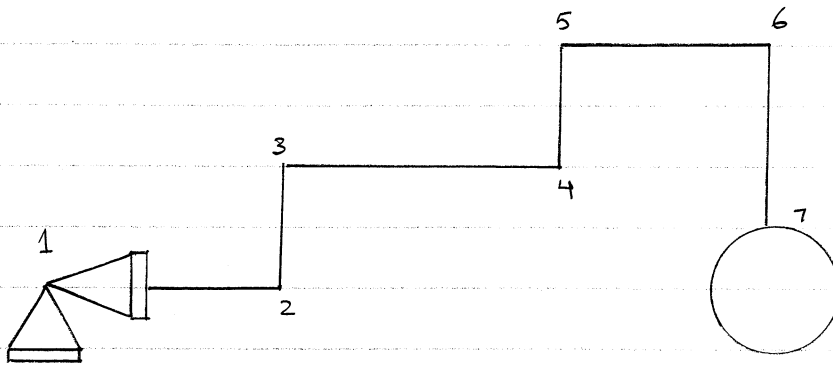


# CLOSED PSV SYSTEM



FIND PSV REACTION FORCE "F"

FORCE ON LEG 1-2

$$F_{12} = F \times \frac{L_{12}}{a \cdot T_0}$$

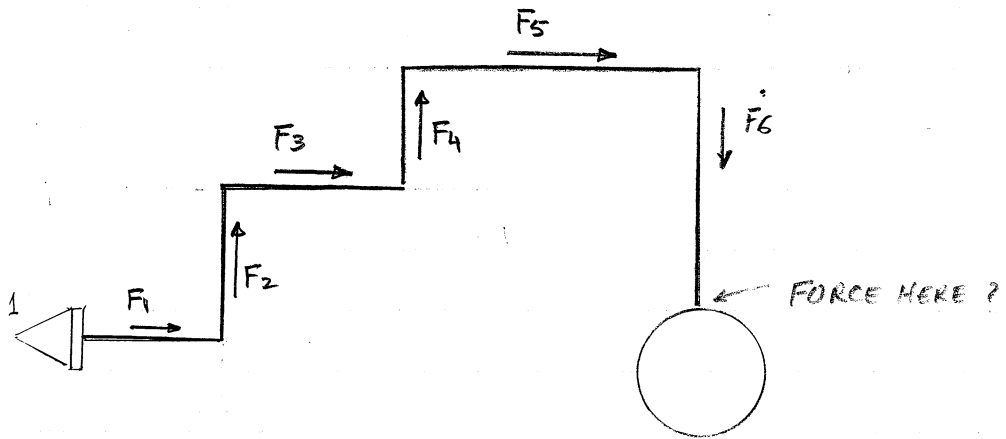
$L_{12}$  = LENGTH FROM 1 TO 2

$a$  = SPEED OF SOUND

$T_0$  = VALVE OPENING TIME

FORCE ON ANY LEG  $i-j$

$$F_{ij} = F \times \frac{L_{ij}}{a \cdot T_0}$$



$L_1$	$W + P_1 + T_1$	
$L_2$	$W + P_1 + T_1 + F_1$	
$L_3$	$W + P_1 + T_1 + F_2$	
$L_4$	$W + P_1 + T_1 + F_3$	
$L_5$	$W + P_1$	
$L_6$	$L_2 - L_1$	OCC
$L_7$	$L_3 - L_1$	OCC
$L_8$	$L_4 - L_1$	OCC
$L_9$	$L_5 + L_6$	OCC (SCALAR)
$L_{10}$	$L_5 + L_7$	" "
$L_{11}$	$L_5 + L_8$	" "
$L_{12}$	$L_1 - L_5$	EXP

LOAD CASES FOR  $F_1, F_2, F_3$  ONLY.