SD-QTR

SD-Qatar High Pressure Pipes & Fittings

Product Catalogue

BUREAU VERITAS
Certification

Qatar Plastic Additives & Industrial Group (QADDCO)

Gate 150, Street 48, Industrial Area,
P. O. Box:- 40290, Doha

STATE OF QATAR

This is a multi-site certificate, additional site details are listed in the appendix to this certificate

Bureau Veritas Certification Holding SAS – UK Branch certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

Standards

ISO 9001:2008

Scope of certification

Production, Supply & Trading of Plastic Additives, Master batches and Preblends.

Production and Supply of Plastic Pipes and fittings. Trading of Plastic Pipe Fittings and related accessories.

Production and Supply of Soft and Rigid PVC compound.

Certification cycle start date: **11th January 2016**

Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: **14th September 2018**

Original certification date: **11th January 2016**

Version 1, Revision date: 11th Jan. 2016

Certificate No. IND 16.6030 U/Q

UKAS MANAGEMENT SYSTEMS
008

VISHAL BHAT
Certification Manager – BVC Qatar
(Signed on behalf of BVCH SAS UK Branch)

Certification body address: ***Bureau Veritas Certification Holding SAS – UK Branch,***
66 Prescot Street, London E1 8HG, United Kingdom.

Local office: G1-G3, Ground Floor, KG Building (Bldg. No. 194, Street No. 230), C Ring Road, Opposite Gulf Times (Doha) Qatar

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.
To check this certificate validity please call: **+974 40329729**

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COMPANY PROFILE

A Well-Known Company

QATAR PIPELINE & Fittings CO. has a good reputation based on many years of experience in the industry. The company came into being in 1999 as a limited liability company; we were established on the basics of being special & unique in the state of Qatar, we have since developed into a market leader in Qatar as manufacturers of PLASTIC PIPES & FITTING.

Our Aims

To provide the best Engineered Products & Solutions to residential our customers.

On time delivery and quick reply to customers inquiries.

To offer our customers a wealth of information, technical support & customer service that meet and many times exceed customer requirements.

The Quality

If you want first class results, you need high quality, mature products. In our many years of cooperation with manufacturing & construction trades, we have had the time to collect a wide range of experiences, for these reasons, we always provide quality that you can rely on.

As well, we are ISO 9001:2008 certified company, means we are able to put our customers in a position to process the materials that we provide with no difficulties at all.

QPL have the most advanced laboratory to test the pipes & fittings according to the highest standards.

QPL Is the onlycompany in Qatar thatproduces pipes and fittings eith Kit Mark License To BS 1401 and BS 1329 .

QPL also authorized, tested & certified by most of the relevant governmental authorities & the services to use our products at their projects.

Employees

The experienced employees of it perform their job with care so that your business interests are achieved.

QPF sales team consists of many qualified and capable sales engineers to understand technical requirements, problems faced by the site engineers and provide them solutions at site.

The team is capable to obtain additional technical support from our over-seas partners and we are confident of ourselves to extend an efficient and good quality service to our valued customers.

Delivery

Delivery is one of our strong attributes, dedicated team is able to deliver our products to your sites in a fast, prompt and professional manner. Wherever you are, whether day or night our team is ready to cover your needs.

Vision

From all the mentioned facts above, we see that we have a very promising future & prosperous outcome that lay ahead.

We believe that with best planning & implementation of proper policies that will enhance the use of all the company's resources, the company is becoming to be one of the best companies in Qatar.

We only seek to be the best & we thing that we deserve to be the best.

QATAR PIPELINE
& Fittings Co.

MAJOR PRODUCTS

A. Pipe Systems

1. UPVC (Polyvinyl Chloride) Pipes w& Fittings:

- High Pressure Pipes & fittings : are manufactured in our factory in Qatar with highest spec,s according to BS3505 &4346, for water supply, irrigation & industrial water & gas pressure systems Branded SD QATAR.
- Non Pressure Pipes: we produce Upvc Pipes and fittings with Brand SD QATAR with Kite Mark License from BSI
- PVC Telecom, Electrical Ducts and Conduits: are manufactured with accordance to the international standards & with accordance to KAHRAMAA & Q-TEL standards.

2. PPRC (Polypropylene Random Co-Polymer) Pipes & Fittings:

This type of pipes is manufactured in cooperation & with license from Prandelli-Italy for the hot and cold potable water systems also for the Gas & all types of liquids.

3. PE (Polyethylene) Pipes:

- HDPE (High Density Polyethylene) Pipes.
- MDPE (Medium Density Polyethylene) Pipes.
- LDPE (Low Density Polyethylene) Pipes.

4. PVC Fabricated Fittings:

In addition to the pipes, QPF also fabricate the necessary long bends, collars & perforated pipes which are essential to the above systems.

High pressure BS 3505 Pipes

Introduction

We are Qatar Pipelin Co. recognized as one of the chief high pressure Pipes Manufacturers. We manufacture these HP Pipes using high quality raw materials. Our HP Pipes undergo stringent testing methods by our quality experts to ensure their quality. Due to their durability and strength, these pipes are appreciated in the domestic and international markets.

What are the advantages of High pressure

Pipes & Fittings

There are hosts of technical & economic advantages in using HDPE pipes & Ducts as compared to other conventional pipes

CORROSION RESISTANCE:

PVC pipes are non-conductors of electricity and immune to electrochemical reactions caused by acids, bases, and salts that cause corrosion in metals. This characteristic exists on both the inside and outside of PVC pipe. Consequently, PVC pipe is frequently cost effective in applications where soil is aggressive. PVC pipe can be expected to outlast alternative pipes without the need for protective coatings or liners.

CHEMICAL RESISTANCE:

PVC pipes exhibit resistance to a wide range of chemical reagents in temperatures up to 140°F and are resistant to chemicals normally found or used in homes. Some industrial applications will warrant an evaluation of chemical resistance. The chemical resistance quality of PVC is further evidenced by its frequent usage as a protective liner for other pipe materials.

STRENGTH TO WEIGHT RATIO, LIGHT WEIGHT:

PVC pipes offer a tremendous weight advantage that is a particularly important safety aspect. The material's ability to be handled more easily minimizes worker injury and facilitates lower cost installation and transportation. A person can easily carry two 20-foot lengths of 4-inch PVC pipe, but could carry less than 5 feet of 4-inch iron pipe with the same effort.

FLEXIBILITY:

PVC pipe's resistance to fracture is an extremely important performance advantage. While PVC pipes are made from rigid (unplasticized) PVC compound, the pipe itself has the ability to yield under loading without fracturing. The modulus of elasticity of PVC is a major advantage for buried applications, particularly where soil movement or vibration is anticipated. In pressure applications, PVC's modulus of elasticity also reduces the magnitude of pressure surges (i.e., water hammer).

LONG-TERM TENSILE STRENGTH:

PVC pipe compounds are formulated to attain long-term tensile strength. The long-term hydrostatic design basis (HDB) for PVC is two or more times greater than that for other common thermoplastic pipe materials.

WATERTIGHT JOINTS:

A major advantage for nearly all piping applications is joint tightness. PVC pipes are available with deep insertion, push-together gasketed joints. Gasketed PVC pipe joints have consistently out-performed those of traditional pipe products in actual service. They are simple and easy to assemble and can be filled, tested, and placed in service immediately after assembly.

ABRASION/WEAR RESISTANCE:

PVC pipes exhibit outstanding resistance to wear and abrasion. PVC pipe has proven more durable than metal, concrete, and clay pipe for the transport of abrasive slurries.

IMPACT STRENGTH:

Under normal conditions, PVC pipes possess relatively high resistance to impact damage when compared to pipes made from clay, concrete, and most other conventional materials. Even though PVC pipes do exhibit a reduction in impact strength at very low temperatures, the impact strength remains more than adequate, usually exceeding that of alternate pipe materials.

COEFFICIENT OF FRICTION:

PVC pipes provide smoother wall surfaces that reduce fluid friction and resistance to flow. This hydraulic smoothness inhibits slime buildup in sewers and virtually eliminates tuberculation and encrustation in water distribution mains. The end results are significantly lower maintenance costs and more efficient initial pipeline design.

WATER QUALITY:

PVC pipe's non-corrosive nature and resistance to chemical attack also renders it non-reactive with drinking water. PVC pressure pipes do not adversely alter water quality. There are no corrosion byproducts with PVC pipe. PVC water pipes have been tested extensively using aggressive waters to verify their safety advantage.

