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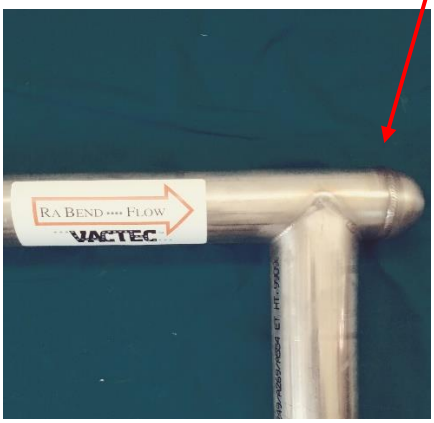
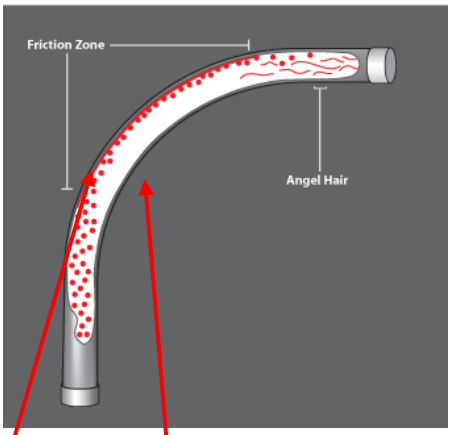
RaBend Pneumatic Conveying Elbows

VACTEC's RaBend is the only pneumatic conveying elbow to be designed specifically for plastic resin conveying. After 50 years of observing numerous problems and difficulties, the RaBend is an easy, cost effective solution, utilizing traditional elbow designs and common materials. The RaBend is made up of a "Tee" piece where one end of the crossing section is shorter then the other. A hemisphere cap end piece is welded to the "short end," sealing it off.

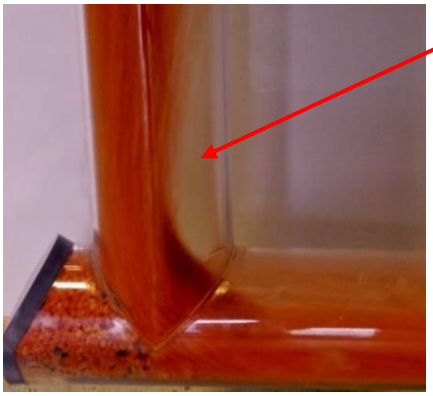


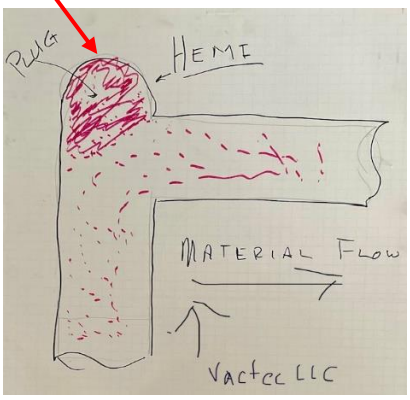


Traditional pneumatic conveying elbows are a bent tube section with the radius of the bend being 6-8 times the pipe diameter. When material flows though a radius bend its kinetic force pushes it against and impinges on the wall and into the "friction zone". If the material being conveyed is abrasive, the impingement wears on the exterior wall and a hole may be formed. If the material is soft, like polyethylene the impingement and rubbing can cause material to adhere to the wall, ultimately forming what is known as angel hair or snake skins. Standard RaBends are available in 2, 2.5, 3 and 4" OD.

How and why does the RaBend work?

As material enters the RaBend its energy carries it to the "pocket" which is created by the short leg of the tee piece and the hemisphere end (not shown below). The pocket creates a material "heal". The material impact on material results in a change of direction without impingement on the wall. Replacing of the flat build T (shown below) with the hemisphere cap (not shown) creates a cyclonic cleanout and reduces greatly reduces the chance of contamination.





Treating for Abrasion.

Rabend NiTec elbows are provided with a proprietary NiTec treatment which rasies the abrasion resistance of 304 Stainless Steel from 29 to 65 HRC on the Rockwell Scale. The Nitec ads only .002-.008 in. to the inner diamter and cannot flake or peel off, like ceramic or enamel coatings.

Why Rabend?

The prime competition for RaBend is Hammertek and Pelbow.

- **COST – Hammertek and Pelbow solutions cost 2-3 times the Rabend, depending on aplication.**
- **WEIGHT – Hammertek and Pelbow are heavy casting and reqiure special handling. The RaBend weighs no more than that of a standar elbow.**
- **INSTALLATION COST - Hammertek and Pelbow cannot connect directly to conveying tube and require special flange connection or adapters. RaBend uses standard compression couplings.**

Hammertek Installed

RaBend Installation