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NEXT GENERATION THERMAX PIPING SOLUTIONS

MADE WITH  
**GERMAN**  
TECHNOLOGY



## Company Profile

*"Quality is not an act, it is a habit"*



Dear Customers of NEUGREEN Pipe and Fittings System

We live in a world that changes all the time, but no matter how it changes, one thing is eternal: Our pursuit of product quality and conservation of the win-win co-operation relationship with our partners. We believe in "building relationships & delivering quality". Significant changes have taken place in the economic scenario during the past decade. Increased global competition has brought in both challenges and opportunities. The challenges are to not only retain the market share but also to increase it steadily through quality consciousness and stable prices.

Manufacturing is more than just putting parts together. It's coming up with ideas, testing principles and perfecting the engineering as well as final assembly."

"GREEN MANUFACTURING CO. LIMITED" is a leading unit in organized sector engaged in manufacturing of NEUGREEN next generation Thermax Pipe & Fittings system, Ductile Iron Pipe & Fittings, Malleable Iron Pipe & Fittings and Grooved Fittings. Our products have been widely accepted in the market due to superior quality and accuracy. Due to our commitment towards quality consciousness, development systems and implementation methods, our company has been awarded ISO 9001-2008 certification from "UL MANAGEMENT SYSTEM SOLUTIONS. The latest plant and machinery installed by the company is managed by a competent team of professionals in engineering and technology.

### **"Customer Loyalty is Priceless"**

Customer satisfaction has always been the company's top priority, and we constantly stick to the principle to provide customer with a value-added solution rather than simply delivering products.

Quality is never an accident: it is always the result of high intention, sincere effort, intelligent direction and skillful execution: it represents the wise choice of many alternatives. We insist on the management philosophy to operate with integrity, first-rate service, harmony, environment friendly, serving the community: inherit management principle, 'people-oriented management-innovation, continuous improvement, and pursue enterprise spirit. innovation, sincerity and high efficiency. Depending on good business reputation, reliable product quality and attentive services, we win the belief, support & earn positive feedback from our wide range of customers.





NEUGREEN Thermax Pipe & Fittings system is a safe, long lasting, reliable and cost effective solution for hot and cold water. This system is suitable for all plumbing and potable water applications. The pipe and fittings are made of Polypropylene Random Co-polymer (Thermax) type 3, procured from renowned European petrochemical majors. Indigenously manufactured complete range is available in 20 mm to 110 mm with necessary heating tools and accessories. Threaded inserts in the transition fittings are made from brass and duly nickel plated to withstand chemical corrosion at elevated temperatures. The specific chemical structure of green Thermax provides the well balanced mechanical properties and superior long term heat resistance.

#### FEATURES AND BENEFITS

- Light weight, easy and quick assembly.
- Most suitable for potable drinking water.
- Excellent corrosion and chemical resistance.
- Bacteriologically neutral.
- Low thermal conductivity.
- Reduced heat loss due to smooth internal surface.
- High impact strength.
- Safe and watertight joints.
- Resistance to scaling.
- Resistance to frost.
- Usable in seismic area.
- Resistance to abrasion.
- Resistance to stray current.
- Low noise system.
- Long operational durability.
- Overall economic.



#### PROPERTY OF RAW MATERIAL

NEUGREEN - PPR Plumbing Pipe system is made from Basel & Hyosung materials which are considered as one of the best Thermax material all over the world, a Random Co-polymer Polypropylene (Thermax) approved for the production of pipe and fittings according to DIN 8078 & DIN 16962 standards. PPR Raw material is a thermoplastic resin which is transformed in to the finished product by a rise in temperature, which plasticises the material, allowing the pipe to be produced by means of EXTRUSION, and the fittings by MOULDING. The raw material is supplied in granules white colored. Special heat resistance is one of the features of this material, its physical and chemical properties are well suited to the transfer of potable water and in the heating sector. Depending on pressure it is possible to use NEUGREEN - pipes for constant temperatures up to 70°C with service life of more than 50 years. Peak temperatures of 100°C arising from short disruptions are not creating any problems.

## Technical Information

### Polypropylene Random Copolymer

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Why choose this type of material?

The thermoplastic resins most often used to make pipes for water and heating systems are:

- PE-X cross linked polyethylene
- PP-C copolymer polypropylene
- PB polibutene

All the above - mentioned resins belong to the polyolephine family, a group of plastic materials obtained by polymerization of unsaturated hydrocarbons, which have one or more double links.

In the conventional polymer, the molecular chains are irregularly placed; they have fairly good mobility, heat causes oscillation in these chains until they break, resulting in alteration of the material's characteristics. Two ways of preventing this problem have been tested.

Researchers have selected polymers with long molecular chains because, as molecular weight increases, the mechanical characteristics of manufactured items improve; these chains must be as linear as possible, i.e. they must show a low number of ramifications and a high degree of crystallization by extrusion these chains are submitted to stretch, allowing crystallization of a further percentage.

Isotactic polymers show much better mechanical characteristics as compared to their correspondent amorphous polymers; they maintain their properties upto temperatures close to melting point. This describes the nature of polypropylene techno- polymers in a simple way.

The other way tested by researchers is creation of chemical links among molecular chains in order to make them much steadier and avoid their sliding. This procedure has been adopted for the cross linking of polyethylene-PE- X. There is a very big production of PP Random Co-polymers, it is therefore important that fitness of raw material used be proven; it must be suitable to bear the thermo mechanical stresses required of it in operation for a long time (50 years).