FLAME RESISTANCE:

PVC pipe is difficult to ignite and will not continue burning in the absence of an external ignition source. The spontaneous ignition temperature is 850°F, which is well above that of most construction materials. PVC pipe is sometimes referred to as self-extinguishing because the products of combustion immediately combine with any available oxygen, thus starving the flame.

Characteristics Of High pressure Upvc Pipes and fittings :-

Property	Rigid PVC	Flexible PVC
Density [g/cm^3][14]	1.3–1.45	1.1–1.35
Thermal conductivity [W/(m·K)][15]	0.14–0.28	0.14–0.17
Yield strength [psi][14]	4500–8700	1450–3600
Young's modulus [psi]	490,000[16]	
Flexural strength (yield) [psi]	10,500[16]	
Compression strength [psi]	9500[16]	
Coefficient of thermal expansion (linear) [mm/(mm °C)]	5×10^{-5}[16]	
Vicat B [°C][15]	65–100	Not recommended
Resistivity [Ω m][17][18]	10^{16}	10^{12}–10^{15}

APPLICATIONSof Upvc High pressure Pipes and Fittings

The advantageous properties of 'Veer Visions' HDPE Pipes & Ducts make them suitable for numerous applications. Some of these are:

AGRICULTURE & IRRIGATION

- Flood Irrigation (Suction & Delivery pipes in pump sets)
- Sprinkler Irrigation (Crops, Lawns, Golf course, Gardens)
- Drip irrigation(Plantations, Orchards, Nurseries)

WATER SUPPLY

- Potable water supply
- Water mains
- Distribution
- Service Pipes

SEWAGE & INDUSTRIAL EFFLUENT DISPOSAL

- Domestic Sewage System
- Sanitary System
- Petrochemical Industry
- Fertilizer Industry

DUCTING

- Air-conditioning & Refrigeration
- Extraction of Fumes
- Telecommunication, as conduits for OFC

ELECTRICAL INSTALLATIONS

- Conduits for Cables

DRAINAGE PIPES

- Surface & Rain water
- Waste Water Mains
- Sub-soil waste

High Pressure Upvc Pipes and Fittings STANDARS

QPL UPVC Pipes & Fittings comply with QCS 2010 Hihg pressure pipes and fittings pipes & fittings standards Which are :-

A full range of UPVC pipes and fittings to the main International Standards of BS3505, DIN8063, EN1452 and ASTM D2466 including sizes from 1/2"-12" (16mm- 315mm). The fittings include solvent weld joints and are fully compatible to the QPL pipe range. Fittings are available in standard BS 4346 colors of light grey, dark grey suitable for all pressure applications.

Bs 3505 Standard

Standard: PS:3051/91 EQUIVALENT TO BS-3505.

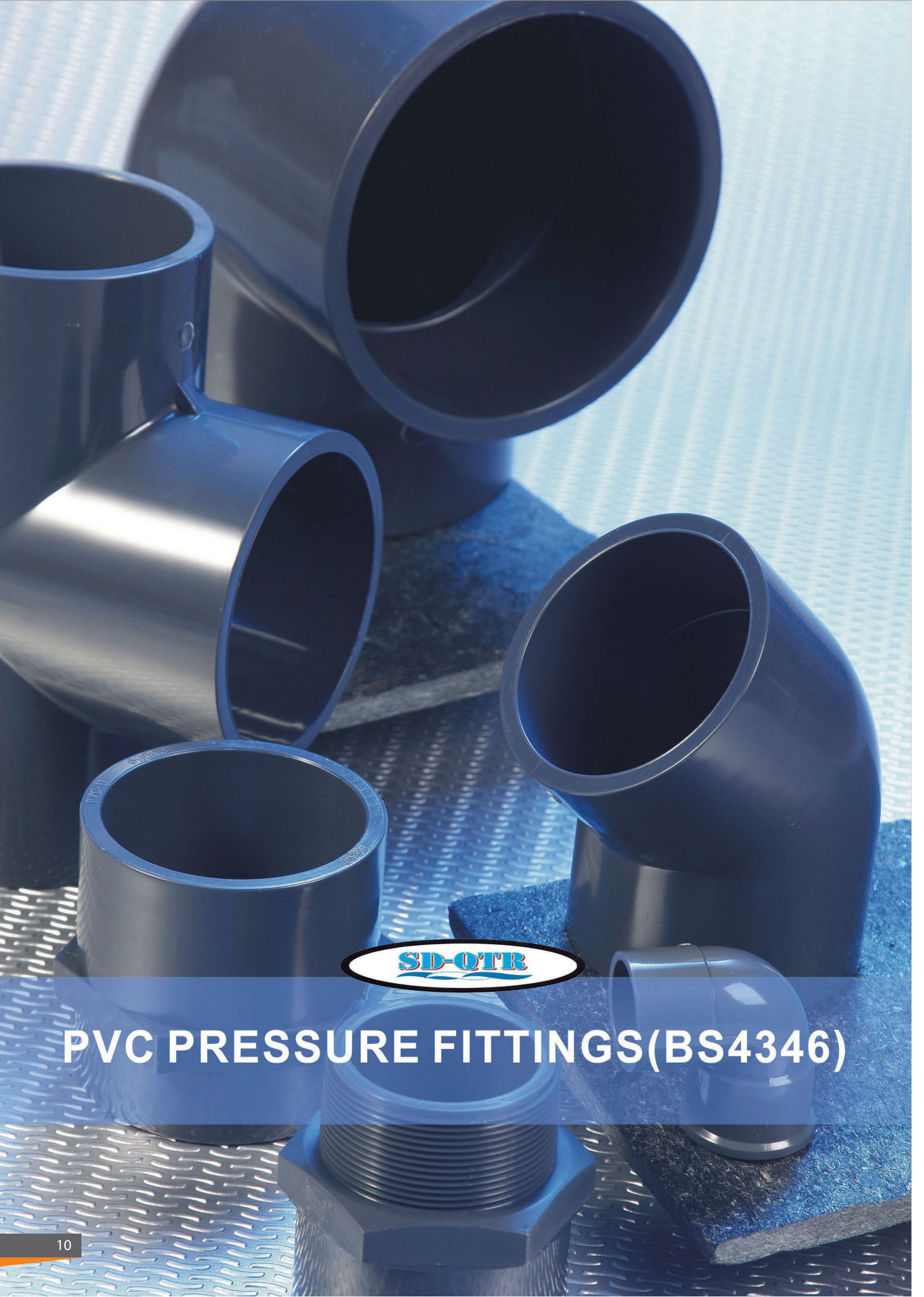
NORMAL SIZE	MEAN OUTER DIA(MM)		WALL THICKNES								WEIGHTS			
			CLASS B 6 BAR (87 PSI)		CLASS C 9 BAR (130 PSI)		CLASS D 12 BAR (173 PSI)		CLASS E 15 BAR (217 PSI)		CLASS B	CLASS C	CLASS D	CLASS E
(INCH)	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	KG/M	KG/M	KG/M	KG/M
3/8"	17.0	17.3							1.5	1.9				0.11
1/2"	21.2	21.5							1.7	2.1				0.15
3/4"	26.6	26.9							1.9	2.5				0.22
1"	33.4	33.7							2.2	2.7				0.32
1 1/4"	42.1	42.4					2.2	2.7	2.7	3.2			0.41	0.50
1 1/2"	48.1	48.4					2.5	3.0	3.1	3.7			0.54	0.65
2"	60.2	60.5			2.5	3.0	3.1	3.7	3.9	4.5		0.68	0.82	1.03
2 1/2"	75.0	75.3			3.0	3.5	3.9	4.5	4.8	5.5		1.01	1.20	1.58
3	88.7	89.1	2.9	3.4	3.5	4.1	4.6	5.3	5.7	6.6	1.17	1.41	1.82	2.22
4	114.1	114.5	3.4	4.4	4.5	5.2	6.0	6.9	7.3	8.4	1.78	2.32	3.03	3.65
5	140.0	140.4	3.8	4.4	5.5	6.4	7.3	8.4	9.0	10.4	2.44	3.49	4.55	5.60
6	168.0	168.5	4.5	5.2	6.6	7.6	8.8	10.2	10.8	12.5	3.46	5.01	6.57	7.95
7	193.5	194.0	5.2	6.0	7.7	8.9	10.1	11.7	12.4	14.3				
8	218.8	219.4	5.3	6.1	7.8	9.0	10.3	11.9	12.6	14.5	5.30	7.72	10.04	12.17
10	272.6	273.4	6.6	7.6	9.7	11.2	12.8	14.8	15.7	18.1	8.26	11.97	15.59	18.89
12	323.4	324.3	7.8	8.4	11.5	12.5	15.2	17.1	19.1	20.9	11.55	16.85	21.91	26.68
14	355.0	356.0	8.5	9.8	12.6	14.5	16.7	19.2	20.5	23.6	13.87	20.27	26.49	32.16

