

Hybrid Air Hose

HB series

Hybrid Air Hose is a three-layer pneumatic hose with a fiber reinforcement layer between the inner and outer PVC layers. It supports higher working-pressure conditions and helps control diameter expansion under working pressure.

This structure helps maintain a stable hose profile under pressure variations, reducing diameter changes or localized deformation.

The PVC formulation is designed for low-temperature use, allowing the hose to remain flexible in cold environments. The reinforced structure helps provide the pressure resistance required for pneumatic systems.

In addition, the hose has low memory. Even after repeated pulling and coiling, it can remain straight when laid out, helping maintain stable hose routing on site.

Supplied without fittings, the hose can be cut, routed, and installed according to the actual system layout.

Key Features

- Three-layer PVC braided pneumatic hose
- Fiber reinforcement layer designed to support pneumatic working-pressure requirements
- Stable hose shape under pressure variations with reduced localized deformation
- Formulated for low-temperature use to maintain flexibility in cold environments
- Low memory for applications involving repeated pulling and coiling

Applications

- End-branch pneumatic piping for factory and maintenance environments
- Extended and reconfigurable air-supply connections for workstations and equipment
- Air-supply piping for low-temperature or winter operating environments
- Compressed-air supply piping for temporary routing, maintenance, or line modification

Regulatory Compliance

- RoHS compliant
- REACH compliant

Technical Specifications

Material	PVC with fiber reinforcement layer
Operating Temp. Range	-25°C to 60°C (-13°F to 140°F)
Safety Factor	3 : 1

Specifications

- Metric Sizes - mm

Model Number	Tube ID	Tube OD	Wall Thickness	Weight	Max. Working Pressure 23°C (73°F)	Packing Length	Color			
+Color	mm	mm	mm	g/m	bar	m	BK	BU	R	Y
HB6511050M_	6.5	11.0	2.25	80	20	50	■	■	■	■
HB65110100M_						100				
HB8013550M_	8.0	13.5	2.75	121	20	50	■	■	■	■
HB80135100M_						100				
HB1016025M_	10.0	16.0	3.00	159	20	25	■	■	■	■
HB1016050M_						50				
HB12518525M_	12.5	18.5	3.00	190	20	25	■	■	■	■
HB12518550M_						50				

- Imperial Sizes - inch

Model Number	Tube ID	Tube OD	Wall Thickness	Weight	Max. Working Pressure 73°F (23°C)	Packing Length	Color			
+Color	inch	inch	inch	lb/ft	psi	ft	BK	BU	R	Y
HB14433100FT_	1/4	0.433	0.09	0.054	300	100	■	■	■	■
HB14433500FT_						500				
HB516531100FT_	5/16	0.531	0.11	0.081	300	100	■	■	■	■
HB516531500FT_						500				
HB38590100FT_	3/8	0.590	0.11	0.092	300	100	■	■	■	■
HB38590500FT_						500				
HB12728100FT_	1/2	0.728	0.11	0.128	300	100	■	■	■	■
HB12728300FT_						300				

Selected hardness levels, sizes, and colors may be available upon request. Please contact SHPI for availability.

Ordering Information

- Metric Sizes - mm

HB 65 110 50M BK

Material	
HB	Hybrid Air Hose

Inside Diameter	
65	6.5 mm
80	8.0 mm
10	10.0 mm
125	12.5 mm

Outside Diameter	
110	11.0 mm
135	13.5 mm
160	16.0 mm
185	18.5 mm

Package Length	
25M	25 Meters
50M	50 Meters
100M	100 Meters

Color Code	
BK	Black
BU	Blue
R	Red
Y	Yellow

- Imperial Sizes - inch

HB 14 433 100FT BK

Material	
HB	Hybrid Air Hose

Inside Diameter	
14	1/4"
516	5/16"
38	3/8"
12	1/2"

Outside Diameter	
433	0.433"
531	0.531"
590	0.590"
728	0.728"

Package Length	
100FT	100 Feet
300FT	300 Feet
500FT	500 Feet

Color Code	
BK	Black
BU	Blue
R	Red
Y	Yellow

Contact Info

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