

Edoburg[®]



PVC Hose

PERFORMANCE YOU CAN TRUST

PRODUCT CATALOGUE



Edoburg[®]
PIPING SYSTEMS

About Edoburg	0 4
About Plastic	0 5
PVC Hose Introduction	0 6
PVC Hose Range	0 7
<ul style="list-style-type: none">• PVC Light Duty Suction Hose• PVC Medium Duty Suction Hose• PVC Heavy Duty Suction Hose• PVC Lay Flat Delivery Hose (Light Duty)• PVC Lay Flat Delivery Hose (Medium Duty)• PVC Lay Flat Delivery Hose (Heavy Duty)• PVC Nylon Braided Twin Welding Hose• PVC Nylon Braided Air / Pneumatic Hose• PVC Nylon Braided Garden Water Hose• PVC Nylon Braided Spray Hose• PVC Flexible Duct Hose• PVC Oil Hose• PVC Flexible Food Grade Hose• Mining Hose	
Technical Properties	2 1
<ul style="list-style-type: none">• PVC (nylon) hose characteristics• Pressure drop characteristics	
Packaging, Storage and Transportation	2 3

About Edoburg

Edoburg, an ISO 9001 certified company, specialises in supplying high-quality piping systems that consistently meet stringent international standards, ensuring unparalleled performance of the piping systems. Our experienced team, equipped with extensive technical knowledge, coupled with our efficient operations and fast turnaround time, enables us to provide top-tier supply of piping products tailored to your needs.

Our Mission

Edoburg's mission is to supply high-quality piping systems worldwide, offering a complete solution that meets international standards to ensure superior performance in every project.

Product Range

Our stellar lineup of pipes, ready for every project:

- PEX Pipe: PEX-A, PEX-B, PEX-A EVOH, PEX-B EVOH
- PPR Pipe
- PERT Pipe
- HDPE Pipe
- MDPE Pipe
- PVC-C Pipe: Portable water, Reclaim water, Industrial
- PVC-U Pipe: Drainage, Portable water, Reclaim water, Industrial
- PVC-O
- Composite Pipe: PEX-AL-PEX, HDPE-AL-HDPE
- PVC Electrical Conduit
- PVC Hose

Complete Solution Concept

Our wide range of products represent our complete solution concept.

With our products intended for diverse sectors, we offer individual and comprehensive system solutions. Focusing on the needs of projects and entire system.

We provide high standards of products in the market at all times. We always stand by our piping systems and reliable service network.

As a global pipe supplying company that stands out with successful operations ever since our incorporation, we act as a solution point to meet all your needs based on our technical knowledge, specialization and reliability.

Quality Assurance

We are committed to excellence in every aspect of our operations. The products we supply comply with the international standards and certifications, ensuring reliability, durability, and safety in every application. With Edoburg, you can trust that you're receiving top-notch piping solutions that meet your specifications and exceed your expectations.

Our Presence in the World

Our warehousing are strategically located in various places in **India**, **Vietnam** and **China**, to ensure efficient distribution of the products. We ensure fast deliveries with our modern logistics partners deployed at our local distribution hubs which are strategically located near the ports to ease the export of products. Edoburg Piping Systems exports its products all over the world.

Our Market Segments

Based on our experience and high-quality standard of products in the sector, Edoburg Piping Systems supports its clients with a complete piping solutions for every project requirement.

- Chemical and Petrochemical
- Water and Wastewater
- Mining and Mineral Processing
- Power Generation
- Marine and Offshore
- Building and Construction
- Manufacturing Industries
- Agriculture
- Pharmaceuticals
- Infrastructure

About Plastics

Plastics are polymers created by the chemical conversion of natural products or synthesized from organic materials. The primary components that make up the building blocks of plastics are long chains of carbon (C) and hydrogen (H) known as monomers.

The raw materials used for the production of plastics are natural compounds such as cellulose, coal, oil and natural gas. In the plastics industry, around 6 % of the petroleum products that come out from refineries is used.

Plastics fall into three main categories on the basis of their internal structure and the resulting mechanical characteristics: thermoplastics, thermosetting plastics and elastomers.

