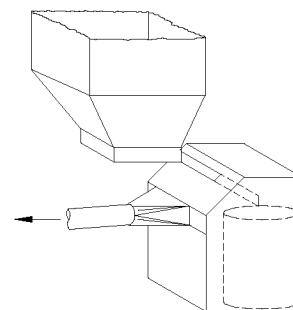
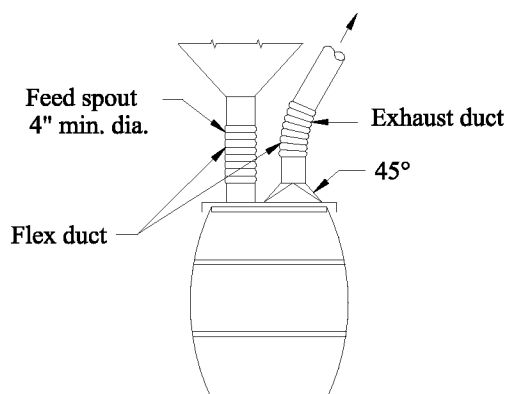


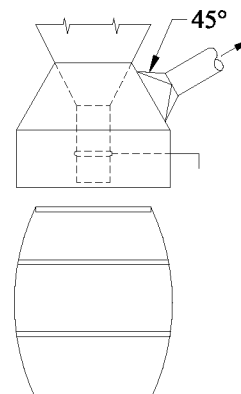
$Q = 100 \text{ cfm/ft}^2$ barrel top (minimum)
 Minimum duct velocity = 3500 fpm
 $h_e = 1.78 VP_s + 0.25 VP_d$



$Q = 150 \text{ cfm/ft}^2$ of open face area
 Minimum duct velocity = 3500 fpm
 $h_e = 0.25 VP_d$ (45° taper)



$Q = 50 \text{ cfm} \times \text{drum diam. (ft)}$
 Minimum duct velocity = 3500 fpm
 $h_e = 0.25 VP_d$



$Q = 300-400 \text{ cfm}$
 Minimum duct velocity = 3500 fpm
 $h_e = 0.25 VP_d$

Note 1: Air displaced by material feed rate may require higher exhaust flow rates.

Note 2: Excessive air flow can cause loss of product.

Note 3: When transferring flammable or combustible liquids, bonding and grounding requirements of NFPA Code 77 should be followed.

Reference: 10.15.1



TITLE

BARREL FILLING

FIGURE

VS-15-01

DATE

1-91