Thus, it is guaranteed that goods manufactured have high mechanical properties; it has been stabilized with appropriate anti-oxidants to postpone the combined effects of pressure and temperature for a very long time.





## WALL THICKNESS AND MASS CORRESPONDING TO DIFFERENT PIPE SIZES

D (MM)	SDR 11 / PN 10		SDR 7.4 / PN 16		SDR 6 / PN 20	
OUTER DIAMETER OF PIPE (mm)	S THICKNESS (mm)	MASS (kg/m)	S THICKNESS (mm)	MASS (kg/m)	S THICKNESS (mm)	MASS (kg/m)
20	1.9	0.107	2.8	0.148	3.4	0.172
25	2.3	0.164	3.5	0.230	4.2	0.266
32	2.9	0.261	4.4	0.370	5.4	0.434
40	3.7	0.412	5.5	0.575	6.7	0.671
50	4.6	0.638	6.9	0.896	6.3	1.04
63	5.8	1.01	8.6	1.41	10.5	1.65
75	6.8	1.41	10.3	2.01	12.5	2.34
90	9.2	2.03	12.3	2.87	15.0	3.38
110	10.0	3.01	15.1	4.3	18.3	5.01
160	14.6	6.38	21.9	9.04	26.6	10.5

## PERMISSIBLE WORKING PRESSURE

The below table list is the allowable working pressure for pipes with different pressure class under specific temperature and work life. Under normal work pressure and conditions, the life of NEUGREEN THERMAX Piping system is guaranteed to be 50 years at least.

TEMPERATURE in C	YEARS OF SERVICE	ALLOWABLE WORKING PRESSURE, IN BAR FOR				TEMPERATURE in C	YEARS OF SERVICE	ALLOWABLE WORKING PRESSURE, IN BAR FOR			
		PN-6 (SDR 17.6)	PN-10 (SDR 11)	PN-16 (SDR 7.4)	PN-20 (SDR 6)			PN-6 (SDR 17.6)	PN-10 (SDR 11)	PN-16 (SDR 7.4)	PN-20 (SDR 6)
10°C	1	10.6	17.6	27.8	35.0	50°C	1	5.5	9.1	14.4	18.2
	5	10.0	16.6	26.4	33.2		5	5.1	8.5	13.5	17.0
	10	9.7	16.1	25.5	32.1		10	5.0	8.2	13.1	16.5
	25	9.4	15.6	24.7	31.1		25	4.8	8.0	12.6	15.9
	50	9.1	15.2	24.0	30.3		50	4.6	7.7	12.2	15.4
	100	8.9	14.8	23.4	29.5		100	4.5	7.4	11.8	14.9
20°C	1	9.0	15.0	23.8	30.0	60°C	1	4.6	7.6	12.1	15.5
	5	8.5	14.1	22.3	28.1		5	4.3	7.2	11.4	14.3
	10	8.2	13.7	21.7	27.3		10	4.2	6.9	11.0	13.8
	25	8.0	13.3	21.1	26.5		25	4.0	6.7	10.5	13.3
	50	7.8	12.9	20.4	25.7		50	3.8	6.4	10.1	12.7
	100	7.5	12.5	19.8	24.9	70°C	1	3.9	6.5	10.3	13.0
30°C	1	7.7	12.8	20.2	25.5		5	3.6	6.0	9.5	11.9
	5	7.2	12.0	19.0	23.9		10	3.5	5.9	9.3	11.7
	10	7.0	11.6	18.3	23.1		25	3.0	5.1	8.0	10.1
	25	6.7	11.2	17.4	22.3		50	2.6	4.3	6.7	8.5
	50	6.6	10.9	17.3	21.8	80°C	1	3.3	5.5	8.6	10.9
	100	6.4	10.6	16.9	21.2		5	2.9	4.8	7.6	9.6
40°C	1	6.5	10.8	17.1	21.5		10	2.4	4.0	6.3	8.0
	5	6.1	10.1	16.0	20.2	95°C	25	1.9	3.2	5.1	6.4
	10	5.9	9.8	15.6	19.6		1	2.3	3.9	6.1	7.7
	25	5.7	9.4	15.0	18.8		5	1.5	2.5	4.0	5.0
	50	5.5	9.2	14.5	18.3		(10)'	(1.3)'	(2.1)'	(3.4)'	(4.2)'
	100	5.4	8.9	14.1	17.8						

## Linear Thermal Expansion

Linear thermal expansion depends on the many factors like raw materials, environmental temperature, working temperature, etc.

Normally, Thermax pipe will not experience linear thermal expansion under room temperature. When the pipe involves with thermal conditions, like hot or warm water transportation, or installed in places with fluctuated temperature, then the following factors should be carefully consider:

coefficient of linear expansion: Normally it is positive value. It means if this coefficient is higher, the linear expansion will be greater when the pipe is subject to heat.

Difference between max working temperature and installation temperature:  $\Delta T = T_{\text{work}} - T_{\text{installation}}$

The length of the straight pipe without any turn or branch.

**The following is the coefficient of linear expansion of Thermax pipe:**

Type of Thermax Pipe	Coefficient of Linear Expansion ( $\alpha$ )(mm/m.K)
Multi Layer Pipe	0.15
Multi Layer Thermax Pipe	$\leq 0.05$

### NEUGREEN PIPING SYSTEMS ARE USED IN:

- All type of commercial & residential buildings like hotels, hospitals, high rise buildings, individual houses etc.
- Factories with high-pressure water and compressed air circuits.
- Rain drainage and collection systems.
- Indoor and outdoor swimming pools, gyms and their water filtration circuits and water installations.
- Piping networks for all types of irrigation and agriculture applications and pressurized networks.
- Piping networks for all types for industrial applications for the delivery of aggressive chemicals including many acids, alkaline and other reactive and corrosive chemicals.
- Piping networks for all types of chilled water application and cooling systems networks.
- Piping networks for heating installations from the boiler outlets or water heating unit up to the individual radiators or heat exchangers.

