



"Offers Confidence"

PRODUCT CATALOGUE

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ABOUT US

HAGI PLAST has been operating in the construction materials sector for many years and aims to offer the highest quality products, the most advantageous prices and the shortest delivery time by prioritizing customer satisfaction. Hagi Plast is offering products in 3 different sectors: Iron & Steel, Construction Materials and Raw Materials.

As Hagi Plast, we follow new technologies and offer products that provide superior quality and customer satisfaction to the market.

With our production of steel flanges and fittings up to DN3000 diameter, we become a solution partner for our customers in their projects.

In addition, we provide our customers with the supply of plastic and steel pipes, fittings, valves, raw material, Steel sheets & coils, forklifts and many different products, enabling our customers to meet all their needs through a single supplier.

VISSION & MISSION

Hagi Plast is known worldwide for its wide product range, superior quality, professional and punctual customer-oriented service, definite delivery times and after-sales service!

With our professional purchasing and sales team, we supply all the products that our customers need in their projects by making them into packages, and we also provide logistics services. Currently, we are exporting to more than 10 countries and we are also supplying products to different projects domestically. In this sense, our mission is to invest in the international arena and ensure the continuous growth of our company.

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INFRASTRUCTURE GROUP WATER

GRP PIPE

With the composite technology developed by material experts, a very durable pipe strength body is created by using three basic raw materials: glass fiber, resin and silica sand.

Glass fibers in yarn form provide high environmental strength against internal pressure, while fibers in chopped form provide strength in the axial direction. The middle region of the pipe body structure is reinforced with sand filler, especially to contribute to rigidity.

Production can be made in the desired length, pressure and stiffness according to the technical specifications of the project.

Length: Standard 6 and 12m. (Can be produced up to 15 meters upon request)

Diameter: 200 – 4.000mm **Pressure (PN):** 1–40 Bar

Stiffness (SN): STANDARD 2.500 – 5.000 – 10.000 N/m² (Up to 1.000.000 N/m² can be produced upon request)

ADVANTAGES

- Lightness
- Superior hydraulic properties
- Long service life
- Corrosion resistance
- Quick and easy assembly

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USAGE AREAS FOR PRESSURE PIPES

- Irrigation
- Penstock systems
- Industrial applications
- Water supply
- Power plants
- Pressure sewer

USAGE AREAS FOR NON PRESSURE PIPES

- Sewer Lines
- Wastewater treatment plants
- Rainwater & stormwater lines
- Industrial applications
- Storage and overflow tanks
- Circular & non-circular relining

HDPE PIPE

PE 100 raw material which was developed in the beginning of 1990s, offered higher performance and an economical solution for potable water and natural gas networks.

The HDPE pipes are distinguished with their resistance to high pressure, have less wall thickness and preferential mechanical properties compared to pipes made of PE 63 and PE80 materials.

HDPE water pipes are being manufactured from original High Density Polyethylene PE 100. MRS classification is $MRS=10\text{Mpa}$, meaning that pipe will tolerate the same stress after 50 years.



ADVANTAGES

- Long-lasting, non-corroding, rot proof, high strength and corrosion resistant.
- Flexible, easily carriable, bendable and easy to assemble.
- High chemical resistance, does not smell, dirt-resistant
- Highly resistant to sunlight.
- Non-leaking under pressure.
- More economical than iron and steel pipes.
- When manufactured as coils, fewer fittings are required.
- Resistant to impact.
- More durable against PVC and steel pipes thanks to the 350% flexural properties of the pipes in earthquakes and landslides.

USAGE AREAS

- Drinking water networks
- Agricultural irrigation systems
- Industrial sewage discharge
- Solid waste storage facilities
- Wastewater and drainage systems
- Pool systems
- Cooling water lines
- Deep sea discharge
- Fire protection water system
- Geothermal pipe systems
- Cable protection system
- Natural gas and LPG Systems
- Garbage systems
- Fish farm applications

HDPE 100 PIPE – EN 12201-2 +A1 & ISO 4427

SDR 33		SDR 26		SDR 21		SDR 17		SDR 13.6		SDR 11		SDR 9		SDR 7.4		SDR 6	
PN 5 ATM		PN 6 ATM		PN 8 ATM		PN 10 ATM		PN 12.5 ATM		PN 16 ATM		PN 20 ATM		PN 25 ATM		PN 32 ATM	
DN	WT	DN	WT	DN	WT	DN	WT	DN	WT	DN	WT	DN	WT	DN	WT	DN	WT
20	-	20	-	20	-	20	-	20	-	20	2.00	20	2.30	20	3.00	20	3.40
25	-	25	-	25	-	25	-	25	2.00	25	2.30	25	3.00	25	3.50	25	4.20
32	-	32	-	32	-	32	2.00	32	2.40	32	3.00	32	3.60	32	4.40	32	5.40
40	-	40	-	40	2.00	40	2.40	40	3.00	40	3.70	40	4.50	40	5.50	40	6.70
50	-	50	2.00	50	2.40	50	3.00	50	3.70	50	4.60	50	5.60	50	6.90	50	8.30
63	-	63	2.50	63	3.00	63	3.80	63	4.70	63	5.80	63	7.10	63	8.60	63	10.30
75	2.30	75	2.90	75	3.60	75	4.50	75	5.60	75	6.80	75	8.40	75	10.30	75	12.50
90	2.80	90	3.50	90	4.30	90	5.40	90	6.70	90	8.20	90	10.10	90	12.30	90	15.00
110	3.40	110	4.20	110	5.30	110	6.60	110	8.10	110	10.00	110	12.30	110	15.10	110	18.30
125	3.90	125	4.80	125	6.00	125	7.40	125	9.20	125	11.40	125	14.00	125	17.10	125	20.80
140	4.30	140	5.40	140	6.70	140	8.30	140	10.30	140	12.70	140	15.70	140	19.20	140	23.30
160	4.90	160	6.20	160	7.70	160	9.50	160	11.80	160	14.60	160	17.90	160	21.90	160	26.60
180	5.50	180	6.90	180	8.60	180	10.70	180	13.30	180	16.40	180	20.10	180	24.60	180	29.90
200	6.20	200	7.70	200	9.60	200	11.90	200	14.70	200	18.20	200	22.40	200	27.40	200	33.20
225	6.90	225	8.60	225	10.80	225	13.40	225	16.60	225	20.50	225	25.20	225	30.80	225	37.40
250	7.70	250	9.60	250	11.90	250	14.80	250	18.40	250	22.70	250	27.90	250	34.20	250	41.50
280	8.60	280	10.70	280	13.40	280	16.60	280	20.60	280	25.40	280	31.30	280	38.30	280	46.50
315	9.70	315	12.10	315	15.00	315	18.70	315	22.20	315	28.60	315	35.20	315	43.10	315	52.30
355	10.90	355	13.60	355	16.90	355	21.10	355	26.10	355	32.20	355	39.70	355	48.50	355	59.00
400	12.30	400	15.30	400	19.10	400	23.70	400	29.40	400	36.30	400	44.70	400	54.70	400	66.70
450	13.80	450	17.20	450	21.50	450	26.70	450	33.10	450	40.90	450	50.30	450	61.50	450	
500	15.30	500	19.10	500	23.90	500	29.70	500	36.80	500	45.40	500	55.80	500	68.30	500	
560	17.20	560	21.40	560	26.70	560	33.20	560	41.20	560	50.80	560	62.50	560		560	
630	19.30	630	24.10	630	30.00	630	37.40	630	46.30	630	57.20	630	70.30	630		630	
710	21.80	710	27.20	710	33.90	710	42.10	710	52.20	710	64.50	710	79.30	710		710	
800	24.50	800	30.60	800	38.10	800	47.40	800	58.80	800	72.60	800	89.30	800		800	
900	27.60	900	34.40	900	42.90	900	53.30	900	66.10	900	81.70	900		900		900	
1000	30.60	1000	38.20	1000	47.70	1000	59.30	1000	73.40	1000	90.80	1000		1000		1000	
1200	36.70	1200	45.90	1200	57.20	1200	71.10	1200	88.20	1200	109.10	1200		1200		1200	

SDR – Standart Dimension Rate

PN – Nominal Pressure

DN – Nominal Diameter

WT – Wall Thickness

MDPE PIPE

All features that apply for PE-100 pipes are also valid for Medium Density Polyethylene Pipes.



ADVANTAGES

- Easy to use in system joints.
- Used to transport water above the ground and resistant to sun-light.
- Pipes can be supply in 25, 50, 100, 150 and 200 meters coil.

USAGE AREAS

- Drinking water system connections.
- Pool systems.
- Liquid transportation systems.

MDPE PIPE – EN 12201-2 +A1 & ISO 4427

SDR 21		SDR 17		SDR 13.6		SDR 11		SDR 9		SDR 7.4	
PN 6 ATM		PN 8 ATM		PN 10 ATM		PN 12.5 ATM		PN 16 ATM		PN 20 ATM	
DN	WT	DN	WT	DN	WT	DN	WT	DN	WT	DN	WT
20	-	20	-	20	-	20	2.00	20	2.30	20	3.00
25	-	25	-	25	2.00	25	2.30	25	3.00	25	3.50
32	-	32	2.00	32	2.40	32	3.00	32	3.60	32	4.40
40	2.00	40	2.40	40	3.00	40	3.70	40	4.50	40	5.50
50	2.40	50	3.00	50	3.70	50	4.60	50	5.60	50	6.90
63	3.00	63	3.80	63	4.70	63	5.80	63	7.10	63	8.60
75	3.60	75	4.50	75	5.60	75	6.80	75	8.40	75	10.30
90	4.30	90	5.40	90	6.70	90	8.20	90	10.10	90	12.30
110	5.30	110	6.60	110	8.10	110	10.00	110	12.30	110	15.10
125	6.00	125	7.40	125	9.20	125	11.40	125	14.00	125	17.10
140	6.70	140	8.30	140	10.30	140	12.70	140	15.70	140	19.20
160	7.70	160	9.50	160	11.80	160	14.60	160	17.90	160	21.90
180	8.60	180	10.70	180	13.30	180	16.40	180	20.10	180	24.60
200	9.60	200	11.90	200	14.70	200	18.20	200	22.40	200	27.40
225	10.80	225	13.40	225	16.60	225	20.50	225	25.20	225	30.80
250	11.90	250	14.80	250	18.40	250	22.70	250	27.90	250	34.20
280	13.40	280	16.60	280	20.60	280	25.40	280	31.30	280	38.30
315	15.00	315	18.70	315	32.20	315	28.60	315	35.20	315	43.10
355	16.90	355	21.10	355	26.10	355	32.20	355	39.70	355	48.50
400	19.10	400	23.70	400	29.40	400	36.30	400	44.70	400	54.70

SDR – Standart Dimension Rate

PN – Nominal Pressure

DN – Nominal Diameter

WT – Wall Thickness

DRIP IRRIGATION PIPE

Drip irrigation pipes are widely used in modern irrigation systems in agriculture. Once the water has been cleaned of sand, clay, algae and other mechanical additives through special filters by the help of these pipes, it is sent to the root part of plants in the form of drips. These pipes may be applied in an area with any relief.

The application of drip irrigation pipes allows the automation of all irrigation processes and this, in its turn, results in reduction of labour costs. Unlike traditional surface irrigation, coefficient of performance in drip irrigation method is more than 95%.

The drip irrigation is used in irrigation of all types of fruit trees (apple, pear, cherry, apricot, peanut, nut, hazelnut, tea plant, citrus trees). Only root feeding is provided by this system.

