

Ideal For Hot & Cold Water Application





COMPANY PROFILE

Hari Om Polyplast

Flagship Brand : Worldflow

Hari Om Polyplast is a leading manufacturer of high-quality piping solutions in India. Under our flagship brand, **WorldFlow Pipes and Fittings**, we deliver a wide range of UPVC, CPVC, SWR, and COLLUMN pipes & FITTINGS designed for various industries, including plumbing, agriculture, and infrastructure. With a focus on innovation, sustainability, and customer satisfaction, our state-of-the-art manufacturing processes ensure superior quality and durability, making us a trusted choice for reliable piping solutions.

VISION STATEMENT

At Hari Om Polyplast, we aspire to be a global leader in providing cutting-edge, eco-friendly piping solutions that redefine industry standards for quality, innovation, and sustainability. Our vision is to create long-lasting, durable products that meet the diverse needs of customers across residential, industrial, and infrastructure sectors, ensuring efficient water management and seamless fluid transportation systems.

We are committed to leveraging advanced technology and sustainable practices to deliver products that not only exceed customer expectations but also contribute to the conservation of resources and environmental protection. By fostering a culture of continuous improvement and innovation, we aim to drive progress within the plumbing, agriculture, and construction industries, both locally and globally.

Our ultimate goal is to be the most trusted and preferred partner for piping solutions, recognized for our unwavering commitment to reliability, innovation, and customer satisfaction while making a positive impact on communities and the environment for future generations.



MANUFACTURING INFRASTRUCTURE

- Factory Layout & Machinery: Ensure the manufacturing unit is equipped with high-end machinery that supports the production of **WorldFlow Pipes and Fittings.**
- Warehousing and Inventory Management: An efficient warehouse layout for raw materials and finished goods. Implement an automated inventory management system to track stock levels, and raw material consumption, and forecast demand.
- Quality Control Laboratory: Set up an in-house lab for quality testing, ensuring every product meets industry standards.
- Sustainability and Waste Management: Integrate eco-friendly practices to manage waste during production and ensure energy-efficient operations.

DOMESTIC AND INTERNATIONAL REACH

Domestic Reach

- Wider Distribution Network
- Localized Marketing
- Government Projects
- Retail Expansion

International Reach

- Export Partnerships
- Global Certifications
- Trade Fairs & Exhibitions
- E-commerce for Global Buyers
- Localized Compliance

Trust Us By













CPVCPIPES & FITTINGS







INTRODUCTION

WorldFlow CPVC Pipes and Fittings are designed to provide efficient, reliable, and long-lasting solutions for hot and cold water applications. Manufactured using advanced Chlorinated Polyvinyl Chloride (CPVC) material, these products are known for their high thermal resistance, durability, and ability to withstand extreme temperatures and pressures. With compliance to Indian and international standards, our CPVC systems are ideal for both residential and commercial plumbing.

USE OF PRODUCTS

Residential Plumbing



Commercial Plumbing



Chemical Industry



Agriculture and Irrigation



PRODUCT SPCIFICATION

Density: Typically around 1.45-1.6 g/cm³.

Tensile Strength: Usually 60-70 MPa, providing high durability under load.

Flexural Strength: Approximately 100 MPa, indicating good resistance to bending.

Vicat Softening Point: Typically between 103-110°C, indicating the softening temperature under load.

Glass Transition Temperature (Tg): Ranges from 110-130°C, ensuring CPVC can handle high

temperatures in hot water and industrial applications.





CPVC Safety Tips

Temperature: Keep below 93°C.

Use Correct Adhesives: Only CPVC cement; 24-hour curing. **Avoid Open Flames:** Keep CPVC away from heat sources.

UV Protection: Cover or paint pipes for outdoor use.

Chemical Safety: Avoid contact with petroleum or harsh chemicals.

Support Pipes: Place supports every 3-5 feet.

Allow Expansion: Use loops in long runs.

Protective Gear: Wear gloves, goggles, and masks.



15778:

Table 2 Dimensions of Chlorinated Polyvinyl Chloride Pipes (Clauses 7,7.1, 7.1.2 and 7.1.2.1) All dimensions in millimetres.

