



U-PVC Pressurized Clean Water Pipe Systems

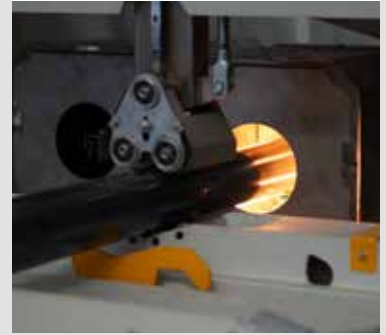
www.dkyplast.com



Pipe and Fitting Industry Trade Inc.

DkyPlast Pipe and Fitting Industry Trade Inc. was established in 2023 in Kemalpaşa Organized Industrial Zone as the second industrial company within the Dikkaya Group. In order to meet the needs of infrastructure, industrial and agricultural irrigation projects, it completed its building, machinery and equipment investment in 2024 for the production of U-PVC pressurized clean water pipes and attachments and submersible pump column pipes and started production.

DkyPlast , which also closely follows the sector dynamics, successfully implements quality management systems, closely follows sector developments, technologies and fairs and continues its development by participating. As in the entire Dikkaya Group, on this path that it embarked on with the importance of institutionality, our main principle is reliability, and our main goal is to play a key role in Turkey by constantly developing new products and making R&D investments, and to establish a global network with new customers worldwide.



DİKKAYA GROUP MILESTONES

- 1988** Establishment of Dikkaya Technical Materials Ltd. in Izmir.
- 1997** Establishment of Dikkaya Water Control Systems . in Izmir.
- 1998** Beginning the journey of introducing control valves to the Turkish market.
- 2001** Establishment of the Dikkaya Marketing and Distribution Department in line with growth targets and the start of the first marketing activities.
- 2003** First export and entry into international markets.
- 2005** Production and sale of Dikkaya brand patented valves.
- 2008** Dikkaya Technical Materials Inc. logistics center and warehouse investment.
- 2009** Establishment of DKY Electronic Services Trading Ltd.
- 2011** Production and sale of DKY Valves and Control Brand Patented Valves.
- 2014** Dikkaya Water Control Systems valve factory investment.
- 2015** Opening of the first overseas representative office in Belarus.
- 2019** Manufacture of "DKYHoses" garden hose products under its own brand.
- 2020** Launch of the SMART WATER MANAGEMENT UNIT "HydroNYX" developed to reduce water loss and leakage, and acquisition of the brand patent.
- 2023** Creation of the DKY Plast brand, factory investment, and start of production.

U-PVC Pressurized Clean Water Pipe Systems

DkyPlast U-PVC pressure clean water pipes are manufactured by the extrusion method from plasticizer-free polyvinyl chloride polymer (a thermoplastic material) in accordance with the TS EN 1452-2 standard. Committed to adhering to production standards, DkyPlast places great importance on producing user-friendly products with advanced technological standards, delivering the highest quality and service.



U-PVC Pressurized Clean Water Pipes



U-PVC Sewer Pipes



U-PVC Lead-Free Pressurized Clean Water Pipes



U-PVC Special Purpose Pipes

U-PVC Pressurized Clean Water Pipe Systems

PVC in Piping Systems

PVC pipe applications are everywhere, but you may not see or think about them. When you turn on the tap, safe PVC pipes provide you with clean water for your daily routines such as drinking, cooking, bathing, and more. And when you're done with the water, durable PVC pipes transport wastewater to a treatment plant. These are just a few of the many applications of PVC in piping systems.

U-PVC

The first PVC piping systems were installed over 80 years ago, and many are still in use. The life expectancy of a PVC pipe is 100 years or more for underground pipes. PVC piping systems have a much lower failure rate than other materials. The durability, combined with low maintenance and installation costs, make PVC pipe a popular choice. U-PVC or PVC-U means that no plasticizers have been added to the compound. Unplasticized PVC is also known as rigid PVC. U-PVC is the most common raw material for pipes and fittings, including potable water, agricultural, sewage, underground drainage, industrial, and advanced fire suppression systems.



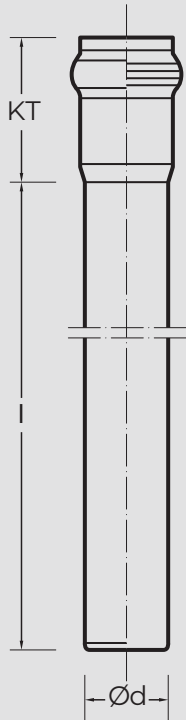
The Best Choice for the Environment

PVC is composed of 57% chlorine and 43% carbon (predominantly derived from oil or gas via ethylene). PVC raw material production uses less energy and non-renewable resources (oil or natural gas) than other plastic raw materials. Therefore, it can be considered a resource-saving plastic. In contrast, the production of plastics such as PE, PP, PET and PS is completely dependent on oil or gas. Since PVC is a low-carbon plastic, it requires less energy and fewer resources in the production of PVC pipes, has a long life with minimal maintenance and is easily 100% recyclable.