The pipes are installed directly in the the soil surface and 0.5 m above soil surface.

USAGE AREAS

- Agricultural & Farm lands
- Greenhouse
- Landscape

ADVANTAGES

- It provides irrigation opportunity at any time during the day.
- It provides 100% homogeneous, equal irrigation.
- With less water applications, it allows cultivation without stress on the plant.
- Energy requirement is low due to the possibility of irrigation at low pressures.
- It provides an increase in quality and efficiency between 20% and 90% according to the product.
- The crop ripens 2-3 weeks early.
- Water loss by surface flow and evaporation is very low, providing 50% water savings.
- Since it does not wet the entire area, it minimizes disease and weed development. Reduces hoeing labor. It provides less soil compaction (hardening).
- It is easy to install and move.
- It allows irrigation even in areas where there is not enough water available.
- It provides the opportunity to ripen and harvest in one hand because the water and fertilizer distribution are equal to the plants.
- The drip irrigation system can be easily made in desired amounts at any time according to the climatic conditions, the special requests of the plants and the development periods.



Diameter	Wall Thickness	Flow Rate	Roll Lenght	Distance	Diameter	Wall Thickness	Flow Rate	Roll Lenght	Distance
16 mm	1.0 mm	2,4,8 Lt/h	400 mt	20 cm	16 mm	0.9 mm	2,4,8 Lt/h	400 mt	20 cm
				25 cm					25 cm
				33 cm					33 cm
				40 cm					40 cm
				50 cm					50 cm
				75 cm					75 cm
				100 cm					100 cm
Diameter	Wall Thickness	Flow Rate	Roll Lenght	Distance	Diameter	Wall Thickness	Flow Rate	Roll Lenght	Distance
16 mm	1.0 mm	2,4,8 Lt/h	300 mt	20 cm	16 mm	1.1 mm	2,4,8 Lt/h	300 mt	20 cm
				25 cm					25 cm
				33 cm					33 cm
				40 cm					40 cm
				50 cm					50 cm
				75 cm					75 cm
				100 cm					100 cm

U-PVC PRESSURE PIPE

ADVANTAGES

- Resistant to corrosion.
- Resistant to shock and pressure.
- Smooth, straight, homogeneous inner surface prevents bacterial existence and odor.
- Easy to transport and assembly with the piece length of 6 meters.



USAGE AREAS

- Wastewater and drainage systems.
- Drinking water system connections.
- Agricultural watering systems.
- Liquid transportation systems.
- Industrial plants.
- Cable protection and isolation.
- Fire protection systems
- Swimming pools.

U-PVC Pressure Pipe – EN ISO 1452-2

PN 6 ATM			PN 10 ATM			PN 16 ATM		
DN	S Standart	S Tolerance	DN	S Standart	S Tolerance	DN	S Standart	S Tolerance
32	-	-	32	1.60	0.40	32	2.40	0.50
40	-	-	40	1.90	0.40	40	3.00	0.50
50	1.50	0.40	50	2.40	0.50	50	3.70	0.60
63	1.90	0.40	63	3.00	0.60	63	4.70	0.70
75	2.20	0.50	75	3.60	0.60	75	5.60	0.80
90	2.70	0.50	90	4.30	0.70	90	6.70	0.90
110	2.70	0.50	110	4.20	0.70	110	6.60	0.90
125	3.10	0.60	125	4.80	0.70	125	7.40	1.00
140	3.50	0.60	140	5.40	0.80	140	8.30	1.10
160	4.00	0.70	160	6.20	0.90	160	9.50	1.20
200	4.90	0.70	200	7.70	1.00	200	11.90	1.40
225	5.50	0.80	225	8.60	1.10	225	13.40	1.60
250	6.20	0.90	250	9.60	1.20	250	14.80	1.70
280	6.90	0.90	280	10.70	1.30	280	16.60	1.90
315	7.70	1.00	315	12.10	1.50	315	18.70	2.10
355	8.70	1.10	355	13.60	1.60	355	21.10	2.40
400	9.80	1.20	400	15.30	1.80	400	23.70	2.60

SPRINKLING PIPE

Outer Diameter	Presssure Bar	Length m)
50	6-8-10	5-6
75	6-8-10	5-6
90	6-8-10	5-6
110	6-8-10	5-6
125	6-8-10	5-6
140	6-8-10	5-6
160	6-8-10	5-6



ADVANTAGES

- There will be 20% – 50% of yield increase thanks to direct irrigation.
- Irrigation system supplies soft layer on the top of the seed during its germination.
- It saves cost and time.
- The rain irrigation system is clean the accumulated salt and dust on plants which carried by wind.

USAGE AREAS

- Agricultural & Farm lands
- Greenhouse

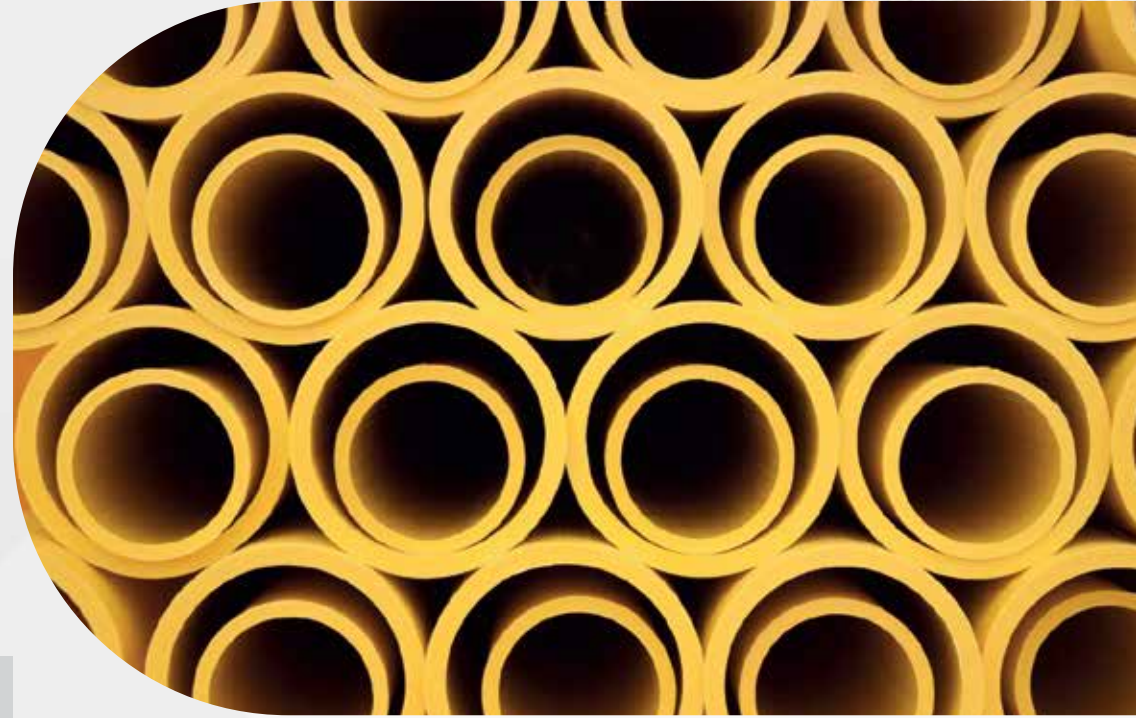
INFRASTRUCTURE GROUP

NATURAL GAS

PE NATURAL GAS PIPE

PE80 natural gas pipes are produced both yellow color and black with yellow stripes.

Wall thickness for both PE 80 and PE 100 gas pipes is the same but with the difference in working pressure.



ADVANTAGES

- It keeps its flexibility when the temperature decreases to -40°C .
 - It is not affected by the earthquake by its flexible structure.
 - Show high resistance to chemicals.
 - Because combination is possible by electrofusion welding method, it eliminates gas leak.
 - With the strangling method, gas flow can be interrupted during repair.
 - When manufactured as coils, fewer fittings are required.
 - It minimizes the risk of joints leaks.
 - It can be combined out of channel and then released to channel.
- Decreases the excavation amount.
- The pipes are light and easy to assemble.
 - Long-lasting and economical against to steel pipe.

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USAGE AREAS

- Natural Gas Systems

PE 80 Natural Gas Pipe – EN 1555-2

OUTER DIAMETER mm	TOLARANCE OF OUTER DIAMETER mm	TOLARANCE OF WALL THICKNESS mm	OUTER TOLERANCE mm	SDR 17.6		SDR 17 PN 8		SDR 17 PN 8	
				DN (mm)	WT (mm)	DN (mm)	WT (mm)	DN (mm)	WT (mm)
20	0.3	0.4	1.2	20	2.30	2.3	2.30	3.00	3.00
25	0.3	0.4	1.2	25	2.30	2.3	2.30	3.00	3.00
32	0.3	0.4	1.3	32	2.30	2.3	2.30	3.00	3.00
40	0.4	0.5	1.4	40	2.30	2.4	2.40	3.70	3.70
50	0.4	0.6	1.4	50	2.90	3.0	3.00	4.60	4.60
63	0.4	0.7	1.5	63	3.60	3.8	3.80	5.80	5.80
75	0.5	0.8	1.6	75	4.30	4.5	4.50	6.80	6.80
90	0.6	1.0	1.8	90	5.20	5.4	5.40	8.20	8.20
110	0.7	1.1	2.2	110	6.30	6.6	6.60	10.00	10.00
125	0.8	1.3	2.5	125	7.10	7.4	7.40	11.40	11.40
140	0.9	1.4	2.8	140	8.00	8.3	8.30	12.70	12.70
160	1.0	1.6	3.2	160	9.10	9.5	9.50	14.60	14.60
180	1.1	1.8	3.6	180	10.30	10.7	10.70	16.40	16.40
200	1.2	2.0	4.0	200	11.40	11.9	11.90	18.20	18.20
225	1.4	2.2	4.5	225	12.80	13.4	13.40	20.50	20.50
250	1.5	2.4	5.0	250	14.20	14.8	14.80	22.70	22.70
280	1.7	2.7	9.8	280	15.90	16.6	16.60	25.40	25.40
315	1.9	3.0	11.1	315	17.90	18.7	18.70	28.60	28.60
355	2.2	3.4	12.5	355	20.20	21.1	21.10	32.20	32.20
400	2.4	3.8	14.0	400	22.80	23.7	23.70	36.30	36.30

SDR – Standart Dimension Rate

PN – Nominal Pressure

DN – Nominal Diameter

WT – Wall Thickness

INFRASTRUCTURE GROUP

SEWAGE AND DRAINAGE

U-PVC SEWAGE PIPE

ADVANTAGES

- Easy installation and usage feature.
- Smooth and shine surface.
- Resistant to corrosion.
- Durable to high temperature.



USAGE AREAS

- Underground sewage systems.
- Discharge of chemical and industrial wastes.

U-PVC Sewage Pipe – EN 1401-1

DN (mm)	SN4	SN8	SN10
	S (mm)	S (mm)	S (mm)
50	3.00		
75	3.00		
110	3.20	3.20	3.20
125	3.20	3.70	3.70
160	4.00	4.70	4.70
200	4.90	5.90	5.90
250	6.20	7.30	7.30
315	7.70	9.20	9.20
355	8.70	10.40	10.40
400	9.80	11.70	11.70

CORRUGATED PIPE

Corrugated pipes are produced from High Density Polyethylene (HDPE) raw material. It is corrosion resistant pipe due to its production from polyethylene raw material. It has excellent resistance to abrasion and excellent mechanical and physical properties.

