

neska

'Basınçlı Havada Enerji Verimliliği Çözümleri'

Non-Threaded Air Conveyor Technical Guide

Non-Threaded Air Conveyor is designed to convey Parts, Waste, Materials - No Moving Parts or Electricity



Version 1.0



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1 Non-Threaded Air Conveyor Specifications



The Non-Threaded Air Conveyor is available in seven standard IN-STOCK diameters of 3/4" (19mm), 1" (25 mm), 1-1/4" (32 mm), 1-1/2" (38 mm), 2" (51 mm), 2-1/2" (64 mm), and 3" (76 mm).

Mounting:

Air Conveyors connect in-line to convert ordinary tubes and/or hoses into a powerful conveying system for the purpose of transferring trim, scrap, parts and other bulk materials. Non-threaded Air Conveyors are normally held in place by a hose and clamp. Threaded Air Conveyors thread into a standard NPT pipe. All Air Conveyors feature 4 mounting holes along the rear face (see "Dimensions" tab for details) for instances where a support bracket must be used. We offer optional support brackets in our "Accessories" section.

Air Supply Filtration:

A clean and dry source of compressed air is vital for the operation of our products. We recommend using a 5 Micron Air Filter.

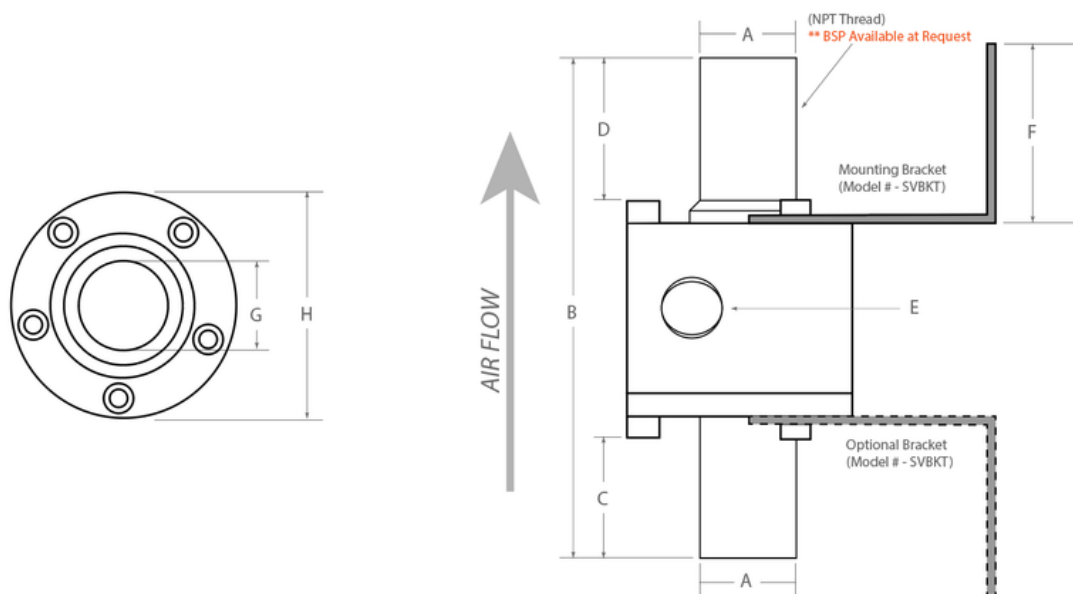
Air Consumption & Vacuum:

Diameter	Material	Air Consumption @ 80 PSIG (5.5 BAR)	Vacuum (Inches H2O)	Inlet
3/4"	Aluminum, Stainless Steel (Type 303)	8 SCFM (226 SLPM)	-49	1/4" NPTF
1"		16 SCFM (453 SLPM)	-43	1/4" NPTF
1 1/4"		25 SCFM (708 SLPM)	-42	1/4" NPTF
1 1/2"		35 SCFM (991 SLPM)	-35	3/8" NPTF
2"		45 SCFM (1274 SLPM)	-28	3/8" NPTF
2 1/2"		58 SCFM (1641 SLPM)	-23	3/8" NPTF
3"		70 SCFM (1981 SLPM)	-14	1/2" NPTF

2 Non-Threaded Air Conveyor Dimensions



Installs IN-LINE! Converts ordinary tube/hose into a powerful conveying system for trim, parts, or scrap. Controlling the pressure to the Air Conveyor by utilizing our pressure regulator will allow for adjustment of transfer rate and air consumption.



