

Application

The 2410 pellet receiver is designed to handle pellets as well as re-grind or granular materials. The modular design of the receiver allows flexibility in the selection of material construction, power, filtration, receiver inlet sections and type of discharge to meet your current application requirements, as well as any future needs.

The 2410 receiver is available in two versions for either general keep full conveying or loss-in-weight (LIW) feeder refill applications, with a selection of various discharge valve types (gravity, slide and butterfly), depending on the application and material to be fed.

Receivers for keep-full applications are fitted with a gravity gate discharge valve. The receiver sequences draw cycles of material as long as inductive proximity switch on the gravity discharge gate is in the almost closed position or a signal from a secondary level indicator in the hopper is detected, ensuring the hopper below the receiver is kept full.

Receivers designed for loss-in-weight feeder refill applications are fitted with a level sensor in the housing and require a slide or butterfly valve. The receiver draws material until it is full and waits for a signal from the feeder below to open the discharge valve and dispense the material. This cycle is then repeated.

Design

The 2410 receiver is available in either aluminum (painted) or stainless steel construction. Components of different construction are interchangeable allowing receivers to be specified with stainless steel material contact areas only.

Central system units for the 2410 receivers utilize a common vacuum blower package, and are primarily used on multiple-destination applications where larger conveying rates or long distances are required.

Mechanical Features

- Rugged modular design
- Quick-connect clamps for easy cleaning and filter maintenance
- Full support discharge flange for mounting

Controls

The receiver is available with controls suitable for use with either a solid state microprocessor controller (MPC) or a programmable logic controller (PLC). Both control systems utilize 24 VDC low voltage and are available with installation kits making installation easy and more economical. The receiver controls include color coded quick connectors and provide communication to the central controller.

For single receiver applications, we offer the LSR Controller. In loss-in-weight feeder refill applications, the LSR Controller seamlessly interfaces with Coperion K-Tron Feeder controls.

Conveying Rates

Based on a distance of 15 m [50 ft] and bulk density of 0.5 kg/dm³ [31 lb/ft³]. Rates vary with material characteristics, conveying distance and plant layout.

Pellet Receiver

- Up to 1,180 kg/h [2,600 lb/h]



*2410 pellet receiver
in painted aluminum
with gravity discharge gate*

Technical Data

Standard Mechanical Specifications

- Available in painted RAL 7035 gray aluminum or 1.4301 (AISI 304) stainless steel construction
- Holding capacity general conveying version: 11.7 dm³ [0.41 ft³]
- Holding capacity LIW refill version: 9.7 dm³ [0.34 ft³]
- 254 mm [10 in] diameter housing
- Up to 50.8 mm [2 in] tangential inlet with stainless steel check valve
- Stainless steel band clamps
- Integral fill valve with backside vent, dual acting air cylinder with solenoid control 24 VDC
- Discharge gate valve
 - Keep full version: One-piece aluminum or stainless steel 127 mm [5 in] gravity gate discharge with white Neoprene seal and inductive proximity switch level-sensing system (24 VDC) on gravity gate
 - LIW feeder refill version: Butterfly or slide gate valve; with single coil solenoid (energize to open valve)

