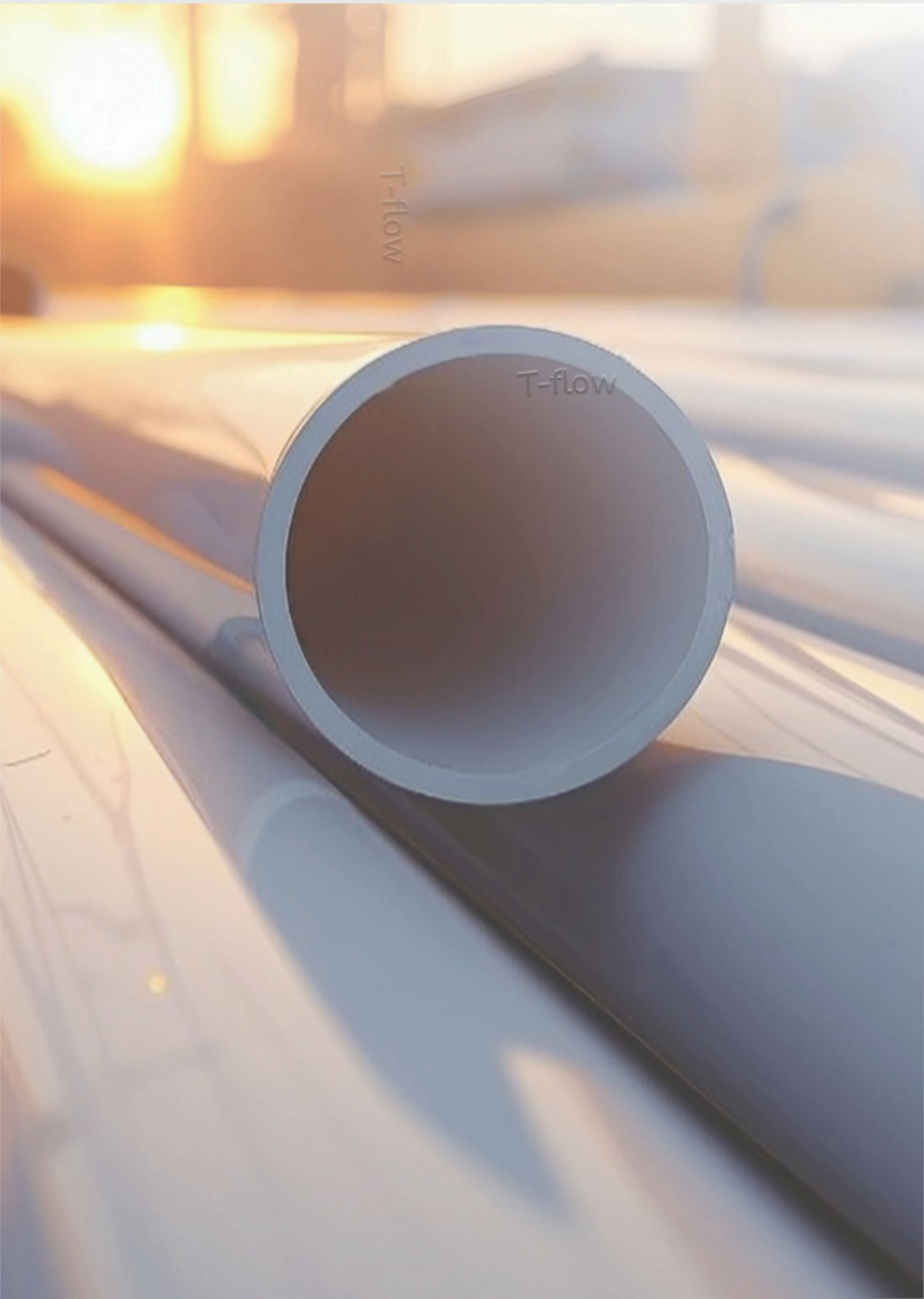


T-FLOW PIPING AND FITTINGS

TECHNICAL GUIDE


T-flow
T-flow

Abbreviations

DIN	– Deutsches Institut für Normung (German Institute for Standardization)
GS	- Galvanized Steel
HDPE	– High-Density Polyethylene
ISO	– International Organization for Standardization
MM	- Millimetre
PN	- Nominal Pressure
PPR	– Polypropylene Random Copolymer
T- FLOW	- True Flow
UPVC	– Unplasticized Polyvinyl Chloride
UV	- Ultraviolet

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About T-Flow

Welcome to **T-Flow** your trusted solution for high-performance plastic piping and fittings. Designed for modern infrastructure, T-Flow offers UPVC, PPR, and HDPE pipes, fiitings and accessories, compliant to DIN 8077- 8078, DIN 8062, ISO 15874:2013, ISO 1452 : 2009, ISO 3633 : 2002, ISO 4435 : 2003 and ISO 4427 : 2019 standards.

Product Line

- UPVC Pipes & Fittings (Solvent-Weld) – Ideal for durable drainage systems
- PPR Pipes & Fittings – Perfect for hot and cold water supply
- HDPE Pipes & Fittings – Reliable for water supply , irrigation, and municipal pipelines.

T-Flow's UPVC products feature solvent-weld technology, ensuring seamless, leak-proof connections with quick installation and low maintenance. Our PPR and HDPE pipes offer superior temperature resistance, flexibility, and corrosion protection making them perfect for efficient water supply systems.

Built on German precision and global standards, **T-Flow** ensures every project flows smoothly.







