CASE STUDY

SUMMARY

Provide two inline **Inflatek Valves®** for a metered volume feed of Dextrose from a holding bin into a reactor.

CASE STUDY

APPLICATION FEATURE

Metered Volume of Dextrose addition to Reactor via two Inflatek Valves®

CUSTOMER	
LOCATION	
INDUSTRY	Ingredients for food and beverage industry
INSTALLATION DATE	June 1989
APPLICATION	Metered volume Dextrose addition to reactor by using two **Inflatek Valves®**
TECHNOLOGY	Inflatable Seat Valves

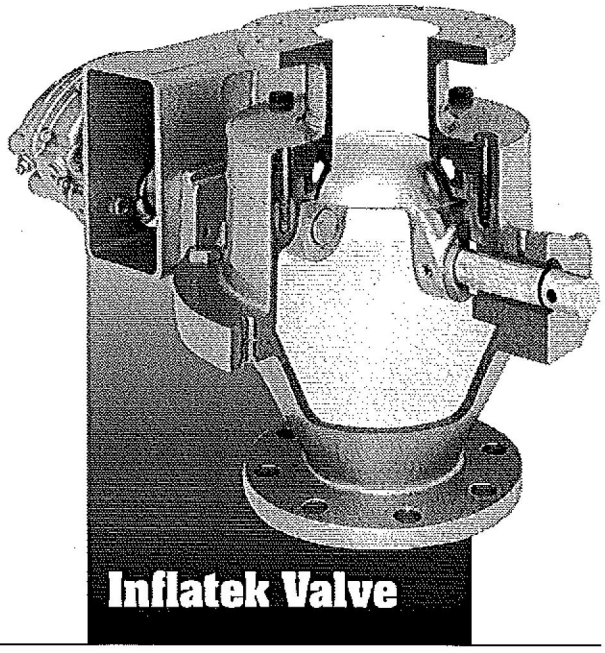
■ SYSTEM OBJECTIVES

System Design Requirements were:

1) Regulated volumetric delivery of Dextrose from two **Inflatek Valves®** in-line of a process.

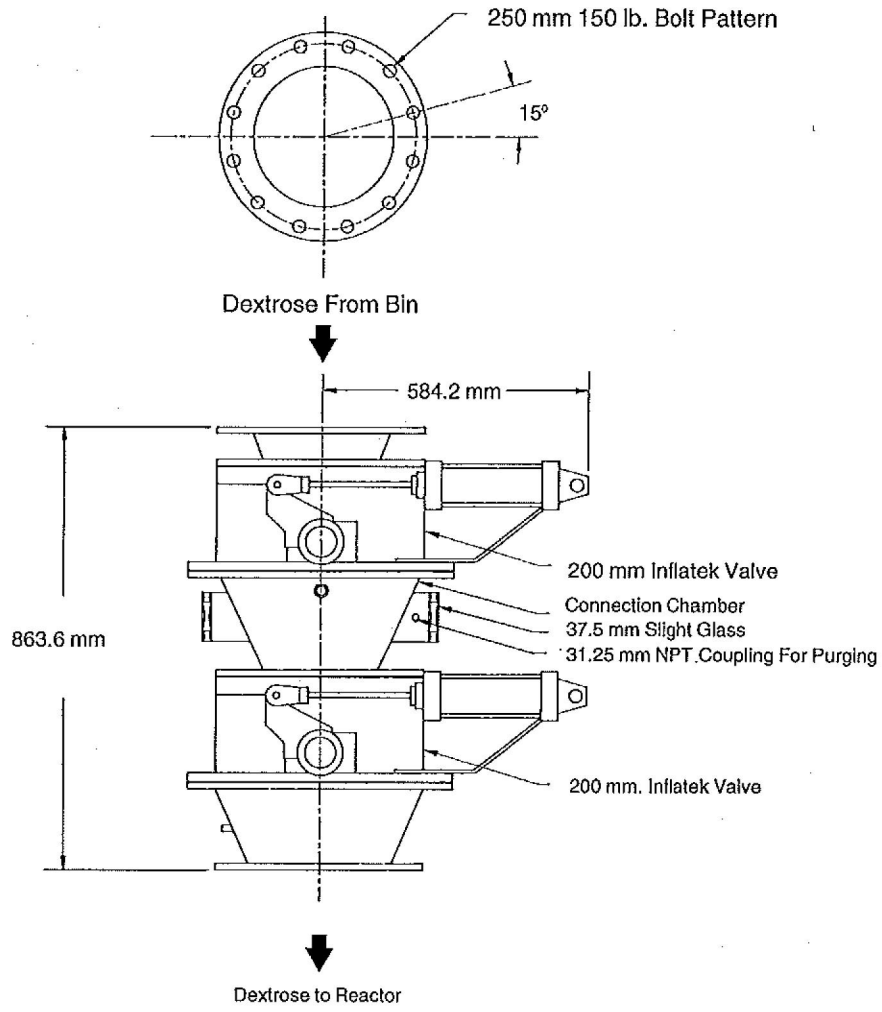
2) Spillage-free, dust-free operation

3) Low Maintenance



■ MATERIAL CHARACTERISTICS

Material	Dextrose
Bulk Density	577 kg/m³
Particle Size	N/A
Moisture Content	Nil
Flowability	Fair
Abrasiveness	Slightly



■ SYSTEM DESCRIPTION

Dextrose is gravity fed from a bin via 250 mm diameter pipe into the two inline **Inflatek Valves®**, The upper **Inflatek Valve®** closes and seals so that a certain volume of Dextrose is encased in a stainless steel spool between the two **Inflatek Valves®** . The Lower **Inflatek Valve®** opens and releases the volume of Dextrose to a 250 mm diameter pipe to a reactor via gravity feed. The **Inflatek Valves®**, intermediate spool, and upper and lower adapters were supplied by Macawber Engineering.

■ SYSTEM PERFORMANCE

Average Air Consumption	0.133 Nm³/min of free air at 5.5/7 bar g (per valve)