Advantages of Plastics

Thermoplastics obviously demonstrate different characteristics than those of the metals traditionally used for piping.

Metal	Plastic
High density <ul style="list-style-type: none"> Crane is needed for transport. Requires wide spacing for fixings. High anchoring forces, fixing required. 	Low density <ul style="list-style-type: none"> Can be carried by hand up to d110. Requires minimal spacing for fixings. Simple and economical.
Thermal conductivity <ul style="list-style-type: none"> Insulation is needed to limit heat loss. Formation may result in corrosion. 	Low thermal conductivity <ul style="list-style-type: none"> Limited heat loss. Low levels of condensation and resistance to corrosion.
Corrosion Behaviors <ul style="list-style-type: none"> Galvanic corrosion can occur. Corrosion reduces internal diameter. Reduced diameter causes pressure losses. 	High Corrosion Resistance <ul style="list-style-type: none"> Galvanic Corrosion Free. Prevents corrosion and diameter reduction. No pressure losses.
Chemical resistance <ul style="list-style-type: none"> Low Resistance to Acids. Damage from Incrustation. 	High chemical resistance <ul style="list-style-type: none"> A minimum of 25-years of life with correct jointing methods. Incrustation free.

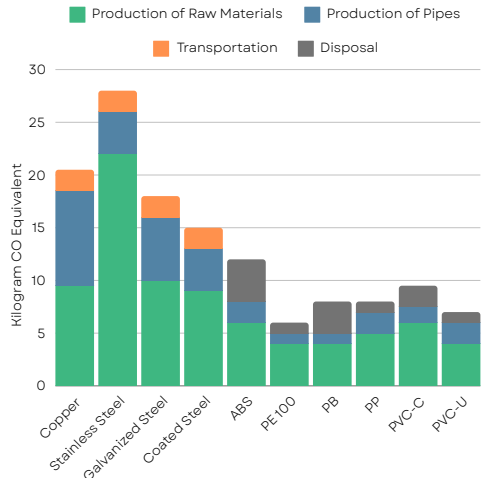
Thermoplastics in turn can be split into two main categories as partially-regulated (semi-crystalline) and irregular (amorphous) molecular structures.

- Semicrystalline thermoplastics, which have a partially ordered molecular structure: this category includes the polyolefins (polypropylene, polyethylene, polybutylene) and fluoropolymers (PP, PE, etc.)
- Amorphous thermoplastics, which have no crystalline regions and no packed molecular structure: this category includes the vinyl chlorides (PVC-U, PVC-C, etc.) and styrenes (ABS, polystyrene, etc.)

Semicrystalline materials are more suitable for hot welding, while amorphous thermoplastics are ideal for cementing or cold welding (solvent cementing).

Carbon Footprint of Plastics Vs Metal

It is the total of all greenhouse gases emitted to the atmosphere during the entire lifetime including the processes for extracting a product having carbon footprint from under the ground, refining, producing, using and disposing of that product.





PVC Hose

Polyvinyl Chloride (PVC) hoses are highly versatile and widely utilized in numerous applications, including agriculture, construction, food and beverage processing, and industrial operations. Known for their excellent flexibility, lightweight nature, and durability, PVC hoses are a preferred choice for many demanding environments.

PVC hoses offer exceptional chemical resistance, making them suitable for handling various chemicals, gases, and fluids. Their smooth interior surfaces ensure optimal flow and reduce the risk of blockages. With superior abrasion resistance and a high level of transparency, PVC hoses provide easy monitoring of flow and wear.

These hoses are designed to perform reliably in a range of temperatures and pressures, maintaining flexibility in cold conditions and stability in high temperatures. Whether for transporting water, air, or other fluids, PVC hoses deliver consistent performance, making them indispensable in both residential and industrial applications.