Corrugated pipe, which is generally used in sewage systems and transport of wastewater, inner surface is smooth, exterior surface is shaped like walled (knurled) and round or trapezoidal rings as to resist the impacts that may occur. The external surface is corrugated, and the profile properties guarantee high mechanical strength (resistance to dynamic and static as well as point-type stresses impacting during exploitation) and impact resistance parameters. Smooth internal walls of the pipes ensure excellent hydraulic properties required for the pressure-free (natural gravity) systems.

Very well suited for the construction of main pipeline network for agricultural melioration systems. They are especially suited for constructing culverts for overcoming water barriers in road infrastructure.

Corrugated pipes are produced in SN4 SN8 and SN12 according to strength. The corrugated pipe has a flexible structure and is produced in such a way to show resistance against any kind of ground movements and bumps that may occur. It is also not affected by ultraviolet rays from the sun because it is produced by joining carbon black.



Corrugated Pipe – EN 13476–3

Inner Diameter (mm)	SN
150	183
200	240
250	302
300	363
400	487
500	611
600	730
800	974
1000	1227

HDPE PERFORATED PIPE

It is supplied according to project design in slot or hole perforated type, between DN 20 – 1200mm diameters.



ADVANTAGES

- The perforation can be in both hole and slot type.
- Easy to assembly method.
- Leak-free and fused joints.
- Long-lasting and non corrodible because it is polyethylene.
- Resistivity to fatigue and durability.
- In case of repair and maintenance that may occur during utilization.
- It is easily and cost-effectively in partial repair.
- Anti-corrosive and Eco-friendly.
- Recyclable.
- The with smooth flow surface can carry more fluid same diameter as against concrete pipe.
- As it can be stackable telescopically, it provides convenience in stocking and transportation.
- Provides high resistance to a brasion and chemicals.

USAGE AREAS

- It is successfully used in discharging the undesired waters from land in agriculture
- Rehabilitation works of muddy, loam lands
- Sports fields
- Berm drainage of roads
- Protection of buildings and constructions having water in the foundation
- Agricultural fields
- Facilitating drainage in roads
- Airports
- Podium gardens
- Solid waste storage facilities
- In shoulder drainage of highways

CORRUGATED PERFORATED PIPE

It is supplied according to project design in slot or hole perforated type, between DN 100 - 1200mm diameters.

ADVANTAGES

- The perforation can be in both hole and slot type
- Easy to assembly method
- Leak-free
- Long-lasting and non corrodible because it is polyethylene
- Resistivity to fatigue and durability
- In case of repair and maintenance that may occur during utilization, it is easily and cost-effectively in partial repair
- Anti-corrosive and Eco-friendly
- Recyclable
- The with smooth flow surface can carry more fluid same diameter as against concrete pipe
- As it can be stackable telescopically, it provides convenience in stocking and transportation
- Provides high resistance to a brasion and chemicals

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USAGE AREAS

- It is successfully used in-discharging the undesired waters from land in agriculture
- Rehabilitation works of muddy, loam lands
- Sports fields
- Berm drainage of roads
- Protection of buildings and constructions having water in the foundation
- Agricultural fields
- Facilitating drainage in roads
- Airports
- Podium gardens

TUNNEL TYPE PVC DRAINAGE PIPE

The pipes are produced in blue color and 6m lengths with self-socket. It saves material and labor because it is light and easy to install. Since the base is flat and without holes, they easily drain the water inside the pipe without leaking. They are resistant to impacts, chemicals and sunlight. They are also produced without holes so that they can be used as collectors at road crossings.



USAGE AREAS

- In the drainage works of industrial, mass housing, sports halls, schools, hospitals, hotels, etc. structures.
- In the drainage works of airports, dams, irrigation lands.
- In the drainage works of highways, highways and railways.

ADVANTAGES

- Thanks to PVC raw material, it shows high resistance to underground acidic and basic liquids.
- Due to its horseshoe-shaped form, its internal and external structure is vertically corrugated, the load load is high.
- It is easy to lay because the base is flat and self-muffling is produced.
- It is light and does not require a work machine for transportation.
- Installation is done quickly thanks to the self-muffled mouth part.
- Since its base is flat, the flow and flow rate of water increases.
- It can be produced with or without holes, in diameters of 150 mm and 200 mm, and in lengths of 6 meters.
- With a hole angle of 220°, water is prevented from returning to the ground and high suction flow rate is achieved.
- Since it is easy to lay, it does not require trained personnel and laborious workmanship.
- It is resistant to sunlight and external effects.
- The pipes produced without holes can be used as collectors.

OUTER DIAMETER (mm)	LENGTH (m)
160	6
200	6

**Tunnel Type PVC
Drainage Pipe -
TS 13492**

PVC DRAINAGE PIPE

Drainage pipes are PVC-U product which is used for evacuation of puddle on the surface or detrimental water in the solid and they are spiral pipes which have circular sections.

Unwanted water is collected with porous drainage pipes and it is evacuated by impermeate pipes. They are packaged as 50 meter's rolls or 100 meter's rolls according to their dimensions. Dimensions of rolls are made according to laying machines.

PVC Drainage pipes are produced according to TS 9128 and DIN 1187.

ADVANTAGES

- Its service life is 50 years under the ground.
- Its shipping and its laying are very practical.
- It is resistant against heavy chemicals.
- There isn't any wastage during laying.
- There isn't any risk of occlusion.

USAGE AREAS

- Evacuation of detrimental water from farm lands.
- Evacuation of substratum water in all kind of construction ground.
- In the substructure of grass pitch.
- For improvement of muddy lands, swamps and etc.
- For drainage of highway pavement.

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PVC Drainage Pipe – TS 9128 & DIN 1187

OUTER DIAMETER (mm)	LENGTH (m)
80	100
100	100
125	50
160	50
200	25

INFRASTRUCTURE GROUP

ELECTRIC WIRING AND
CABLE PROTECTION

PE TRIPLE LAYERED CABLE PROTECTION PIPE

SDR 17		SDR 13.6		SDR 11		SDR 9	
OD (mm)	WT (mm)	OD (mm)	WT (mm)	OD (mm)	WT (mm)	OD (mm)	WT (mm)
20	-	20	-	20	2.00	20	2.30
25	-	25	2.00	25	2.30	25	3.00
32	2.00	32	2.40	32	3.00	32	3.60
40	2.40	40	3.00	40	3.70	40	4.50
50	3.00	50	3.70	50	4.60	50	5.60
63	3.80	63	4.70	63	5.80	63	7.10



ADVANTAGES

- Ring stiffness of the pipe very large and depending on the diameter and type of pipe can be over 50 Kn/m* and can be used in places increased load floor in accordance with the static calculation.
- PE triple layered electrical cable protection pipe is supplied in 25, 50,100,150 meters coils.
- Saves labor force and time.
- The finished product shall be free from cracks, holes, foreign inclusions or other defects that would impair its performance.
- It shall be smooth walled inside and out.
- The finished product shall be capped ensuring the ends are watertight to prevent the ingress of contamination or foreign bodies likely to cause problems when cabling.

USAGE AREAS

- Protection of cables in the ground installation and building.

FIBEROPTIC CABLE PROTECTION PIPE

ADVANTAGES

- The ability of these pipes is to ensure internal pressure and allows cable routing with technique of blowing, so distance between connectors or cable manholes is higher than in other system.

USAGE AREAS

- It is used to protect in urban and non-urban infrastructural Works, telecommunication, signalization and energy transmission cables.



Product Code	SP4 040	SP4 050	SP4 075
Nominal Diameter	1x40	1x50	1x75
Roll Length	500 (mt)	500 (mt)	250 (mt)
Outer Diameter	Ø40	Ø50	Ø75
Wall Thickness	3.7 (mm)	5.5 (mm)	6.5 (mm)



Product Code	SP4 240	
Nominal Diameter	2x40	
Roll Length	500 (mt)	
	1.Eye	2. Eye
Outer Diameter	Ø40	Ø40
Wall Thickness	3.7 (mm)	3.7 (mm)



Product Code	SP4 232	
Nominal Diameter	2x32	
Roll Length	500 (mt)	
	1.Eye	2. Eye
Outer Diameter	Ø32	Ø32
Wall Thickness	2.5 (mm)	2.5 (mm)

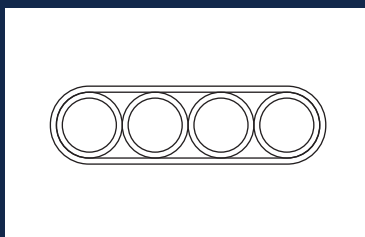
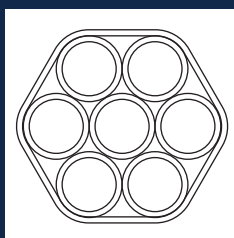
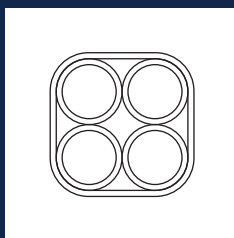
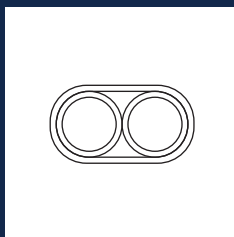


Product Code	SP4 340		
Nominal Diameter	32x32x40		
Roll Length	500 (mt)		
	1.Eye	1.Eye	3. Eye
Outer Diameter	Ø32	Ø32	Ø40
Wall Thickness	2.5 (mm)	2.5 (mm)	3.7 (mm)



Product Code	SP4 350		
Nominal Diameter	32x32x40		
Roll Length	500 (mt)		
	1.Eye	1.Eye	3. Eye
Outer Diameter	Ø32	Ø32	Ø40
Wall Thickness	2.5 (mm)	2.5 (mm)	3.0 (mm)

MICRODUCT CABLE PROTECTION PIPE



Product Code	MD4 222		MD4 214	
Nominal Diameter	2x22/18		2x14/10	
Roll Length	500 (mt)		500 (mt)	
	Inner Pipe	Covering	Inner Pipe	Covering
Outer Diameter	Ø22	-	Ø14	-
Wall Thickness	2.0 (mm)	1.2 (mm)	2.0 (mm)	1.2 (mm)

Product Code	MD4 422		MD4 414	
Nominal Diameter	4x22/18		4x14/10	
Roll Length	500 (mt)		500 (mt)	
	Inner Pipe	Covering	Inner Pipe	Covering
Outer Diameter	Ø22	-	Ø14	-
Wall Thickness	2.0 (mm)	1.2 (mm)	2.0 (mm)	1.2 (mm)

Product Code	MD4 722		MD4 714	
Nominal Diameter	4x22/18		4x14/10	
Roll Length	500 (mt)		500 (mt)	
	Inner Pipe	Covering	Inner Pipe	Covering
Outer Diameter	Ø22	-	Ø14	-
Wall Thickness	2.0 (mm)	1.2 (mm)	2.0 (mm)	1.2 (mm)

Product Code	MD4 422 YT		MD4 414 YT	
Nominal Diameter	4x22/18		4x14/10	
Roll Length	500 (mt)		500 (mt)	
	Inner Pipe	Covering	Inner Pipe	Covering
Outer Diameter	Ø22	-	Ø14	-
Wall Thickness	2.0 (mm)	1.2 (mm)	2.0 (mm)	1.2 (mm)

CORRUGATED DOUBLE WALLED PIPE

The double walled corrugated pipes are produce in 250 N/m², 450 N/m² and 750 N/m² strengths.