The T-Flow Plastic Systems Revolution and the Construction Industry!

The plastic industry is a cornerstone of modern economy, playing a pivotal role in production of versatile and adaptable materials essential across wide array of sectors, from packaging, household appliance to the construction. The industry continues with advancements in sustainable and eco-friendly materials. In construction sector among various usages, plastic materials, particularly PPR, HDPE, and UPVC, are indispensable materials in the plumbing systems used for piping, and fittings, due to their resistance to corrosion, chemical reactions, and wear.

- PPR – Polypropylene Random Copolymer
- HDPE – High Density Polyethylene
- UPVC – unplasticized Polyvinyl Chloride

Using the cutting-edge technologies and methods, our **T-Flow** pipes are ideal for projects and also technicians made lightweight reducing transportation cost, less labor costs during installation, yet providing superior quality at reasonable price. Due to this, T-Flow becomes the best choice for customers for its economic benefits, extended durability and reduced maintenance and repairs expenses.

Besides its economic advantages, during production, **T-Flow** ensure the reduction of carbon footprint, water and energy conservation and other associated environmental impacts.

At **T-Flow** continuous research and development is among the core value. Because, we consider special attention for our customers many innovative solutions have been taken to the pipes and fitting systems contributing to the whole plumbing sector. T-Flow achieved construction process simplicity allowing for faster project delivery and enhanced efficiency up to minimal frictional head loss due to internal surface roughness that could in turn has reduced long-term energy consumption in pumping operations. *To mention, one is our re-renovation on the Floor gully*, H fitting and outdoor PPR Pipe.

We promise, to stive for the advancements in the plastic industry reshaping the construction and plumbing landscapes. Provide safer and more reliable solutions for modern infrastructure.

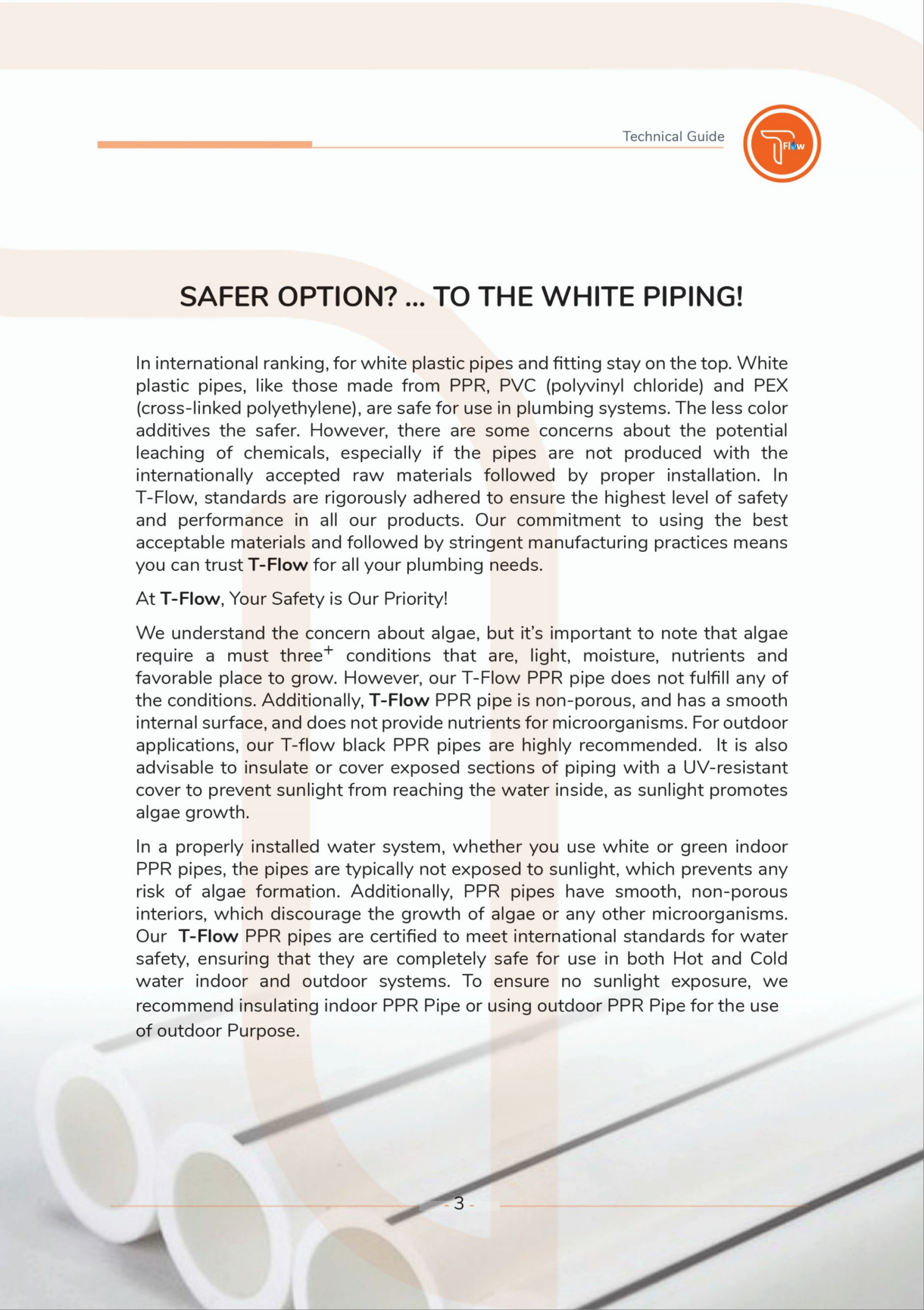
SAFER OPTION? ... TO THE WHITE PIPING!

