

Product and Technical Guide

# U-PVC Pressure Pipes & Fittings



25.03.2020



Wavin is one of the leading companies in the plastic pipe industry in Turkey. Our company offers a wide range of high-quality pipe and fittings system solutions for building and infrastructure. Our company, which has a history of more than half a century, started production in 1971 in Adana. Pilsa Plastik A.Ş. was purchased by Wavin B.V, the largest European company in its own field in the Netherlands in 2008.

In 2012, all Wavin companies joined the Mexichem family which is South America's giant petrochemicals and raw materials producer. Mexichem announced its new name as ORBIA in 2019. ORBIA, with its new changing business structure, provides professional support to its customers with its products and services in 5 main business lines: Building & Infrastructure, Flour, Datacom, Precision Agriculture and Polymer Solutions. With the new structuring of ORBIA, its main mission is to advance life around the world.

In 2019, with the renewed business structure of ORBIA, building & infrastructure business line was started to represent by WAVIN, a single and strong brand across the globe. WAVIN operates in more than 40 countries around the world in 4 main regions: Europe-Middle East-Africa, Asia-Pacific, Latin America and USA-Canada with 12.000 employees.

Wavin is now a global leader in the supply of plastic pipe systems and solutions for both above and below ground applications in projects around the world. Since the 1950s, we have built an unrivalled reputation for continuous innovation, intelligent problem-solving, dedicated technical support and the highest standards.

Wavin Turkey offers traditional products such as PPR-C clean water, PVC wastewater as well as the innovative products such as Tigris Press-fit systems, SiTech+ low noise pipes, Qickstream siphonic rainwater drainage systems, Q-Bic Plus infiltration systems, Tegra plastic manholes etc. to the sector. Wavin Academy which is the first training centre of the sector was opened in 2014 within our factory in Adana, Tens of thousands of visitors from various levels of the mechanical installation sector have been able to increase their expertise by attending training at Wavin Academy since 2014. Our company provides fast service with Adana, Istanbul, Ankara and Izmir offices, distribution centres located in Istanbul and Adana and wide dealers network. In addition to our sales staff, our expert engineers and technical personnel support our customers for the projects.

To get more information about our company and products, please visit our website [www.wavin.com.tr](http://www.wavin.com.tr) and follow us on our social media accounts.



## Polyvinylchloride U-PVC

Polyvinylchloride is more commonly known by its abbreviated name PVC. It is the oldest and most common plastic, being used in many branches of the industry as well as in daily life. Contrary to popular belief, this plastic that comes from the thermoplastic group is easily cementable, fusible, repeatedly reshapeable under heat, and highly recyclable. Scrap PVC may be recycled.

PVC pipe systems have outstanding resistance to a wide range of chemical reagents at temperatures up to 60 °C.

U-PVC is resistant against most acids and alkalis. As a result, it is also used for storage and transport of aggressive media. That is why, U-PVC is preferred in pipe constructions like:

- Drinking water main lines
- Drinking water supply lines
- Discharge lines
- Irrigation lines
- Plant construction
- Piping systems for the industry

## Technical Properties Of U-PVC Pressure Pipes & Fittings

- Raw material: Unplasticized Poly (vinylchloride)
- High chemical resistance,
- Definite solutions to calcification and corrosion,
- No bacteria and moss reproduction within the pipes,
- Light, easy to install and low labor cost of installation,
- Longer service life (50 years)
- Gaskets provides leak proof even against vibrations.
- Compared to the metal pipes it expands more and linearly,
- Max temperature is up to 60°C; it does not absorb water. It can easily be used in hot humid environment.
- Can be used in drinking water systems and has a quality certificate issued by the Ministry of Health.

## Features & Benefits

U-PVC pressure pipes and fittings are manufactured from unplasticized polyvinyl chloride polymer which is a thermoplastic material commonly used for potable water distribution, irrigation systems and sewer mains.

The high strength to weight ratio, together with exceptional resistance to corrosion makes these pipes ideal for major infrastructure applications.