### NEUGREEN PIPING SYSTEMS ARE ALSO USED IN:

- Connections from municipality mains to the tanks and reservoirs.
- Boilers and radiator connections and networks.
- Risers for water delivery, ventilation, and pressure relief.
- Water transport from pumps to upper tanks and distribution points.
- Connections through meters and distributor manifolds.
- Distributions inside flats, apartments, houses etc.
- Underfloor network distribution.





## MULTI LAYER THERMAX PIPES

NEUGREEN® adds to its range of products through its indigenous R & D

### UV STABILIZED LAYER

Light and oxygen induce degradation reactants in plastic that may not only harm them visually but also exert a detrimental influence on mechanical and physical properties thus the life of plastic product reduces drastically. Moreover, the environmental factors like temperature, humidity and pressure accelerate process. Thus the stabilization of polymers from UV (ultra violet rays from sun) becomes very important.

### ADVANTAGES

- UV Stabilizers contain various chemical properties, which give the protection against UV light by various chemical mechanisms.
- Colors like Black, Green already have good resistance to UV rays, but addition of UV stabilizer further enhance the light and thermal stability of product.
- UV stabilizers impart long term durability and enhance life of the product.
- It helps to maintain the properties of polymers.

### ANTI MICROBIAL THERMAX LAYER

Antimicrobials layer prevents the growth of bacteria/microbes/algae etc. and preserves the pipes from them. This Antimicrobials additive is very low migrating which makes it last for the entire life of product. This Antimicrobials Layer is stable upto 250°C temperature.

### BENEFITS

- Antimicrobials Layer is highly food grade.
- Water storability increases tremendously i.e even for the water lying stagnant in the pipe. It remains hygienic without any bacterial formation for a long period of time.
- There is no bad odour in the water.

### BENEFITS OF GLASS FIBER THERMAX PIPES:

1. Corrosion Resistance: Glass Fiber Thermax pipes are highly resistant to corrosion from various chemicals & aggressive substances and also suitable for other wide range of applications, including chemical industries.
2. Light weight: Light weight pipes are easy to handle and install, reducing labor and transportation costs.
3. High Temperature Resistance: They can withstand high-temperature environment and suitable for hot water distribution system.
4. Longevity: Glass Fiber Thermax pipes have a long service life due to their durability and resistance to wear and tear.
5. Low Thermal Conductivity: They have low thermal conductivity, helping to maintain the temperature of the fluid being transported.
6. Smooth Interior Surface: These pipes have a smooth interior surface, which reduces friction and ensures efficient fluid flow.
7. Low Maintenance: They require minimal maintenance over their lifetime, reducing operational cost.
8. Eco-Friendly: Glass Fiber Thermax pipes are recyclable and have a low environmental impact.
9. Leak Resistance: These pipes have excellent joint integrity, reducing the risk of leakage and water loss.
10. Versatility: They can be used for various applications, including water supply, HVAC system, chemical transport, and more.
11. Flexibility: Glass Fiber Thermax pipes are flexible and can accommodate thermal expansion and contraction, reducing the need for expansion joints.



## WELDING PRINCIPLES OF NEUGREEN® THERMAX PIPE AND FITTINGS



### PIPE CUTTING...

Welding machine is heated up to 260°C. When the control light is went off, (at 260°C) welding process can be started. Pipe should be cut at appropriate length perpendicular to the pipe axis. Welding distance should be marked from the pipe.



### IF IT'S AN ALUMINIUM FOILED PIPE...

A special peeler is used to take off the co-extruded PP layer and Aluminium Foil.



### PIPE AND FITTINGS ARE HEATED

Welding surfaces of pipes and fittings should be clean. If necessary welding surfaces should be cleaned with alcohol and dried with a dry cloth. During welding, neither pipe nor fittings should be moved. Duration of heating should be determined as shown in the below table.



### AND JOINED NOT TO BE SEPERATED AGAIN.

When the heating process ends, they should be taken out quickly and joined by pressing one to another axially without twisting. Welding machine should be cleaned after every operation for the next use.

## RULES FOR NEUGREEN® PPRC WELDING (DVS RULES NO: 2207, PART 11)

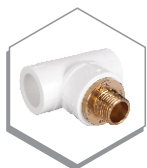
D (MM)	HEAT UP TIME (sec.)	COOLING TIME (min.)	DEPTH OF WELDING (mm)	TIME OF REMOVAL (sec.)
20	5	2	14	4
25	7	2	15	4
32	8	4	16	6
40	12	4	18	6
50	18	4	20	6
63	24	6	24	8
75	30	6	26	8
90	40	6	29	8
110	50	8	32.5	10

### POINTS TO BE NOTED:

1. Pipe and fittings are to be heated simultaneously and only once. Second heating is not permitted.
2. Heating and welding operations must not be interrupted.
3. Do not twist or turn pipe and fitting while inserting and detaching from heating device.
4. Welding at ambient temperature below 260°C is not permitted.

### CONCEALED WORK:

While doing installation in bathroom, it is easier to make the required network on floor by proper measurement of different pipe lengths. To avoid misalignment, guiding marks on pipes and fittings should be referred.