S1 **Nominal** Nominal **Wall Thickness** Mean Outside Outside No. Size **Outside** Diameter **Daimeter** Diameter at Any Point **Class 1. SDR 11** Cais 2. SDR 135 Class 3. SDR 17 Min Max Min Max Min Max Min Max Min Max Avg. Avg. Avg. Max Max Max (2) (3) (4) (5) (6) (7) (8) (9) (10)(11)(12) (13)(14)(15) (16) (1) i) 15 15.9 15.8 16.0 15.8 16.0 2.2* 1.7* 2.2* 1.9* 1.4* 1.9* 20 22.2 22.1 22.3 22.0 22.4 2.5 2.0 2.5 1.7 ii) 2.2 2.2 25 28.6 28.5 28.7 28.4 28.8 3.1 2.6 3.1 2.1 2.6 iii) 2.6 iv) 32 34.9 34.8 35.0 34.7 35.1 3.7 3.2 3.7 3.1 2.6 3.1 v) 40 41.3 41.2 41.4 41.1 41.5 4.3 3.8 4.3 3.6 3.1 3.6 vi) 50 54.0 53.9 54.1 53.7 54.3 4.9 5.5 4.6 4.6 vii) 65 73.0 72.8 73.2 72.2 73.8 4.8 4.8 4.3 viii) 80 88.9 88.7 88.1 88.1 89.7 5.9 5.2 5.9 ix) 100 114.3 114.1 114.5 113.5 7.5 7.5 170.1 x) 150 168.3 168.3 168.6 166.5 11.1 9.9 11.1

NOTES

1 All dimensions with '.' are a funcion of SDR.

2 For CPVC pipes SDR is calculated by dividing the average outer diameter of the pipe in mm by the minimum wall thickness. in mm. If the wall thickness calculated by this formula is less than 152 mm, it shall be increased to 1.52 mm. The SDR values shall be rounded to the nearest 05





SDR - 11

CPVC PIPES WEIGHT LIST



INCH	ММ	WEIGHT PER PIPE	PACKING BUNDAL	LENGTH
1/2"	15	0.400 Kg.	75 Pipes	3 Mtr.
3/4"	20	0.620 Kg.	50 Pipes	3 Mtr.
1"	25	0.980 Kg.	30 Pipes	3 Mtr.
1 1/4"	32	1.480 Kg.	25 Pipes	3 Mtr.
11/2"	40	1.980 Kg.	15 Pipes	3 Mtr.
2"	50	3.230 Kg.	10 Pipes	3 Mtr.

INCH	ММ	WEIGHT PER PIPE	PACKING BUNDAL	LENGTH
1/2"	15	0.660 Kg.	75 Pipes	5 Mtr.
3/4"	20	1.080 Kg.	50 Pipes	5 Mtr.
1"	25	1.680 Kg.	30 Pipes	5 Mtr.
11/4"	32	2.480 Kg.	25 Pipes	5 Mtr.
11/2"	40	3.280 Kg.	15 Pipes	5 Mtr.
2"	50	5.380 Kg.	10 Pipes	5 Mtr.

SDR - 13.5

CPVC PIPES WEIGHT LIST



INCH	MM	WEIGHT PER PIPE	PACKING BUNDAL	LENGTH
1/2"	15	0.300 Kg.	75 Pipes	3 Mtr.
3/4"	20	0.530 Kg.	50 Pipes	3 Mtr.
1"	25	0.830 Kg.	30 Pipes	3 Mtr.
11/4"	32	1.280 Kg.	25 Pipes	3 Mtr.
11/2"	40	1.680 Kg.	15 Pipes	3 Mtr.
2"	50	2.880 Kg.	10 Pipes	3 Mtr.

INCH	ММ	WEIGHT PER PIPE	PACKING BUNDAL	LENGTH
1/2"	15	0.580 Kg.	75 Pipes	5 Mtr.
3/4"	20	0.900 Kg.	50 Pipes	5 Mtr.
1"	25	1.380 Kg.	30 Pipes	5 Mtr.
11/4"	32	2.140 Kg.	25 Pipes	5 Mtr.
11/2"	40	2.780 Kg.	15 Pipes	5 Mtr.
2"	50	4.780 Kg.	10 Pipes	5 Mtr.