## Fields of Application

The U-PVC pressure pipes and fittings from Wavin are suitable for the following applications:

- Potable water distribution systems
- Industrial process pipelines
- Pressure sewer
- Effluent pipelines
- Slurry pipelines
- Irrigation and watering systems

## Features and Benefits

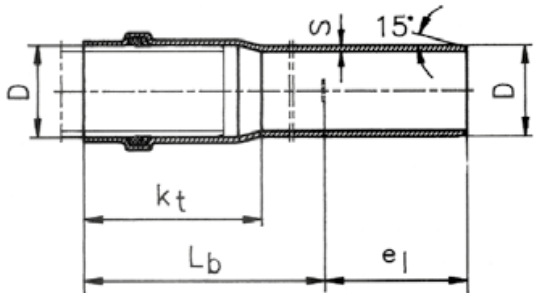
- High reliability and proven service performance
- Smooth bore, free from incrustations
- Corrosion resistant
- Light weight
- Reliable and durable
- Safe for potable water supply
- Effective rubber ring seal joint and solvent cement joint.
- High chemical resistance

## Meeting all Requirements

Wavin U-PVC pipes and fittings meet European / Turkish standards TS-EN ISO 1452-3, TS EN ISO 1452-2. TS EN ISO 1452 certificates offer the customer the highest level of quality and reliability.



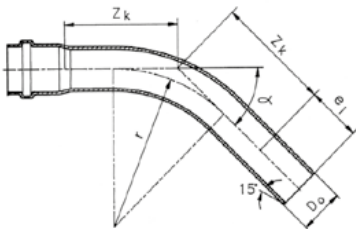
U-PVC Rubber Ring Joint Pipe



Code: G-MK 11° - 22° - 30° - 45° - 60° / G-MQ 90 ° SAP  
Code: PVC Pres. Bend PushFit ZJT

OD	PN 6	PN8	PN10	PN 12,5	PN16	PN20	PN25
50	1,6	2,0	2,4	3,0	3,7	4,6	-
63	2,0	2,5	3,0	3,8	4,7	5,8	-
75	2,3	2,9	3,6	4,5	5,6	6,8	-
90	2,8	3,5	4,3	5,4	6,7	8,2	-
110	2,7	3,4	4,2	5,3	6,6	8,1	10,0
125	3,1	3,9	4,8	6,0	7,4	9,2	11,4
140	3,5	4,3	5,4	6,7	8,3	10,3	12,7
160	4,0	4,9	6,2	7,7	9,5	11,3	14,6
200	4,9	6,2	7,7	9,6	11,9	14,7	18,2
225	5,5	6,9	8,6	10,8	13,4	16,6	-
250	6,2	7,7	9,6	11,9	14,8	18,4	-
280	6,9	8,6	10,7	13,4	16,6	20,0	-
315	7,7	9,7	12,1	15	18,7	23,2	-
355	8,7	10,9	13,6	16,9	21,1	26,1	-
400	9,8	12,3	15,3	19,1	23,7	29,4	-

U-PVC Long Bend with Rubber Ring Socket



Code: G-MK 11° - 22° - 30° - 45° - 60° / G-MQ 90 ° SAP  
Code: PVC Pres. Bend PushFit ZJT

Outer Diameter Do (mm)	r (mm)	11°	22°	30°	45°	60°	90°
		Zo (mm)					
63	221	46	68	84	117	153	246
75	263	55	81	100	139	182	293
90	315	66	97	120	166	218	351
110	385	81	119	147	203	266	429
125	438	92	135	167	231	303	488
140	490	103	151	187	259	339	546
160	560	118	173	214	296	387	624
200	700	147	216	268	370	484	780
225	788	166	243	301	416	545	878
250	875	184	270	334	462	605	975
280	980	206	302	375	518	678	1092
315	1103	232	340	421	583	763	1229
355	1243	262	384	475	657	860	1385
400	1400	295	432	535	740	968	1560

Socket



Code: G-MMU  
SAP Code: PVC Pres.  
Coup PushFit ZJT

d (mm)	ND (mm)	L (mm)
50	40	200
63	50	270
75	65	300
90	80	310
110	100	330
125	110	350
140	125	360
160	150	380
200	175	400
225	200	450
250	225	460
280	250	480
315	300	500
355	350	550
400	400	600