THE SYSTEM TRANSPORTING HOT WATER CONTINUOUSLY AT A TEMPERATURE OF 70°C CAN LASTS FOR MORE THAN 50 YEARS UNDER NORMAL CONDITION AT 8.5 BAR PRESSURE FOR EXPOSED LINES, THIS RECOMMENDATION IS APPLICABLE ONLY FOR THE UV-STABILIZED SYSTEM.



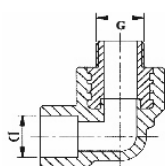
## Thermax Glass Fiber Composite Pipe PN 16



## Thermax Glass Fiber Composite Pipe PN 20



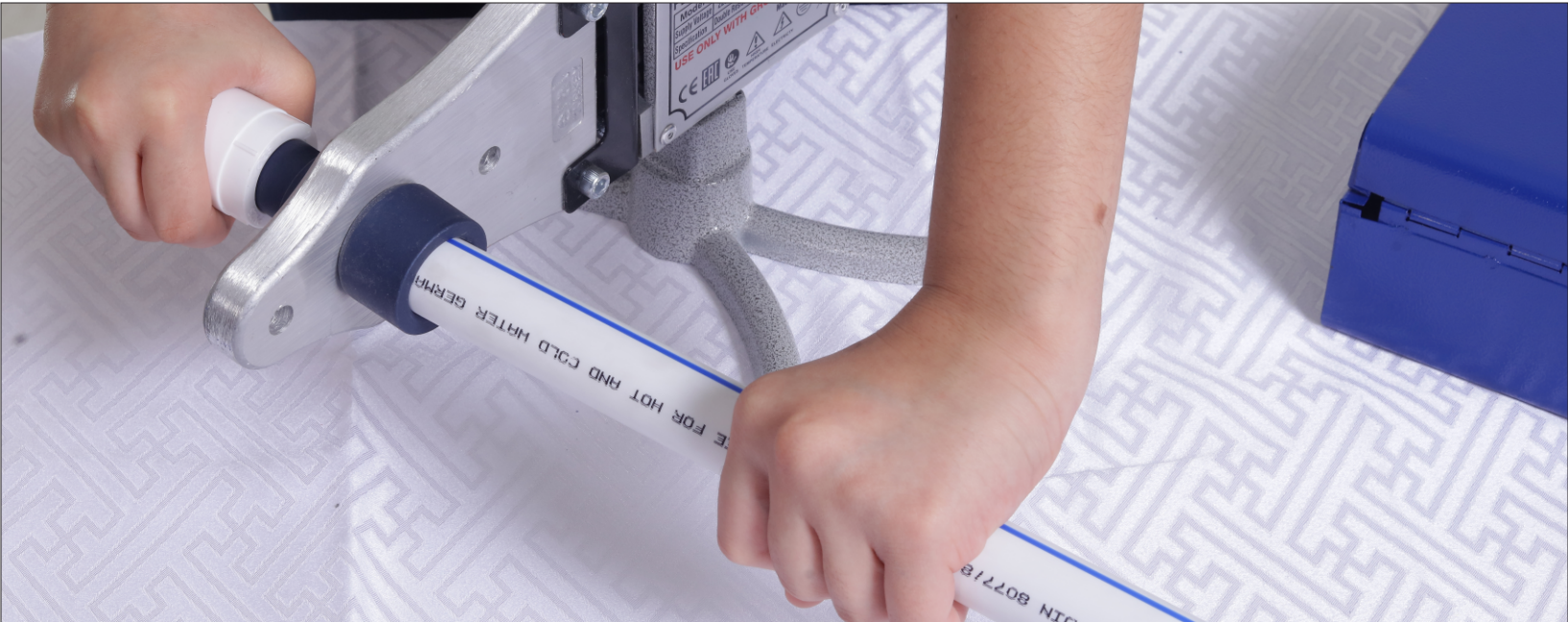
## Male Threaded Elbow PN 25



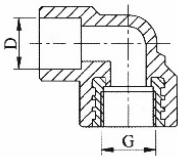
Art. No.	Dimension	Wall Thickness	Qty. Per Bundle
NP20	20	2.8	—
NP25	25	3.5	90 meters
NP32	32	4.4	60 meters
NP40	40	5.5	30 meters
NP50	50	6.9	24 meters
NP63	63	8.6	coming soon
NP75	75	10.3	coming soon
NP90	90	12.3	coming soon
NP110	110	15.1	coming soon

Art. No.	Dimension	Wall Thickness	Qty. Per Bundle
NPP20	20	3.4	—
NPP25	25	4.2	90 meters
NPP32	32	5.4	60 meters
NPP40	40	6.7	30 meters
NPP50	50	8.3	24 meters
NPP63	63	10.5	coming soon
NPP75	75	12.5	coming soon
NPP90	90	15	coming soon
NPP110	110	18.3	coming soon

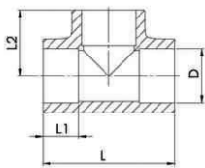
Art. No.	Dimension	Packing per Pkt.	D	G
NPMTE20H	20 mm x 1/2"	coming soon	19	1/2"
NPMTE20P	20 mm x 3/4"	coming soon	19	3/4"
NPMTE25H	25 mm x 1/2"	10 pcs	24	1/2"
NPMTE25P	25 mm x 3/4"	10 pcs	24	3/4"
NPMTE32H	32 mm x 1/2"	10 pcs	31	1/2"
NPMTE32P	32 mm x 3/4"	10 pcs	31	3/4"
NPMTE321	32 mm x 1"	5 pcs	31	1"