Fields of Application

- Agriculture: Irrigation, pesticide distribution
- Construction: Water supply, concrete pumping
- Food & Beverage: Fluid transfer, dispensing
- Industrial: Chemical transport, vacuum applications
- Plumbing: Potable water, drainage
- Automotive: Fuel lines, coolant systems
- HVAC: Air ducts, heating fluids
- Medical: Fluid transfer, lab use
- Pool & Spa: Circulation, cleaning
- Mining: Slurry transport, dust control

Technical data

Working Temperature

- -10°C to 60°C (14°F to 140°F)*

*When using PVC hoses, always follow the manufacturer's specified temperature range, as it varies by hose type. Ensure temperatures of both surroundings and fluids are within these limits to maintain performance. During installation, avoid extreme temperatures and sharp bends. Regularly check for damage and replace as needed to prevent issues. Follow safety guidelines to avoid hazards. Consult the manufacturer for applications near temperature limits.

PVC Hose Range

PVC Light Duty Suction Hose

ID		Wall Thickness	Working Pressure	Bursting Pressure	Mtrs
mm	inch	mm	Kg/cm2	Kg/cm2	
12*	1/2	1.5	10.0	19.0	30/50
20*	3/4	2.0	8.0	17.0	30/50
25*	1	2.5	7.5	15.0	30/50
40**	1½	2.5	5.5	14.5	30/50
50**	2	3.0	5.0	14.0	30/50
65**	2½	3.5	5.0	13.0	30/50
75***	3	3.5	4.5	13.0	30/50
90***	3½	4.0	4.0	12.0	30
100***	4	5.0	3.5	10.0	30
125****	5	6.5	2.5	8.0	15/18
150****	6	7.0	2.5	8.0	15/18
175****	7	7.5	2.0	6.0	6/10
200****	8	8.0	2.0	6.0	6/10

- Recommended Maximum Working Temperature 55/60 °C.
- Variation in ID/OD [*= +/- 0.5] [**= +/- 1.0] [***= +/- 1.5] [****= +/- 2.0]

Application:

- Delivery and light suction of water
- Conveyance of waste, sludge, slurry, chemicals and other waste materials.
- Delivery of saline water, light acids, alkaline and other chemicals exception solvents
- Suitable for the horticultural and marine industries
- Also uses as portable water supply



PVC Medium Duty Suction Hose

ID		Wall Thickness	Working Pressure	Bursting Pressure	Mtrs
mm	inch	mm	Kg/cm2	Kg/cm2	
12*	1/2	2.0	12.0	22.0	30/50
20*	3/4	3.0	10.5	20.0	30/50
25*	1	3.5	9.0	18.0	30/50
40**	1½	4.0	7.5	15.0	30/50
50**	2	4.5	6.0	15.0	30/50
65**	2½	4.5	5.5	13.0	30/50
75***	3	5.0	5.0	13.0	30/50
90***	3½	5.0	5.0	12.0	30
100***	4	6.0	4.5	10.0	30
125****	5	7.0	3.0	9.0	15/18
150****	6	7.5	3.0	9.0	15/18
175****	7	8.5	2.5	7.0	6/10
200****	8	9.5	2.5	7.0	6/10
250****	10	12.0	2.0	5.0	6
300****	12	15.0	1.5	4.0	6

- Recommended Maximum Working Temperature 55/60 °C.
- Variation in ID/OD [* = +/- 0.5] [** = +/- 1.0] [*** = +/- 1.5] [**** = +/- 2.0]

Application:

- General pumping and suction application in agriculture, industry and construction
- Conveyance of waste, sludge, slurry, chemicals and other waste materials
- Irrigation purpose in agriculture with electric mono block and oil engines
- Suction & Delivery of saline water, light acids, alkaline and other chemicals excepting solvents
- Fisheries and shipping industries
- Conveying of granules of fine particles of raw material in processing industries
- Also uses as portable water supply



PVC Heavy Duty Suction Hose

ID		Wall Thickness	Working Pressure	Bursting Pressure	Mtrs
mm	inch	mm	Kg/cm ²	Kg/cm ²	
12*	1/2	3.0	16.0	30.0	30/50
20*	3/4	4.0	13.5	24.0	30/50
25*	1	4.5	10.5	23.0	30/50
40**	1½	5.0	9.0	16.0	30/50
50**	2	5.5	8.0	16.0	30/50
65**	2½	6.0	7.0	16.0	30/50
75***	3	6.5	6.0	15.0	30/50
90***	3½	7.0	6.0	14.0	30
100***	4	7.5	4.5	11.0	30
125****	5	8.5	4.0	10.0	15/18
150****	6	9.0	4.0	10.0	15/18
175****	7	10.0	3.5	8.5	6/10
200****	8	12.0	3.5	8.5	6/10
250****	10	15.0	2.5	6.0	6
300****	12	18.0	2.0	5.0	6