CPVC SDR - 11 AS PER ASTM D2846

ELBOW



SIZE		PACKING
INCH	MM	1 ASKIITS
3/4"	15	40 X 16 = 640
1"	20	24 X 14 = 336
11/4"	25	15 X 13 = 195
1 ½"	32	8 X 14 = 112
1 × 3/4"	40	30 X 13 = 390
2"	50	05 X 10 = 50

TEE



SIZ	Έ	PACKING
INCH	ММ	1 AGMING
3/4"	15	30 X 15 = 450
1"	20	20 X 12 = 240
11/4"	25	10 X 13 = 130
1 ½"	32	5 X 16 = 80
1 × ³ ⁄ ₄ "	40	15 X 18 = 270
2"	50	4 X 10 = 40

COUPLER

SIZ	ZE	PACKING
INCH	MM	I AORINO
3/4"	15	60x18 = 1080
1"	20	30 X 16 = 480
11/4"	25	20 X 14 = 280
11/2"	32	10 X 18 = 180
2"	50	8 X 10 = 80

REDUCER



SIZE		PACKING
INCH	MM	1 AORINO
1"X ¾"	20	30 X 20 = 600
1" ½" X 1	25	20 X 18 = 360
2 X 1 1/4"	32	10 X 13 = 130
11/4" X 3/4"	40	30 X 14 = 420
1½" X 1½"	50	15 X 14 = 210

45* ELBOW

SIZ	ZE	PACKING
INCH	MM	1 AGRING
3/4"	20	50 X 16 = 800
1"	25	25 X 16 = 400
11/4"	32	20 X 13 = 260
1 ½"	40	10 X 15 = 150
2"	50	

END CAP



SIZE		PACKING
INCH	ММ	I AURINO
3/4"	20	100 X 16 = 1600
1"	25	50 X 17 = 850
11/4"	32	30 X 17 = 510
1 ½"	40	25 X 12 = 300
2"	50	





CPVC SDR - 11 AS PER ASTM D2846

UNION



SIZ	ZE	PACKING
INCH	MM	I AURINO
3/4"	20	25 X 16 = 400
1"	25	15 X 14 = 210
11/4"	32	10 X 14 = 140
1 ½"	40	5 X 20 = 100
2"	50	4 X 12 = 48

FTA



SIZ	ZE	PACKING
INCH	ММ	I Admito
3/4"	20	50 X 16 = 800
1"	25	25 X 16 = 400
1 ½"	32	15 X 16 = 240
1 ½"	40	10 X 16 = 160
2"	50	

MTA



SIZE		PACKING
INCH	MM	1 AORIITO
3/4"	20	50 X 18 = 900
1"	25	25 X 20 = 500
11/4"	32	15 X 20 = 300
1 ½"	40	15 X 14 = 210
2"	50	

R BUSH



SIZE		PACKING
INCH	ММ	1 AORINO
³ / ₄ " x 1"	20	60 X 22 = 1320
1½" x¾"	25	30 X 20 = 600
1½" x¾"	32	25 X 16 = 400
1 ½" x 1"	40	30 X 20 = 600
1 ½" x 1"	50	25 X 16 = 400
1½" × 1¼"		20 X 20 = 400

90* BEND



SIZE		PACKING
INCH	MM	Asimis
3/4"	20	30 X 8 = 240
1"	25	25 X 6 = 150
11/4"	32	
1 ½"	40	
2"	50	

STEP OVER BEND



SIZE		PACKING
INCH	MM	ASKIII
3/4"	20	30 X 7 = 210
1"	25	20 X 6 = 120
11/4"	32	
1 ½"	40	
2"	50	





CPVC SDR - 11 AS PER ASTM D2846

BALL VALVE



SIZE		PACKING
INCH	MM	I AUNITO
3/4"	20	185
1"	25	105
11/4"	32	72
11/2"	40	
2"	50	

CROSS TEE



SIZE		PACKING
INCH	ММ	I AUNITO
3/4"	20	25 X 10 = 250
1"	25	10 X 15 = 150
11/4"	32	
11/2"	40	
2"	50	

NAIL CLAIMP



SIZE		PACKING
INCH	ММ	I AORINO
3/4"	20	
1"	25	
11/4"	32	
11/2"	40	
2"	50	

T N SOCKET



SIZ	ZE	PACKING
INCH	ММ	I AUNITO
3/4"	20	20 X 20 = 400
1"	25	15 x 17 = 255
11/4"	32	10 X 15 = 150
1 ½"	40	5 X 16 = 80
2"	50	5 X 12 = 60

