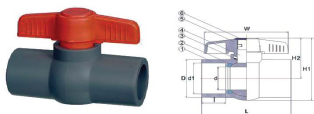
Size	D	d	L	H
1 1/2"	52	42.9	23	121.1
2"	62	55.9	29	152.1
3"	91.2	82.6	40	195
4"	120.6	110	48	259
6"	173.6	160	58	257

REDUCING BUSHES



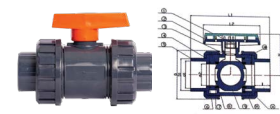
Size	D	d	L	D1	D2	L1	H
2" X 1 1/2"	55.9	42.9	29	62	50.4	22.5	31
3" X 2"	82.6	55.9	40	91.2	76.9	29	42
4" X 2"	110	55.9	48	119.4	104	29	50
4" X 3"	110	82.6	48	119.4	82.6	40	50
6" X 4"	160	110	58	171.6	152	48	60
8" X 6"	200	160	70	213	190.9	58	73

COMPACT BALL VALVE

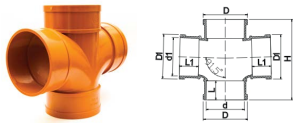


SIZE	NPT Thd./in	BSPT Thd./in	JIS d1	BS d1	ANSI d1	DIN d1	d	D	L	I	w	H1	H2
15mm (1/2")	14	14	22	22	21.34	20	14.5	32	80	22	68.5	64.3	44.9
20mm (3/4")	14	14	26	26	26.67	25	20	36.8	92	25	80.5	76	52
25mm (1")	11.5	11	32	34	33.4	32	24	45	106	28.0	100	94	65
32mm (1 1/4")	11.5	11	38	42	42.16	40	30	53.5	112.5	28.0	108	103	70
40mm (1 1/2")	11.5	11	48	48	48.26	50	34	62	129	33.0	108	112	73.5
50mm (2")	11.5	11	60	60	60.33	63	44	75.5	148	39.5	138	126	81
65mm (2 1/2")	8	11	76	76	73	75	56	92.5	177.5	39.5	192.5	166	108.5
80mm (3")	8	11	89	89	88.9	90	71	107	209	48	192.5	181	116
100mm (4")	8	11	114	114	114.3	110	86	134.5	294	78	262	236	151.5
6"	-	-	-	-	168.8	160	130.4	185.4	407	102.7	301.9	299.5	181.2

COMPACT BALL VALVE

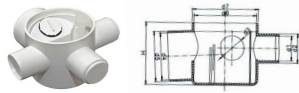


PLANE CROSS



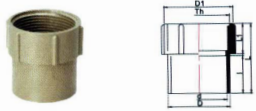
SIZE	D	d	L	H	D1	d1	L1
4"	120.6	110	48	219	120.6	110	48
6"	137.6	160	58	296	173.6	160	58

GULLY TRAP LOWER TYPE



SIZE	d1	d2	d3	d4	d5	d6	d7	H
4x3x1 1/2"	43.2	51.5	43.2	219	88.4	110.5	117	109.8

FEMALE SOCKET



SIZE	D	d	D1	Th	l	L1	L
1 1/2"	48	43.3	53.3	PR1 1/2"	29	32.5	54

FLOOR DRAIN COVER



SIZE	d1	D1	D2	D3	H1	H2
15 X 15 (mm)	101.96	110	99.5	147	29.4	31.8

FLOOR DRAIN / BS



SIZE	D1	d1	D2	d2	D3	d3	D4	d4	L1	L2	L3	L4
4x3"	116.8	110	89	82.6	60.6	55.9	51.5	42.9	150.2	69.44	74.61	83.12

P-TRAP




SIZE	D1	d1	D2	d2	H1	H2	H3	H4	H5	L1	L2	L3	L4
4"	117	110.5	110	104	212	85.5	82	94.7	128.5	262.2	126.5	140.4	130.1

LONG BEND



SIZE	D1	d1	D2	d1	H1	H2	H3	H4	H5	L1	L2	L3	L4
4"	117	110.5	110	104	212	85.5	82	94.7	128.5	262.2	126.5	140.4	130.1



**ELECTRICAL
FITTINGS
& CONDUITS**



Y WAY JUNCTION BOX

Model (mm)

19 20 25 32 40



TWO WAY STRAIGHT JUNCTION BOX

Model (mm)

19 20 25



ONE WAY JUNCTION BOX

Model (mm)

19 20 25



THREE WAY JUNCTION BOX

Model (mm)

19 20 25



FOUR WAY JUNCTION BOX

Model (mm)

19 20 25



TWO WAY ANGLE JUNCTION BOX

Model (mm)

19 20 25



U WAY JUNCTION BOX

Model (mm)

19 20 25



H WAY JUNCTION BOX

Model (mm)

19 20 25



CIRCULAR JUNCTION COVER

Model (mm)
65



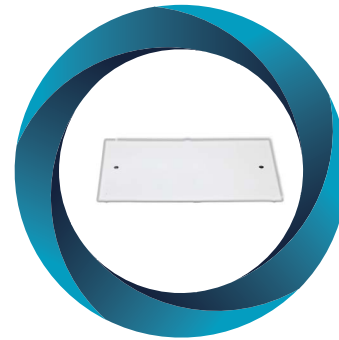
LOOP IN BOX (BACK ENTRY)

Model (mm)
19 20 25



3X3 & 6X6 SURFACE MOUNTING BOX

Model (mm)
87X87 87X147



3X3 & 6X6 SURFACE MOUNTING BOX LID

Model (mm)
85X85 85X146



FEMALE THREAD ADAPTOR

Model (mm)
19 20 25 32 38 50



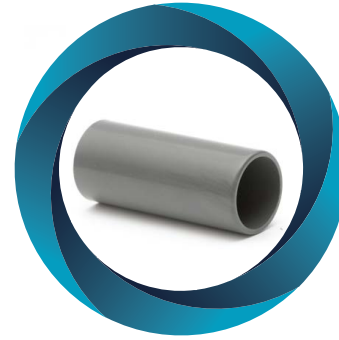
SPACER BAR SADDLES

Model (mm)
19 20 25 32 38 50



4X4, 6X6 & 9X9 ADAPTABLE BOX & LID

Model (mm)
150 150 75



COUPLING

Model (mm)
19 20 25 32 38 50

WHO WE ARE

We manufacture superior quality UPVC pipes that are produced from high-grading raw materials.

Our range of Pipes and Fittings are perfectly finished and durable and widely used for a host of applications in various industries and purposes such as irrigation, residential water supply, bore water supply, and cable ducting.

Our corrossions resistant pipes are known to possess high pressure bearing capability with:

- **Easy installation features.**
- **Simple to handle and transport.**
- **Light weighted.**

Having excellent tensile and material strength can be availed from us in different lengths, and pressure class ranging as per the international standards and Oman standards.

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Sultanate of Oman



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