- Recommended Maximum Working Temperature 60/65 °C.
- Variation in ID/OD [* = +/- 0.5] [** = +/- 1.0] [*** = +/- 1.5] [**** = +/- 2.0]

Application:

- Heavy duty suction application industry.
- Suction of saline water, light acids, sewage, alkaline and other chemicals excepting solvents.
- Suction for dung cart.
- Civil engineering and subway mining construction.
- Fisheries and shipping industries.
- Conveying of granules or fine particles of raw material in processing industries.



PVC Lay Flat Delivery Hose (Light Duty)

Light Duty (Blue Color)

mm	ID		Working Pressure	Bursting Pressure	Length
	inch		Kg/cm ²	Kg/cm ²	Mtrs
38	1.5		4.5	9.0	50/100
50	2		4.5	9.0	50/100
63.5	2.5		4.0	8.0	50/100
76	3		4.0	8.0	50/100
101.5	4		4.0	8.0	50/100
127	5		3.0	6	50/100
152	6		3.0	6	50/100

- Recommended Maximum Working Temperature: 72/75 °C.
- Variation in ID/OD [*** = +/- 1.S] [***^ = +/- 2.0]

Application:

- Discharge of water
- Discharge of light acids
- Irrigation purpose



PVC Lay Flat Delivery Hose (Medium Duty)

Medium Duty (Green Color)

mm	ID		Working Pressure	Bursting Pressure	Length
	inch		Kg/cm ²	Kg/cm ²	Mtrs
38	1.5		7.0	14.0	50/100
50	2		6.0	12.0	50/100
63.5	2.5		6.0	12.0	50/100
76	3		6.0	12.0	50/100
101.5	4		6.0	12.0	50/100
127	5		6 D	12.0	50/100
152	6		6.0	12.0	50/100

- Recommended Maximum Working Temperature: 72/75 °C.
- Variation in ID/OD [*** = +/- 1.S] [***^ = +/- 2.0]

Application:

- Discharge of water
- Discharge of light acids
- Irrigation purpose



PVC Lay Flat Delivery Hose (Heavy Duty)

Heavy Duty (Red Color)

ID		Working Pressure		Bursting Pressure	Length
mm	inch	Kg/cm ²		Kg/cm ²	Mtrs
38	1.5	10.0		20.0	50/100
50	2	8.0		16.0	50/100
50	2	10.0		20.0	50/100
63.5	2.5	10.0		20.0	50/100
76	3	8.0		16.0	50/100
76	3	10.0		20.0	50/100
101.5	4	8.0		16.0	50/100
101.5	4	10.0		20.0	50/100
152	6	8.0		16.0	50/100

- Recommended Maximum Working Temperature: 72/75 °C.
- Variation in ID/OD [*** = +/- 1.S] [***^ = +/- 2.0]

Application:

