

## What is suction hose pipe?

Suction hose pipe is a type of flexible tubing designed for use in applications that require the suction or transfer of liquids, gases, or other fluids. It is typically made of durable and flexible materials that can withstand the rigors of various environments and applications.

Suction hose pipe is often used in agricultural, industrial, and construction settings. In agriculture, for example, it can be used for irrigation systems to deliver water to crops efficiently. In industrial applications, it may be used for transferring chemicals, fuels, or other liquids within a factory or manufacturing facility. In construction, suction hose pipe can be utilized for pumping water or other fluids during various stages of a building project.

The flexibility of suction hose pipe allows it to conform to different shapes and sizes, making it suitable for use in a wide range of scenarios. It can also be easily connected to pumps, valves, and other equipment to create a complete fluid transfer system. Additionally, suction hose pipe is often designed to be lightweight and easy to handle, which makes it convenient for use in field or on-site applications.

*This is the appearance of suction hose, which is smooth and textured. The outer layer material is wear-resistant and non-slip, and can bend and adapt to various shapes and angles.*

# **Helix Sprial Pvc Suction Hose For Water Suction And Discharge**

At Renato Hose, we pride ourselves on delivering top-tier products crafted with precision and expertise honed over 15 years in the industry. Our Helix Spiral PVC Suction Hose stands as a testament to our commitment to quality and innovation.

Crafted with high-quality PVC reinforcement, our suction hose boasts a robust construction capable of withstanding up to -2 bar vacuum pressure, ensuring reliability even in demanding environments. Its long working life guarantees durability, providing you with a dependable solution for your water suction and discharge requirements.

*Bright color and good flexibility, suitable for all kinds of spaces.*

## **Applications**

This hose is widely used for industry in both positive and negative pressure applications, ideally for conveying and suction of water, oil, powder, granules in pump industries, constructions, mining industries, chemical factories and many other industry applications.

*This is a picture of suction hose after simple packaging.*

## **Characteristics**

This hose is made from high quality flexible PVC material and high strength PVC bones. Excellent flexibility, light weight, crush and abrasion resistant, smooth tube for less friction loss, smooth cover allows easy dragging, weathering resistant, clear to have full visual flow of materials, corrosion resistant to light chemicals, various lengths available and can be supplied with different couplings and clamps, ideal replace for bulkier and heavier ply-wrapped rubber hose.

- ▲ This kind of hose is an ideal products to use for suction and discharge.
- ▲ It is crystal clear, flexible, bright colors, very easy to know what's going on inside the hose.
- ▲ No odor, environmental protection products.
- ▲ Working Temperature: -5°C-65°C

Inner Diameter		Thickness	Length/Roll	Weight	Working Pressure
inch	mm	mm	m	kg/m	bar
3/4	19	2.5	50	0.25	8
		3	50	0.28	9
1	25	2.5	50	0.32	8
		3	50	0.35	9
1 1/4	32	3	50	0.4	8
		4	50	0.55	9
1 1/2	38	3	50	0.55	6
		4	50	0.7	7
2	50	4	50	0.92	6
		5	50	1.1	7
2 1/2	63	3.5	30	0.95	5
		4.5	30	1.23	6
3	75	4	30	1.45	4
		5	30	1.65	5
4	100	5	30	2.3	4
		6	30	2.9	5

5	127	6	20	3.3	4
		8	20	4.7	5
6	152	7	20	5	4
		9	20	6.3	5
8	200	7	10	6.3	4
		8	10	7	4
10	250	8	10	10	4
		9	10	11	4
12	305	12	10	18	4
14	355	12	10	20	4

The key differences between a suction hose and a discharge hose are as follows:

1. **Functional Definition:**
  - **Suction hose:** Primarily used to draw liquid or gas from one place to another. It is often used with pumps or other suction equipment to create negative pressure and draw in the material.
  - **Discharge hose:** Mainly designed to discharge liquid or gas from a container or equipment. It ensures smooth outflow of the liquid or gas.
2. **Application Scenarios:**
  - **Suction hose:** Commonly seen in scenarios requiring the extraction of liquid or gas, such as industrial pumping, vacuum cleaning, irrigation systems, etc.
  - **Discharge hose:** Typically used for discharging wastewater, waste fluids, exhaust gases, etc. in areas like sewage treatment, chemical processing, petroleum industries, agricultural irrigation, and more.
3. **Design and Structure:**

- While both may have different designs based on specific applications, both generally consider factors like corrosion resistance, pressure resistance, abrasion resistance, etc.
  - Suction hose may require stronger compression resistance and sealing properties to ensure no leaks during suction.
  - Discharge hose may require a larger flow rate and lower resistance to ensure smooth discharge.
4. Connection and Fixation:
- Both need to be connected to appropriate equipment or containers, with connection methods that may include flange connections, clamp connections, threaded connections, etc.
  - Fixation methods also vary based on the specific application to ensure stability and safety during use.
5. Maintenance and Care:
- Both require regular inspections and maintenance to ensure proper functioning and extend service life.
  - Particularly for suction hose, since it may be subject to significant negative pressure and vibration during use, more attention needs to be paid to its sealing and compression resistance.
6. Other Considerations:
- Selection and configuration of suction hose and discharge hose should be made based on specific application requirements.
  - Attention should also be paid to the environment of use, such as temperature, pressure, medium, etc., to ensure safe and reliable operation.