The double walled corrugated pipes durable surface and light weight makes it indispensable. These pipes are used in both transmission of electric and telecommunication lines and discharge of unpressurized wastewater, groundwater and rainwater.

These pipes are resistant to physical, chemical and mechanical effects.

Depending on the area of application, double walled corrugated pipes are produced in red, black, blue, orange and green color.



ADVANTAGES

- Waterproof and humidity resistant
- Due to the lack of electric conductivity, eliminate the risk offalling under voltage in case of cable damages
- Being flexible and light
- There is no wastage during assembly in the field
- Provides hig h resistance to abrasion and chemicals data and power lines

USAGE AREAS

- Telecommunications data lines
- Underground power lines
- Traffic light signaling lines
- Railway signaling lines
- Cable protection pipe in industrial plant data and power lines

Outer Diameter	Tollerance	Inner Diameter
32	32+0.6	26.1
40	40+0.8	32.2
50	50+1.0	40.1
63	63+1.2	51.2
75	75+1.4	62
90	90+1.7	75.9
110	110+2.0	95.4
118	118+2.0	103.3

PP CORRUGATED SINGLE WALLED PIPE

Outer Diameter	Inner Diameter	Coil Length
7.1	5.1	100 M
9.95	6.35	100 M
11.7	8.8	100 M
13.2	9.6	100 M
15.8	12.15	50 M
18.4	13.9	50 M
21.4	16.3	50 M
24.1	19.2	50 M
25.4	21.5	50 M
28.7	22.8	50 M
31	25.7	25 M
34.5	28.6	25 M
42.5	35.7	25 M
54.4	47.2	25 M



ADVANTAGES

- High strength and resistance
- Excellent resistance under reversed bending stresses
- Excellent impact strength in cold
- Burning behaviour according to FM VSS 302, self extinguishing, type B

USAGE AREAS

- Construction and electric installations
- Automotive body work industry
- Underground heating and cooling systems and shielding
- Washing machine and dishwasher drain tubes"

PVC SPIRAL CORRUGATED PIPE



LIGHT GAUGE		
Outer Diameter	Inner Diameter	Coil Length
16	11.20	100 M
20	14.60	100 M
25	18.60	50 M
32	24.80	50 M
40	31.20	50 M
50	39.60	25 M

HEAVY GAUGE		
Outer Diameter	Inner Diameter	Coil Length
16	10.90	100 M
20	14.30	100 M
25	18.20	50 M
32	24.40	50 M
40	30.80	50 M
50	39.10	25 M

ADVANTAGES

- Unflammable and fire resistant pliable pipe system
- Easy use with puller
- Electrical insulation (2000 V / 50 Hz / 15 min)

USAGE AREAS

- In exposed and built-in electrical cable installations
- Suspended ceiling applications
- Construction and machine applications
- In concrete ceiling applications
- In floor electrical installations and walls

PVC STRAIGHT PIPE

USAGE AREAS

- In all kinds of electrical installations, buildings, prefabricated structures, plaster and surface mounted applications, curtain concrete and tunnel formwork applications, dry walls, under floors and suspended ceilings where mechanical stresses are excessive.



LIGHT GAUGE	
Outer Diameter	Inner Diameter
16	13.70
20	17.60
25	22.20
32	28.70
40	36.50
50	46.40

Compressive Strength: 320 N/ 60 sc / 23±2 °C
Impact Strength: 1 kg/ 100 mm/ -25°C
Minimum assembly and storage temperature: -25°C
Maximum assembly and storage temperature: +60°C

MIDDLE GAUGE	
Outer Diameter	Inner Diameter
16	13.20
20	17.10
25	21.60
32	28.00
40	35.80
50	45.70

Compressive Strength: 750 N/ 60 sc / 23±2 °C
Impact Strength: 1 kg/ 100 mm/ -25°C
Minimum assembly and storage temperature: -25°C
Maximum assembly and storage temperature: +60°C

HEAVY GAUGE	
Outer Diameter	Inner Diameter
16	12.00
20	15.80
25	20.60
32	26.90
40	34.50
50	44.20

Compressive Strength: 1250 N/ 60 sc / 23±2 °C
Impact Strength: 1 kg/ 100 mm/ -25°C
Minimum assembly and storage temperature: -25°C
Maximum assembly and storage temperature: +60°C

INFRASTRUCTURE GROUP

HDPE FITTINGS

HDPE FITTINGS

The injected fittings are produced by casting polyethylene in moulds under certain temperature and pressure. These fittings are used in changing the pipe's direction for equal distribution or change of a diameter. Their main advantages are easy production and low costs. Their installation is performed through welding and this reduces the financial costs. The fittings made by PE100 are used in water and gas lines. Up to 630mm diameter is produced by the injection method, and larger diameters are produced by the fabricated method.



EF SOCKET



**BRANCH
TEE 45°**



EF SADDLE



EF TAPPING TEE



REDUCER TEE



**REDUCER
SHORT STEPPED**



REDUCER



**FLANGE
ADAPTOR**



EQUAL TEE



ELBOW 90°



**FLANGE ADAPTOR
SHORT TYPE**

INFRASTRUCTURE GROUP

CORRUGATED FITTINGS

CORRUGATED FITTINGS

Corrugated fittings are producing according to TS EN 13476-3+A1 standard. Hagi Plast corrugated fittings are produce in SN8 strength. Corrugated pipes and fittings gaskets are producing according to TS 681-1 standard.



**CORRUGATED
SOCKET**



**CORRUGATED
FABRICATED SOCKET**

CORRUGATED SOCKET

ID 100 mm

ID 150 mm

ID 200 mm

ID 300 mm

ID 400 mm

ID 500 mm

CORRUGATED FABRICATED SOCKET

ID 600 mm

ID 800 mm

ID 1000 mm



**CORRUGATED
TEE 90°**



**CORRUGATED
Y BRANCH WITH
PVC OUT**



**CORRUGATED Y
BRANCH 45°**



**CORRUGATED
UNEQUAL Y
BRANCH 45°**

**CORRUGATED
TEE 90°**

ID 100/100 mm

ID 150/150 mm

ID 200/200 mm

ID 300/300 mm

ID 400/400 mm

**CORRUGATED
PVC OUT
SOCKET**

ID 150 mm

ID 200 mm

ID 300 mm

**CORRUGATED
Y BRANCH 45°**

ID 100/100 mm

ID 150/150 mm

ID 200/200 mm

**CORRUGATED
UNEQUAL
Y BRANCH 45°**

ID 200/150 mm

ID 300/150 mm

ID 300/200 mm

Large diameters are produced as fabricated



**CORRUGATED
GASKET**



**CORRUGATED
ELBOW 90°**



**CORRUGATED
ELBOW 45°**

**CORRUGATED
GASKET**

ID 100 mm

ID 150 mm

ID 200 mm

ID 300 mm

ID 400 mm

ID 500 mm

ID 600 mm

ID 800 mm

ID 1000 mm

**CORRUGATED
ELBOW 90°**

ID 100 mm

ID 150 mm

ID 200 mm

ID 300 mm

ID 400 mm

**CORRUGATED
ELBOW 45°**

ID 100 mm

ID 150 mm

ID 200 mm

ID 300 mm

ID 400 mm

Large diameters are produced as fabricated



**CORRUGATED
REDUCER**



**CORRUGATED
END CAP**



**CORRUGATED PVC
OUT ADAPTOR**

**CORRUGATED
REDUCER**

ID 200/100 mm

ID 200/150 mm

ID 300/200 mm

**CORRUGATED
END CAP**

ID 100 mm

ID 150 mm

ID 200 mm

ID 300 mm

**CORRUGATED
PVC OUT
ADAPTOR**

ID 150 mm

ID 200 mm

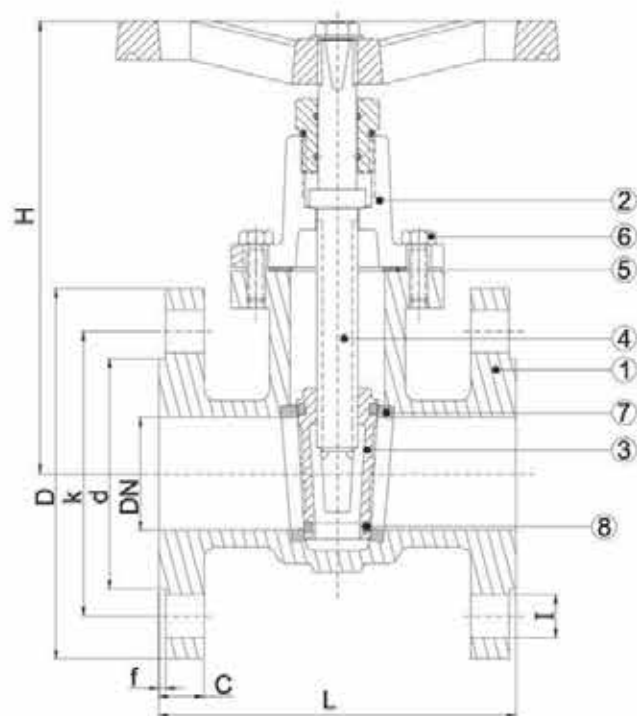
ID 300 mm

Large diameters are produced as fabricated

INFRASTRUCTURE GROUP

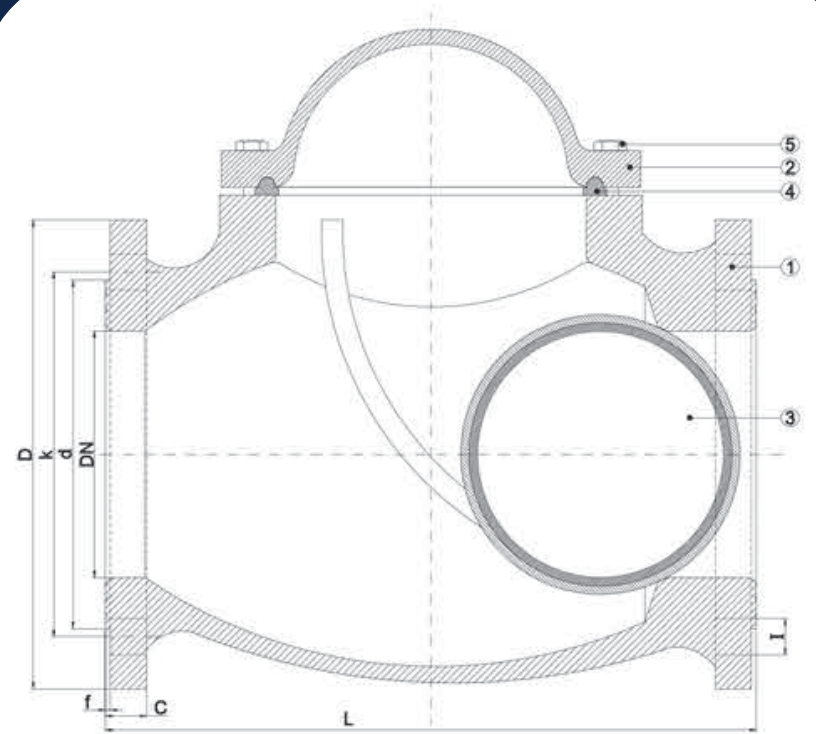
VALVE

HEATER VALVE



DN (RATED DIAMETER) (mm)	D (mm)	k (mm)	d (mm)	f (mm)	C (mm)	I Diameter and quantity	L (mm)	H (mm)	Weight (Kg)
050 (PN6)	140	110	88	3	16	014x4 piece	150	210	11
065 (PN6)	160	130	108	3	16	014x4 piece	170	230	15
080 (PN6)	190	150	124	3	18	019x4 piece	180	255	20
0100 (PN6)	210	170	144	3	18	019x4 piece	190	300	25
0125 (PN6)	240	200	174	3	20	019x8 piece	200	350	40
0150 (PN6)	265	225	199	3	20	019x8 piece	210	410	50