END PLUG



SIZE		PACKING
INCH	ММ	1 Aortino
3/4"	20	
1"	25	
11/4"	32	
11/2"	40	
2"	50	

METAL CLAIMP



SIZE		PACKING
INCH	ММ	I AUNINU
3/4"	20	
1"	25	
11/4"	32	
1 ½"	40	
2"	50	





CPVC SDR - 11 AS PER ASTM D2846

BRASS FTA



SIZE		PACKING
INCH	MM	I AORINO
3/4"	20	30 X 9 = 270
1"	25	20 X 7 = 140
3/4" X 1/2"	32	40 X 8 = 320
1 X ½"	40	30 X 8 = 240
1 X ¾"	50	25 X 9 = 225

BRASS TEE



SIZ	ZE	PACKING
INCH	ММ	I AORINO
³ ⁄ ₄ " x ¹ ⁄ ₂ "	20	20 X 9 = 180
3/4"	25	15 X 8 = 120
1 X ½"	32	15 X 7 = 105
1 X ³ / ₄ "	40	10 X 8 = 80
1"	50	20 X 8 = 160

VALVE MIXER



SIZE		PACKING
INCH	MM	I AORINO
3/4" X 1/2"	20	52
1 X ½"	25	40

Consil Walve

SIZE		PACKING
INCH	MM	1 ASKIIIO
3/4"	20	36
1"	25	

BRASS MTA



SIZ	ZE	PACKING
INCH	ММ	I AORINO
3/4"	20	25 X 8 = 200
1"	25	15 X 8 = 120
3/4" X 1/2"	32	40 X 7 = 280
1 X ½"	40	30 X 7 = 210
1 X 3/4"	50	15 X 8 = 120

BRASS ELBOW



SIZI	Ε	PACKING
INCH	MM	TAORINO
3/4" X 1/2"	20	30 X 8 = 240
3/4"	25	25 X 8 = 200
1 X ½"	32	25 X 6 = 150
1 X ¾"	40	20 X 7 = 140
1"	50	15 X 7 = 105





CPVC SDR - 11 AS PER ASTM D2846

C-PVC SOLVENT



SIZE	PACKING
59 ML	48 X 2 = 96
118 ML	24 X 2 = 48

HEXAGON FTA



SIZE		PACKING
INCH	ММ	1 ASKIIIO
³¼" x ½"	20	20 X 15
1" X 1/2"	25	20 X 15

THREAD



SIZE		PACKING
INCH	ММ	I AORINO
3/4"	20	20 x 10 = 200
1"	25	25 x 15 = 375
11/4"	32	
11/2"	40	
2"	50	

HEXGON MTA



SIZE		PACKING
INCH	ММ	1 ASKIIIO
³ ⁄ ₄ " x ¹ ⁄ ₂ "	20	20 x15
1"x ½"	25	20 x15

NRV UNION



SIZ	ZE	PACKING
INCH	ММ	I AUNINU
3/4"	20	7 X 12 = 84
1"	25	7 X 10 = 70
1/4"	32	
1/2"	40	
2"	50	

Terms And Conditions:

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- 2. Prices Are Ex-Factory.
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FITTINGS RATE

Plain CPVC Fitt	ngs:
Brass CPVC Fit	ings:

PIPE RATE

SI CPVC Pipe:	
Per Kg. Rate:	



SWRPIPES & FITTINGS







PRODUCT INTRODUCTION

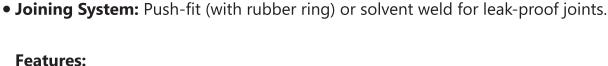
WorldFlow SWR Pipes and Fittings are engineered for efficient drainage of soil, waste, and rainwater. Made from premium-quality uPVC, they provide a durable, corrosion-resistant solution for residential, commercial, and industrial plumbing systems. With easy installation and leak-proof performance, they ensure a hygienic and eco-friendly drainage experience.