### Female Threaded Elbow PN 25



### Male Threaded Tee PN 25



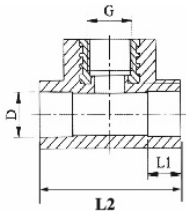
Art. No.	Dimension	Packing per Pkt.	D	G
NPFTE20H	20 mm x 1/2"	coming soon	19	1/2"
NPFTE20P	20 mm x 3/4"	coming soon	19	3/4"
NPFTE25H	25 mm x 1/2"	10 pcs	24	1/2"
NPFTE25P	25 mm x 3/4"	10 pcs	24	3/4"
NPFTE32H	32 mm x 1/2"	10 pcs	31	1/2"
NPFTE32P	32 mm x 3/4"	10 pcs	31	3/4"
NPFTE321	32 mm x 1"	5 pcs	31	1"

Art. No.	Dimension	Packing per Pkt.	D	G	L1(mm)	L2(mm)
NPMTT20H	20 x 1/2" x 20 mm	coming soon	19	1/2"	14.5	37.0
NPMTT20P	20 x 3/4" x 20 mm	coming soon	19	3/4"	14.5	37.0
NPMTT25H	25 x 1/2" mm	10 pcs	24	3/4"	16.0	37.5
NPMTT25P	25 x 3/4" mm	5 pcs	24	1/2"	16.0	37.5
NPMTT32H	32 x 1/2" mm	7 pcs	31	3/4"	18.0	48.5
NPMTT32P	32 x 3/4" mm	5 pcs	31	1/2"	18.0	62.5
NPMTT321	32 x 1" x 32 mm	5 pcs	31	1"	18.0	62.5

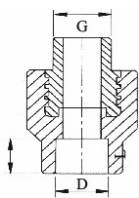




### Female Threaded Tee PN 25



### Male Threaded Adaptor PN 25

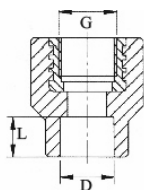


Art. No.	Dimension	Packing per Pkt.	D	G	L1(mm)	L2(mm)
NPFTT20H	20 x 1/2" x 20 mm	coming soon	19	1/2"	14.5	37.0
NPFTT20P	20 x 3/4" x 20 mm	coming soon	19	3/4"	14.5	37.0
NPFTT25H	25 x 1/2" x 25 mm	10 pcs	24	1/2"	16.0	37.5
NPFTT25P	25 x 3/4" x 25 mm	10 pcs	24	3/4"	16.0	37.5
NPFTT32H	32 x 1/2" x 32 mm	5 pcs	31	1/2"	18.0	48.5
NPFTT32P	32 x 3/4" x 32 mm	5 pcs	31	3/4"	18.0	62.5
NPFTT321	32 x 1" x 32 mm	5 pcs	31	1"	18.0	62.5

Art. No.	Dimension	Packing per Pkt.	D	K	L (mm)
NPMTA20H	20 mm x 1/2"	coming soon	19	1/2"	17.5
NPMTA20P	20 mm x 3/4"	coming soon	19	3/4"	17.5
NPMTA25P	25 mm x 1/2"	10 pcs	24	1/2"	17.5
NPMTA25H	25 mm x 3/4"	10 pcs	24	3/4"	17.5
NPMTA32H	32 mm x 1/2"	10 pcs	31	1/2"	21.2
NPMTA32P	32 mm x 3/4"	10 pcs	31	3/4"	21.2
NPMTA321	32 mm x 1"	6 pcs	31	1"	21.6
NPMTA401	40 mm x 1"	coming soon	38.8	1"	21.6
NPMTA40S	40 mm x 1 1/4"	coming soon	38.8	1 1/4"	22.1
NPMTA50D	50 mm x 1 1/2"	coming soon	48.9	1 1/2"	25.5

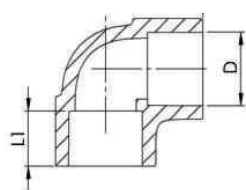
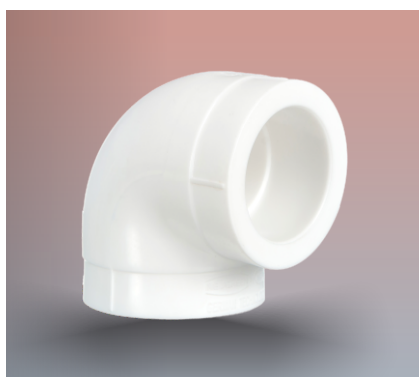


