

What is a Discharge Hose?

A **discharge hose** is a flexible pipe used to move water or other liquids from a pump to a designated area. It is designed to handle positive pressure and is commonly used in applications such as draining, irrigation, dewatering, and industrial fluid transfer. Unlike suction hoses, which pull liquids into a pump, discharge hoses release liquids after the pump has pushed them out. These hoses are made from flexible, durable materials like PVC or rubber, and they can be used for short or long-distance fluid transport depending on the requirements of the application.

Characteristics:

- **Material:** Typically made from PVC, rubber, or lay-flat designs for flexibility and durability.
- **Pressure:** Designed to handle positive pressure from a pump, ranging from medium to high pressure.
- **Applications:** Used for discharging liquids in areas such as agriculture, construction, mining, and industrial fluid management.
- **Types:** Can be reinforced for higher-pressure applications or made as lightweight, lay-flat hoses for easier storage and transport.

Discharge Hose Specifications Table

Specification	Details
Material	PVC, Rubber, Lay-Flat (Reinforced for durability)
Inside Diameter (ID)	1 inch, 1.5 inch, 2 inch, 3 inch, 4 inch, 6 inch
Working Pressure	6 Bar to 12 Bar
Burst Pressure	18 Bar to 36 Bar
Wall Thickness	2 mm to 5 mm
Reinforcement	Polyester, Spiral PVC, or Helix for extra strength
Temperature Range	-10° C to +60° C

Specification	Details
Length Options	10 meters, 20 meters, 30 meters, 50 meters
Color	Typically Blue, Green, Yellow
Weight	Lightweight, varies based on length and diameter
UV Resistance	Yes
Fitting Options	Standard hose clamps, custom couplings available

Price Table for Discharge Hoses

Hose Size	Factory Price (Per Meter)	Brand Price (Per Meter)	Retail Price (Per Meter)
1 Inch	\$1.00 - \$1.50	\$1.80 - \$2.20	\$2.50 - \$3.50
1.5 Inch	\$1.20 - \$1.80	\$2.00 - \$2.50	\$3.00 - \$4.00
2 Inch	\$1.50 - \$2.20	\$2.50 - \$3.00	\$3.50 - \$4.50
3 Inch	\$2.00 - \$2.80	\$3.00 - \$3.80	\$4.50 - \$5.50
4 Inch	\$3.00 - \$4.00	\$4.50 - \$5.50	\$6.00 - \$7.50
6 Inch	\$5.00 - \$6.00	\$6.50 - \$8.00	\$8.00 - \$9.50

Applications of Discharge Hose

- Irrigation:** Discharge hoses are widely used for watering crops and fields in agriculture. They efficiently transport water from pumps to irrigation systems.
- Dewatering:** Often used in construction or industrial sites to remove excess water from a job site or flooded area.
- Draining:** Used to drain ponds, pools, and other bodies of water. They help in large-scale water removal applications.
- Industrial Use:** For transporting water, oil, or other fluids in manufacturing or processing plants.
- Construction:** Discharge hoses are used to pump out water, mud, or slurry from construction pits or trenches.

Lifespan of Discharge Hose

The **lifespan** of a discharge hose depends on its material, frequency of use, and environmental exposure. High-quality discharge hoses made from durable materials like reinforced PVC or rubber can last **5 to 10 years** with proper care and maintenance. Hoses exposed to extreme weather conditions, high pressure, or corrosive fluids may have a shorter lifespan, so it's important to select a hose suitable for the specific application.

Key Factors That Affect Lifespan:

- **UV Exposure:** UV-resistant hoses last longer in outdoor applications.
- **Pressure Handling:** Constant use in high-pressure situations can wear down the material over time.
- **Storage:** Properly storing the hose, especially lay-flat hoses, helps extend their lifespan by preventing damage from kinks or twists.

Conclusion

Discharge hoses are versatile tools essential for fluid management in various sectors, including agriculture, construction, and industrial applications. They are designed to handle positive pressure and are available in different sizes, lengths, and materials to suit specific needs. Choosing the right discharge hose depends on the intended application, the type of fluid, pressure requirements, and environmental factors. With proper maintenance and care, discharge hoses can provide long-lasting service, ensuring efficient water transfer or removal.