Clamp Saddle



Code: P-K  
SAP Code: Socket Plug  
Rubber Ring

d (mm)	ND (mm)	Z (mm)
32	25	1/2"
40	32	1/2"
50	40	3/4"
50	40	1"
63	50	3/4"-1"
75	65	3/4"-1"
90	80	3/4"-1"
110	100	3/4"
110	100	1"

Gasket

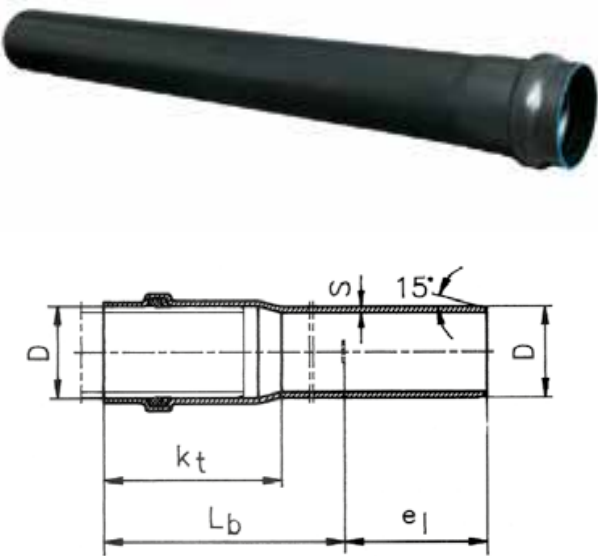


Code: Z-CONTA  
SAP Code: Press.  
Rubber Ring

d (mm)	ND (mm)
50	40
63	50
75	65
90	80
110	100
125	110
140	125
160	150
200	175
225	200
250	225
280	250
315	300
355	350
400	400



U-PVC Solvent Cement  
Socketed Pipes



Code: Y-M  
SAP Code: PVC Pres. Pipe SCS

OD	PN 6	PN 8	PN 10	PN 12,5	PN 16	PN 20	PN 25
20	-	-	-	-	1,5	1,9	-
25	-	-	-	1,5	1,9	2,3	-
32	-	1,5	1,6	1,9	2,4	2,9	-
40	1,5	1,6	1,9	2,4	3,0	3,7	-
50	1,6	2,0	2,4	3,0	3,7	4,6	-
63	2,0	2,5	3,0	3,8	4,7	5,8	-
75	2,3	2,9	3,6	4,5	5,6	6,8	-
90	2,8	3,5	4,3	5,4	6,7	8,2	-
110	2,7	3,4	4,2	5,3	6,6	8,1	10,0
125	3,1	3,9	4,8	6,0	7,4	9,2	11,4
140	3,5	4,3	5,4	6,7	8,3	10,3	12,7
160	4,0	4,9	6,2	7,7	9,5	11,8	14,6
200	4,9	6,2	7,7	9,6	11,9	14,7	18,2
225	5,5	6,9	8,6	10,8	13,4	16,6	-
250	6,2	7,7	9,6	11,9	14,8	18,4	-
280	6,9	8,6	10,7	13,4	16,6	20,0	-
315	7,7	9,7	12,1	15	18,7	23,2	-
355	8,7	10,9	13,6	16,9	21,1	26,1	-
400	9,8	12,3	15,3	19,1	23,7	29,4	-

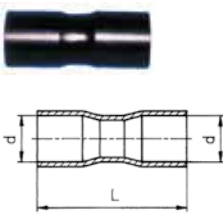
U-PVC Long Bend Socket



SAP Code: PVC Pres. Bend Spigot SCS  
Code: Y-MK 11° - 22° - 30° - 45° - 60° / Y-MQ 90°

Outer Diameter D0 (mm)	r (mm)	11°	22°	30°	45°	60°	90°
25	63	31	37	42	51	61	88
32	80	40	48	53	65	78	112
40	100	50	59	67	81	98	140
50	125	62	74	84	102	122	175
63	221	46	68	84	117	153	246
75	263	55	81	100	139	182	293
90	315	66	97	120	166	218	351
110	385	81	119	147	203	266	429
125	438	92	135	167	231	303	488
140	490	103	151	187	259	339	546
160	560	118	173	214	296	387	624
200	700	147	216	268	370	484	780
225	788	166	243	301	416	545	878
250	875	184	270	334	462	605	975
280	980	206	302	375	518	678	1092
315	1103	232	340	421	583	763	1229
355	1243	262	384	475	657	860	1385
400	1400	195	432	535	740	968	1560