In international ranking, for white plastic pipes and fitting stay on the top. White plastic pipes, like those made from PPR, PVC (polyvinyl chloride) and PEX (cross-linked polyethylene), are safe for use in plumbing systems. The less color additives the safer. However, there are some concerns about the potential leaching of chemicals, especially if the pipes are not produced with the internationally accepted raw materials followed by proper installation. In T-Flow, standards are rigorously adhered to ensure the highest level of safety and performance in all our products. Our commitment to using the best acceptable materials and followed by stringent manufacturing practices means you can trust **T-Flow** for all your plumbing needs.

At **T-Flow**, Your Safety is Our Priority!

We understand the concern about algae, but it's important to note that algae require a must three^{+} conditions that are, light, moisture, nutrients and favorable place to grow. However, our T-Flow PPR pipe does not fulfill any of the conditions. Additionally, **T-Flow** PPR pipe is non-porous, and has a smooth internal surface, and does not provide nutrients for microorganisms. For outdoor applications, our T-flow black PPR pipes are highly recommended. It is also advisable to insulate or cover exposed sections of piping with a UV-resistant cover to prevent sunlight from reaching the water inside, as sunlight promotes algae growth.

In a properly installed water system, whether you use white or green indoor PPR pipes, the pipes are typically not exposed to sunlight, which prevents any risk of algae formation. Additionally, PPR pipes have smooth, non-porous interiors, which discourage the growth of algae or any other microorganisms. Our **T-Flow** PPR pipes are certified to meet international standards for water safety, ensuring that they are completely safe for use in both Hot and Cold water indoor and outdoor systems. To ensure no sunlight exposure, we recommend insulating indoor PPR Pipe or using outdoor PPR Pipe for the use of outdoor Purpose.



SPECIAL FEATURES OF T-FLOW WHITE PIPING SYSTEM!

1. **No Pigment** – Where health and safety are the key concern especially for drinking water system, white PPR pipes are impeccable solution offering pigment-free, potentially making them an even safer option for carrying drinking water.

2. **Thermal property** – This attribute reflects heat, helping to reduce thermal expansion and maintain water quality. By reflecting sunlight, these white pipes prevent excessive heat buildup within the system, which could otherwise lead to undesirable changes in water temperature or pressure.

3. **Less Toxic Chemical Additives** – the concern about potential health risks from leaching toxic chemicals reacting during hot water conveyance is eliminated.

4. **Quality Assurance** – Our T-Flow piping system and fittings meet international standards for quality and safety, offering reliability and peace of mind for contractors and homeowners alike. This makes them ideal for plumbing systems that supply of drinking water.
5. **Durability** – White pipes like our T-Flow pipe and fittings naturally offer excellent resistance to corrosion, chemical agents, and high temperatures, ensuring a lifespan of more than 50 years under proper conditions.
6. **Aesthetic Appeal** – White pipes are also ideal for indoor plumbing. Especially, the PPR piping because they blend seamlessly with light-colored walls and ceilings, making them perfect for visible installations in residential, commercial, and office spaces.
7. **Easier Leak Detection** – In comparison to darker pipes, leaks or other issues in white pipes can be more easily detected during visual inspections, providing an added layer of security and maintenance convenience.
8. **Cost-Effective** – Our white T-Flow piping system is affordable solution for both homeowners and businesses offering high quality at competitive pricing.

9. **Sustainability** – From environmental perspective, white piping systems are recyclable and environmentally friendly. In our manufacturing process, we strictly follow international and nation standards from raw material selection to storage.





Application Range of T-Flow Piping System

Plastic piping systems, particularly UPVC, PPR, and HDPE, have revolutionized the construction industry by offering sustainable solutions in drainage and water supply networks. Their versatility, durability, and eco-friendly attributes make them highly preferable over traditional materials like metal or concrete pipes. Particularly, our T-Flow Pipes and Fitting systems shares an integral part on the modern plumbing to various sectors, including residential, commercial, and industrial applications water supply, and fluid management.

1. Residential Applications

In residential buildings, T-Flow piping systems play a critical role in potable water supply, drainage, and gardening. Potable water systems through T-Flow PPR pipes are preferred for indoor and outdoor plumbing systems that transport drinking water due to their smooth inner surfaces, which resist mineral scaling, algae buildup, and odors. Additionally, T-Flow PPR pipes support both cold and hot water supplies, making them suitable for bathrooms, kitchens, and water heaters.

T-Flow UPVC waste and drainage pipes handle domestic waste and drainage with smooth interiors that reduce clogging and blockages, ensuring a steady flow in sinks, toilets, and showers efficiently. They are lightweight and easy to install. T-Flow's HDPE Garden Irrigation pipe systems are popular for garden irrigation and landscaping because of their flexibility and resistance to UV exposure. These pipes maintain consistent water flow, even in harsh outdoor conditions, making them ideal for sprinklers and drip irrigation.









2. Commercial Applications

In commercial buildings such as hotels, hospitals, office complexes, and Malls, T-Flow piping systems provide robust solutions for complex water management and heating systems.

