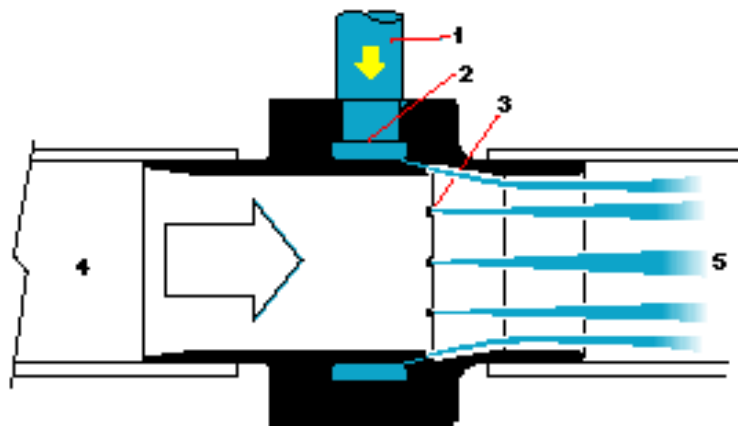


FIKTECH

Dust control & Production optimization

Manual HD inline



HOW HD INLINE WORKS

Compressed air flows through the inlet (1) into an annular plenum chamber (2). It is then injected into the throat through directed nozzles (3). These jets of air create a vacuum at the intake (4) which draws material in and accelerates it through the unit (5) at long vertical or horizontal distances.

COMPRESSED AIR LINE SIZES

For HD Inline Models 6060-6064 use 1/4" pipe or 3/8" hose for runs up to 7.6 m long. For runs up to 15.2 m, use 3/8" pipe or 1/2" hose and for runs over 15.2m, use 1/2" pipe or larger. For Models 6065-6067, use 1/2" pipe or larger. Do not use restrictive fittings or undersized lines that can "starve" the HD Inline by causing excessive line pressure drop.

COMPRESSED AIR SUPPLY

With proper filtration and separation of dirt, moisture and oil from the compressed air supply, the HD Inline will operate for years with no maintenance required.

Use a 10 micron or smaller filter separator on the compressed air supply

To prevent problems associated with oil, use an oil removal filter. The oil removal filter

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should be used downstream from the automatic drain filter separator. Filters should be used close to each HD Inline, within 10 to 15' (3 to 4.6m) is best.

HD Inline is designed to use normal shop air supplies up to 6.9 BAR. For infinite control of flow (conveying speed), pressure may be regulated.

USING THE HD INLINE

Mounting brackets are available for the HD Inline. In some cases, the HD Inline will be supported by the compressed air supply pipe.

HD Inline units are made in various sizes to be used with standard hose or tube. They perform best when mounted at the suction point, however, a hose or tube can be attached to either or both ends of the unit. Hose or tube should be straight when possible and bends minimized to reduce back pressure.

WARNING: Do not use with any material that can create an Explosive mixture.

ADJUSTING THE HDINLINE

The flow generators have a series of holes that convey the material. Conveying speed can be controlled with a pressure regulator. For greater speeds and conveying distances, the generator holes can be made larger with a drill (disassembly required - see "Cleaning"). It is recommended that all hole diameters be increased in 0.40 mm intervals and tested.

TROUBLESHOOTING & MAINTENANCE

If there is a reduction in flow or vacuum from the HD Inline, check the pressure by installing a gage at the compressed air inlet of the HD Inline. Large pressure drops are possible due to undersized lines, restrictive fittings and clogged filter elements.

CLEANING

If contaminants have clogged the HD Inline, remove all screws to disassemble the unit. Inspect each part for dirt contamination and a possible oil film on the flow generator. Clean each part and reassemble. The HD Inline consists of a body, a flow generator, two O-rings and a cap that holds the flow generator in place. The screws that hold the assembly together are on the intake side of the unit. When reassembling, the small holes of the flow generator should point to the exhaust end. Occasionally, there is a build up which occurs in the throat of the HD Inline as a result of vapours in the atmosphere. Clean the surface with a solvent and a clean rag. To prevent contaminants from getting pushed back into the generator holes, perform this procedure with a small amount of compressed air passing through the HD Inline.