## Female Threaded Adaptor PN 25



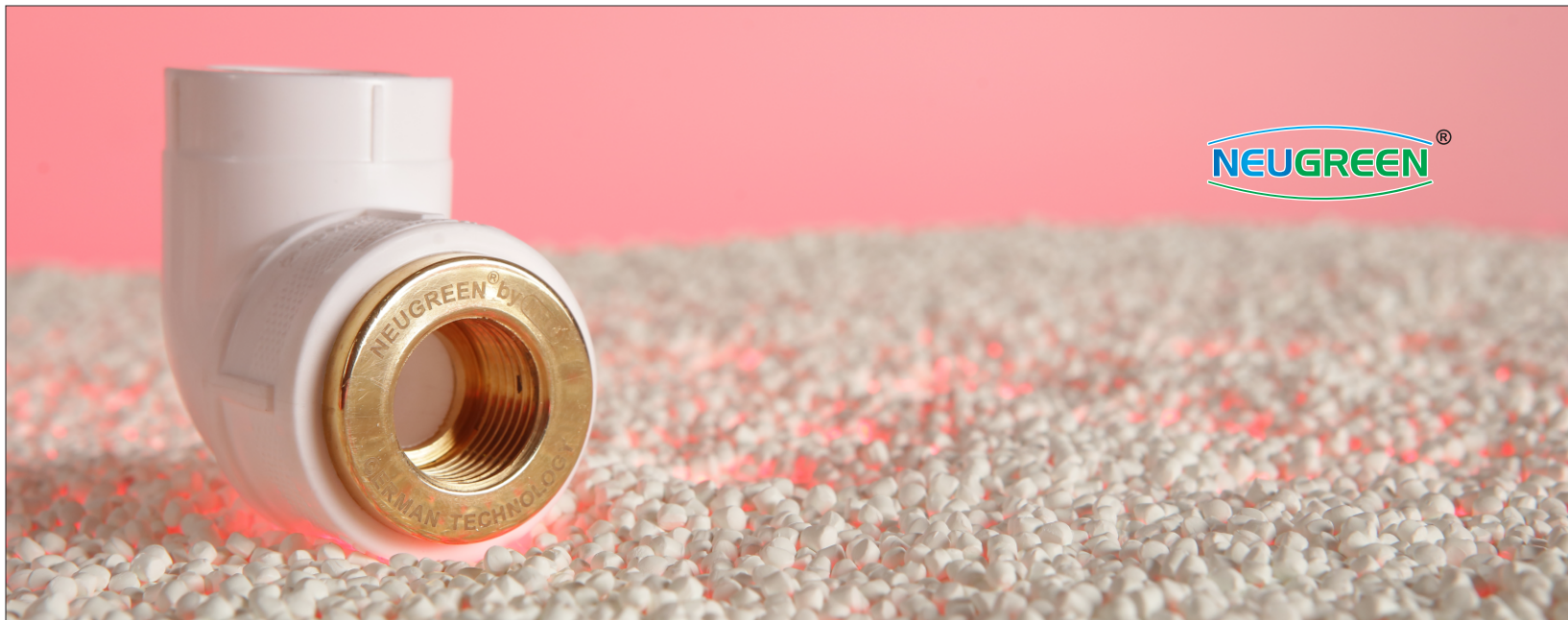
Art. No.	Dimension	Packing per Pkt.	D	K	L (mm)
NPFTA20H	20 mm x 1/2"	coming soon	19	1/2"	17.5
NPFTA20P	20 mm x 3/4"	coming soon	19	3/4"	17.5
NPFTA25H	25 mm x 1/2"	10 pcs	24	1/2"	17.5
NPFTA25P	25 mm x 3/4"	10 pcs	24	3/4"	17.5
NPFTA32H	32 mm x 1/2"	10 pcs	31	1/2"	21.2
NPFTA32P	32 mm x 3/4"	10 pcs	31	3/4"	21.2
NPFTA321	32 mm x 1"	10 pcs	31	1"	21.6
NPFTA401	40 mm x 1"	coming soon	38.7	1"	21.6
NPFTA40S	40 mm x 1 1/4"	coming soon	38.8	1 1/4"	22.1
NPFTA50D	50 mm x 1 1/2"	coming soon	48.9	1 1/2"	25.5

## Elbow PN 25

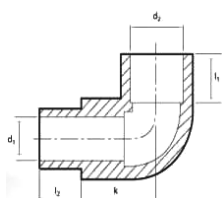
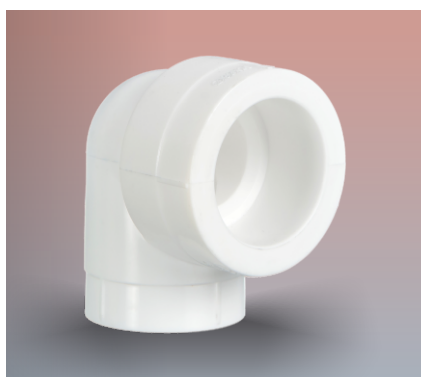


Art. No.	Dimension	Packing per Pkt.	D	L	L1
NPE20	20 mm	coming soon	20	25.7	14.6
NPE25	25 mm	20 pcs	25	29.7	16.1
NPE32	32 mm	10 pcs	32	35.3	18.2
NPE40	40 mm	6 pcs	40	41.7	20.6
NPE50	50 mm	coming soon	50	49.7	23.6
NPE63	63 mm	coming soon	63	60.2	27.6
NPE75	75 mm	coming soon	75	71.4	30.7
NPE90	90 mm	coming soon	90	92.5	30.7
NPE110	110 mm	coming soon	110	101.4	38.0



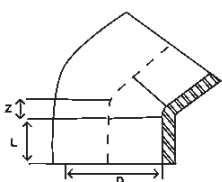


## Reducer Elbow PN 25



Art. No.	Dimension	Packing per Pkt.	D	S	K (mm)	L
NPRE3225	32 x 25 mm	15 pcs	20	4.5	14.5	11
NPRE4025	40 x 25 mm	8 pcs	25	5	16.4	13.5
NPRE4032	40 x 32 mm	5 pcs	32	6	18.5	17

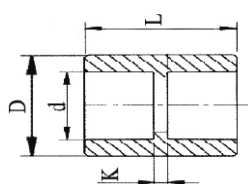
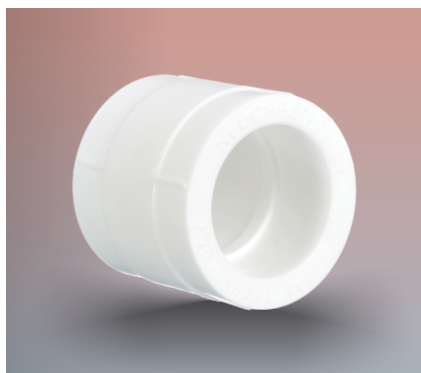
## Elbow 45° PN 25