DIN 8062 Standard

Nominal outside diameter mm	CLASS 2 PN 4		CLASS 3 PN 6		CLASS 4 PN 10		CLASS 5 PN 16	
	Nominal Wall mm	Nominal Weight Kg/m	Nominal Wall mm	Nominal Weight Kg/m	Nominal Wall mm	Nominal Weight Kg/m	Nominal Wall mm	Nominal Weight Kg/m
16							1.2	0.090
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	0.552	3.7	0.809
63			1.9	0.562	3.0	0.854	4.7	1.29
75	1.8	0.642	2.2	0.782	3.6	1.22	5.6	1.82
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
125	2.5	1.48	3.7	2.13	6.0	3.34	9.3	5.01
140	2.8	1.84	4.1	2.65	6.7	4.18	10.4	6.27
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
225	4.5	4.70	6.6	6.76	10.8	10.8	16.7	16.1
250	4.9	5.65	7.3	8.31	11.9	13.2	18.6	19.9
280	5.5	7.11	8.2	10.4	13.4	16.6	20.8	24.9
315	6.2	9.02	9.2	13.1	15.0	20.9	23.4	31.5
355	7.0	11.4	10.4	16.7	16.9	26.5	26.3	39.9

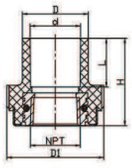
American Standard High pressure Upvc Pipes ASTM 1785:-

Nominal Size inch	Outside Diameter (mm)		Wall Thickness (mm)					
			ASTM D 1785 Schedule 40		ASTM D 1785 Schedule 80		ASTM D2665 (Drain, Waste, Vent)	
	Min	Max	Min	Max	Min	Max	Min	Max
1/2	21.24	21.44	2.77	3.28	3.73	4.24	-	-
3/4	26.57	26.77	2.87	3.38	3.91	4.42	-	-
1	33.27	33.53	3.38	3.89	4.55	5.08	-	-
1-/14	42.03	42.29	3.56	4.07	4.85	5.43	3.56	4.07
1-1/2	48.11	48.41	3.68	4.19	5.08	5.69	3.68	4.19
2	60.17	60.47	3.91	4.42	5.54	6.20	3.91	4.42
2-1/2	72.84	73.20	5.16	5.77	7.01	7.85		
3	88.70	89.10	5.49	6.15	7.62	8.53	5.49	6.15
4	114.07	114.53	6.02	6.73	8.56	9.58	6.02	6.73
5	141.05	141.55	6.55	7.34	9.52	10.66	-	-
6	168.00	168.56	7.11	7.97	10.97	12.29	7.11	7.97
8	218.70	219.46	8.18	9.17	12.70	14.22	8.18	9.17



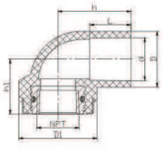
SD-QTR

PVC PRESSURE FITTINGS(BS4346)



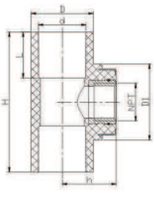
FEMALE ADAPTOR WITH BRASS

Nom Size	D1	D	d	L	NPT	H
½″	45.3	29.4	21.34	23	½″	40.5
½″×¾″	51.6	29.4	21.34	23	¾″	43.5
¾″	51.6	35	26.67	26	¾″	46.5
¾″×½″	45.3	35	26.67	26	½″	44.5
1″	59	43	33.4	29	1″	53.5
1″×¾″	51.6	43	33.4	29	¾″	50



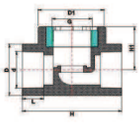
FEMALE ELBOW WITH BRASS

Nom Size	D1	D	d	L	NPT	h	h1
½″	42.9	29.4	21.34	23	½″	39.4	28
½″×¾″	49.2	29.4	21.34	23	¾″	38.5	31.5
¾″	49.2	35	26.67	26	¾″	45.9	34.5
¾″×½″	42.9	35	26.67	26	½″	39.5	30.5
1″	56.7	43.54	34.05	29.08	1″	50	41
1¼″	67	52	42.16	32	1¼″	60	46.5
1½″	73	59	48.26	35	1½″	66	51
2″	87.6	72	60.33	39	2″	75	61



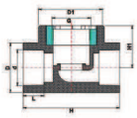
FEMALE TEE WITH BRASS

Nom Size	D1	D	d	L	NPT	h	h1
½″	42.9	29.4	21.34	23	½″	28	77
½″×¾″	49.2	29.4	21.34	23	¾″	31.5	77
¾″	49.2	35	26.67	26	¾″	34.5	92
¾″×½″	42.9	35	26.67	26	½″	30.5	79
1″	56.7	43.54	34.05	29.08	1″	41	100
1¼″	67	52	42.16	32	1¼″	46.5	120
1½″	73	59	48.26	35	1½″	51	132
2″	87.6	72	60.33	39	2″	61	150



PVC STOP VALVE TYPE I

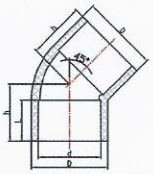
Nom Size	D	d	G	L	H	D1	H1
20X½″	29.8	21.34	1/2″	22.7	80	35	30
25X¾″	36	26.99	¾″	24	82	42	
32X1″	43.7	33.7	1″	25	93	51.7	39



PVC STOP VALVE TYPE II

Nom Size	D	d	G	L	H	D1	H1
20X½″	29.8	21.34	1/2″	22.7	80	35	30
25X¾″	36	26.99	¾″	24	82	42	
32X1″	43.7	33.7	1″	25	93	51.7	39

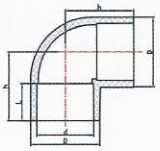
PVC PRESSURE FITTINGS BS4346 BS1452



SDHP-EY530 (Dia)

45° ELBOW

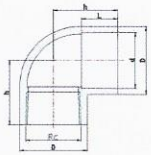
Size Nom	D	d	L	h
½"	28.5	21.34	17	23.14
¾"	34.5	26.67	20	27.18
1"	41.7	33.4	23	32
1¼"	51.4	42.16	27.5	38.28
1½"	59.8	48.26	30.5	43
2"	74	60.33	36.5	52
3"	105.7	88.9	51	73
4"	134.5	114.3	63.5	92.5
6"	196.7	168.3	91	132



SDHP-EL530 (Dia)

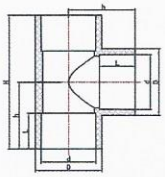
90° ELBOW

Size Nom	D	d	L	h
½"	28.5	21.34	17	30
¾"	34.5	26.67	20	35.5
1"	41.7	33.4	23	42
1¼"	51.4	42.16	27.5	51
1½"	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



FEMALE ELBOW

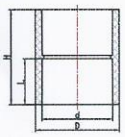
Size Nom	D	d	L	h	Rc
½"	28.5	21.34	17	28.25	½"
¾"	34.5	26.67	20	34.25	¾"
1"	41.7	33.4	23	39.35	1"
1¼"	51.4	42.16	27.5	48.8	1¼"
1½"	59.8	48.26	30.5	54.1	1½"
2"	74.5	60.33	36.5	67.75	2"



SDHP-TE430 (Dia)

TEE

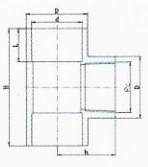
Size Nom	D	d	L	H	h
½"	28.5	21.34	17	59	29.5
¾"	34.5	26.67	20	71	35.5
1"	41.7	33.4	23	84	42
1¼"	51.4	42.16	27.5	103	51.5
1½"	59.8	48.26	30.5	117	58.5
2"	74.5	60.33	36.5	143	71.5
3"	105.7	88.9	51	202.7	101.35
4"	134.5	114.3	63.5	255	127.5
6"	196.7	168.3	91	367	183.5



SDHP-SO13 (Dia)

COUPLING

Size Nom	D	d	L	h
½"	27.5	21.34	17	36
¾"	33.5	26.67	20	42
1"	40.7	33.4	23	48
1¼"	50.4	42.16	27.5	57
1½"	59.4	48.26	30.5	64
2"	74	60.33	36.5	77
3"	103.5	88.9	51	109
4"	134.5	114.3	63.5	132
6"	194.7	168.3	91	188