- Discharge of water
- Discharge of light acids
- Irrigation purpose



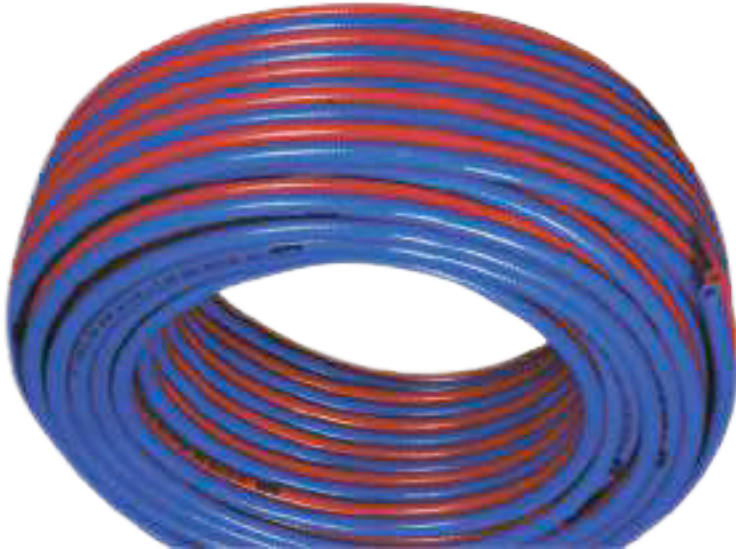
PVC Nylon Braided Twin Welding Hose

mm	ID		Wall Thickness mm	Working Pressure Kg/cm ²	Bursting Pressure Kg/cm ²	Pkg. Mtrs
	inch					
8	5/16		3.0	32.0	65.0	50/100
10	3/8		3.5	32.0	65.0	50/100

- Recommended Maximum Working Temperature: 70/75° C.

Application:

- Gas welding & Oxygen supply
- Other industrial purpose



PVC Nylon Braided Air / Pneumatic Hose

ID		Wall Thickness mm	Working Pressure Kg/cm ²	Bursting Pressure Kg/cm ²	Pkg. Mtrs
mm	inch				
5	3/16	2.5	32.0	80.0	50/100
6	1/4	3.0	32.0	75.0	50/100
8	5/16	3.0	32.0	65.0	50/100
10	3/8	3.5	32.0	65.0	50/100
12	1/2	3.5	25.0	50.0	50/100
15	5/8	3.5	20.0	40.0	50/100
20	3/4	4.0	20.0	40.0	50/100
25	1	4.8	15.0	35.0	50/100
31	1¼	4.8	15.0	35.0	50/100
38	1½	5.0	15.0	25.0	30/60
50	2	6.0	10.0	25.0	30/60

- Recommended Maximum Working Temperature 70/75° C

Application:

- Air / Pneumatic pump
- Transportation of air by compressor
- Industrial use where application of air is required



PVC Nylon Braided Garden Water Hose

mm	ID inch	Wall Thickness mm	Working Pressure Kg/cm ²	Bursting Pressure Kg/cm ²	Mtrs
12	1/2	2.0	10.0	23.0	50/100
16	5/8	2.0	7.5	21.0	50/100
20	3/4	2.5	6.0	18.0	50/100
25	1	3.0	6.0	17.0	50/100
32	1¼	3.5	5.0	14.0	50
38	1½	4.0	5.0	12.0	50
50	2	5.0	4.0	10.0	50

- Recommended Maximum Working Temperature 55/60° C.

Application:

- Gardening, Cleaning, Cattle shed and other domestic use
- Water supply and other portable use



PVC Nylon Braided Spray Hose

ID		Wall Thickness mm	Working Pressure Kg/cm ²	Bursting Pressure Kg/cm ²	Mtrs
mm	inch				
10	3/8	5.0	40.0	120.0	50/100
12	1/2	5.5	30.0	90.0	50/100

- Recommended Maximum Working Temperature 70/75° C.

Application:

- High pressure water, chemical and light acid spray
- Other specific use where high pressure is applicable



PVC Flexible Duct Hose

ID		Wall Thickness mm	Working Pressure Kg/cm2	Bursting Pressure Kg/cm2	Mtrs
mm	inch				
20*	3/4	3.5	3.75	20.0	30/50
25*	1	3.5	3.75	16.0	30/50
30*	1¼	3.5	3.50	14.0	30/50
32*	1¼	4.0	3.35	13.0	30/50
38**	1½	4.0	3.10	10.75	30/50
40**	1½	4.0	3.05	10.25	30/50
50**	2	4.0	2.60	8.2	30/50
60***	2¼	4.0	2.30	7.5	30/50
65***	2½	4.5	1.50	6.0	30/50
70***	2¾	4.5	1.40	6.0	30/50
75***	3	4.5	1.40	5.5	30/50
80***	3¼	4.5	1.30	5.0	30/50
90***	3½	4.5	1.10	4.7	30/50
100***	4	4.5	0.90	4.2	30
110****	4½	4.5	0.90	4.0	30
120****	4¾	4.5	0.90	4.0	30
125****	5	4.5	0.60	3.4	15
130****	5¼	4.5	0.60	3.2	15
140****	5½	4.5	0.60	3.2	15
150****	6	4.5	0.60	2.8	15
160****	6½	4.5	0.60	2.8	15
200****	8	5.0	0.45	2.1	15
250****	10	6.0	0.30	2	10
300****	12	7.0	0.25	2	10