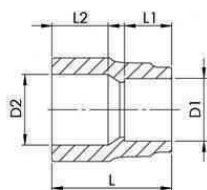
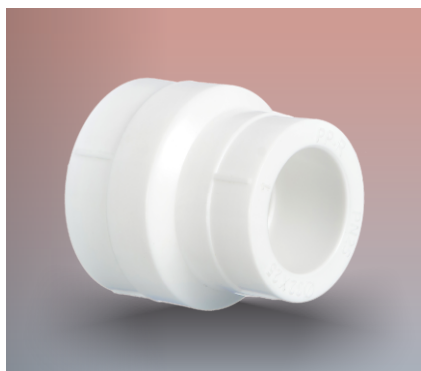
Art. No.	Dimension	Packing per Pkt.	D	L	Z
NPE4525	25 mm	coming soon	23.7	17.6	7.0
NPE4532	32 mm	coming soon	30.6	16.5	8.0
NPE4540	40 mm	coming soon	38.2	21.3	9.0



## Socket PN 25



## Female Reducer PN 25

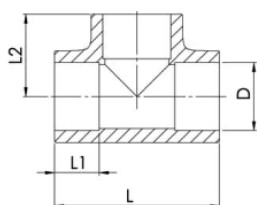


Art. No.	Dimension	Packing per Pkt.	d	D	L	K
NPS20	20 mm	coming soon	19	28	35	14.6
NPS25	25 mm	20 pcs	24	33	38	16.1
NPS32	32 mm	15 pcs	31	42	42	18.1
NPS40	40 mm	10 pcs	39	53	46	20.6
NPS50	50 mm	coming soon	49	67	53	23.6
NPS63	63 mm	coming soon	62	85	51	27.5
NPS75	75 mm	coming soon	74	102	65	30.0
NPS90	90 mm	coming soon	89	120	71	33.0
NPS110	110 mm	coming soon	109	147	80	37.0

Art. No.	Dimension	Packing per Pkt.	D1	D2	L	L1	L2
NPFR2520	25 x 20 mm	coming soon	25	20	33.2	16	14.6
NPFR3220	32 x 20 mm	coming soon	32	20	37.2	18	14.6
NPFR3225	32 x 25 mm	20 pcs	32	25	38.7	22.6	16.1
NPFR4020	40 x 20 mm	coming soon	40	20	42.1	20.5	14.6
NPFR4025	40 x 25 mm	15 pcs	40	25	43.2	20.8	16.1
NPFR4032	40 x 32 mm	10 pcs	40	32	45.3	20.9	18.2
NPFR5025	50 x 25 mm	coming soon	50	25	49.1	24.3	16.1
NPFR5032	50 x 32 mm	coming soon	50	32	51.1	23.7	18.1
NPFR5040	50 x 40 mm	coming soon	50	40	56.2	23.6	20.6
NPFR6340	63 x 40 mm	coming soon	63	40	60.6	27.7	20.6
NPFR6350	63 x 50 mm	coming soon	63	50	63.6	27.6	23.6
NPFR7550	75 x 50 mm	coming soon	75	50	72.6	38.0	28.0
NPFR7563	75 x 63 mm	coming soon	75	63	70.0	25.0	29.0
NPFR9063	90 x 63 mm	coming soon	90	63	61.0	28.0	26.0
NPFR9075	90 x 75 mm	coming soon	90	75	66.0	33.5	29.0
NPFR11090	110 x 90 mm	coming soon	110	90	77.0	39.0	33.0

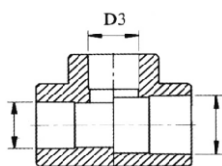


## Tee PN 25



Art. No.	Dimension	Packing per Pkt.	D	L	L1	L2
NPT20	20 mm	coming soon	20	51.4	14.6	25.7
NPT25	25 mm	15 pcs	25	59.4	16.1	29.7
NPT32	32 mm	10 pcs	32	70.4	18.1	35.2
NPT40	40 mm	6 pcs	40	83.4	20.6	41.7
NPT50	50 mm	coming soon	50	99.4	23.6	49.7
NPT63	63 mm	coming soon	63	120.2	27.5	60.1
NPT75	75 mm	coming soon	75	144.0	32.5	72.5
NPT90	90 mm	coming soon	90	184.0	34.2	92.0
NPT110	110 mm	coming soon	110	208.0	38.0	101.8

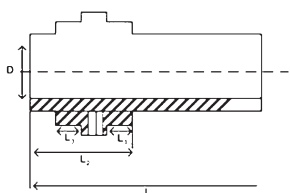
## Reducer Tee PN 25



Art. No.	Dimension	Packing per Pkt.	D	D2	D3
NPRT322532	32 x 25 x 32 mm	4 pcs	31	24	31
NPRT402540	40 x 25 x 40 mm	4 pcs	39	24	39
NPRT403240	40 x 32 x 40 mm	4 pcs	39	31	39
NPRT502550	50 x 25 x 50 mm	coming soon			
NPRT503250	50 x 32 x 50 mm	coming soon			
NPRT504050	50 x 40 x 50 mm	coming soon			