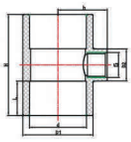


SDHP-EY530 (Dia)

FEMALE TEE

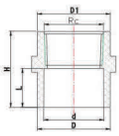
Size Nom	D	d	L	H	h	Rc
½"	28.5	21.34	17	56.5	28.25	½"
¾"	34.5	26.67	20	68.5	34.25	¾"
1"	41.7	33.4	23	80	39.35	1"
1¼"	51.4	42.16	27.5	97.6	48.8	1¼"
1½"	59.8	48.26	30.5	109	54.1	1½"
2"	74.5	60.33	36.5	135.5	67.75	2"

PVC PRESSURE FITTINGS BS4346 BS1452

FEMALE REDUCING TEE

Size Nom	D1	D2	d	L	H	h	G
1″ × ½″	41.7	28.5	33.69	23	69.6	35	½″
1½″×½″	59.8	28.5	48.38	30.5	85.5	42	½″
2″ × ½″	74.5	28.5	60.5	36.5	102	51	½″
2″ × ¾″	74.5	34	60.33	36.5	107.38	52.36	¾″

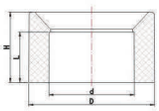
SDHP-SF14 (Dia)

FEMALE ADAPTOR

Size Nom	D	D1	d	L	H	Rc
½″	28.5	28.5	21.34	17	35.5	½″
¾″	34.5	34.5	26.67	20	41	¾″
1″	41.7	41.7	33.4	23	45.6	1″
1¼″	51.4	51.4	42.16	27.5	53.7	1¼″
1½″	59.8	59.4	48.26	30.5	62	1½″
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″


MALE ADAPTOR

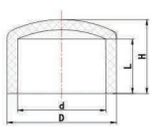
Size Nom	D	d	d1	L	H	R
½″	28.5	21.34	12.2	17	41.5	½″
¾″	34.5	26.67	16	20	46.5	¾″
1″	41.7	33.4	23	23	55	1″
1¼″	51.4	42.16	33	27.5	58.5	1¼″
1½″	59.8	48.26	37	30.5	63	1½″
2″	74	60.33	47	36.5	75	2″
3″	103.5	88.9	72	51	99	3″
4″	134.5	114.3	94	63.5	122	4″
6″	196.7	168.3	136.6	91	157.5	6″

SDHP-RB93 (Dia)

REDUCING BUSH

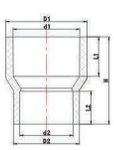
Size Nom	D	d	L	H
¾″× ½″	26.67	21.34	17	20
1″× ½″	33.4	21.34	17	23
1″× ¾″	33.4	26.67	20	23
1¼″× ½″	42.16	21.34	17	27.5
1¼″× ¾″	42.16	26.67	20	27.5
1¼″× 1″	42.16	33.4	23	27.5
1½″× ½″	48.26	21.34	17	30.5
1½″× ¾″	48.26	26.67	20	30.5
1½″× 1″	48.26	33.4	23	30.5
1½″×1¼″	48.26	42.16	27.5	30.5
2″ × ½″	60.33	21.34	17	36.5
2″ × ¾″	60.33	26.67	20	36.5
2″ × 1″	60.33	33.4	23.8	36.5
2″ × 1¼″	60.33	42.16	28.2	36.5
2″ × 1½″	60.33	48.26	30.5	36.5
3″ × 1½″	88.9	48.26	30.5	51
3″×2″	88.9	60.33	36.5	51
4″×2″	114.3	60.33	36.5	63.5
4″×3″	114.3	88.9	51	63.5
6″×4″	168.3	114.3	63.5	91

SDHP-CA73 (Dia)

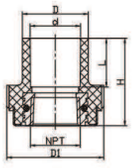
END PLUG

Size Nom	D	d	L	h
½″	28.5	21.34	17	22.58
¾″	34.5	26.67	20	26.51
1″	41.7	33.4	23	30.56
1¼″	51.4	42.16	27.5	36.55
1½″	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

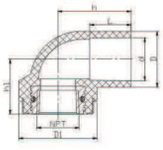
REDUCING COUPLING

Size Nom	D1	D2	d1	d2	L1	L2	H
2″ ×1½″	73.9	59.8	60.33	48.26	36.5	30.5	81



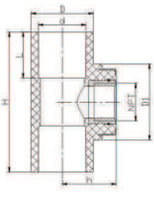
FEMALE ADAPTOR WITH BRASS

Nom Size	D1	D	d	L	NPT	H
½″	45.3	29.4	21.34	23	½″	40.5
½″×¾″	51.6	29.4	21.34	23	¾″	43.5
¾″	51.6	35	26.67	26	¾″	46.5
¾″×½″	45.3	35	26.67	26	½″	44.5
1″	59	43	33.4	29	1″	53.5
1″×¾″	51.6	43	33.4	29	¾″	50



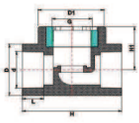
FEMALE ELBOW WITH BRASS

Nom Size	D1	D	d	L	NPT	h	h1
½″	42.9	29.4	21.34	23	½″	39.4	28
½″×¾″	49.2	29.4	21.34	23	¾″	38.5	31.5
¾″	49.2	35	26.67	26	¾″	45.9	34.5
¾″×½″	42.9	35	26.67	26	½″	39.5	30.5
1″	56.7	43.54	34.05	29.08	1″	50	41
1¼″	67	52	42.16	32	1¼″	60	46.5
1½″	73	59	48.26	35	1½″	66	51
2″	87.6	72	60.33	39	2″	75	61



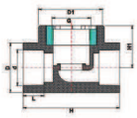
FEMALE TEE WITH BRASS

Nom Size	D1	D	d	L	NPT	h	h1
½″	42.9	29.4	21.34	23	½″	28	77
½″×¾″	49.2	29.4	21.34	23	¾″	31.5	77
¾″	49.2	35	26.67	26	¾″	34.5	92
¾″×½″	42.9	35	26.67	26	½″	30.5	79
1″	56.7	43.54	34.05	29.08	1″	41	100
1¼″	67	52	42.16	32	1¼″	46.5	120
1½″	73	59	48.26	35	1½″	51	132
2″	87.6	72	60.33	39	2″	61	150



PVC STOP VALVE TYPE I

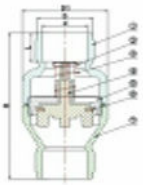
Nom Size	D	d	G	L	H	D1	H1
20X½″	29.8	21.34	1/2″	22.7	80	35	30
25X¾″	36	26.99	¾″	24	82	42	
32X1″	43.7	33.7	1″	25	93	51.7	39



PVC STOP VALVE TYPE II

Nom Size	D	d	G	L	H	D1	H1
20X½″	29.8	21.34	1/2″	22.7	80	35	30
25X¾″	36	26.99	¾″	24	82	42	
32X1″	43.7	33.7	1″	25	93	51.7	39

PLASTIC VALVES AND FITTINGS



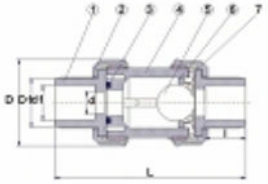
CHECK VALVE II

Specification of material

NO.	PART	MATERIAL	Q'TY
1	Exit body	PVC-U	1
2	Stainless plug	stainless steel	1
3	Spring	stainless steel	1
4	Core	PVC-U	1
5	Core frame	PVC-U	1
6	O-ring	NBR	1
7	Entrance body	PVC-U	1

Dimensions

Size Nom	D1	D	BS(d)	ANSI(d)	DIN(d)	L	H
½"	45.2	30.5	22	21.34	20	23	103
¾"	45.2	35.5	26	26.67	25	27	113.6
1"	57.5	43	34	33.4	32	28	142
1¼"	79.6	52	42	42.16	40	30.6	156
1½"	79.8	60.2	48	48.26	50	36	167.4
2"	103.6	72	60	60.33	63	40.6	194.8



SDHP-UN83 (Dia)

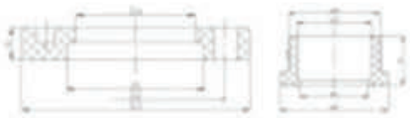
PVC BALL CHECK VALVE

Specification of material

NO.	PART	MATERIAL	Q'TY
1	End Connector	PVC	2
2	Union Nut	PVC	2
3	Starts O-Ring	EPDM、FPM(NBR)	1
4	Body	PVC	1
5	Ball	PVC	1
6	Gland	PVC	1
7	Seat	EPDM、FPM(NBR)	1

