



# CONVEYOR HOSE

## STANDARD CONVEYOR HOSE CROSS SECTION



## SMOOTH BORE CONVEYOR HOSE CROSS SECTION



### DESCRIPTION

Penflex manufactures two distinct types of interlocked conveyor hoses designed especially for transfer of dry bulk materials. Standard Conveyor Hose is a serviceable, unlined, medium weight hose featuring a fully packed interlocked construction.

Smooth Bore Conveyor Hose features rugged interlocking construction plus an integral metal strip lining. This lining provides Smooth Bore conveyor hose with a smooth bore that minimizes impaction and reduces turbulence for free flowing transmission of materials. Smooth Bore conveyor hose can also be produced with the inclusion of packing in the interlocks to reduce air loss and for low pressure requirements.

### END FITTINGS

A wide range of end fittings is available for Penflex conveyor hoses. These end fittings can be plain, threaded or grooved nipples, pipe ends, plate flanges, either rigid or floating, and quick disconnect couplings. Attachment can be made by welding, brazing or by high strength adhesives.

### SPECIFICATIONS

Standard conveyor hose is produced in stainless steel in a range of sizes from 3" to 20" inside diameters. Smooth Bore conveyor hose is produced in a size range from 1 1/2" to 20" inside diameters. Because Smooth Bore conveyor hose is manufactured using two separate pieces of metal strip, the completed hose can be composed of two different types of material. TLSS is an all stainless steel construction for maximum corrosion and abrasion resistance. Smooth Bore conveyor hose is a uni-directional flow hose; make sure that the inlet and outlet end connections are specified. The tables on the following page give complete technical information about Penflex conveyor hoses.

### APPLICATIONS

Penflex conveyor hoses are excellent for applications involving the pneumatic transmission of flake or pelletized plastics, grain, coal dust, slag and other dry granular or abrasive materials. It can be used for the loading or unloading of ships, barges, containers, silos, elevators, highway and rail cars. Standard conveyor hose can also be used for air intake for diesel superchargers, exhausting gases from ovens and furnaces, and boiler draft system expansion joints.



## STANDARD CONVEYOR HOSE

NOMINAL ID	NOMINAL OD	MINIMUM COIL DIAMETER	Wt/Ft SS
3	3.25	30	2.3
4	4.25	40	3.1
5	5.25	48	3.8
6	6.25	58	4.8
8	8.25	67	6.0
10	10.25	96	7.52
12	12.25	114	9.0
14	14.25	133	11.0
16	16.25	152	12.0
18	18.25	170	14.5
20	20.25	190	17.0

## SMOOTH BORE CONVEYOR HOSE

NOMINAL ID	LIGHT WEIGHT TLSS .015" ARMOUR / ".015" LINER		STANDARD WEIGHT TLSS .018" ARMOUR / .015" LINER		HEAVY WEIGHT TLSS .024" ARMOUR / .015" LINER	
	MINIMUM COILING DIAMETER	Wt/Ft	MINIMUM COILING DIAMETER	Wt/Ft	MINIMUM COILING DIAMETER	Wt/Ft
1 ½	18	1.4	20	1.6		
2	19	1.9	21	2.2		
2 ½	22	2.3	24	2.6		
3	24	2.8	26	3.1	29	3.8
4	32	3.6	35	4.1	39	5.0
5	47	4.5	50	5.1	57	6.1
6	52	5.4	56	6.1	63	7.3
8			91	8.1	98	9.4
10					111	11.0
12					132	13.0
14					154	15.5
16					176	17.5
18					198	20.5
20					220	23.0

Standard Smooth Bore Conveyor Hose is supplied unpacked. If there is a pressure requirement consult the table below. This data is also applicable to Standard Conveyor Hose.

PACKING MATERIAL	MAX. TEMPERATURE	MAX. PRESSURE	VACUUM
COTTON	300 F	15 PSIG	15 IN. MERCURY, MAX.
SILICONE	500 F	20 PSIG	20 IN. MERCURY, MAX.