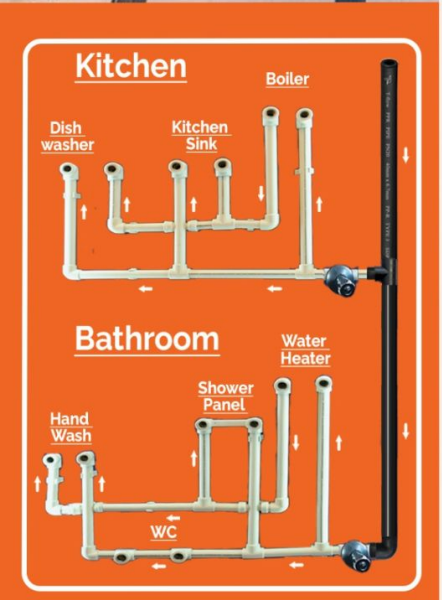
- **Centralized Water Distribution**: T-Flow's PPR pipes are commonly used in hotels and offices to supply both hot and cold water. Their durability ensures uninterrupted service in high-demand areas such as kitchens, bathrooms, and HVAC systems. Leak-proof heat-welding connections also prevent water losses, ensuring efficiency.
- **Drainage and Sewage Management**: T-Flow UPVC pipes are effective in handling wastewater and sewage without blockages for multi-story and mixed-use buildings. They are lightweight, making installation faster and easier, especially in tight spaces.

3. Industrial Applications

In High-Pressure fluid transportation and managing wastewater, T-Flow piping systems are the best choice essential for industrial settings. T-Flow HDPE pipes are extensively used in industries like agriculture, mining, and manufacturing for transporting water over long distances. T-Flow's HDPE Pipes are made flexible to adapt to ground movements, while their resistance to chemicals and UV radiation ensures a long lifespan in demanding environments.

- **Chemical and Hot Fluid Transport**: PPR pipes are used to transport chemicals, hot fluids, and even compressed air in industries like pharmaceuticals, food processing, and chemical plants. These pipes are resistant to abrasion, do not react with transported substances, and ensure hygienic operations.

In industrial operations wastewater management needs a reliable system design with quality and special attention UPVC pipe materials. Our T-Flow UPVC is the top-tier system solution to rely on to handle chemical residue, corrosive liquids and industrial effluents effectively. Their non-scaling surfaces reduce maintenance needs and ensure reliable performance in challenging conditions.





Water-Supply Series:

PPR and HDPE Pipes and Fittings



PPR Pipe - PN20 (Indoor)

Brand: T-Flow
Material: Polypropylene - Random (PP-R)
Color : White
Standard: DIN 8077 - 8078 (ISO 15874 - 2 : 2013)

Size(mm) x Thickness(mm)

20 x 3.4 | 25 x 4.2 | 32 x 5.4 | 40 x 6.7 | 50 x 8.3 | 63 x 10.5
75 x 12.5 | 90 x 15 | 110 x 18.3



PPR Pipe - Pn20(Outdoor)

Brand: T-Flow
Material: Polypropylene - Random (PP-R)
Color : Black
Standard: DIN 8077 - 8078 (ISO 15874 - 2 : 2013)

Size(mm) x Thickness(mm)

20 x 3.4 | 25 x 4.2 | 32 x 5.4 | 40 x 6.7 | 50 x 8.3 | 63 x 10.5
75 x 12.5 | 90 x 15 | 110 x 18.3



PPR Pipe With Aluminium, Standard - PN25

Material: Polypropylene - Random (PP-R)
Color : White
Standard: DIN 8077 - 8078 (ISO 15874 - 2 : 2013)

Size(mm) x Thickness(mm)

20 x 3.4 | 25 x 4.2 | 32 x 5.4 | 40 x 6.7 | 50 x 8.3 | 63 x 10.5



PPR Pipe With Aluminum, UV Covered (Outdoor)

Material: Polypropylene - Random (PP-R)
Color : Black
Standard: DIN 8077 - 8078 (ISO 15874 - 2 : 2013)

Size(mm)

20 | 25 | 32 | 40 | 50 | 63



End Plug- PN25

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)

1/2" | 3/4"



HDPE Pipe - PE 100

Brand: T-Flow
Material: High Density Polyethylene - PE 100
Color : Black
Standard: DIN 8074 (ISO 4427 - 2 : 2019)

Size(mm) x Thickness(mm)

PN10 - 32x2.0 | 40x2.4 | 50x3 | 63x3.8 | 75x4.5 | 90x5.4 | 110x6.6mm
PN16 - 20x2 | 25x2.3 | 32x3 | 40x3.7 | 50x4.6 | 63x5.8 | 75x6.8mm
90x8.2 | 110x10.0



Elbow 90° - PN 25

Brand: T-Flow
Material: Polypropylene - Random (PP-R)
Color : White
Standard: DIN 8077 - 8078 (ISO 15874 - 3 : 2013)

Size(mm)

20 | 25 | 32 | 40 | 50 | 63



Elbow 90°- PN 25 (Outdoor)

Brand: T-Flow
Material: Polypropylene - Random (PP-R)
Color : Black
Standard: DIN 8077 - 8078 (ISO 15874 - 3 : 2013)

Size(mm)

25 | 32 | 40 | 50 | 63



Tee - PN 25

Brand: T-Flow
Material: Polypropylene - Random (PP-R)
Color : White
Standard: DIN 8077 - 8078 (ISO 15874 - 3 : 2013)

Size(mm)

20 | 25 | 32 | 40 | 50 | 63



Tee - PN 25 (Outdoor)

Brand: T-Flow
Material: Polypropylene - Random (PP-R)
Color : Black
Standard: DIN 8077 - 8078 (ISO 15874 - 3 : 2013)