Standard Filtration Configuration

- Perforated filter element for pellets

Standard Electrical Specifications

- Signal voltage 24 VDC

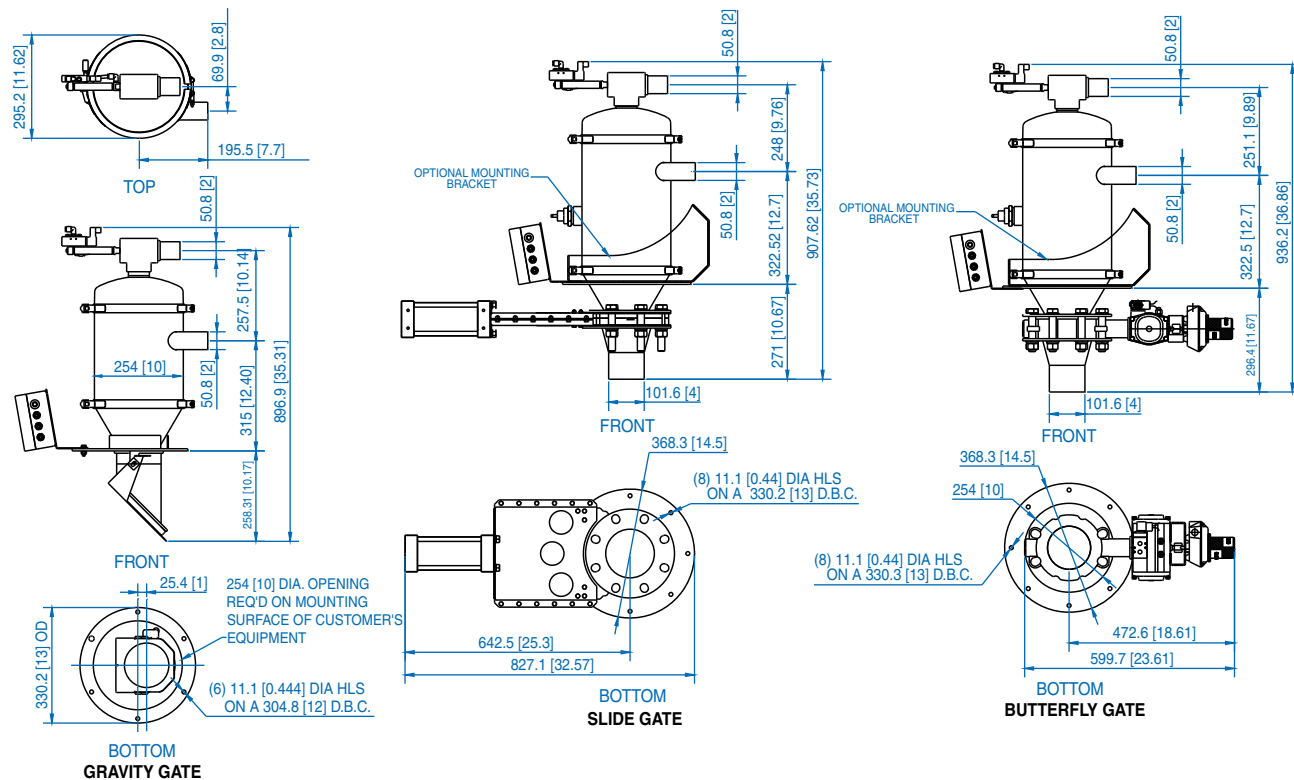
Pellet Receiver Weights

- Aluminum: 15 kg [32 lb] depending on discharge configuration
- Stainless Steel: 29 kg [64 lb] depending on discharge configuration

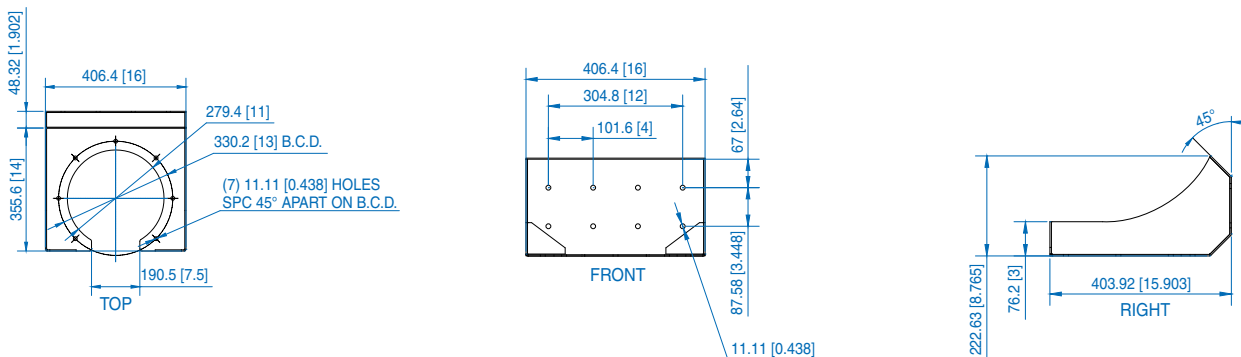
Operating Temperature

- -10 to 50°C [14 to 122°F]

Dimensions of 2410 Pellet Receiver mm [in]
for general keep full conveying for loss-in-weight feeder refill



Dimensions Optional Mounting Bracket mm [in]



Options

Mechanical

- Mounting bracket for LIW feeder refill versions
- Bead blast surface finish (1.8 micron Ra)
- Flange for alternate discharge gate valve
- PTFE membrane on filter elements
- Weatherhood for outdoor use
- Custom material combinations
- Reduced inlet tube size to meet smaller capacity applications
- Vibrator as discharge aid
- Aeration pads as discharge aid
- Enclosure for solenoids

Electrical

- Mounting bracket for terminal box or controller
- Level probes (capacitive or tuning fork type)
- Limit switches on butterfly or slide gate valve
- LSR Controller
- Central Microprocessor or PLC Control
- Stainless steel options on solenoids, gauges as required
- Solenoid boxes supplied loose in mild or stainless steel finish
- Terminal box mounted in mild or stainless steel finish
- For NEC and ATEX compliant options contact factory
- For CSA or UL certified solenoid contact factory

Caution: Measurements are for general reference only. Please consult dimensional drawing for exact measurements.