DIMENSIONS: Non-Threaded Air Conveyor								
	A (O.D.)	B	C	D	E	F	G (I.D.)	H
3/4"	0.75" (19 mm)	3.75" (95 mm)	1.40" (36 mm)	1.27" (32 mm)	1/4" NPT	1.75" (44 mm)	0.50" (13 mm)	2.25" (57 mm)
1"	1.00" (25 mm)	4.85" (132 mm)	1.375" (36 mm)	1.375" (32 mm)	1/4" NPT	1.75" (44 mm)	0.75" (19 mm)	2.25" (64 mm)
1 1/4"	1.25" (32 mm)	4.85" (132 mm)	1.375" (36 mm)	1.375" (32 mm)	3/8" NPT	1.75" (44 mm)	1.00" (25 mm)	2.50" (70 mm)
1 1/2"	1.50" (38 mm)	4.85" (132 mm)	1.375" (36 mm)	1.375" (32 mm)	3/8" NPT	1.75" (44 mm)	1.25" (32 mm)	2.75" (76 mm)
2"	2.00" (51 mm)	4.85" (132 mm)	1.375" (36 mm)	1.375" (32 mm)	3/8" NPT	1.75" (44 mm)	1.75" (44 mm)	3.25" (89 mm)
2 1/2"	2.50" (64 mm)	4.85" (132 mm)	1.375" (36 mm)	1.375" (32 mm)	3/8" NPT	1.75" (44 mm)	2.25" (57 mm)	4.00" (102 mm)
3"	3.00" (76 mm)	4.85" (132 mm)	1.375" (36 mm)	1.375" (32 mm)	1/2" NPT	1.75" (44 mm)	2.75" (70 mm)	4.45" (116 mm)

3 Non-Threaded Air Conveyor Installation & Maintenance



01 Recommended Hose Runs

LENGHT OF RUN	SIZE OF PIPE/HOSE
1 - 25ft	Use ¼" pipe or 3/8" air hose
25 - 50ft	Use 3/8" pipe or ½" air hose
50ft and above	Use ½" pipe or larger

02 Compressed Air Supply

**All filters should be installed within 10-15ft of the Air Conveyor. It's important to use supplied fittings to minimize possibility of air restriction.

Water removal

Minimum 10 micron filter, with an automatic (float type) drain.

Oil removal

Use an Oil filter installed downstream from the water filter if oil is a concern. Again this should be fitted with an automatic (float type) drain.

03 General Operation / Installation

The Air Conveyor can be mounted by utilizing the ¼"-20 mounting holes on the unit, or by simply using a clamp. For extra strength, mounting brackets can be attached on both the inlet and outlet sides of the unit.

To increase conveying distance and faster flow rates

- Increase the size of the holes in the 'flow generating unit' by 1/64" intervals and then test each time for the desired flow rate.

To decrease force

- A regulator may be added downstream from the oil/water filters to reduce the pressure to control the rate of flow required.

04 Cleaning

Simply disassemble the unit, and clean all surfaces using a mild solvent and rag. Be certain that the holes of the 'flow generating unit' point toward the outlet when re-assembling. To prevent contaminants from re-entering the Air Conveyor, pass compressed air through the unit.

05 Troubleshooting

There are many factors that can cause the reduction in vacuum and/or flow. Undersized airlines, restrictive fittings, or clogged filter elements are common areas to check. If you suspect below average performance, install a pressure gage at the inlet of the Air Conveyor.