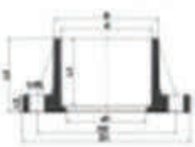
Dimensions

Size Nom	NPT Thd./in	BSPT Thd./in	JIS d1	BS d1	ANSI d1	DIN d1	d	D1	D	l	L
15mm(1/2")	14	14	22	22	21.34	20	15	27.5	51.3	20.5	105
20mm(3/4")	14	14	26	26	26.67	25	19.5	35.0	65.5	25	116.5
25mm(1")	11.5	11	32	34	33.4	32	25	41.6	73.7	28	130.5
32mm(11/4")	11.5	11	38	42	42.16	40	32	51.6	86.8	29.5	148.5
40mm(11/2")	11.5	11	48	48	48.26	50	40	60.9	102	34	168.5
50mm(2")	11.5	11	60	60	60.33	63	50	75	119.8	40	189



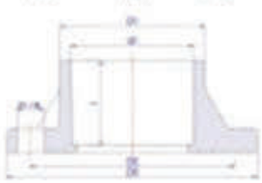
VAN STONE FLANGE Dimensions

Nom Size	d1	d2	d3	d4	h	D1	D2	D3	D4	H
2"	51	91.8	58	74.6	43.5	92.5	120	152.4	77.6	20.5
2 1/2"	68	107.2	73.4	90.6	49	107.6	140	177.6	92.6	24.8
3"	77.2	119.9	89.4	107	54.9	120.6	152.5	191.4	109.4	26.4
4"	102.4	152.5	110.4	131.8	64.8	153	191	229.7	134	28.5
6"	156	206	160.5	189.2	85	207.5	241	284	192.5	32
8"	204.2	260	201	237	119	261	296	342.2	239	36.2
10"	266.3	338	273.8	305.9	135	308	362	407	/	34.5
12"	316.4	394	324.6	361.5	162	363.5	432	484	/	36.5
225	200	274	225	247.5	118	126	250	294.5	339	32
250	242	327	250	282	133	140	284	350	399.7	34.5
315	299	377	315	345	165.5	174	347.5	402.5	450.8	36.5



JIS FLANGE Dimensions

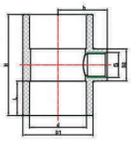
Nom Size	D	d ANSI	d DIN	d JIS	d BS	D1	D2	d1	L1	L2	L3	n-Ød
3/4"	35.3	26.67	25	26	26	100	75	22	35	15	40	4-ø15
1"	43	33.4	32	32	34	125	89	25	40	15	46	4-ø19
11/4"	49	42.16	40	38	42	135	100	30	44	16	50.5	4-ø19
11/2"	60.5	48.26	50	48	48	140	105	41	55	16	61.5	4-ø19
2"	73.5	60.33	63	60	60	155	120	52	63	20	71	4-ø19
21/2"	90.5	73.03	75	76	76	175	140	67	61	22	70	4-ø19
3"	105.5	88.9	90	89	89	185	150	78	64	22	73	8-ø19
4"	131	114.3	110	114	114	210	175	100	83.5	22	95	8-ø19



TS FLANGE Dimensions

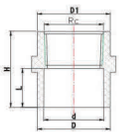
Nom Size	D1	D2	D3	d1 DIN	d1 ANSI	d1 JIS	d1 BS	t	n-ø
20mm(1/2")	30	60.5	89	20	21.34	22	22	22	4-16
25mm(3/4")	34	70.5	98	25	26.67	26	26	23.5	4-16
32mm(1")	42.5	79.5	108	32	33.4	32	34	25.5	4-16
40mm(1-1/4")	52	89.5	118	40	42.16	38	42	32	4-16
50mm(1-1/2")	61.5	96.5	127	50	48.26	48	48	32.5	4-19
63mm(2")	76	120.5	151.5	63	60.33	60	60	35.8	4-19
75mm(2-1/2")	89.5	139.5	177.3	75	73.03	76	76	41	4-19
90mm(3")	107.5	152.5	191	90	88.9	89	89	48.5	4-19
110mm(4")	130.5	190.5	228.5	110	114.3	114	114	58.5	8-19
140mm(5")	165	210	250	140	141.3	140	140.8	104	8-23
160mm(6")	188	240	280	160	168.3	165	168.3	132	8-23
200mm(8")	238	296	330	200	219.1	216	219.1	136	12-23
250mm(10")									

PVC PRESSURE FITTINGS BS4346 BS1452

FEMALE REDUCING TEE

Size Nom	D1	D2	d	L	H	h	G
1″ × ½″	41.7	28.5	33.69	23	69.6	35	½″
1½″×½″	59.8	28.5	48.38	30.5	85.5	42	½″
2″ × ½″	74.5	28.5	60.5	36.5	102	51	½″
2″ × ¾″	74.5	34	60.33	36.5	107.38	52.36	¾″

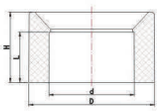
SDHP-SF14 (Dia)

FEMALE ADAPTOR

Size Nom	D	D1	d	L	H	Rc
½″	28.5	28.5	21.34	17	35.5	½″
¾″	34.5	34.5	26.67	20	41	¾″
1″	41.7	41.7	33.4	23	45.6	1″
1¼″	51.4	51.4	42.16	27.5	53.7	1¼″
1½″	59.8	59.4	48.26	30.5	62	1½″
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″


MALE ADAPTOR

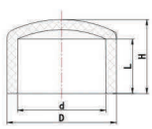
Size Nom	D	d	d1	L	H	R
½″	28.5	21.34	12.2	17	41.5	½″
¾″	34.5	26.67	16	20	46.5	¾″
1″	41.7	33.4	23	23	55	1″
1¼″	51.4	42.16	33	27.5	58.5	1¼″
1½″	59.8	48.26	37	30.5	63	1½″
2″	74	60.33	47	36.5	75	2″
3″	103.5	88.9	72	51	99	3″
4″	134.5	114.3	94	63.5	122	4″
6″	196.7	168.3	136.6	91	157.5	6″

SDHP-RB93 (Dia)

REDUCING BUSH

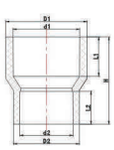
Size Nom	D	d	L	H
¾″× ½″	26.67	21.34	17	20
1″× ½″	33.4	21.34	17	23
1″× ¾″	33.4	26.67	20	23
1¼″× ½″	42.16	21.34	17	27.5
1¼″× ¾″	42.16	26.67	20	27.5
1¼″× 1″	42.16	33.4	23	27.5
1½″× ½″	48.26	21.34	17	30.5
1½″× ¾″	48.26	26.67	20	30.5
1½″× 1″	48.26	33.4	23	30.5
1½″×1¼″	48.26	42.16	27.5	30.5
2″ × ½″	60.33	21.34	17	36.5
2″ × ¾″	60.33	26.67	20	36.5
2″ × 1″	60.33	33.4	23.8	36.5
2″ × 1¼″	60.33	42.16	28.2	36.5
2″ × 1½″	60.33	48.26	30.5	36.5
3″ × 1½″	88.9	48.26	30.5	51
3″×2″	88.9	60.33	36.5	51
4″×2″	114.3	60.33	36.5	63.5
4″×3″	114.3	88.9	51	63.5
6″×4″	168.3	114.3	63.5	91

SDHP-CA73 (Dia)

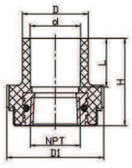
END PLUG

Size Nom	D	d	L	h
½″	28.5	21.34	17	22.58
¾″	34.5	26.67	20	26.51
1″	41.7	33.4	23	30.56
1¼″	51.4	42.16	27.5	36.55
1½″	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

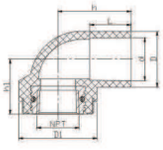
REDUCING COUPLING

Size Nom	D1	D2	d1	d2	L1	L2	H
2″ ×1½″	73.9	59.8	60.33	48.26	36.5	30.5	81



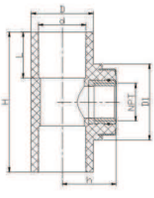
FEMALE ADAPTOR WITH BRASS

Nom Size	D1	D	d	L	NPT	H
½″	45.3	29.4	21.34	23	½″	40.5
½″×¾″	51.6	29.4	21.34	23	¾″	43.5
¾″	51.6	35	26.67	26	¾″	46.5
¾″×½″	45.3	35	26.67	26	½″	44.5
1″	59	43	33.4	29	1″	53.5
1″×¾″	51.6	43	33.4	29	¾″	50