Size(mm)

25 | 32 | 40 | 50 | 63



Reducer Straight - PN25

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)

25-20 32-20 32-25 40-20 40-25 40-32
50-20 50-25 50-32 50-40 63-20 63-25
63-32 63-40 63-50



Reducer Straight - PN25 (Outdoor)

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: Black
Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)

32-25 40-32 50-40 63-50



Socket - PN25

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)

20 25 32 40 50 63



Socket - PN25 (Outdoor)

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: Black
Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)

25 32 40 50 63



C-Cross - PN 25

Brand: T-Flow
Material: Polypropylene - Random (PP-R)
Color : White
Standard: DIN 8077 - 8078 (ISO 15874 - 3 : 2013)

Size(mm)

20 25 32



C-Cross - PN 25 (Outdoor)

Brand: T-Flow
Material: Polypropylene - Random (PP-R)
Color : Black
Standard: DIN 8077 - 8078 (ISO 15874 - 3 : 2013)

Size(mm)

25 32



Female Elbow - PN 25

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)

20x1/2" 25x1/2" 25x3/4"



Female Elbow - PN 25 (Outdoor)

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: Black
Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)

25x1/2" 25x3/4"



Male Elbow - PN 25

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)

20x1/2" 25x1/2" 25x3/4"



Male Elbow - PN 25 (Outdoor)

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: Black
Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)

25x1/2" 25x3/4"

Double Female Elbow -PN 25



Brand: T-flow Material: Polypropylene-Random (PP-R)
Color: White Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)
25x1/2"

Double Female Elbow -PN 25 (Outdoor)



Brand: T-flow Material: Polypropylene-Random (PP-R)
Color: Black Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)
25x1/2"

Female Tee - PN25



Brand: T-flow Material: Polypropylene-Random (PP-R)
Color: White Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)
20x1/2" 25x1/2" 25x3/4"

Female Tee - PN25 (Outdoor)



Brand: T-flow Material: Polypropylene-Random (PP-R)
Color: Black Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)
25x1/2" 25x3/4"

Male Tee - PN25



Brand: T-flow Material: Polypropylene-Random (PP-R)
Color: White Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)
20x1/2" 25x1/2" 25x3/4"

Male Tee - PN25 (Outdoor)



Brand: T-flow Material: Polypropylene-Random (PP-R)
Color: Black Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)
25x1/2" 25x3/4"

Female Adaptor - PN25



Brand: T-flow Material: Polypropylene-Random (PP-R)
Color: White Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)
20x1/2" 25x1/2" 25x3/4" 32x1" 40x1 1/4" 50x1 1/2" 63x2"

Female Adaptor - PN25 (Outdoor)



Brand: T-flow Material: Polypropylene-Random (PP-R)
Color: Black Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)
25x1/2" 25x3/4" 32x1" 40x1 1/4" 50x1 1/2" 63x2"

Male Adaptor - PN25



Brand: T-flow Material: Polypropylene-Random (PP-R)
Color: White Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)
20x1/2" 25x1/2" 25x3/4" 32x1" 40x1 1/4" 50x1 1/2" 63x2"

Male Adaptor - PN25 (Outdoor)



Brand: T-flow Material: Polypropylene-Random (PP-R)
Color: Black Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)
25x1/2" 25x3/4" 32x1" 40x1 1/4" 50x1 1/2" 63x2"



Chrome Valve - PN 25

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874:2013)

Size(mm)
20 25 32



Chrome Valve - PN 25(Outdoor)

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: Black
Standard: DIN 8077-8078 (ISO15874:2013)

Size(mm)
25 32



Concealed Valve - PN 25

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874:2013)

Size(mm)
20 25 32



Concealed Valve - PN 25(Outdoor)

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: Black
Standard: DIN 8077-8078 (ISO15874:2013)

Size(mm)
25 32



PPR Gate Valve - PN 25

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874:2013)

Size(mm)
25 32 40 50 63



PPR Gate Valve - PN 25 (Outdoor)

Brand: T-flow
Material: Polypropylene-Random (PP-R)
Color: Black
Standard: DIN 8077-8078 (ISO15874:2013)

Size(mm)
25 32 40 50 63



Reducing Tee - PN 25

Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)
25-20-25 32-20-32 32-25-32 40-20-40 40-25-40 40-32-40
50-20-50 50-25-50 50-32-50 50-40-50 63-20-63 63-25-63
63-32-63 63-40-63 63-50-63



Cross Tee - PN25

Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)
32 40 50



PPR Ball Valve - PN 25

Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874:2013)

Size(mm)
25 32 40 50 63



Union - PN25

Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874:2013)

Size(mm)
20 25 32 40 50 63



Female Union - PN25

Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)		
25x3/4"	32x1"	40x1 1/4"



Male Union - PN25

Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874-3:2013)

Size(mm)		
25x3/4"	32x1"	40x1 1/4"



Angle Valve

Material: Chrome plated Metal

Size(mm)
1/2"



PPR Strainer - PN 25

Material: Polypropylene-Random (PP-R)
Color: White
Standard: DIN 8077-8078 (ISO15874:2013)

Size(mm)	
25	32



Bronze Gate Valve

Material: Bronze

Size(mm)		
1/2"	3/4"	1"



Water Ball Valve

Material: Brass

Size(mm)		
1/2"	3/4"	1"



Vertical Check Valve

Material: Bronze

Size(mm)		
1/2"	3/4"	1"



Float Valve

Material: Bronze

Size(mm)			
1/2"	3/4"	1"	1 1/4"