U-PVC Pressurized Clean Water Pipe Systems

U-PVC PIPE (Socketed)

DkyPlast U-PVC pressurized clean water pipes are manufactured in compliance with TS EN ISO 1452-2 standards.



Diameter (Ød)(mm)	Socket Length (KT)(mm)	Useful Length (l)(mm)	Wall Thickness (mm)	Socket Weight (kg/m)	Wall Thickness (mm)	Socket Weight (kg/m)	Wall Thickness (mm)	Socket Weight (kg/m)	Wall Thickness (mm)	Socket Weight (kg/m)
			*4 Atü		*6 Atü		*10 Atü		*16 Atü	
50	80	6000			1,5	0,369	2,4	0,552	3,7	0,821
63	105	6000			1,9	0,578	3,0	0,879	4,7	1,317
75	120	6000	1,8	0,640	2,2	0,792	3,6	1,251	5,6	1,872
90	130	6000	1,8	0,772	2,7	1,160	4,3	1,803	6,7	2,693

PN: Nominal pressures determined by taking the safety factor C=2,5, PN

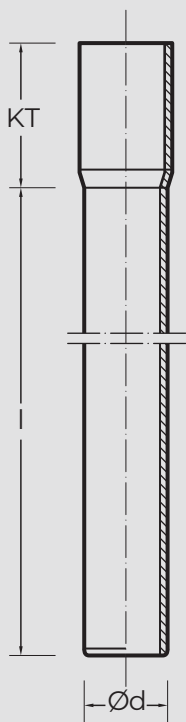
Diameter (Ød)(mm)	Socket Length (KT)(mm)	Useful Length (l)(mm)	Wall Thickness (mm)	Socket Weight (kg/m)	Wall Thickness (mm)	Socket Weight (kg/m)	Wall Thickness (mm)	Socket Weight (kg/m)	Wall Thickness (mm)	Socket Weight (kg/m)
			*4 Atü		*6 Atü		*10 Atü		*16 Atü	
110	130	6000	2,2	1,152	2,7	1,436	4,2	2,193	6,6	3,318
125	130	6000	2,5	1,469	3,1	1,868	4,8	2,826	7,4	4,235
140	165	6000	2,8	1,841	3,5	2,362	5,4	3,575	8,3	5,330
160	155	6000	3,2	2,399	4,0	3,080	6,2	4,691	9,5	6,965
200	185	6000	4,0	3,782	4,9	4,722	7,7	7,270	11,9	10,914
225	195	6000	4,5	4,776	5,5	5,970	8,6	9,158	13,4	13,881
250	210	6000	4,9	5,784	6,2	7,484	9,6	11,379	14,8	17,062
280	220	6000	5,5	7,323	6,9	9,316	10,7	14,304	16,6	21,427
315	230	6000	6,2	9,265	7,7	11,739	12,1	18,120	18,7	27,257
355	240	6000	7,0	11,824	8,7	14,926	13,6	22,926	21,1	34,680
400	260	6000	7,9	15,128	9,8	19,085	15,3	29,314	23,7	44,676
500	280	6000	9,8	24,083	12,3	30,072	19,1	45,840	29,7	70,356

PN: Nominal pressures determined by taking the safety factor C=2,0, PN

Not: *4 Atü pipes are not within the scope of TS EN ISO 1452-2 and are produced specially.

U-PVC PIPE (Solvent Cement Socketed)

DkyPlast U-PVC pressurized clean water pipes are manufactured in compliance with TS EN ISO 1452-2 standards.



Diameter (Ød)(mm)	Socket Length (KT)(mm)	Useful Length (l)(mm)	Wall Thickness (mm)	Socket Weight (kg/m)	Wall Thickness (mm)	Socket Weight (kg/m)	Wall Thickness (mm)	Socket Weight (kg/m)	Wall Thickness (mm)	Socket Weight (kg/m)
			*4 Atü		*6 Atü		*10 Atü		*16 Atü	
20	30	6000							1,5	0,137
25	35	6000							1,9	0,215
32	40	6000					1,6	0,244	2,4	0,345
40	45	6000			1,5	0,292	1,9	0,358	3,0	0,535
50	50	6000			1,5	0,369	2,4	0,552	3,7	0,821
63	70	6000			1,9	0,574	3,0	0,864	4,7	1,303
75	80	6000	1,8	0,634	2,2	0,784	3,6	1,226	5,6	1,834
90	90	6000	1,8	0,766	2,7	1,151	4,3	1,776	6,7	2,693