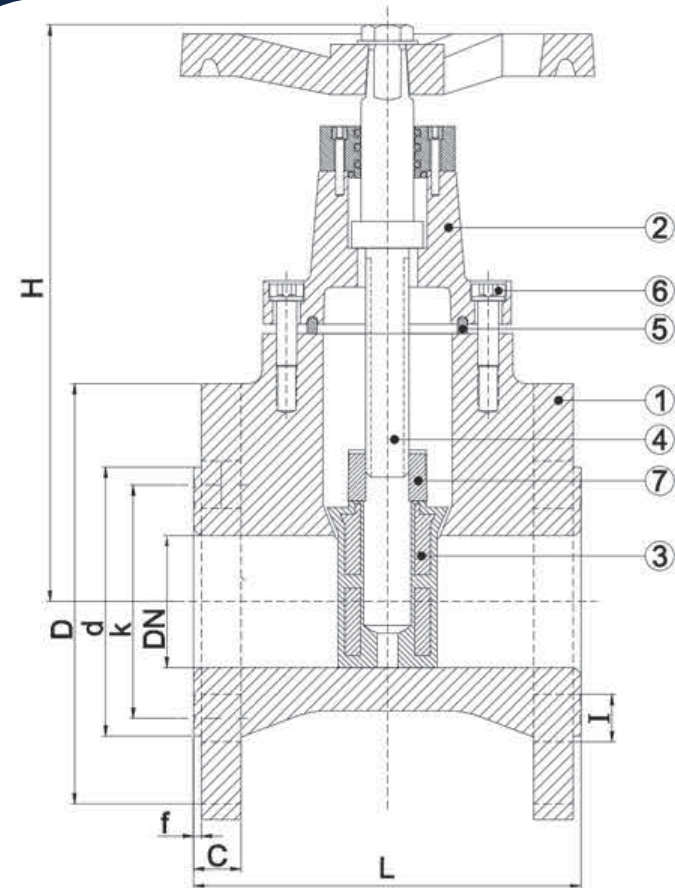
SWINGING CHECK VALVE (BALLED)



SWINGING CHECK VALVE (BALLED)

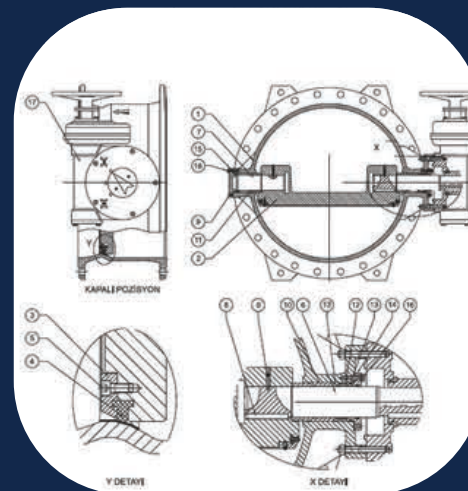
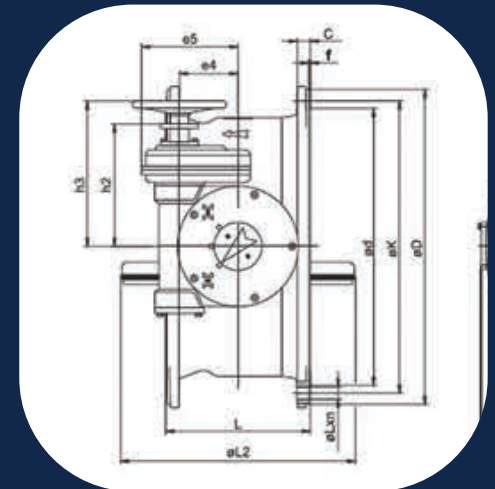
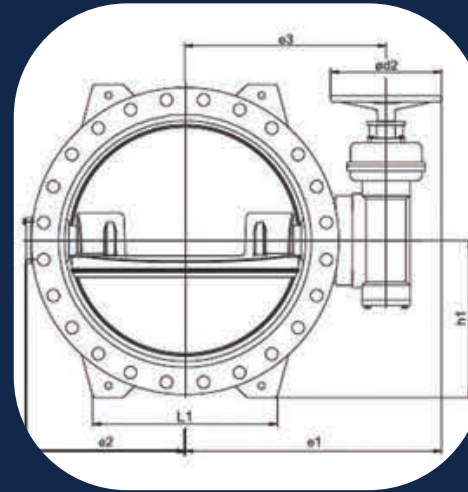
DN (RATED DIAMETER) (mm)	D (mm)	k (mm)	d (mm)	f (mm)	C (mm)	I Hole Diameter and quality	L (mm)	Weight (Kg)
050 (PN10-16-25)	165	125	99	3	20	019x4 piece	200	13
065 (PN10-16-25)	185	145	118	3	20	019x4 piece	240	18
080 (PN10-16-25)	200	160	132	3	22	019x8 piece	260	23
0100 (PN10-16)	220	180	156	3	24	019x8 piece	300	27
0100 (PN25)	235	190	156	3	28	023x8 piece	300	27
0125 (PN10-16)	250	210	184	3	26	019x8 piece	350	40
0125 (PN25)	270	220	184	3	30	028x8 piece	350	44
0150 (PN10-16)	285	240	211	3	26	023x8 piece	400	55
0150 (PN25)	300	250	211	3	34	028x8 piece	400	60
0200 (PN10)	340	295	266	4	26	023x8 piece	500	90
0200 (PN16)	340	295	266	4	30	023x12 piece	500	90
0200 (PN25)	360	310	274	4	34	028x12 piece	500	99
0250 (PN10)	395	350	319	4	28	023x12 piece	600	140
0250 (PN16)	405	355	319	4	32	028x12 piece	600	140
0250 (PN25)	425	370	330	4	36	031x12 piece	600	154

F4 ELASTOMER SLIDING VALVE



DN (RATED DIAMETER) (mm)	D (mm)	k (mm)	d (mm)	f (mm)	C (mm)	I Hole Diameter and quantity	L (mm)	H (mm)	Weight (Kg)
Ø50 (PN10-16-25)	165	125	99	3	20	Ø19x4 piece	150	210	11
Ø65 (PN10-16-25)	185	145	118	3	20	Ø19x4 piece	170	240	15
Ø80 (PN10-16-25)	200	160	132	3	22	Ø19x8 piece	180	280	20
Ø100 (PN10-16)	220	180	156	3	24	Ø19x8 piece	190	310	24
Ø100 (PN25)	235	190	156	3	28	Ø23x8 piece	190	310	27
Ø125 (PN10-16)	250	210	184	3	26	Ø19x8 piece	200	350	36
Ø125 (PN25)	270	220	184	3	30	Ø28x8 piece	200	350	40
Ø150 (PN10-16)	285	240	211	3	26	Ø23x8 piece	210	400	47
Ø150 (PN25)	300	250	211	3	34	Ø28x8 piece	210	400	54
Ø200 (PN10)	340	295	266	4	26	Ø23x8 piece	230	520	79.5
Ø200 (PN16)	340	295	266	4	30	Ø23x12 piece	230	520	79.5
Ø200 (PN25)	360	310	274	4	34	Ø28x12 piece	230	520	88
Ø250 (PN10)	395	350	319	4	28	Ø23x12 piece	250	610	122
Ø250 (PN16)	405	355	319	4	32	Ø28x12 piece	250	610	122
Ø250 (PN25)	425	370	330	4	36	Ø31x12 piece	250	610	134
Ø300 (PN10)	445	400	370	4	28	Ø23x12 piece	270	695	164
Ø300 (PN16)	460	410	370	4	32	Ø28x12 piece	270	695	164
Ø300 (PN25)	485	430	389	4	40	Ø31x16 piece	270	695	176
Ø350 (PN10)	505	460	429	4	30	Ø23x16 piece	290	850	200
Ø350 (PN16)	520	470	429	4	36	Ø28x16 piece	290	850	200
Ø350 (PN25)	555	490	448	4	44	Ø34x16 piece	290	850	220
Ø400 (PN10)	565	515	480	4	32	Ø28x16 piece	310	950	300
Ø400 (PN16)	580	525	480	4	38	Ø31x16 piece	310	950	310
Ø400 (PN25)	620	550	503	4	48	Ø37x16 piece	310	950	330
Ø450 (PN10)	615	565	530	4	32	Ø28x20 piece	330	1040	350
Ø450 (PN16)	640	585	548	4	40	Ø31x20 piece	330	1040	370
Ø450 (PN25)	670	600	548	4	50	Ø37x20 piece	330	1040	385
Ø500 (PN10)	670	620	582	4	34	Ø28x20 piece	350	1040	350
Ø500 (PN16)	715	650	609	4	42	Ø34x20 piece	350	1040	370
Ø500 (PN25)	730	660	609	4	52	Ø37x20 piece	350	1040	385
Ø600 (PN10)	780	725	682	5	36	Ø31x20 piece	390	1250	630
Ø600 (PN16)	840	770	720	5	48	Ø37x20 piece	390	1250	650
Ø600 (PN25)	845	770	720	5	56	Ø41x20 piece	390	1250	693