Tanker Nipples

Material: Bronze

Size(mm)		
1/2"	3/4"	1"



Nipples

Material: Brass

Size(mm)		
1/2"	3/4"	1"



C-Clamp

Brand: T-flow

Material: Polypropylene-Random (PP-R)

Color: White

Size(mm)
20 25 32 40

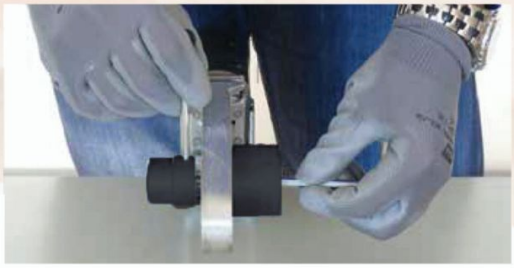
PPR - Welding Machine



Size(mm)
20 25 32 40 50 63



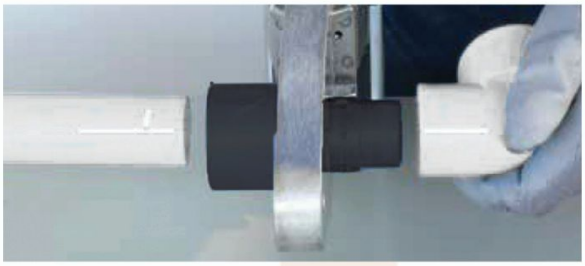
Size(mm)
75 90 110



1. Prepare the Welding machine
Assemble the die pairs on the cold plate and connect the welder to the power.



2. Measuring and trimming
Cut the pipe perpendicularly to its axis using the suitable pipe cutter.



3. Heating and welding
Mark a longitudinal sign as a reference on the external surfaces of the pipe and fitting to avoid turning the components. Consider diameter, pipe insertion depth, heating time, fusion time and time prior to testing.

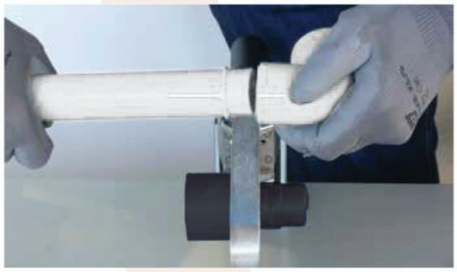


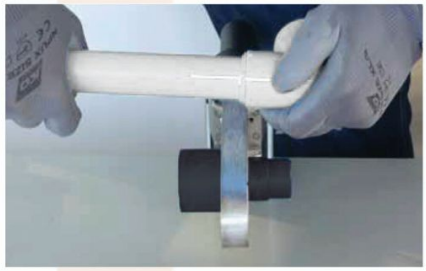
After checking the surface temperature of the die pairs, insert the pipe inside the female die pair without rotating it and the fitting into the male die pair up to the sign previously marked for the heating time.

Tips!!

Pipe Dia. (mm)	Welding Depth (mm)	Heating Time (sec)	Welding Time (sec)	Cooling Time (sec)
20	14.5	6	4	2
25	16.0	7	4	2
32	18.0	8	6	4
40	20.5	12	6	4
50	23.5	18	6	4
63	27.0	24	8	6
75	30.0	30	8	6

4. welding
After the heating time, quickly remove the elements from the die pairs and insert them one inside the other, within the welding time, until you reach the insertion depth previously marked.







1. Cut the pipe, square. Remove the nut and split ring. Reposition nut, bush and o-ring on pipe 2 diameters back. Lubricate pipe and o-ring.



2. Push the pipe fully into the fitting body until stopped by the internal stop. Push the o-ring and plastic bush forward against the fitting. They will not enter the body of the fitting.



3. Tighten nut to push the bush and o-ring right into the fitting until the bush is flush with fitting mouth.



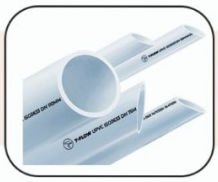
4. Fully unscrew nut and pull back along pipe.



5. Open split ring and place on pipe with lugs touching bush. Reuse split rings only twice, blunt rings will not bite into pipe.



6. Firmly tighten with spanner. Over tightening can cause blow outs.



UPVC Pipe Drainage Series

Brand: T-Flow | Material: Polyvinyl Chloride (Unplasticized)

Color : White | Standard: ISO 3633 : 2002

Size (mm) x Thickness (mm)				
50 x 3	75 x 3	110 x 3.2	160 x 3.2	200x4

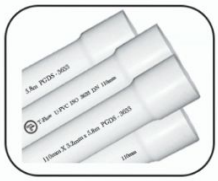


UPVC Pipe Drainage Series

Brand: T-Flow | Material: Polyvinyl Chloride (Unplasticized)

Color : White | Standard: ISO 4435 : 2003

Size		
110	160	200



UPVC Pipe Drainage Series - Bell End

Brand: T-Flow | Material: Polyvinyl Chloride (Unplasticized)

Color : White | Standard: ISO 3633 : 2002, ISO 4435 : 2003

Size (mm)				
50	75	110	160	200



UPVC Pipe Drainage Series - Slotted

Brand: T-Flow | Material: Polyvinyl Chloride (Unplasticized)

Color : White | Standard: ISO 3633 : 2002, ISO 4435 : 2003

Size (mm)		
110	160	200

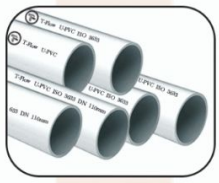


UPVC Pipe- Pressurized

Brand: T-Flow | Material: Polyvinyl Chloride (Unplasticized)

