

FLEXICON CONFIGURATIONS



Pneumatic Weigh Hopper with Fill/Pass Valve

W-0948A



● Flexicon manufacturing locations
■ Flexicon factory-direct field sales
■ Flexicon manufacturers' representatives

flexicon®

USA

FLEXICON CORPORATION
Tel: +1 610 814 2400
E-mail: sales@flexicon.com
Web: www.flexicon.com

UK

FLEXICON (EUROPE) LTD
Tel: +44 1227 374710
E-mail: sales@flexicon.co.uk
Web: www.flexicon.co.uk

AUSTRALIA

FLEXICON CORPORATION
(AUSTRALIA) PTY LTD
Tel: +61 7 3879 4180
E-mail: sales@flexicon.com.au
Web: www.flexicon.com.au

SOUTH AFRICA

FLEXICON AFRICA (PTY) LTD
Tel: +27 41 453 1871
E-mail: sales@flexicon.co.za
Web: www.flexicon.co.za

SPAIN

FLEXICON EUROPE SPAIN
Tel: +34 930 020 509
E-mail: ventas@flexicon.es
Web: www.flexicon.es

FRANCE

FLEXICON EUROPE SAS
Tel: +33 7 61 36 56 12
E-mail: ventes@flexicon.fr
Web: www.flexicon.fr

GERMANY

FLEXICON EUROPE GmbH
Tel: +49 173 900 78 76
E-mail: vertrieb@flexiconeurope.de
Web: www.flexicondeutschland.de

SINGAPORE

FLEXICON SINGAPORE PTE LTD
Tel: +65 6778 9225
E-mail: sales@flexicon.com.sg
Web: www.flexicon.com.sg

INDONESIA

FLEXICON SINGAPORE PTE LTD
Tel: +62 81 1103 2400
E-mail: sales@flexicon.co.id
Web: www.flexicon.co.id

Pneumatic Weigh Hopper with Fill/Pass Valve

This weigh hopper with Fill/Pass Valve for dilute-phase pneumatic conveying systems has been introduced by Flexicon. Suspended from three small-scale load cells, the gain-in-weight hopper delivers higher accuracy than loss-of-weight systems requiring higher-capacity load cells.

Single or multiple hoppers can be positioned along a common vacuum or positive pressure pneumatic conveying line for discharging of dry bulk solids into single or multiple process equipment, storage vessels or downstream use points by weight. Downstream of the last fill/pass valve, the conveying line can be routed to the original material source point or into a dust collection device.

The system's controller weighs a batch by changing the position of the valve which diverts conveyed material into the hopper. As the hopper fills, load cells transmit weight gain information to a PLC. Once the batch weight has been reached, the valve redirects material away from the hopper. The controller then actuates a slide gate valve to open, discharging the weighed batch.

Rated for the pressure differentials associated with pneumatic conveying, the conical hopper is eccentric with a vertical sidewall to promote complete discharge of weighed materials for batching accuracy.

The unit is constructed of stainless steel finished to industrial or sanitary standards to suit virtually any chemical, mineral, plastics or food processing application.

The company also supplies flex-tube diverters, wye-diverters, plug diverters and other line diverter configurations to optimize any pneumatic conveying system.



Fill/Pass Valve of Flexicon's pneumatic weigh hopper allows material to pass through the valve or to fill a hopper based on weight gain signals transmitted from load cells to the system's controller.

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USA

FLEXICON CORPORATION
Tel: +1 610 814 2400
E-mail: sales@flexicon.com
Web: www.flexicon.com