PRODUCT SPACIFICATION

- Material: High-grade uPVC, non-corrosive, and recyclable.
- **Standards:** IS 13592 (Pipes), IS 14735 (Fittings).
- Sizes: Outer diameters from 40 mm to 200 mm.

Types:

- Type A: For venting applications.
- Type B: For soil and waste drainage.
- Lengths: Available in 3m and 6m with socketed ends.



Smooth interiors to prevent clogging.

• UV-stabilized for outdoor durability.









USE OF PRODUCT

- Rainwater Drainage:
- Ventilation:
- Rainwater Harvesting:
- Commercial & Industrial Applications:

SAFTY TIPS

- **Installation:** Ensure proper alignment of pipes and fittings to prevent leaks.
- Handling: Avoid dragging pipes on rough surfaces to prevent scratches or damage.
- Joining: Use appropriate solvent cement or push-fit rings for secure joints.
- Load Management: Avoid stacking pipes and fittings beyond recommended limits.
- **Temperature Range:** Use within the recommended range (-5°C to 60°C) for optimal performance.
- Regular Maintenance: Periodically inspect and clean the system to ensure proper functionality







TYPE-A



SIZE IN MM	Weight Per Pipe (KG)	Price in (10 Feet)
75	1.800	321.48/-
90	3.400	606.48/-
110	7.450	1368.80/-

Worldflow & Pers a Pitterson

TYPE - B

SIZE IN MM	Weight Per Pipe (KG)	Price in (10 Feet)
75	_	440.80/-
90	-	_
110	-	882/-

PIPES (SELFIT) AS PER IS: 13592:2013



SIZE IN MM	Weight Per Pipe (KG)	Price in (10 Feet)
75	-	314.63/-
90	-	591.67/-
110	-	-