Color : White | Standard: ISO 1452 - 2 : 2009

Size (mm)				
50	75	110	160	200



UPVC Pipe- Rain Series

Brand: T-Flow | Material: Polyvinyl Chloride (Unplasticized)

Color : White

Size (mm) x Thickness (mm)	
75 x 2	110 x 2.2



Floor Gully

Brand: T-Flow | Material: Polyvinyl Chloride (Unplasticized)

Color : White | Standard: ISO 3633 : 2002

Size (mm)
110 -75-50 (3x)



H - Fitting

Brand: T-Flow | Material: Polyvinyl Chloride (Unplasticized)

Color : White | Standard: ISO 3633 : 2002

Size (mm)		
75 x 75	75 x 110	110x110



Elbow 90⁰

Brand: T-Flow | Material: Polyvinyl Chloride (Unplasticized)

Color : White | Standard: ISO 3633 : 2002

Size (mm)				
50	75	110	160	200



Elbow 90⁰ With Cleanout

Brand: T-Flow | Material: Polyvinyl Chloride (Unplasticized)

Color : White | Standard: ISO 3633 : 2002

Size (mm)			
50	75	110	160



Elbow 45⁰

Brand: T-Flow | Material: Polyvinyl Chloride (Unplasticized)

Color : White | Standard: ISO 3633 : 2002

Size (mm)				
50	75	110	160	200



Elbow 45⁰ With Cleanout

Material: Polyvinyl Chloride (Unplasticized)

Color : White | Standard: ISO 3633 : 2002

Size (mm)			
50	75	110	160



Equal Tee

Brand: T-Flow
Material: Polyvinyl Chloride (Unplasticized)
Color : White
Standard: ISO 3633 : 2002

Size (mm)
50 75 110 160 200



Reducing Tee

Material: Polyvinyl Chloride (Unplasticized)
Color : White
Standard: ISO 3633 : 2002

Size (mm)
75 x 50 110 x 50 110 x 75 160 x 110



Bottle Tee

Material: Polyvinyl Chloride (Unplasticized)
Color : White
Standard: ISO 3633 : 2002

Size (mm)
110 x110 x 50 110 x 110 x 75



Solid Cross

Material: Polyvinyl Chloride (Unplasticized)
Color : White
Standard: ISO 3633 : 2002

Size (mm)
75 x 50 110 x 50 110 x 75 110 x 110



Cross Tee

Material: Polyvinyl Chloride (Unplasticized)
Color : White
Standard: ISO 3633 : 2002

Size (mm)
50 75 110 160



Unequal Cross Tee

Material: Polyvinyl Chloride (Unplasticized)
Color : White
Standard: ISO 3633 : 2002

Size (mm)
110 x 50 110 x 75



45⁰ Equal Tee

Brand: T-Flow
Material: Polyvinyl Chloride (Unplasticized)
Color : White
Standard: ISO 3633 : 2002

Size (mm)
50 75 110 160 200



45⁰ Reducing Tee

Brand: T-Flow
Material: Polyvinyl Chloride (Unplasticized)
Color : White
Standard: ISO 3633 : 2002

Size (mm)
75 x 50 110 x 50 110 x 75 160 x 110



Y Cross

Material: Polyvinyl Chloride (Unplasticized)
Color : White
Standard: ISO 3633 : 2002

Size (mm)
50 75 110



Reducing Y Cross

Material: Polyvinyl Chloride (Unplasticized)
Color : White
Standard: ISO 3633 : 2002

Size (mm)
75 x 50 110 x 50 110 x 75



P- Trap

Brand: T-Flow
Material: Polyvinyl Chloride (Unplasticized)
Color : White
Standard: ISO 3633 : 2002

Size (mm)
50 75 110



P- Trap With Under Cleanout

Brand: T-Flow
Material: Polyvinyl Chloride (Unplasticized)
Color : White
Standard: ISO 3633 : 2002

Size (mm)
50 75 110



S- trap

Material: Polyvinyl Chloride (Unplasticized)

Color : White Standard: ISO 3633 : 2002

Size (mm)

50 75 110



S- trap With Cleanout

Material: Polyvinyl Chloride (Unplasticized)

Color : White Standard: ISO 3633 : 2002

Size (mm)

50 75 110



End plug

Brand: T-Flow Material: Polyvinyl Chloride (Unplasticized)

Color : White Standard: ISO 3633 : 2002

Size (mm)

50 75 110



End plug With Cleanout

Brand: T-Flow Material: Polyvinyl Chloride (Unplasticized)

Color : White Standard: ISO 3633 : 2002

Size (mm)

50 75 110 160



Air Vent Cap

Material: Polyvinyl Chloride (Unplasticized)

Color : White Standard: ISO 3633 : 2002

Size (mm)

50 75 110



Reducer Coupling

Brand: T-Flow Material: Polyvinyl Chloride (Unplasticized)

Color : White Standard: ISO 3633 : 2002

Size (mm)

75 x 50 110 x 50 110 x 75 160 x 110



Coupling

Brand: T-Flow Material: Polyvinyl Chloride (Unplasticized)

Color : White Standard: ISO 3633 : 2002

Size (mm)

50 75 110 160 200



Coupling With Cleanout

Material: Polyvinyl Chloride (Unplasticized)

Color : White Standard: ISO 3633 : 2002

Size (mm)

50 75 110 160



Expansion Joint

Material: Polyvinyl Chloride (Unplasticized)

Color : White Standard: ISO 3633 : 2002

Size (mm)

75 110



UPVC O-Clamp

Brand: T-Flow Material: Polyvinyl Chloride (Unplasticized)

Color : White

Size (mm)

50 75 110

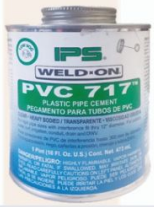


Rubber O- Clamp

Brand: T-Flow Material: GS with Rubber

Size (mm)

25 32 40 50 63 75 90 110 160 200



PVC Solvent

Size (Kg)

0.5 1




1. Prepare the pipe, cut and deburr

Before jointing, check that the pipe has been cut square and all the burrs are removed from the inside and outside edge.