- Recommended Maximum Working Temperature 60/65 °C.
- Variation in ID/OD [* = +/- 0.5] [** = +/- 1.0] [*** = +/- 1.5] [**** = +/- 2.0]

Application:

- Heavy duty suction application industry.
- Suction of saline water, light acids, sewage, alkaline and other chemicals excepting solvents.
- Suction for dung cart.
- Civil engineering and subway construction.
- Fisheries and shipping industries.
- Conveying of granules or fine particles of raw material in processing industries.



PVC Oil Hose

ID		Wall Thickness mm	Working Pressure Kg/cm ²	Bursting Pressure Kg/cm ²	Mtrs
mm	inch				
25*	1	3.0	8.0	22	30
30**	1¼	3.5	7.0	21	30
40**	1½	4.0	5.5	18	30
50***	2	5.0	4.5	18	30
65***	2½	5.5	4.5	18	30
75****	3	5.5	4.5	18	30
100****	4	6.5	4.0	15	30

- Recommended Maximum Working Temperature 60/65 °C.
- Variation in ID/OD [* = +/- 0.5] [** = +/- 1.0] [*** = +/- 1.5] [**** = +/- 2.0]

Application:

- Suction & Discharge of oil
- Various application in liquid petroleum product
- Transportation of lubricating oil, mineral oils, light oils,
- Transformer oils etc



PVC Flexible Food Grade Hose

mm	ID inch	Wall Thickness mm	Working Pressure Kg/cm2	Bursting Pressure Kg/cm2	Mtrs
20*	3/4	3.0	10.0	20.0	30/50
25*	1	3.5	9.0	19.0	30/50
38**	1½	4.0	8.5	17.0	30/50
50**	2	4.5	6.5	15.0	30/50
65**	2½	5.5	7.0	15.0	30/50
75***	3	5.5	5.5	14.0	30/50
100***	4	7.0	4.5	11.0	30
125****	5	7.0	3.5	9.5	15/18
150****	6	8.5	3.0	9.0	15/18
175****	7	9.0	3.0	9.0	6/10
200****	8	10.0	3.0	9.0	6/10

- Recommended Maximum Working Temperature 60/65 °C.
- Variation in ID/OD
- [* = +/- 0.5] [** = +/- 1.0] [*** = +/- 1.5] [**** = +/- 2.0]

Application:

- Suction and discharge of milk, beverage, alcohol etc.
- Transporting of fishes clay types food material.



Mining Hose

ID		Wall Thickness mm	Working Pressure Kg/cm ²	Bursting Pressure Kg/cm ²	Mtrs
mm	inch				
100***	4	11.5	14	28	30
125****	5	13	12	24	15
150****	6	14	15	24	15
200****	8	14.5	15	24	15

- Recommended Maximum Working Temperature 60/65 °C.
- Variation in ID/OD [*** = +/- 1.5] [**** = +/- 2.0]

Application:

- Mining Industries
- Suction and discharge of concrete
- Sand and gravel adoption use





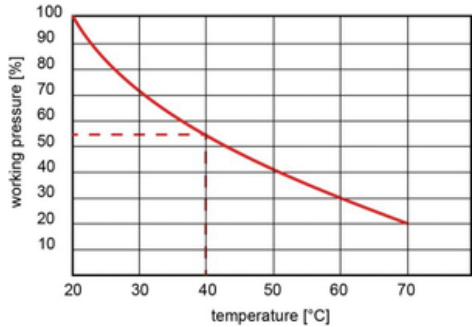
Technical Properties

PVC (nylon) hose characteristics

Working pressure – temperature relation for PVC hoses

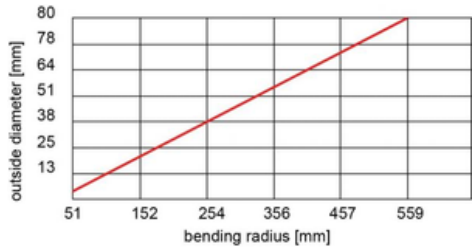
Recommended working temperature ranges from -20°C up to +60°C. A rise in temperature above +20°C causes considerable decrease of bursting pressure and at the same time allowable working pressure.