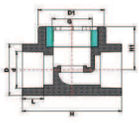
FEMALE ELBOW WITH BRASS

Nom Size	D1	D	d	L	NPT	h	h1
½″	42.9	29.4	21.34	23	½″	39.4	28
½″×¾″	49.2	29.4	21.34	23	¾″	38.5	31.5
¾″	49.2	35	26.67	26	¾″	45.9	34.5
¾″×½″	42.9	35	26.67	26	½″	39.5	30.5
1″	56.7	43.54	34.05	29.08	1″	50	41
1¼″	67	52	42.16	32	1¼″	60	46.5
1½″	73	59	48.26	35	1½″	66	51
2″	87.6	72	60.33	39	2″	75	61



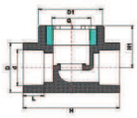
FEMALE TEE WITH BRASS

Nom Size	D1	D	d	L	NPT	h	h1
½″	42.9	29.4	21.34	23	½″	28	77
½″×¾″	49.2	29.4	21.34	23	¾″	31.5	77
¾″	49.2	35	26.67	26	¾″	34.5	92
¾″×½″	42.9	35	26.67	26	½″	30.5	79
1″	56.7	43.54	34.05	29.08	1″	41	100
1¼″	67	52	42.16	32	1¼″	46.5	120
1½″	73	59	48.26	35	1½″	51	132
2″	87.6	72	60.33	39	2″	61	150



PVC STOP VALVE TYPE I

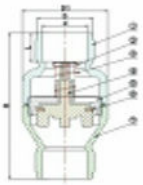
Nom Size	D	d	G	L	H	D1	H1
20X½″	29.8	21.34	1/2″	22.7	80	35	30
25X¾″	36	26.99	¾″	24	82	42	
32X1″	43.7	33.7	1″	25	93	51.7	39



PVC STOP VALVE TYPE II

Nom Size	D	d	G	L	H	D1	H1
20X½″	29.8	21.34	1/2″	22.7	80	35	30
25X¾″	36	26.99	¾″	24	82	42	
32X1″	43.7	33.7	1″	25	93	51.7	39

PLASTIC VALVES AND FITTINGS



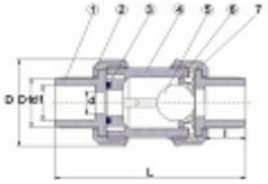
CHECK VALVE II

Specification of material

NO.	PART	MATERIAL	Q'TY
1	Exit body	PVC-U	1
2	Stainless plug	stainless steel	1
3	Spring	stainless steel	1
4	Core	PVC-U	1
5	Core frame	PVC-U	1
6	O-ring	NBR	1
7	Entrance body	PVC-U	1

Dimensions

Size Nom	D1	D	BS(d)	ANSI(d)	DIN(d)	L	H
½"	45.2	30.5	22	21.34	20	23	103
¾"	45.2	35.5	26	26.67	25	27	113.6
1"	57.5	43	34	33.4	32	28	142
1¼"	79.6	52	42	42.16	40	30.6	156
1½"	79.8	60.2	48	48.26	50	36	167.4
2"	103.6	72	60	60.33	63	40.6	194.8



SDHP-UN83 (Dia)

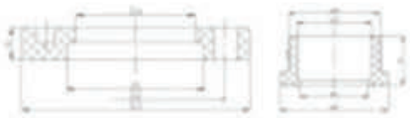
PVC BALL CHECK VALVE

Specification of material

NO.	PART	MATERIAL	Q'TY
1	End Connector	PVC	2
2	Union Nut	PVC	2
3	Starts O-Ring	EPDM、FPM(NBR)	1
4	Body	PVC	1
5	Ball	PVC	1
6	Gland	PVC	1
7	Seat	EPDM、FPM(NBR)	1

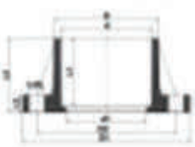
Dimensions

Size Nom	NPT Thd./in	BSPT Thd./in	JIS d1	BS d1	ANSI d1	DIN d1	d	D1	D	l	L
15mm(1/2")	14	14	22	22	21.34	20	15	27.5	51.3	20.5	105
20mm(3/4")	14	14	26	26	26.67	25	19.5	35.0	65.5	25	116.5
25mm(1")	11.5	11	32	34	33.4	32	25	41.6	73.7	28	130.5
32mm(11/4")	11.5	11	38	42	42.16	40	32	51.6	86.8	29.5	148.5
40mm(11/2")	11.5	11	48	48	48.26	50	40	60.9	102	34	168.5
50mm(2")	11.5	11	60	60	60.33	63	50	75	119.8	40	189



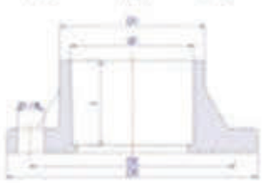
VAN STONE FLANGE Dimensions

Nom Size	d1	d2	d3	d4	h	D1	D2	D3	D4	H
2"	51	91.8	58	74.6	43.5	92.5	120	152.4	77.6	20.5
2 1/2"	68	107.2	73.4	90.6	49	107.6	140	177.6	92.6	24.8
3"	77.2	119.9	89.4	107	54.9	120.6	152.5	191.4	109.4	26.4
4"	102.4	152.5	110.4	131.8	64.8	153	191	229.7	134	28.5
6"	156	206	160.5	189.2	85	207.5	241	284	192.5	32
8"	204.2	260	201	237	119	261	296	342.2	239	36.2
10"	266.3	338	273.8	305.9	135	308	362	407	/	34.5
12"	316.4	394	324.6	361.5	162	363.5	432	484	/	36.5
225	200	274	225	247.5	118	126	250	294.5	339	32
250	242	327	250	282	133	140	284	350	399.7	34.5
315	299	377	315	345	165.5	174	347.5	402.5	450.8	36.5



JIS FLANGE Dimensions

Nom Size	D	d ANSI	d DIN	d JIS	d BS	D1	D2	d1	L1	L2	L3	n-Ød
3/4"	35.3	26.67	25	26	26	100	75	22	35	15	40	4-ø15
1"	43	33.4	32	32	34	125	89	25	40	15	46	4-ø19
11/4"	49	42.16	40	38	42	135	100	30	44	16	50.5	4-ø19
11/2"	60.5	48.26	50	48	48	140	105	41	55	16	61.5	4-ø19
2"	73.5	60.33	63	60	60	155	120	52	63	20	71	4-ø19
21/2"	90.5	73.03	75	76	76	175	140	67	61	22	70	4-ø19
3"	105.5	88.9	90	89	89	185	150	78	64	22	73	8-ø19
4"	131	114.3	110	114	114	210	175	100	83.5	22	95	8-ø19



TS FLANGE Dimensions

Nom Size	D1	D2	D3	d1 DIN	d1 ANSI	d1 JIS	d1 BS	t	n-ø
20mm(1/2")	30	60.5	89	20	21.34	22	22	22	4-16
25mm(3/4")	34	70.5	98	25	26.67	26	26	23.5	4-16
32mm(1")	42.5	79.5	108	32	33.4	32	34	25.5	4-16
40mm(1-1/4")	52	89.5	118	40	42.16	38	42	32	4-16
50mm(1-1/2")	61.5	96.5	127	50	48.26	48	48	32.5	4-19
63mm(2")	76	120.5	151.5	63	60.33	60	60	35.8	4-19
75mm(2-1/2")	89.5	139.5	177.3	75	73.03	76	76	41	4-19
90mm(3")	107.5	152.5	191	90	88.9	89	89	48.5	4-19
110mm(4")	130.5	190.5	228.5	110	114.3	114	114	58.5	8-19
140mm(5")	165	210	250	140	141.3	140	140.8	104	8-23
160mm(6")	188	240	280	160	168.3	165	168.3	132	8-23
200mm(8")	238	296	330	200	219.1	216	219.1	136	12-23
250mm(10")									

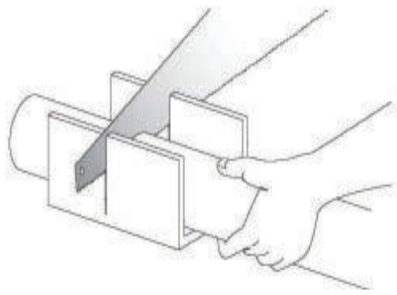
Jointing of High Pressure Sd Qatar Pipes & Fittings

Very simple jointing techniques are offered for both Permanent & Detachable joints.

