



PNEUMATIC CONVEYING SYSTEMS

## AIR INJECTOR - Convey Line



### OVERVIEW

Cyclonaire's patented convey line injectors improve high pressure dense phase slug flow throughout the convey line.

By improving flow, less source tank pressure and lower material velocities can be used, minimizing degradation of friable and fragile products and also reducing abrasive wearing of the line.

The line injector operates at pressures up to 100 PSIG. Metered volumes are regulated by a patented locking needle type flow adjustment valve complete with adjusting nut and rubber seating boot.

Quick, simple installation and virtually maintenance free.

### APPLICATIONS

- Controls slug length for smoother dense phase conveying

### MATERIALS / CHARACTERISTICS

- Well suited for slug conveying of nonporous materials

### BENEFITS AND FEATURES

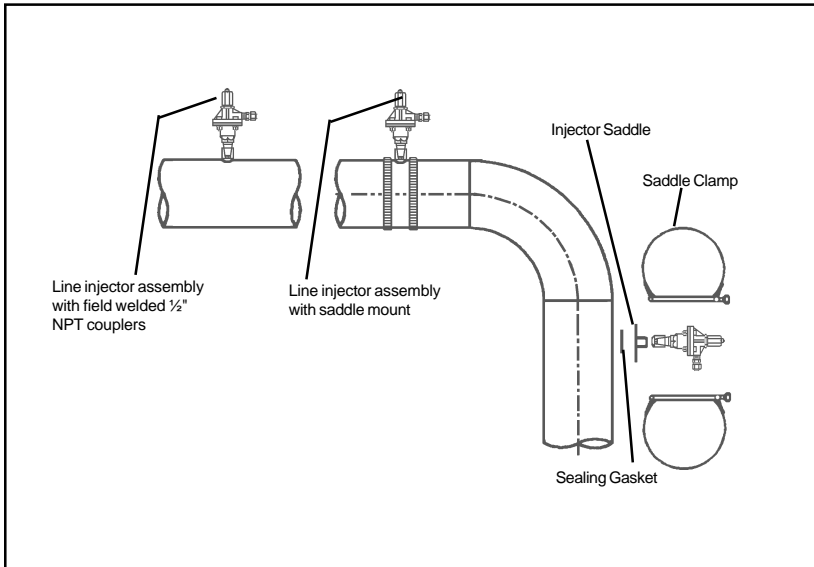
- Standard of the industry, available for retrofit in existing dense phase applications
- Improves slug flow by regulating slug length throughout the convey line
- Assists in restarting dense phase flow after shut down without convey line clean out
- Minimizes degradation in friable and fragile products and reduces abrasive wear during product flow
- Built-in automatic check valve prevents back flow of material into control air
- Convey line injector intervals designed for your application
- Kit includes 12" of air supply hose and ¼" male pipe fitting
- Virtually maintenance free
- Specify: glass filled nylon or stainless steel

### REQUIREMENTS

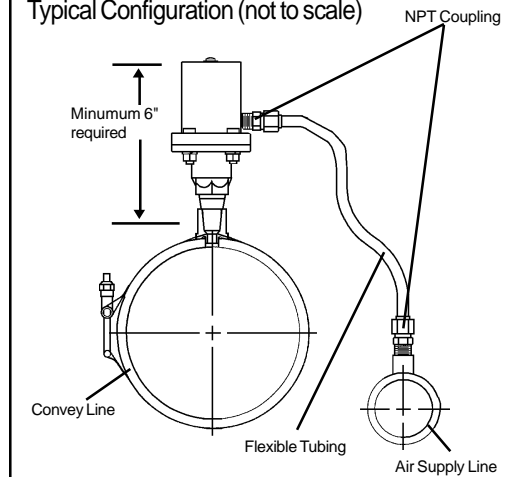
- 80-100 PSIG air

*Protected by U.S. Patent Nos. 4,898,208 and 202,381 and other foreign patents*

# CONVEY LINE INJECTOR



**MODEL CI-500 STAINLESS STEEL INJECTOR**  
Typical Configuration (not to scale)



PSI SETTING	ROUNDS INJECTOR STEM IS TURNED ON					
	1/2	1	1 1/2	2	3	4
	SCFM AIR FLOWS					
20	1	3.2	4	4.4	4.4	4.4
30	1.5	4.8	6.8	7	7.5	7.5
40	2	6	8.4	9.8	10.4	11
50	2.5	6.2	8.9	10.8	11.8	13.2
60	3	7.4	11.3	13.2	13.5	14.6
70	3.5	8.8	13	15.5	16.8	17.2
80	4	9	13.3	15.8	18.7	19.8
90	4.7	10.2	15.6	19	21.5	22.2
100	5.1	11.2	16.2	20	21.8	24.3
110	5.6	12.8	18.4	21.6	24	27

**MODEL CI-500 NYLON INJECTOR**  
Typical Configuration (not to scale)