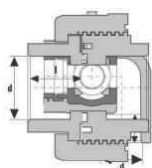
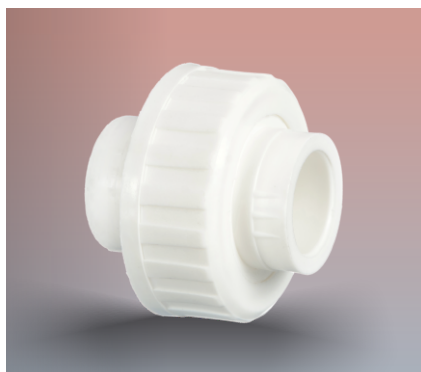


## Tank Nipple PN 25



Art. No.	Dimension	Packing per Pkt.	D	L (mm)
NPTN20	20 mm	coming soon	20	22
NPTN25	25 mm	15 pcs	25	24
NPTN32	32 mm	10 pcs	32	32
NPTN40	40 mm	5 pcs	40	37.5
NPTN50	50 mm	coming soon	50	46

## Plastic Union PN 25

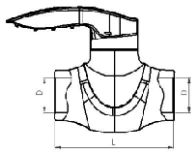


Art. No.	Dimension	Packing per Pkt.	D	G	L (mm)
NPPU20	20 mm	coming soon	19	1/2"	17.5
NPPU25	25 mm	10 pcs	24	3/4"	17.5
NPPU32	32 mm	10 pcs	31	3/4"	21.2
NPPU40	40 mm	coming soon	31	1"	28.2
NPPU50	50 mm	coming soon			



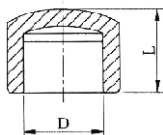
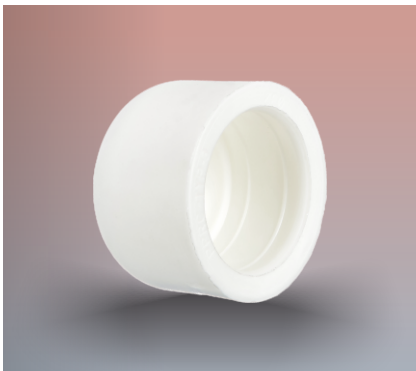


### Ball Valve PN 25



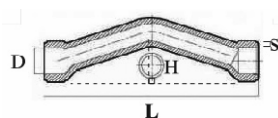
Art. No.	Dimension	Packing per Pkt.	D	G	L1(mm)	L2(mm)
NPBV20	20 mm	coming soon	19	1/2"	29	75
NPBV25	25 mm	10 pcs	24	3/4"	34	86
NPBV32	32 mm	5 pcs	31	1"	45	89
NPBV40	40 mm	4 pcs	40	1"	51	94
NPBV50	50 mm	coming soon	50	1"	58	101

### End Cap PN 25



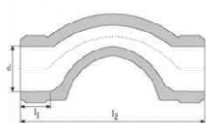
Art. No.	Dimension	Packing per Pkt.	D	L (mm)
NPEC20	20 mm	coming soon	19	22
NPEC25	25 mm	40 pcs	24	27
NPEC32	32 mm	20 pcs	31	31
NPEC40	40 mm	15 pcs	39	37
NPEC50	50 mm	coming soon	49	45
NPEC63	63 mm	coming soon	62	52
NPEC75	75 mm	coming soon	74	59
NPEC90	90 mm	coming soon	89	64
NPEC110	110 mm	coming soon	109	90

### Long Bend PN 25

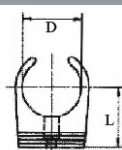
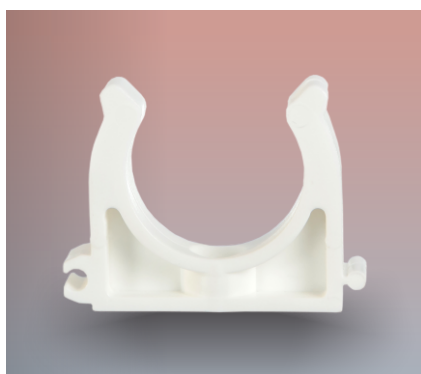


Art. No.	Dimension	Packing per Pkt.	D	H	S	L (mm)
NPLB25	25 mm	5 pcs	19	47	4.0	157
NPLB32	32 mm	4 pcs	24	58	4.6	197
NPLB40	40 mm	coming soon	31	65	5.4	200

### Short Bend PN 25



### Wall Clamp PN 25



### Welding Machine Set



Art. No.	Dimension	Packing per Pkt.	D	L (mm)
NPSB20	20 mm	coming soon	19.5	85
NPSB25	25 mm	10 pcs	24.5	97.5
NPSB32	32 mm	5 pcs	31.5	130
NPSB40	40 mm	coming soon		

Art. No.	Dimension	Packing per Pkt.	D	L (mm)
NPWC20	20 mm	coming soon	20	22
NPWC25	25 mm	50 pcs	25	24
NPWC32	32 mm	40 pcs	32	32
NPWC40	40 mm	coming soon	40	37.5
NPWC50	50 mm	coming soon	50	46
NPWC63	63 mm	coming soon	63	58

Art. No.	Dimension	Packing per Pkt.
NPWS	20 x 25 x 32 x 40 mm	1 set

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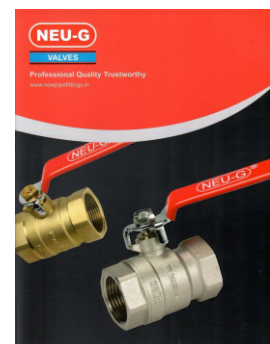


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