2. Prepare with Cleaner

Dry, degrease and clean the spigot and socket with a lint-free cloth (natural fibers) dampened with cleaning fluid. Cleaning is vitally important, as it removes off the debris, concrete drops or any other unnecessary attachments from the uPVC surface, it softens the PVC surface for the solvent cement's effective bondage. Use protective gloves. Cleaning fluids must be used before applying solvent cementing.



3. 'Dry fit' checking

'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.




4. Apply solvent cement

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.



5. Insertion

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.

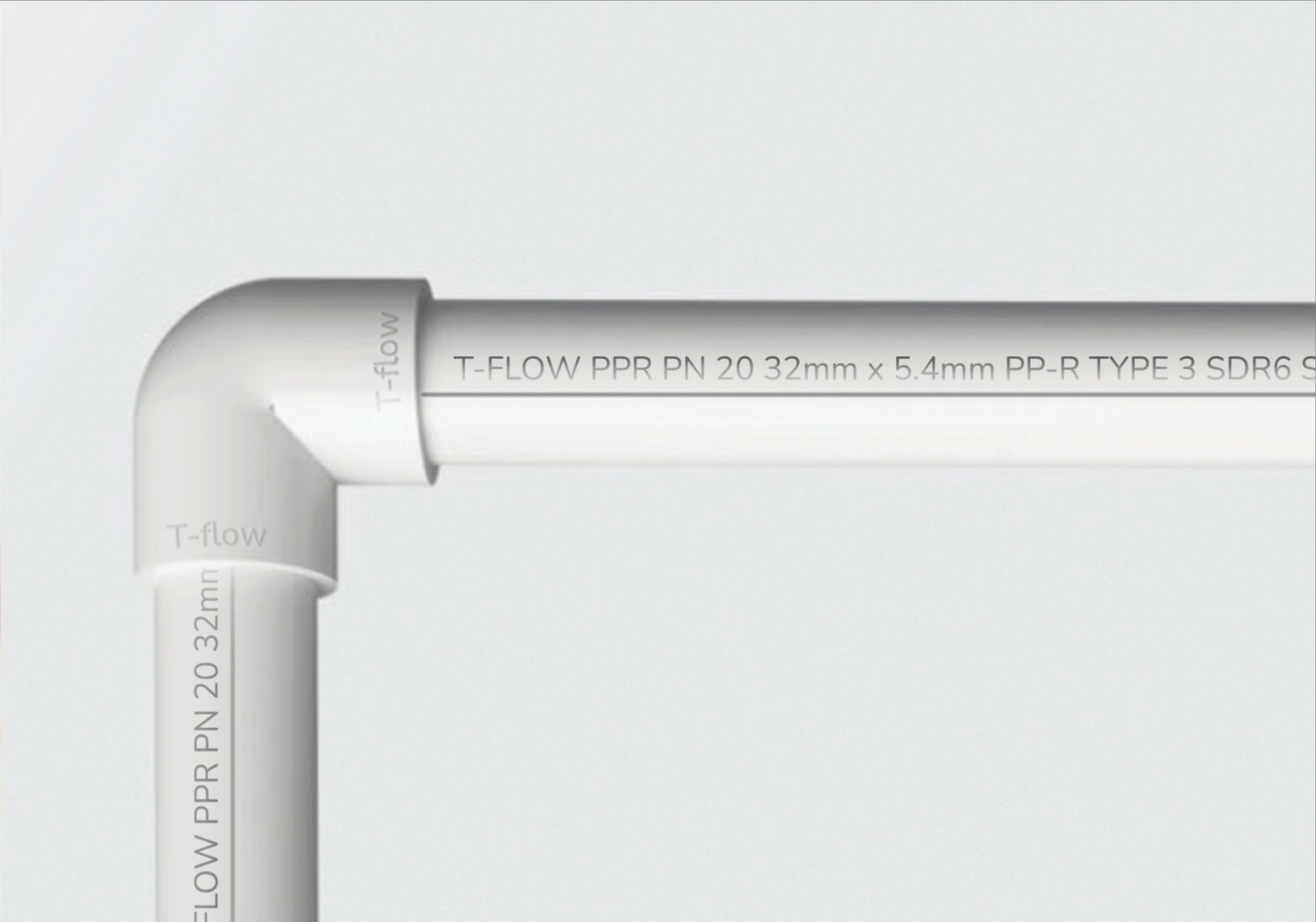


6. Hold the joint

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.



PICTURE : Solvent for Welding PVC Pipe and Fittings


T-flow
T-FLOW PPR PN 20 32mm x 5.4mm PP-R TYPE 3 SDR6 S
T-flow
FLOW PPR PN 20 32mm

SCAN HERE