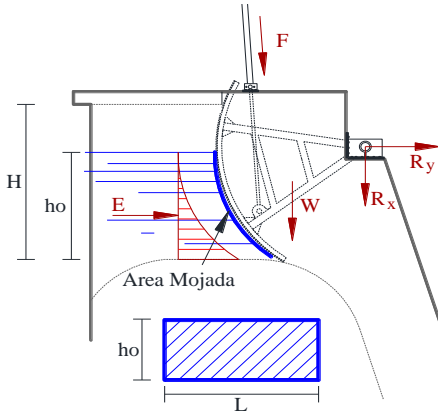


CALCULOS DE LA COMPUERTA

$H = 1.80 \text{ m}$
 $h_o = 1.50 \text{ m}$
 $L = 2.00 \text{ m}$
 $r = 1.55 \text{ m}$
 $\gamma_w = 1,000.00 \text{ } \rho^3$
 $(H - h_o) = 0.30 \text{ m}$
 $v \text{ (viento)} = 15 \text{ m/s}$

Presiones		Fuerzas	
Pu1 =	1500.0	W	800.0
Pu2 =	274.5	Ex	4500.0
		Ey	0.0
		Fv	164.7



CAUDAL EN COMPUERTA RADIAL

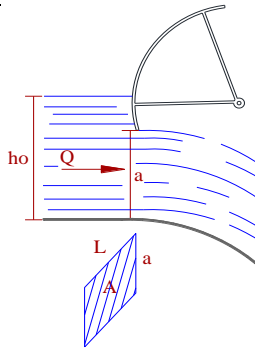
$Q \text{ (50\%)} = 5.47 \text{ m}^3/\text{s}$

$Q_{RIO} = Q_{COMPUERTA} = V \times A$

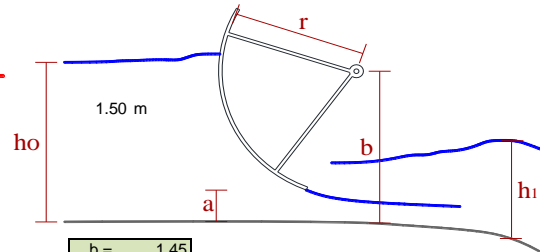
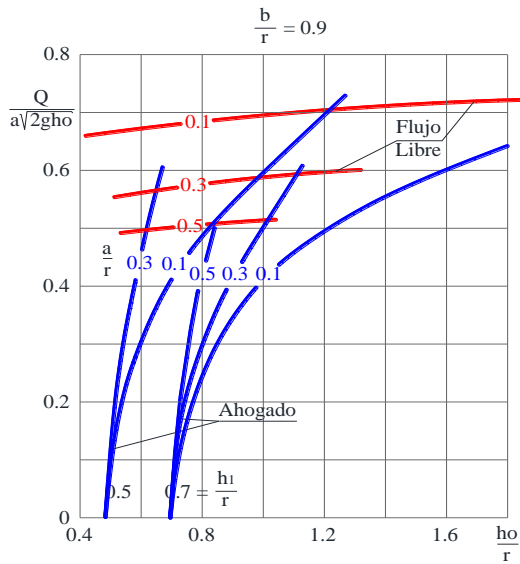
$a = 1.50 \text{ m}$
 $A = 3.00 \text{ m}^2$
 $V_{COMPUERTA} = 1.82 \text{ m/s}$

Velocidad en causes abiertos
menores a 2.0 m/s

1.82 < 2.0 m/s



COEFICIENTE DE GASTO PARA COMPUERTAS RADIALES, SEGÚN A. Toch



$b = 1.45$
 $a = 1.50$

$(b/r) = 0.9$

$(h_o/r) = 0.97$

$\frac{Q}{a \sqrt{2gh_o}} = 0.6725$