Example: 11.25 bar (100%), working pressure at +20°C, about 6 bar (55%) at +40°C.



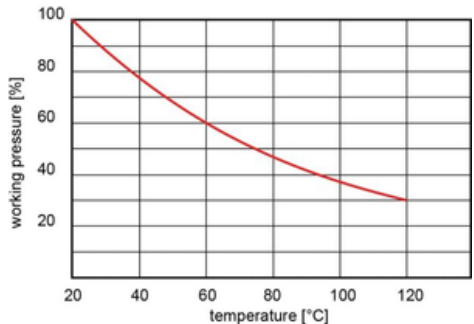
Bending radius – diameter relation for PVC hoses

Chart on the right shows minimum bending radius hose diameter relation for PVC hoses (without hose contraction).



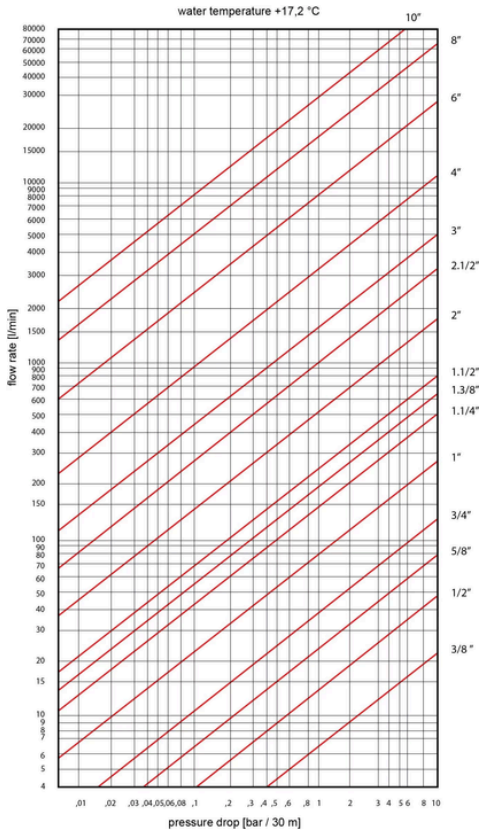
Working pressure – temperature relation for PA hoses

Chart on the right shows working pressure – temperature relationship for PA hoses.