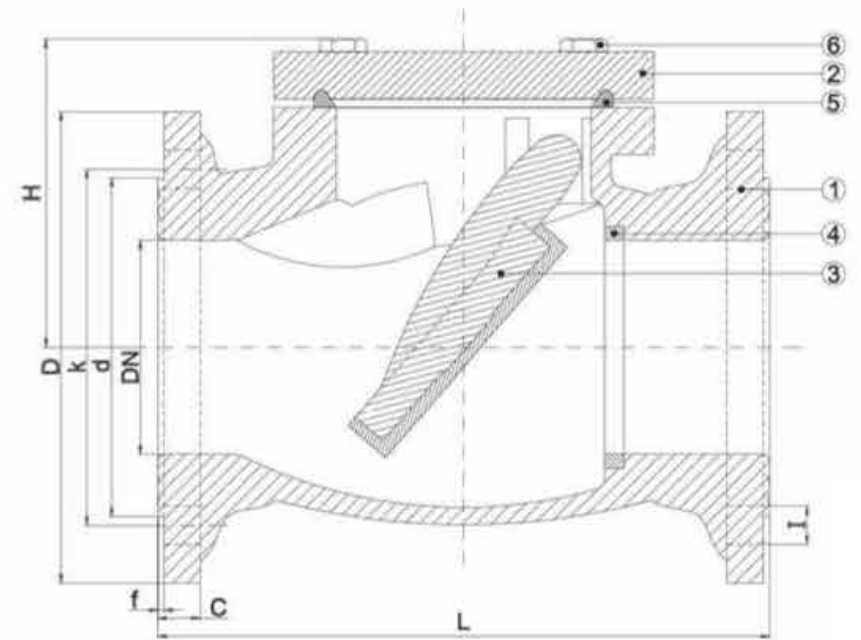
MANUALLY CONTROLLED BUTTERFLY VALVE



MANUALLY CONTROLLED BUTTERFLY VALVE

DN	PN	L1 Seri14	L1	L2	e1	e2	e3	e4	e5	d2	h1	h2	h3	Wg (kg)
100	10	190	-	100	316	115	200	65	113	200	115	114	164	30
125	10	200	-	126	348	134	228	65	113	200	130	114	164	35
150	10	210	-	152	378	151	255	71	134	240	143	136	212	45
200	10	230	180	199	405	177	282	71	134	240	180	136	212	60
250	10	250	220	251	481	214	353	95	15	240	213	163	239	75
300	10	270	280	281	503	237	380	95	158	240	242	163	239	105
350	10	290	320	336	595	283	410	110	175	320	264	184	271	155
400	10	310	335	385	626	297	441	110	175	320	293	184	271	190
450	10	330	380	434	670	333	485	110	198	320	320	285	372	220
500	10	350	400	474	701	344	516	156	245	320	345	334	420	230
600	10	390	440	579	749	414	564	156	245	320	400	334	420	380
700	10	430	540	671	838	511	653	190	313	320	460	397	484	510
750	10	450	580	710	882	542	697	190	313	320	496	397	484	630
800	10	470	610	766	855	530	970	190	313	320	520	397	484	650
900	10	510	670	861	965	618	780	242	365	320	568	532	519	800
1000	10	550	740	951	1039	652	854	242	365	320	625	532	519	1120
1100	10	590	750	1053	1022	720	837	242	365	320	695	532	519	1560
1200	10	630	900	1147	1251	782	1008	290	515	400	738	538	625	1820
1300	10	670	988	1248	1301	867	1057	290	515	400	803	538	625	2870
1400	10	710	1160	1345	1349	917	1101	290	515	400	848	538	625	3100
1500	10	750	1080	1435	1411	1015	1168	431	656	400	910	681	768	3450
1600	10	790	1250	1537	1483	1067	1240	431	656	400	970	681	768	4360
1800	10	870	1220	1722	1586	1183	1343	431	656	485	107	681	768	4760
2000	10	950	1300	1901	1769	1303	1526	431	656	485	118	681	768	7180
2200	10	1030	1500	2085	1906	1420	1603	431	656	605	128	809	909	8310
2400	10	1110	1600	2308	2095	1593	1792	519	744	605	139	898	998	12700
2500	10	1150	1600	2396	2122	1610	1819	519	744	605	144	898	998	13900

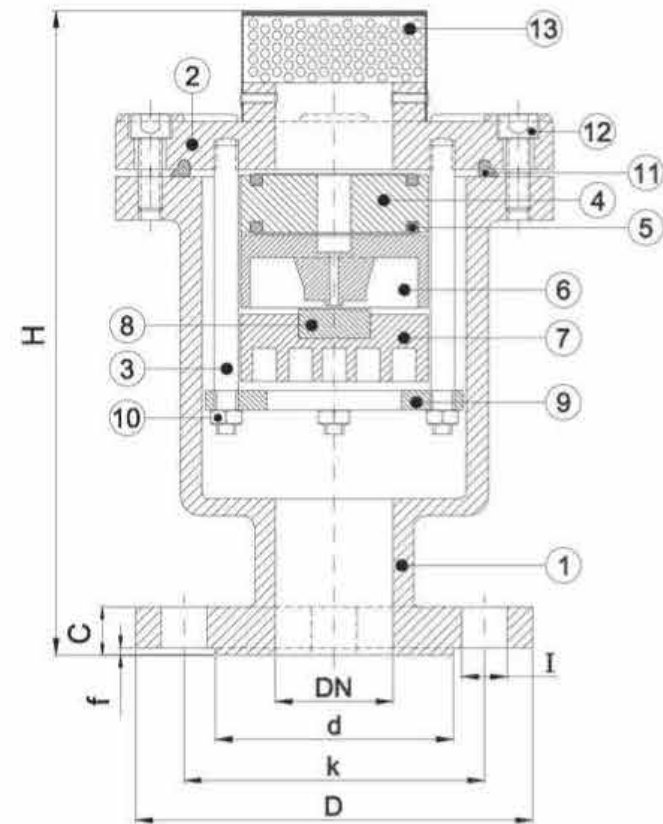
SWING CHECK VALVE



SWINGING CHECK VALVE

DN (RATED DIAMETER) (mm)	D (mm)	k (mm)	d (mm)	f (mm)	C (mm)	I Hole Diameter and quality	L (mm)	H (mm)	Weight (Kg)
050 (PN10-16-25)	165	125	99	3	20	019x4 piece	200	124	13
065 (PN10-16-25)	185	145	118	3	20	019x4 piece	240	153	18
080 (PN10-16-25)	200	160	132	3	22	019x8 piece	260	150	23
0100 (PN10-16)	220	180	156	3	24	019x8 piece	300	144	27
0100 (PN25)	235	190	156	3	28	023x8 piece	300	144	27
0125 (PN10-16)	250	210	184	3	26	019x8 piece	350	165	40
0125 (PN25)	270	220	184	3	30	028x8 piece	350	165	44
0150 (PN10-16)	285	240	211	3	26	023x8 piece	400	198	55
0150 (PN25)	300	250	211	3	34	028x8 piece	400	198	60
0200 (PN10)	340	295	266	4	26	023x8 piece	500	227	90
0200 (PN16)	340	295	266	4	30	023x12 piece	500	227	90
0200 (PN25)	360	310	274	4	34	028x12 piece	500	277	99
0250 (PN10)	395	350	319	4	28	023x12 piece	600	240	140
0250 (PN16)	405	355	319	4	32	028x12 piece	600	240	140
0250 (PN25)	425	370	330	4	36	031x12 piece	600	240	154
0300 (PN25)	445	400	370	4	28	023x12 pieces	700	245	190
0300 (PN25)	460	410	370	4	32	028x12 pieces	700	245	190
0300 (PN25)	485	430	389	4	40	031x16 pieces	700	245	209

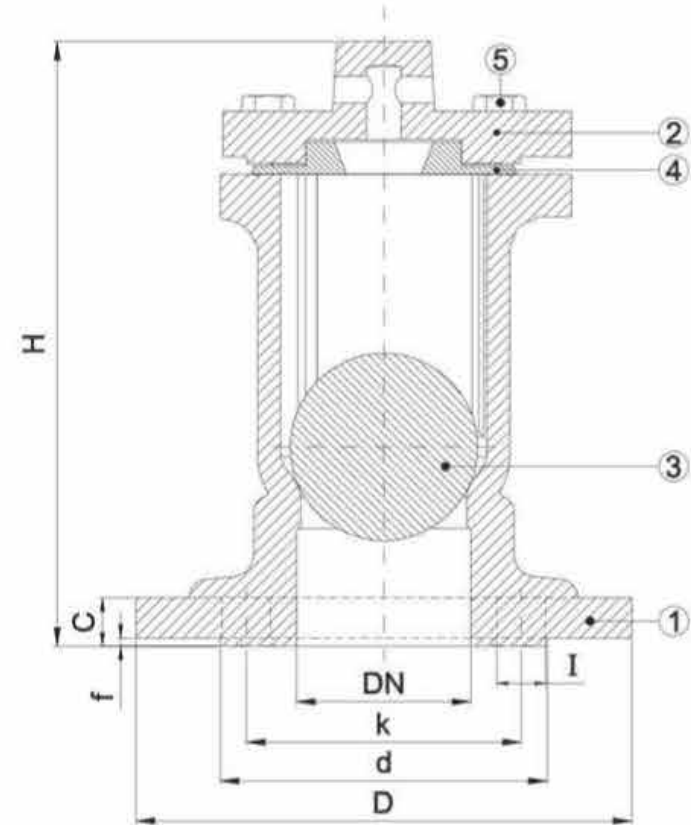
IMPACT FREE DYNAMIC VACUUM LIFTER



IMPACT FREE DYNAMIC VACUUM LIFTER

DN (RATED DIAMETER) (mm)	D (mm)	k (mm)	d (mm)	f (mm)	C (mm)	I Hole Diameter and quality	H (mm)	Weight (Kg)
050 (PN10-16-25)	165	125	99	3	20	019x4 piece	267	11
065 (PN10-16-25)	185	145	118	3	20	019x4 piece	267	11,5
080 (PN10-16-25)	200	160	132	3	22	019x8 piece	310	17
0100 (PN10-16)	220	180	156	3	24	019x8 piece	324	24,5
0100 (PN25)	235	190	156	3	28	023x8 piece	328	26
0125 (PN10-16)	250	210	184	3	26	019x8 piece	326	25
0125 (PN25)	270	220	184	3	30	028x8 piece	330	28
0150 (PN10-16)	285	240	211	3	26	023x8 piece	422	45
0150 (PN25)	300	250	211	3	34	028x8 piece	430	48
0200 (PN10)	340	295	266	4	26	023x8 piece	487	70
0200 (PN16)	340	295	266	4	30	023x12 piece	491	70
0200 (PN25)	360	310	274	4	34	028x12 piece	495	75

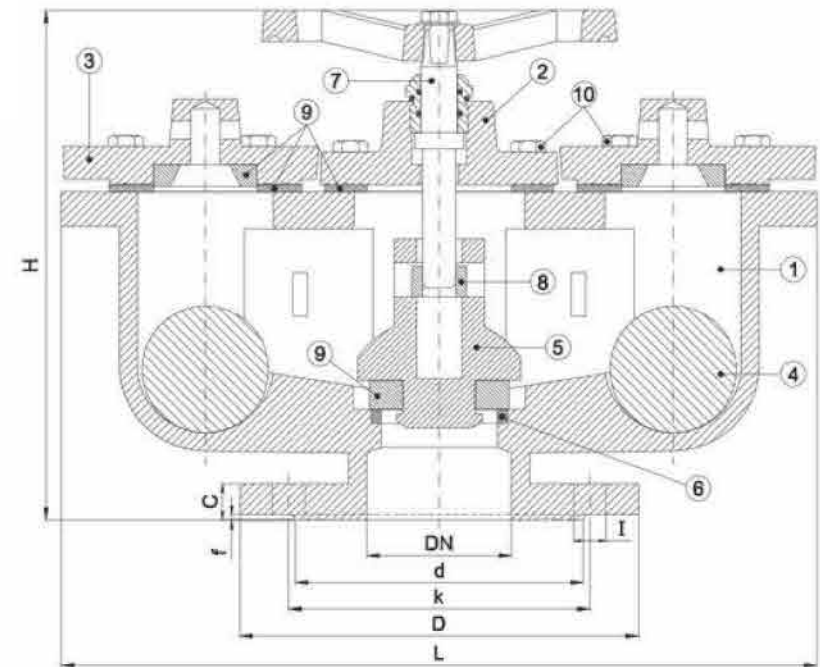
SINGLE BALL VACUUM LIFTER



SINGLE BALL VACUUM LIFTER

DN (RATED DIAMETER) (mm)	D (mm)	k (mm)	d (mm)	f (mm)	C (mm)	I Hole Diameter and quality	H (mm)	Weight (Kg)
050 (PN10-16-25)	165	125	99	3	20	019x4 piece	227	8
065 (PN10-16-25)	185	145	118	3	20	019x4 piece	229	9
080 (PN10-16-25)	200	160	132	3	22	019x8 piece	236	13
0100 (PN10-16)	220	180	156	3	24	019x8 piece	236	15
0100 (PN25)	235	190	156	3	28	023x8 piece	240	14
0125 (PN10-16)	250	210	184	3	26	019x8 piece	372	26
0125 (PN25)	270	220	184	3	30	028x8 piece	376	28
0150 (PN10-16)	285	240	211	3	26	023x8 piece	372	27
0150 (PN25)	300	250	211	3	34	028x8 piece	380	29.5
0200 (PN10)	340	295	266	4	26	023x8 piece	372	30
0200 (PN16)	340	295	266	4	30	023x12 piece	376	30
0200 (PN25)	360	310	274	4	34	028x12 piece	380	33