PN: Nominal pressures determined by taking the safety factor C=2,5, PN

Diameter (Ød)(mm)	Socket Length (KT)(mm)	Useful Length (l)(mm)	Wall Thickness (mm)	Socket Weight (kg/m)	Wall Thickness (mm)	Socket Weight (kg/m)	Wall Thickness (mm)	Socket Weight (kg/m)	Wall Thickness (mm)	Socket Weight (kg/m)
			*4 Atü		*6 Atü		*10 Atü		*16 Atü	
110	100	6000	2,2	1,137	2,7	1,427	4,2	2,175	6,6	3,291
125	120	6000	2,5	1,462	3,1	1,856	4,8	2,808	7,4	4,208
140	130	6000	2,8	1,829	3,5	2,343	5,4	3,546	8,3	5,287
160	140	6000	3,2	2,384	4,0	3,055	6,2	4,653	9,5	6,909
200	160	6000	4,0	3,758	4,9	4,676	7,7	7,200	11,9	10,809
225	180	6000	4,5	4,753	5,5	5,913	8,6	9,070	13,4	13,747
250	200	6000	4,9	5,756	6,2	7,414	9,6	11,270	14,8	16,899
280	210	6000	5,5	7,288	6,9	9,242	10,7	14,190	16,6	21,256
315	230	6000	6,2	9,235	7,7	11,627	12,1	17,641	18,7	26,997
355	250	6000	7,0	11,805	8,7	14,831	13,6	22,477	21,1	34,459
400	270	6000	7,9	15,104	9,8	18,994	15,3	28,500	23,7	43,867

PN: Nominal pressures determined by taking the safety factor C=2,0, PN

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U-PVC Pressurized Clean Water Pipe Systems

Application Areas



Pressurized Drinking
Water Networks



Building Wastewater
Systems



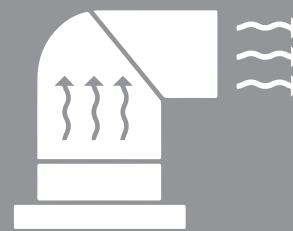
Sewerage and
Underground
Drainage Systems



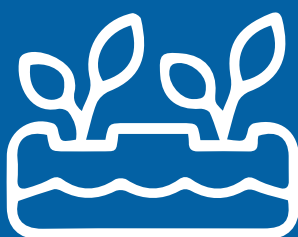
Agricultural Irrigation
Systems



Pool Systems



Ventilation Systems



Soilless Farming
Systems



Electrical and Data
Network Cable
Protection Systems



Treatment Plants



Industrial Facilities

Technical Specifications

Diameters	Ø20 - Ø500
Pipe Length	6 meters (Excluding Socket)
Production Type	Socketed and Solvent Cement Socketed
Color	Black - Blue - Orange - White
Production Standard	TS EN 1452-2

U-PVC Pressurized Clean Water Pipe Systems

10 Basic Reasons to Choose U-PVC Pipes



1. Durable

Durability is important for both service providers and consumers. U-PVC pipes are long-lasting and resistant to abrasion and chemical substances.



2. Easy to Install

Thanks to their lightweight and flexible structure, they can be easily installed without the need for extra energy, which reduces labor costs.



3. Has a Smooth Inner Surface

With a smooth inner surface, water flow is easier, and problems like blockages and scaling are less common.



4. Cost-Effective

U-PVC pipes are more economical compared to other pipe types. Both material and maintenance costs are low.



5. Resistant to Chemicals

They show high resistance to acids, bases, and other chemicals, which makes U-PVC pipes safe for industrial use.



6. Long-Lasting

Rust and corrosion issues seen in metal pipes do not occur with U-PVC pipes. This ensures the pipe is long-lasting. It provides a service life of over 100% in underground pipes, allowing for long-term use in water and sewage infrastructure.



7. Environmentally Friendly

U-PVC pipes can be recycled without losing their physical properties, making them an environmentally friendly and sustainable option. They contain less petroleum-derived material and cause minimal harm to the environment.



8. Suitable for Drinking Water

Due to their smooth surface and lack of water permeability, U-PVC pipes are resistant to the formation of bacteria and biofilm. They restrict biofilm growth, which prevents contamination and preserves water quality.



9. Provides Fire Safety

With a high chlorine content, they are difficult to ignite and have a very low level of smoke toxicity compared to most other commercial materials. Thanks to their 57% chlorine content, U-PVC is not self-igniting and prevents the spread of fire. Also, when compared to wood and most man-made materials, the smoke toxicity of U-PVC does not pose a greater smoke risk than other organic polymers.



10. Applicable in Many Fields

U-PVC pipes have a wide range of uses, from clean water transfer and wastewater drainage to industrial applications and irrigation systems.



DkyPlast

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