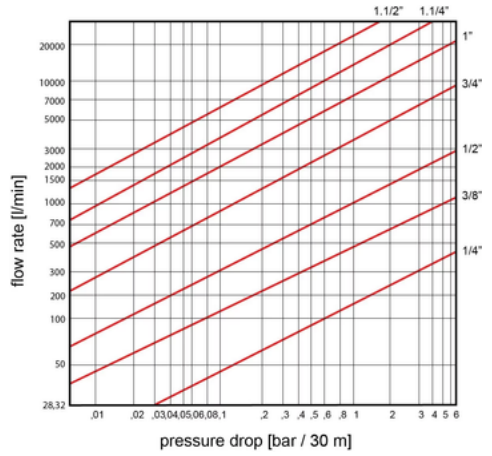


Pressure drop characteristics

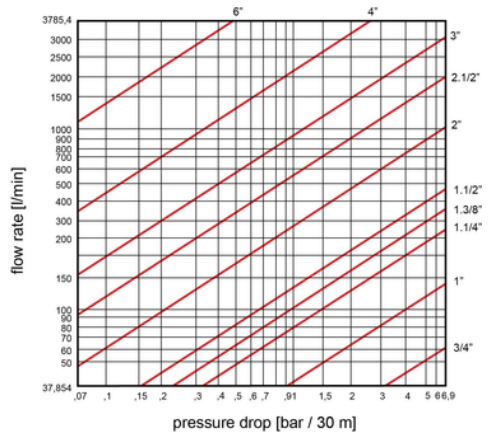
Pressure drop for water hoses



Pressure drop for air hoses



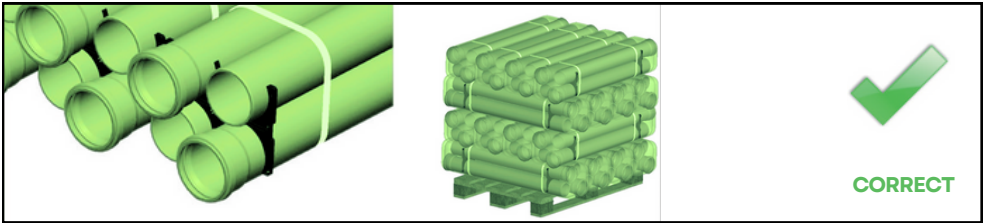
Pressure drop for air hoses



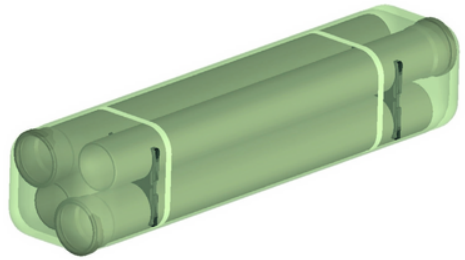
Packaging, Storage and Transportation

Packaging

Our pipes and fittings are packed as ready for transport in a customer-friendly way. Packing ensures safety, efficient storage and easy transport.

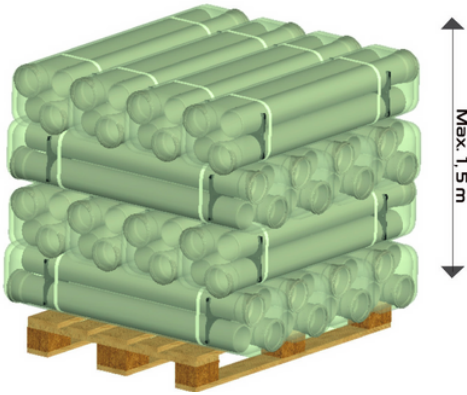


Short parts with the length of 150, 250 and 500 mm are packed in carton boxes like connection parts.



Pipes are packed by plastic clamps to hold them together. Stretch film is applied to protect pipes from pipes dust and stains.

Storage

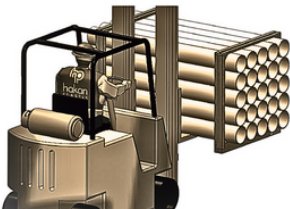
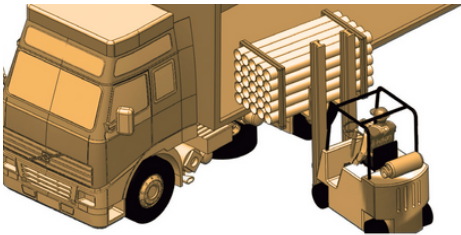


Method of storage should not cause any outflow and should not damage the pipes. As long as they are stored properly, no permanent deformations or damages will occur on the pipes and fittings. Pipes should not be stacked above 1,5 m. Pipes should be safe against sliding.



Pipes and fittings packed in carton boxes should be protected against moisture. Carton boxes should be sealed and stored in a dry area.

Transportation



Pipes should be carefully transported to prevent any damages. Avoid sudden and hard pressures on pipes and fittings that might cause freezing in cold weather conditions. Ensure that pipes are not slided and dropped on the floor. Loading and unloading and packing of pipes in a block should be carried out by means of forklifts having flat threads and extensions.

Disclaimer: The information and technical data (altogether "Data") herein are not binding. The Data neither constitutes any expressed, implied or warranted characteristics, nor guaranteed properties or a guaranteed durability. All Data is subject to modification. The General Terms and Conditions of Sale of Edoburg Piping Systems apply.

Edoburg®

www.edoburg.com

[f](#) [X](#) [@](#) [▶](#) [in](#) /edoburgpipes



Edoburg Piping Systems LLP
Reg. Office: 320, Vikas Kunj
Vikasपुरi, Delhi 110018 IN

+1 201 616 0164
+91 962 585 8500
hello@edoburg.com