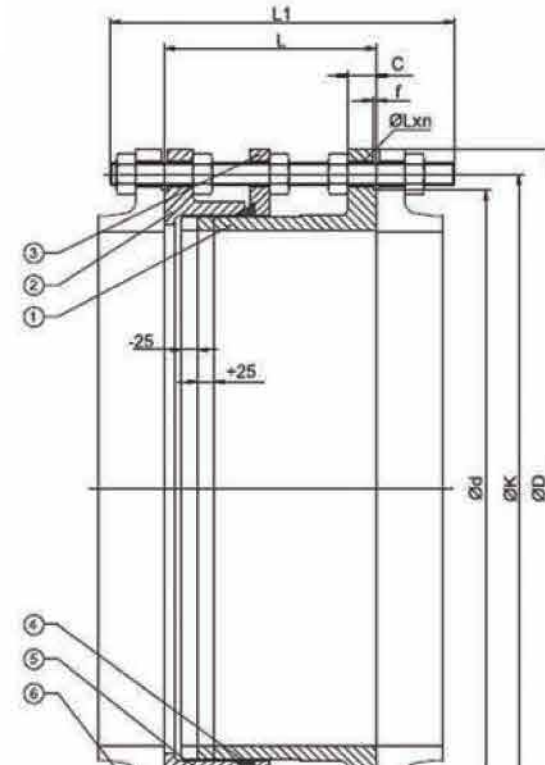
DOUBLE BALL VACUUM LIFTER



DOUBLE BALL VACUUM LIFTER

DN (RATED DIAMETER) (mm)	D (mm)	k (mm)	d (mm)	f (mm)	C (mm)	I Hole Diameter and quality	L (mm)	H (mm)	Weight (Kg)
050 (PN10-16-25)	165	125	99	3	20	019x4 piece	410	275	27
065 (PN10-16-25)	185	145	118	3	20	019x4 piece	410	275	28
080 (PN10-16-25)	200	160	132	3	22	019x8 piece	415	280	29
0100 (PN10-16)	220	180	156	3	24	019x8 piece	415	280	31
0100 (PN25)	235	190	156	3	28	023x8 piece	415	284	34
0125 (PN10-16)	250	210	184	3	26	019x8 piece	415	280	32
0125 (PN25)	270	220	184	3	30	028x8 piece	415	284	35
0150 (PN10-16)	285	240	211	3	26	023x8 piece	635	400	79
0150 (PN25)	300	250	211	3	34	028x8 piece	635	408	87
0200 (PN10)	340	295	266	4	26	023x8 piece	635	400	87
0200 (PN16)	340	295	266	4	30	023x12 piece	635	404	87
0200 (PN25)	360	310	274	4	34	028x12 piece	635	408	95
0250 (PN10)	395	350	319	4	28	023x12 piece	655	370	92
0250 (PN16)	405	355	319	4	32	028x12 piece	655	374	93
0250 (PN25)	425	370	330	4	36	031x12 piece	655	378	101

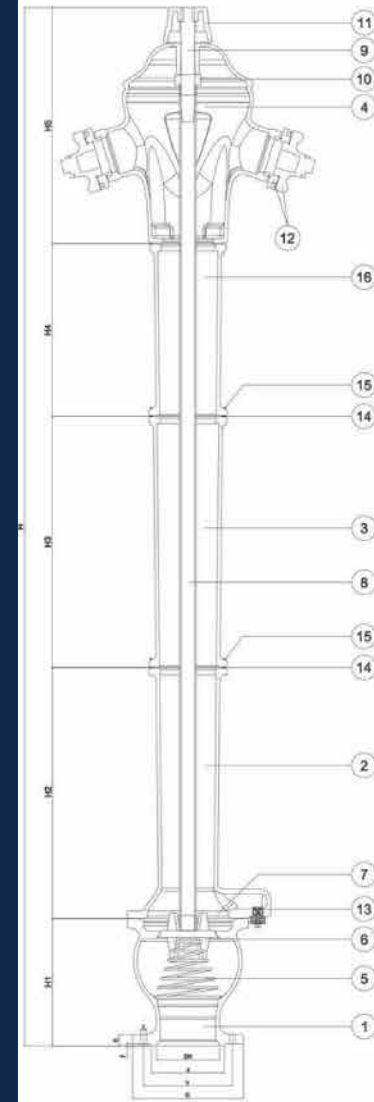
DISMANTLING PART



DISMANTLING PART

RATED DIAMETER DN	DIMENSIONS								
	PN 10			PN 16			H H	PN 10	PN 16
	D	k	D	D	k	d2xn		kg	kg
50	165	125	19x4	165	125	19x4	40	8	8
65	185	145	19x4	185	145	19x4	40	9	9
80	200	160	19x8	200	160	19x8	40	16	16
100	220	180	19x8	220	180	19x8	40	21	21
125	250	210	19x8	250	210	19x8	40	26	26
150	285	240	23x8	285	240	23x8	40	35	35
200	340	295	23x8	340	295	23x12	40	46	50
250	400	350	23x12	405	355	28x12	40	70	80
300	455	400	23x12	460	410	28x12	40	90	99
350	505	460	23x16	520	470	28x16	40	105	140
400	565	515	28x16	580	525	31x16	40	135	165
450	615	565	28x20	640	585	31x20	40	145	190
500	670	620	28x20	715	650	34x20	40	155	210
600	780	725	31x20	840	770	37x20	40	215	300
700	895	840	31x24	910	840	37x24	40	265	340
800	1015	950	34x24	1025	950	41x24	40	310	400
900	1115	1050	34x28	1125	1050	41x28	40	370	450
1000	1230	1160	37x28	1255	1170	44x28	40	450	500
1100	1340	1270	37x32	1355	1270	44x32	40	600	700
1200	1455	1380	41x32	1485	1390	50x32	40	730	840
1300	1585	1490	42x32	1585	1490	50x32	40	810	950
1400	1675	1590	44x36	1685	1590	50x36	40	890	1020
1500	1785	1700	44x36	1820	1710	57x36	40	1050	1250
1600	1915	1820	50x40	1930	1820	57x40	40	1680	2100
1800	2115	2020	50x44	2130	2020	57x44	40	2100	2800
2000	2325	2230	50x48	2345	2230	62x48	40	2400	3050

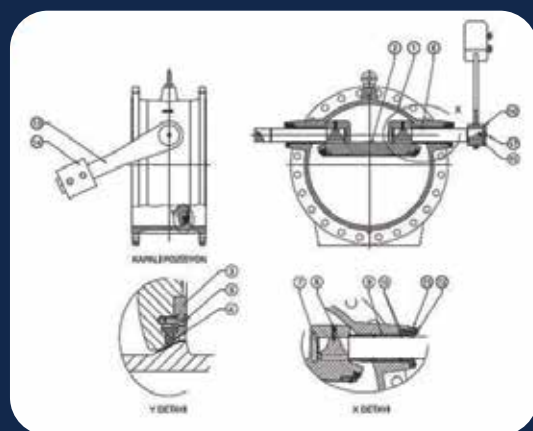
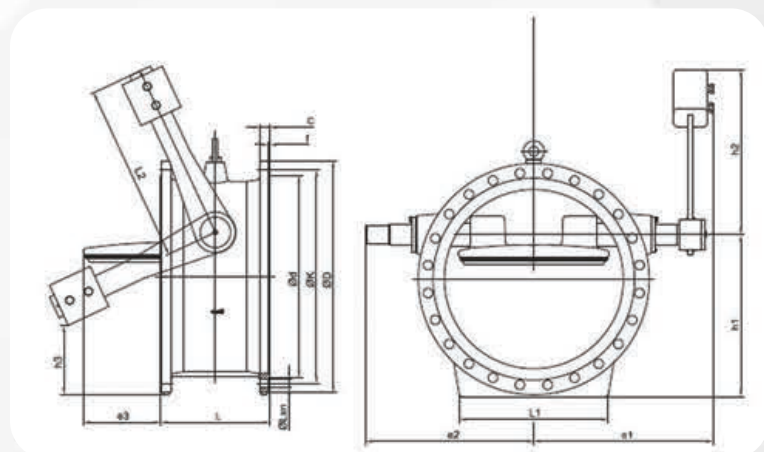
SPRING TYPE GROUND FIRE HYDRANT



SPRING TYPE GROUND FIRE HYDRANT

DN (RATED DIAMETER) (mm)	Size	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H (mm)	Weight (kg)
80	Short Size 1	250	501			498	1250	48
80	Short Size 2	250	702			498	1450	52
80	Medium Size	250	501	501		498	1750	64
80	Long Size	250	501	501	400	498	2150	74
100	Short Size 1	250	501			498	1250	52
100	Short Size 2	250	702			498	1450	57
100	Medium Size	250	501	501		498	1750	70
100	Long Size	250	501	501	400	498	2150	84

TILTING CHECK VALVE



DN	PN	L	L2	e1	e2	e3	h1	h2	h3	Wg (kg)
200	10	230	200	268	252	35	220	188	107	50
250	10	250	300	325	305	68	265	285	92	70
300	10	270	300	340	317	87	315	285	142	105
350	10	290	400	410	382	117	357	372	140	170
400	10	310	400	440	412	138	400	372	182	220
450	10	330	450	470	443	165	442	418	204	275
500	10	350	500	520	490	188	470	465	200	320
600	10	390	600	590	567	238	580	555	267	440
700	10	430	700	700	661	305	640	653	273	460
800	10	470	800	745	711	355	723	743	314	810
900	10	510	900	800	780	400	797	830	348	1100
1000	10	550	1000	870	863	460	887	935	360	1220

INFRASTRUCTURE GROUP

COMPRESSION FITTINGS

COUPLING

Size / mm	Box Quantity	Sack Quantity	Pack Quantity
20 x 20 x	150	330	15
25 x 25 x	80	200	10
32 x 32 x	50	130	5
40 x 40 x	30	70	5
50 x 50 x	20	44	4
63 x 63 x	9	27	3
75 x 75 x	7	16	1
90 x 90 x	4	10	1
110 x 110 x	2	6	1



ELBOW

Size / mm	Box Quantity	Sack Quantity	Pack Quantity
20 x 20 x	275	700	25
25 x 25 x	180	465	15
32 x 32 x	100	270	10
40 x 40 x	50	140	5
50 x 50 x	36	92	4
63 x 63 x	24	56	4
75 x 75 x	12	34	2
90 x 90 x	8	20	1
110 x 110 x	4	12	1

END CAP

Size / mm	Box Quantity	Sack Quantity	Pack Quantity
20	700	1400	50
25	425	100	25
32	250	550	25
40	135	300	15
50	74	192	12
63	48	120	6
75	32	72	4
90	16	44	4
110	10	30	2