SWR-11 AS PER ASTM D2846

BEND



SIZE MM	PACKING	MRP
75	60	50.99/-
90	64	-
110	40	100.22/-

BEND 45*



SIZE MM	PACKING	MRP
75	80	41.81/-
90	100	-
110	56	82.66/-

DOOR SINGLE TEE



SIZE MM	PACKING	MRP
75	50	86.73/-
90	36	-
110	24	169.60/-

CLEANASING PIPE WITH DOOR



SIZE MM	PACKING	MRP
75	82	-
90		
110	30	135.45/-

DOOR BEND



SIZE MM	PACKING	MRP
75	48	61.80/-
90	56	-
110	32	124.95/-

SINGLE TEE



SIZE MM	PACKING	MRP
75	72	71.90/-
90	45	-
110	24	119.54/-

COUPLER



SIZE MM	PACKING	MRP
75	100	38.76/-
90	100	-
110	68	71.52/-

SINGLE Y



SIZE MM	PACKING	MRP
75	30	113.40/-
90		
110	20	179.55/-





SWR-11 AS PER ASTM D2846

DOOR Y



SIZE MM	PACKING	MRP
75	25	-
90		
110	16	-

REDUCER



SIZE	PACKING	MRP
ММ		
110 X 75	60	66.15/-

REDUCER TEE



SIZE MM	PACKING	MRP
110 X75	30	123.90/-
90 X 75	45	-

REDUCING TEE WITH DOOR



SIZE MM	PACKING	MRP
100 X 75	24	171.84/-
90 X 75		

P-TRAPS



SIZE MM	PACKING	MRP
110 X 110	17	201.60/-
110 X 125	14	208.95/-

Q-TRAPS



SIZE MM	PACKING	MRP
110 X 110	12	216.30/-
110 X 125		

S-TRAPS



SIZE MM	PACKING	MRP
110 X 110	12	249.90/-
110 X 125	12	255.15/-

NAIL CLAIMP METAL



SIZE MM	PACKING	MRP
75		
110		







SWR-11 AS PER ASTM D2846

VENT COWL



SIZE MM	PACKING	MRP
75	348	16.80/-
110	144	26.25/-

DOOR CAP



SIZE MM	PACKING	MRP
75	400	16.54/-
110	200	33.70/-

JALI



SIZE MM	PACKING	MRP
75	-	-
110	400	17.33/-

RUBBER RING



SIZE MM	PACKING	MRP
75	1900	4.99/-
110	1000	6.57/-

PP RING



SIZE MM	PACKING	MRP
75	-	-
110	-	-

PIPE CLIP



SIZE MM	PACKING	MRP
110 X 110	12	216.30/-
110 X 125		

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FITTINGS RATE

Plain SWR Selfit:
Brass SWR Wilfit:

PIPE RATE

ISI SWR Pipe: Per Kg. Rate:



uPVCCOLLUMN PIPES







Product Description

Material: Unplasticized Polyvinyl Chloride (uPVC).

Usage: Designed for submersible pump applications and high-pressure water lifting.

Durability: Lightweight, corrosion-resistant, and long-lasting.

Technical Features

High Tensile Strength: Ensures resistance against high hydraulic pressure.

Square Threads: Easy and secure assembly, reducing installation time.

Anti-Corrosive Properties: Resists scaling and corrosion for long-term durability.

Food Grade Material: Ensures safe drinking water transmission.

Key Benefits

Lightweight yet strong, reducing transportation and installation costs.

Energy-efficient due to smooth inner surfaces, minimizing friction loss.

Compatible with different pump types (submersible and jet).

Environmentally friendly and recyclable.

Certifications and Compliance

ISO 9001:2015 QUALITY STANDARDS.

CE MARKING FOR EXPORT COMPLIANCE.

AS FOR ISI STANDARD

Applications

Water well systems.

Irrigation and agricultural use.

Industrial and residential water supply.

Geothermal heat pump systems.





Accessories

Rubber Rings: High-quality sealing rings for leak-proof connections.

Adapters and Couplings: For easy jointing and integration.

Metal Reinforced Fittings: Enhanced durability under stress.







OD				077 P//0			
INCH	ММ	OVER COUPLING MM	PIPE TYPE	STD. PKG. (NOS.)	WEIGHT PER 3MTR.	SAFE ALLOWABLIE PRESSURE (kg/cm²)	
1"	33.20	46.10	ECO MEDIUM STANDARD	40 40 40	0.950 1.100 1.550	12 15 30	
11/4"	42.20	55.00	ECO MEDIUM STANDARD	30 30 30	1.300 1.600 2.000	12 15 25	
1½"	48.20	62.00	ECO MEDIUM STANDARD HEAVY SUPER HEAVY	25 25 25 25 25	1.650 2.000 2.750 3.450 4.300	15 15 25 35	
2"	60.10	79.00	ECO MEDIUM STANDARD HEAVY SUPER HEAVY	15 15 15 15 15	2.400 2.900 3.800 4.700 6.000	14 20 28	
21/4"	63.00	88.00	HEAVY SUPER HEAVY	10 10	5.400 6.500	25	
2½″	75.00	95.00	MEDIUM STANDARD HEAVY SUPER HEAVY	10 10 10 10	3.650 5.000 7.000 8.800	10 16 26 11	
3"	75.00	114.00	MEDIUM STANDARD HEAVY SUPER HEAVY	5 5 5 5	5.000 6.800 9.200 12.800	11 17 26	
31/2"	100.00		STANDARD HEAVY	5 5	7.200 11.500		
4"	113.00	136.00	MEDIUM STANDARD HEAVY SUPER HEAVY	5 5 5 5	7.500 10.100 15.150 20.800	10 15 26	
5"	140.00	180.00	STANDARD HEAVY SUPER HEAVY		16.700 27.720 32.660	16 16	
6"	165.00	207.00	HEAVY		32.000	10	

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ISI UPVC Collumn Pipe:

Per Kg. Rate:







PIPES & FITTINGS

MFG BY:-

WORLDFLOW PIPES & FITTINGES



Khodal Ind. Area, Plot No. 13, 8B National Highway, Virva, Rajkot. (Gujarat)













