b) In Fig. 10-27, this is the x value. Determine y value at flooding (or calculate w/ Eq. 10-39a)

PG PL gc
Know everything but G'
Solve for 6' = specific gas flowrate
= 16/Ft2s ##
/
d) Now know 6' and 6 =>
Solve for area
e) Calculate dismeter form area
f) Determne DP inches H20 ft packing
from Fig 10. 27 or Eq. 10-39 b where a and B are in Table 10-3
where a and is are in 1266 10-3
4) For specified DP
_
a) Choose & P (see p. 397 for quidelines)
quidelines)
b) Part was the Great Train 27
b) Read y-value from Fig 10-27 and determine 6' as before
ord de tombre of the
Calculate G' from Eq. 10-396
Note: L'= L' 1 - L 1
Calculate G' from Eq. 10-396 Note: $L' = \frac{L'}{G'}G' = \frac{L}{G}G'$
c) With G' -> area -> diameter

c) y-value is

G12 F 440.2

	d) cheeds on flow during
	d) Check To flow diving
	See Example 10-4 and first half Example 16-2
	Example 16-2
	•
	Physical Properties - can be obtained from physical properties package in software such as Chem CAD
	project ites - can be
	06 tained from physical properties
	package in software such as Chem CAD
	Example of calculation:
	Example of calculation:
	$F_{IV} = 1.00 = \frac{L}{6} \left(\frac{\rho_G}{\rho_L} \right)^{1/2}$
	$F_{1} = 7.00 = \frac{76}{5}$
	6 (PL)
_	25 mm Berl Saddles (cerunice)
_	(50) Claring
	05 % flooding 0 = 1.0 16 m/f+3
	$\mathcal{O}_{V} = 1.016 \text{ my} + 7$
~	V = 10 (long) /5
-	M. = 17.0 (b/16mol
	Pa = 62.4 / 16 1/4 3
_	(2) - 12 W 11 10+3
	10 L - 62.7 16m/+7
_	$V = 1.0 bmo /s$ $M_{\nu} = 17.0 b/ bmo $ $P_{\nu+2} = 62.4 bm/ft ^{3}$ $P_{\nu} = 62.4 bm/ft ^{3}$ $M_{\nu} = 1/c P$
	Form Table 10-3 F = 110
	CI F U 40.2
	<u> </u>
	G'2 F 4 M 0.2 = 0.022 PGPL ge
	$\frac{1}{2}$ $\frac{1}{32.2}(1.0)(4.4)$
	$G' = \frac{1}{(0.022)}$
	$6'^{2} = \frac{(32.2)(1.0)(0.4)}{(10)(1)(1)^{0.2}}(0.022)$
	1 2 - 0 1/0 - 0 (- 0 / 31/ 1b)
	G' = 0.402 G' = 0.634 ft ² s
	G' = 0.402 G' = 0.634 ft ² s at flooding

6' at 65% of floody =
$$(.65)(0.634 \frac{15}{425}) = 0.412 \frac{15}{425}$$

$$= 41.26 ft^2 = \pi p^2$$