TEE

Size / mm	Box Quantity	Sack Quantity	Pack Quantity
20 x 20 x 20	165	405	15
25 x 25 x 25	120	250	10
32 x 32 x 32	70	150	5
40 x 40 x 40	40	90	5
50 x 50 x 50	28	60	4
63 x 63 x 63	15	36	3
75 x 75 x 75	9	20	1
90 x 90 x 90	5	13	1
110 x 110 x 110	2	8	1

REDUCER TEE



Size / mm	Box Quantity	Sack Quantity	Pack Quantity
25 x 25 x 20	600	320	10
25 x 20 x 25	130	300	10
25 x 32 x 25	80	200	10
32 x 20 x 32	75	180	5
32 x 25 x 32	70	180	5
40 x 25 x 40	45	120	5
40 x 32 x 40	40	110	5
50 x 25 x 50	32	72	4
50 x 32 x 50	28	68	4
50 x 40 x 50	24	68	4
63 x 25 x 63	21	51	3
63 x 32 x 63	21	51	3
63 x 40 x 63	18	45	3
63 x 50 x 63	15	39	3
75 x 50 x 75	10	26	1
75x 63 x 75	9	26	1
90 x 63 x 90	6	18	1
90 x 75 x 90	5	15	1
110 x 63 x 110	3	9	1
110 x 75 x 110	3	9	1
110 x 90 x 110	2	9	1

REDUCER



Size / mm	Box Quantity	Sack Quantity	Pack Quantity
25 x 25	175	450	25
32 x 20	130	300	10
32 x 25	110	270	10
40 x 20	80	200	10
40 x 25	70	160	10
40 x 32	70	150	10
50 x 25	54	120	6
50 x 32	48	114	6
50 x 40	36	90	6
63 x 25	36	84	6
63 x 32	36	78	6
63 x 40	30	72	6
63 x 50	24	60	6
75 x 50	16	44	2
75 x 63	14	36	2
90 x 63	8	26	2
90 x 75	8	20	2
110 x 63	6	20	1
110 x 75	5	17	1
110 x 90	5	13	1

MALE ADAPTOR



Size / mm	Box Quantity	Sack Quantity	Pack Quantity
20 x 1/2"	650	1300	50
20 x 3/4"	550	1200	50
25 x 1/2"	375	850	25
25 x 3/4"	375	850	25
25 x 1"	375	800	25
32 x 1/2"	200	550	25
32 x 3/4"	200	550	25
32 x 1"	200	550	25
32 x 1 1/4"	200	450	25
40 x 1"	120	270	15
40 x 1 1/4"	105	270	15
40 x 1 1/2"	105	270	15
50 x 1 1/4"	70	180	10
50 x 1 1/2"	70	180	10
50 x 2"	70	170	10
63 x 1 1/2"	48	120	6
63 x 2"	48	120	6
63 x 2 1/2"	42	102	6
75 x 2"	32	65	4
75 x 2 1/2"	28	60	4
75 x 3"	28	60	4
90 x 2 1/2"	16	40	4
90 x 3"	16	40	4
90 x 4"	16	40	4
110 x 3"	8	28	2
110 x 4"	8	26	2

FEMALE ADAPTOR



Size / mm	Box Quantity	Sack Quantity	Pack Quantity
20 x 1/2"	500	1200	50
20 x 3/4"	500	1100	50
25 x 1/2"	350	850	25
25 x 3/4"	350	800	25
25 x 1"	300	650	25
32 x 3/4"	200	500	25
32 x 1"	200	475	25
32 x 1 1/4"	175	400	25
40 x 1"	120	270	15
40 x 1 1/4"	105	270	15
40 x 1 1/2"	105	240	15
50 x 1 1/4"	70	180	10
50 x 1 1/2"	70	180	10
50 x 2"	60	160	10
63 x 1 1/2"	42	114	6
63 x 2"	42	102	6
63 x 2 1/2"	42	96	6
75 x 2"	24	64	4
75 x 2 1/2"	24	60	4
75 x 3"	24	52	4
90 x 2 1/2"	16	40	4
90 x 3"	16	40	4
90 x 4"	16	40	4
110 x 3"	8	26	2
110 x 4"	8	26	2

MALE ELBOW



Size / mm	Box Quantity	Sack Quantity	Pack Quantity
20 x 1/2"	475	1050	25
20 x 3/4"	400	900	25
25 x 1/2"	300	600	15
25 x 3/4"	270	600	15
25 x 1"	240	570	15
32 x 3/4"	170	400	10
32 x 1"	170	380	10
32 x 1 1/4"	140	320	10
40 x 1"	100	230	5
40 x 1 1/4"	100	220	5
40 x 1 1/2"	100	210	5
50 x 1 1/4"	60	136	4
50 x 1 1/2"	60	136	4
50 x 2"	56	120	4
63 x 1 1/2"	32	88	4
63 x 2"	32	80	4
63 x 2 1/2"	32	80	4
75 x 2"	18	52	2
75 x 2 1/2"	18	50	2
75 x 3"	16	46	2
90 x 2 1/2"	11	32	1
90 x 3"	11	32	1
90 x 4"	12	28	1
110 x 3"	6	20	1
110 x 4"	6	20	1

FEMALE ELBOW



Size / mm	Box Quantity	Sack Quantity	Pack Quantity
20 x 1/2"	375	900	50
20 x 3/4"	375	750	50
25 x 1/2"	300	600	25
25 x 3/4"	255	600	25
25 x 1"	205	480	25
32 x 3/4"	160	400	25
32 x 1"	150	350	25
32 x 1 1/4"	120	280	25
40 x 1"	100	220	15
40 x 1 1/4"	90	210	15
40 x 1 1/2"	80	180	15
50 x 1 1/4"	56	136	10
50 x 1 1/2"	56	136	10
50 x 2"	44	112	10
63 x 1 1/2"	32	92	6
63 x 2"	32	84	6
63 x 2 1/2"	28	72	6
75 x 2"	18	52	4
75 x 2 1/2"	18	48	4
75 x 3"	18	42	4
90 x 2 1/2"	10	32	4
90 x 3"	10	30	4
90 x 4"	9	26	4
110 x 3"	6	24	2
110 x 4"	6	18	2

MALE TEE



Size / mm	Box Quantity	Sack Quantity	Pack Quantity
20 x 1/2" x 20	225	525	15
20 x 3/4" x 20	210	495	15
25 x 1/2" x 25	150	350	10
25 x 3/4" x 25	150	350	10
25 x 1" x 25	130	300	10
25 x 1 1/4" x 25	120	280	10
32 x 3/4" x 32	90	220	10
32 x 1" x 32	90	220	10
32 x 1 1/4" x 32	80	200	10
40 x 1" x 40	55	130	5
40 x 1 1/4" x 40	50	120	5
40 x 1 1/2" x 40	45	110	5
50 x 1" x 50	36	88	4
50 x 1 1/4" x 50	32	76	4
50 x 1 1/2" x 50	32	72	4
50 x 2" x 50	28	68	4
63 x 1 1/4" x 63	18	54	3
63 x 1 1/2" x 63	18	51	3
63 x 2" x 63	11	48	3
63 x 2 1/2" x 63	15	39	3
75 x 2" x 75	12	30	1
75 x 2 1/2" x 75	11	29	1
75 x 3" x 75	10	25	1
90 x 2 1/2" x 90	7	19	1
90 x 3" x 90	7	18	1
90 x 4" x 90	7	17	1
110 x 3" x 110	4	11	1
110 x 4" x 110	4	11	1

FEMALE TEE



Size / mm	Box Quantity	Sack Quantity	Pack Quantity
20 x 1/2" x 20	225	495	15
20 x 3/4" x 20	195	465	15
25 x 1/2" x 25	150	370	10
25 x 3/4" x 25	140	330	10
25 x 1" x 25	130	300	10
32 x 1/2" x 32	80	220	10
32 x 3/4" x 32	80	220	10
32 x 1" x 32	80	200	10
32 x 1 1/4" x 32	80	180	10
40 x 3/4" x 40	60	130	5
40 x 1" x 40	55	130	5
40 x 1 1/4" x 40	50	120	5
40 x 1 1/2" x 40	45	100	5
50 x 3/4" x 50	36	88	4
50 x 1" x 50	36	84	4
50 x 1 1/4" x 50	32	80	4
50 x 1 1/2" x 50	32	76	4
50 x 2" x 50	24	64	4
63 x 1 1/4" x 63	24	54	3
63 x 1 1/2" x 63	18	51	3
63 x 2" x 63	18	48	3
63 x 2 1/2" x 63	18	45	3
63 x 2 1/2" x 63	15	39	3
75 x 2" x 75	11	29	1
75 x 2 1/2" x 75	11	28	1
75 x 3" x 75	10	25	1
90 x 2 1/2" x 90	6	19	1
90 x 3" x 90	6	17	1
90 x 4" x 90	6	16	1
110 x 3" x 110	3	11	1
110 x 4" x 110	3	11	1

LOCK TYPE ELBOW

Size / mm	Box Quantity	Sack Quantity	Pack Quantity
16 x 16	350	800	50
20 x 16	350	750	50
20 x 20	300	750	50
25 x 16	325	600	25
25 x 20	275	600	25
25 x 25	200	450	25
32 x 16	165	350	25
32 x 20	165	350	15
32 x 25	135	330	15
32 x 32	105	250	15



LOCK TYPE TEE

Size / mm	Box Quantity	Sack Quantity	Pack Quantity
16 x 16 x 16	250	500	25
16 x 20 x 16	225	500	25
16 x 25 x 16	175	400	25
20 x 16 x 20	225	500	25
20 x 20 x 20	225	500	25
20 x 25 x 20	150	400	25
25 x 16 x 25	195	345	15
25 x 20 x 25	165	300	15
25 x 25 x 25	135	300	15
32 x 16 x 32	100	200	10
32 x 20 x 32	90	200	10
32 x 25 x 32	90	200	10
32 x 32 x 32	70	170	10

REDUCER ELBOW



Size / mm	Box Quantity	Sack Quantity	Pack Quantity
20 x 20	405	495	15
32 x 25	230	300	10
40 x 32	140	170	5
50 x 40	80	108	4
63 x 50	48	72	4
75 x 50	32	40	2
75 x 63	32	40	2
90 x 63	20	24	1
90 x 75	20	24	1
110 x 90	12	16	1

LOCK TYPE MALE ADAPTOR



Size / mm	Box Quantity	Sack Quantity	Pack Quantity
16 x ½"	900	1600	50
16 x ¾"	800	1500	50
16 x 1"	600	1250	50
16 x 1 ¼"	300	800	50
20 x ½"	800	1600	50
20 x 1 ¾"	700	1400	50
20 x 1	550	1200	50
20 x 1 ¼"	300	750	50
25 x ½"	525	1000	25
25 x ¾"	475	900	25
25 x 1"	450	800	25
25 x 1 ¼"	325	600	25
32 x ½"	225	500	25
32 x ¾"	225	500	25
32 x 1	225	500	25
32 x 1 ¼"	200	400	25

BALL VALVE

Size / mm	Box Quantity
20 x 20	210
25 x 25	130
32 x 32	95
40 x 40	55
50 x 50	32
63 x 63	20
75 x 75	14
90 x 90	7
110 x 110	5



VALVE BOX

Size / mm	Lengths	Height	Width	Pack Quantity	Sack Quantity
6	265	230	265	1	36
10	380	270	375	1	15
12	555	305	425	1	10
14	670	305	525	1	5





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