Solvent cement jointing procedure

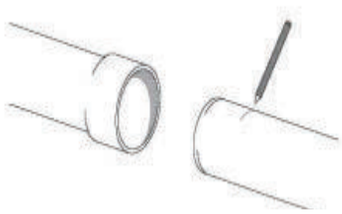
1. **Prepare the pipe**

   Before jointing, check that the pipe has been cut square and all the burrs are removed from the inside and outside edge. Remove the sharp edge from the outside and inside of the pipe with a deburring tool. Do not create a large chamfer that will trap a pool of solvent cement. Remove all dirt, swarf, and moisture from spigot and socket.



2. **Witness mark the pipe**

   It is essential to be able to determine when the spigot is fully home in the socket. Mark the spigot with a pencil line ('witness mark') at a distance equal to the internal depth of the socket. Other marking methods may be used provided that they do not damage or score the pipe.



3. **'Dry fit' the joint**

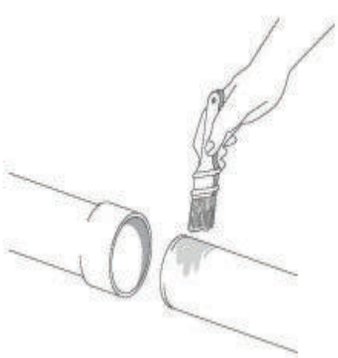
   'Dry fit' the spigot into the socket, check the pipe for proper alignment. Any adjustments for the correct fit can be made now, not later. For pressure pipes, the spigot should interfere in the socket before it is fully inserted to the pencil line. Ovality in the pipe and socket will automatically be re-rounded in the final solvent cementing process, but heavy-walled pipe may give a false indication of the point of interference. Do not attempt to make a pressure pipe joint that does not have an interference fit

4. **Prepare with priming fluid**

   Dry, degrease and prime the spigot and socket with a lint-free cloth (natural fibres)

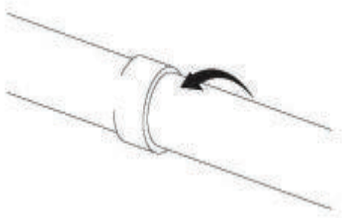
5. **Apply solvent cement**

   Using a suitably sized brush, apply a thin even coat of solvent cement to the internal surface of the socket first. Solvents will evaporate faster from the exposed spigot than from the socket. Special care should be taken to ensure that excess solvent cement isn't built up at the back of the socket (pools of solvent will continue to attack the PVC and weaken the pipe). Then apply a heavier, even coat of solvent cement up to the witness mark on the spigot. Ensure the entire surface is covered. A 'dry' patch will not develop a proper bond, even if the mating surface is covered. An unlubricated patch may also make it difficult to obtain full insertion.



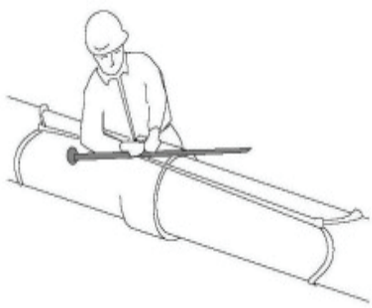
6. **Inserting the spigot**

Make the joint immediately, in a single movement. Do not stop halfway, since the bond will start to set immediately and it will be almost impossible to insert further. It will aid distribution of the solvent cement to twist the spigot into the socket so that it rotates about a 1/4 turn whilst (not after) inserting, but where this cannot be done, particular attention should be paid to uniform solvent application.



7. **Push the spigot home**

The spigot must be fully homed to the full depth of the socket. The final 10% of spigot penetration is vital to the interference fit. Mechanical force will be required for larger joints. Be ready in advance. Pipe pullers are commercially available for this purpose. Polyester pipe slings are very useful for gripping a pipe, in order to apply a winch or lever.



8. **Hold the joint**

Hold the joint against movement and rejection of the spigot for a minimum of 30 seconds. Disturbing the joint during this phase will seriously impair the strength of the joint.

Precautions to achieve an effective joint

Make sure that the end of each pipe is square in its socket and in the same alignment and grade as the preceding pipes or fittings.

Create a 0.5mm chamfer, as a sharp edge on the spigot will wipe off the solvent and reduce the interface area. Remove all swarf and burrs so that filings cannot later become dislodged and jam taps and valves.

Do not attempt to joint pipes at an angle. Curved lines should be jointed without stress, and then curved after the joint is cured. Support the spigot clear of the ground when jointing, this will avoid contamination with soil or sand.

An unsatisfactory solvent cement joint cannot be re-executed, nor can previously cemented spigots and sockets be re-used. To affect repairs, cut out the joint and remake or use mechanical repair fittings.

Correct solvent quantity

The correct amount of solvent is a uniform self-levelling layer without runs, achieved by experience and judgement. Too much solvent will form pools and continue to attack and weaken the pipe. Too little solvent will require you to brush out excessively, the solvent will quickly evaporate with vigorous brushing.

Take care not to spill solvent cement onto pipes or fittings. Accidental spillage should be wiped off immediately.

Adverse weather

High temperature and air movement will radically increase the loss of solvents, and solvent cement jointing should not be performed when the temperature is more than 35°C. Some form of protection should be provided when jointing in windy and dusty conditions.

When jointing under wet and very cold conditions, make sure that the mating surfaces are dry and free from ice, as moisture may prevent the solvent cement from obtaining its maximum strength.

Storage

Keep the containers stored below 30°C. The solvent cement lids should be tightly sealed when not in use to prevent evaporation of the solvent. Do not use solvent cement that has gone cloudy or has started to gel in the can. Do not use solvent cement after the 'use by' date shown on the can, the chemical constituents can change over a long period, even in a sealed can.

Safety

Forced ventilation should be used in confined spaces. Do not bring a naked flame within the vicinity of solvent cement operations. Spillage onto the skin should be washed off immediately with soap and water. Should the solvent cement get in the eyes, wash them with clean water for at least 15 minutes and seek medical advice.

Priming fluid

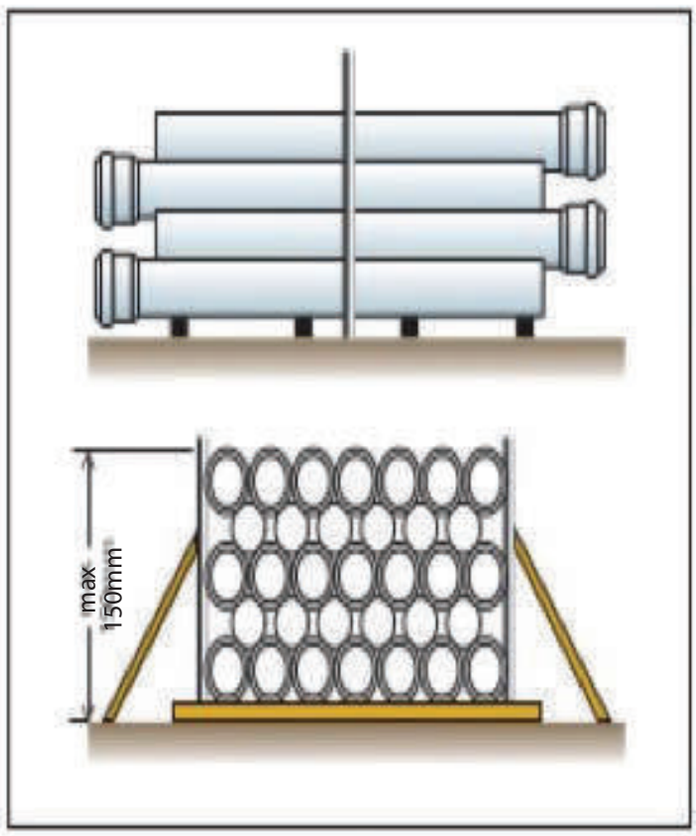
If poisoning occurs, contact a doctor or Poisons Information Centre.If swallowed, do not induce vomiting – give a glass of water.

Solvent cement

If poisoning occurs, contact a doctor or Poisons Information Centre. If swallowed, and more than 15 minutes from a hospital, induce vomiting preferably using Ipecac Syrup APF.