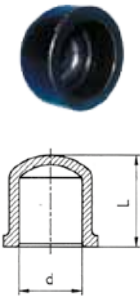
Socket



Code: Y-MM  
SAP Code: PVC Pres. Coupler Spigot

d (mm)	ND (mm)	L (mm)
25	20	74
32	25	87
40	32	103
50	40	121
63	50	153
75	65	181
90	80	214
110	100	260
125	110	293
140	125	326

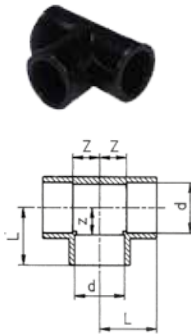
End Cap



Code: Y-Q  
SAP Code: PVC Pres. End Cap Spigot

d (mm)	ND (mm)	L (mm)
20	15	19
25	20	23
32	25	32
40	32	38
50	40	46
63	50	56
75	65	66
90	90	79
110	100	91

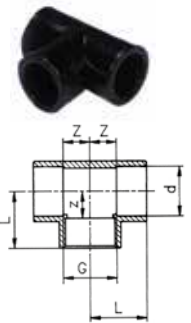
Tee



Code: Y-MMB  
SAP Code: PVC Pres. Tee Spigot SCS

d (mm)	ND (mm)	L (mm)	Z (mm)
20	15	27	11
25	20	33	14
32	25	39	17
40	32	49	21
50	40	59	26
63	50	72	33
75	50		
90	50		
110	50		

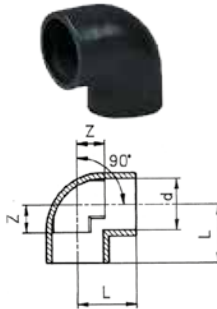
Tee (F)



Code: Y-MMG  
SAP Code: PVC Pres. Tee Th. SCS

d (mm)	ND (mm)	L (mm)	Z (mm)
20	15	27	11
25	20	33	14
32	25	39	17
40	32	49	21
50	40	59	26
63	50	72	33
75	50		
90	50		
110	50		

Elbow (90°)



Code: Y-W  
SAP Code: PVC Pres. Bend Spigot

d (mm)	ND (mm)	L (mm)	Z (mm)
20	15	27	11
25	20	33	14
32	25	39	17
40	32	49	21
50	40	60	26
63	50	74	33
75	65	85	38
90	75	103	45,5
110	90	122	55,5

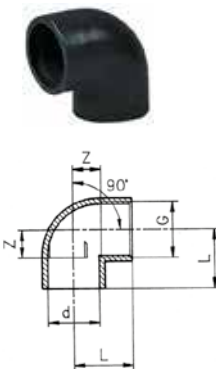
Female Threaded Adaptor



Code: Y-MG  
SAP Code: PVC Pres. Adaptor F. SCS

d (mm)	ND (mm)	G (mm)	L (mm)
20	15	1/2"	50
25	20	3/4"	55
32	25	1"	66
40	32	1.1/4"	77
50	40	1.1/2"	92
63	50	2"	109

Pro-Fit Elbow



Code: Y-WG  
SAP Code: PVC Pres. Adaptor F. SCS

d (mm)	ND (mm)	L (mm)	Z (mm)
20	15	27	11
25	20	33	14
32	25	39	17
40	32	49	21
50	40	60	26
63	50	74	33
75	65	85	38
90	75	103	45,5
110	90	122	55,5

Male Threaded Adaptor



Code: Y-MG  
SAP Code: PVC Pres. Adaptor M. SCS

d (mm)	ND (mm)	L (mm)
50	40	127
63	50	140
75	65	153
90	80	166
110	100	180
125	110	197
140	125	213
160	150	225
200	175	246



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To Advance Life Around the World.



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