Storage & Handling Instructions :-

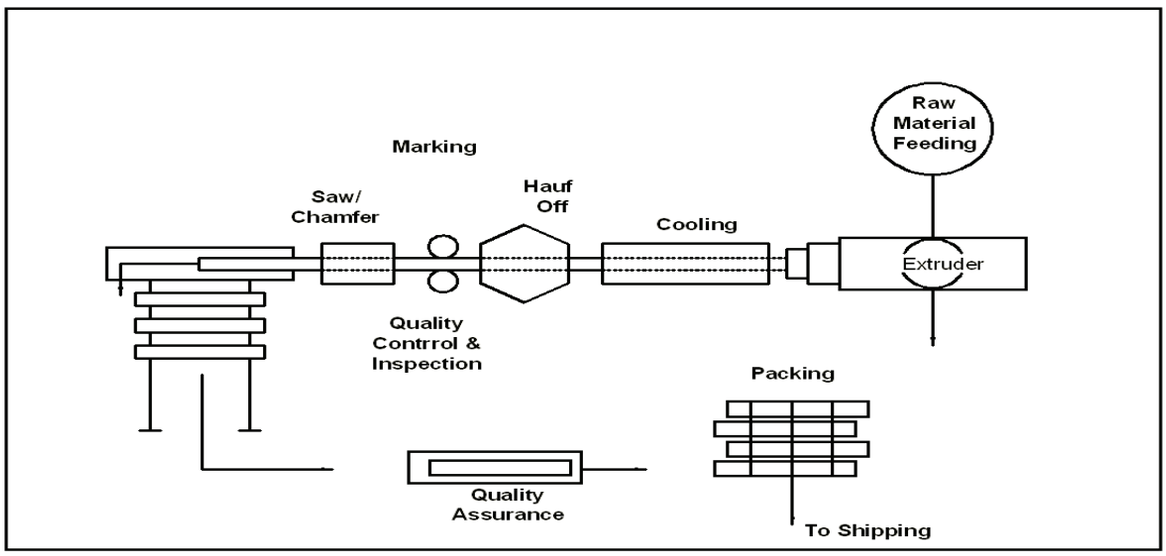
- PVC-u pipes should be handled with due care to avoid damage to the surface and to the ends of the pipe
- Dragging pipes along the ground should be strictly avoided.
- PVU-u pipes should be loaded and unloaded by hand lifting chains and tools should be used carefully.
- PVC-u pipes should be ge gently stored oin a flat level ground free of sharp stones or objects.
- Each layer of pipe must have the sockets stacked with alternate layers.
- Extra care must be taken to see the sockets of the bottom layer do not carry any load.
- This can be ensured by use of suitable wooden blocks.



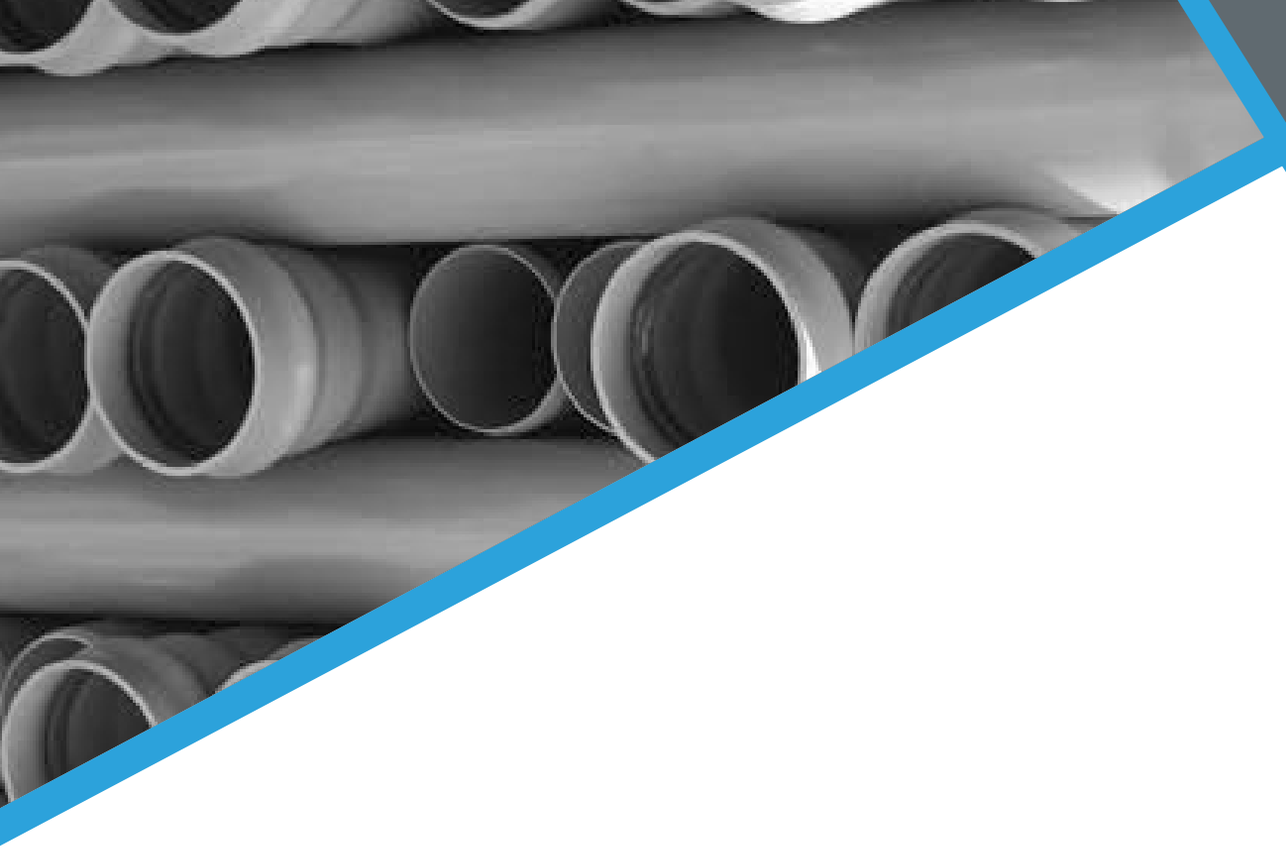
Chemical resistance of Upvc pipes High Pressure :-

ACETALDEHYDE	CH_3CHO	100	25	3	1	2	3	3	3	1	2
			60	3	2			3			
			100					3			
- AQUEOUS SOLUTION		40	25	3	1	1	1	1	3	1	1
			60	3	2	2	1		3		
			100				1				2
ACETIC ACID	CH_3COOH	≤25	25	1	1	1	1	1	3	1	1
			60	2	1	1	1	1	3	3	
			100			1	1	1			
		30	25	1	1	1	1	1	2	1	1
			60	2	1	1	1		2	3	
			100			1	1	2			
		60	25	1	1	1	1	1	2		1
			60	2	1	1	1		3		
			100			2	2	2		3	
		80	25	1	2	1	1	1	3	2	1
			60	2	3	3	1		3	3	
			100			3	2	2	3	3	2
- GLACIAL		100	25	2	1	1	1	2	3	3	2
			60	3	2	2	2	3	2	1	3
			100			3	3	3		3	3
ACETIC ANHYDRIDE	$(CH_3CO)_2O$	100	25	3	2	1	3		3	2	1
			60	3	2	2	3	3			
			100			3	3				3
ACETONE	CH_3COCH_3	10	25	3	1	1	1	3	3	1	3
			60	3		3	1	3		3	3
			100			3	1	3		3	3
		100	25	3	2	1	2	3	3	1	3
			60	3	2	3	3	3	3	3	3
			100			3	3	3		3	3
ACETOPHENONE	$CH_3COC_6H_5$	nd	25			1	1		3	1	
			60			3	1				
			100								
ACRYLONITRILE	CH_2CHCN	technically pure	25		1	1	2		3	2	
			60	3	1	1	3				2
			100				3				
ADIPIC ACID	$(CH_2CH_2CO_2H)_2$	sat.	25	1	1	1		1	1	1	1
- AQUEOUS SOLUTION			60	2	1	1			1		
			100								
ALLYL ALCOHOL	CH_2CHCH_2OH	96	25	2	1	1	1	1			2
			60	3	2	1					
			100			1					3
ALUM	$Al_2(SO_4)_3.K_2SO_4.nH_2O$	dil	25	1	1	1			1		1
- AQUEOUS SOLUTION			60	2	1	1					
			100								
	$Al_2(SO_4)_3.K_2SO_4.nH_2O$	sat	25		1	1	1		1		
			60	2	1	1					
			100								
ALUMINIUM	$AlCl_3$	all	25	1	1		1	1	1	1	1
- CHLORIDE			60	1	1		1	1	2		

PIPE PRODUCTION DIAGRAM :-



High Pressure Upvc Fittings BS4346 (BS En 1452)



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