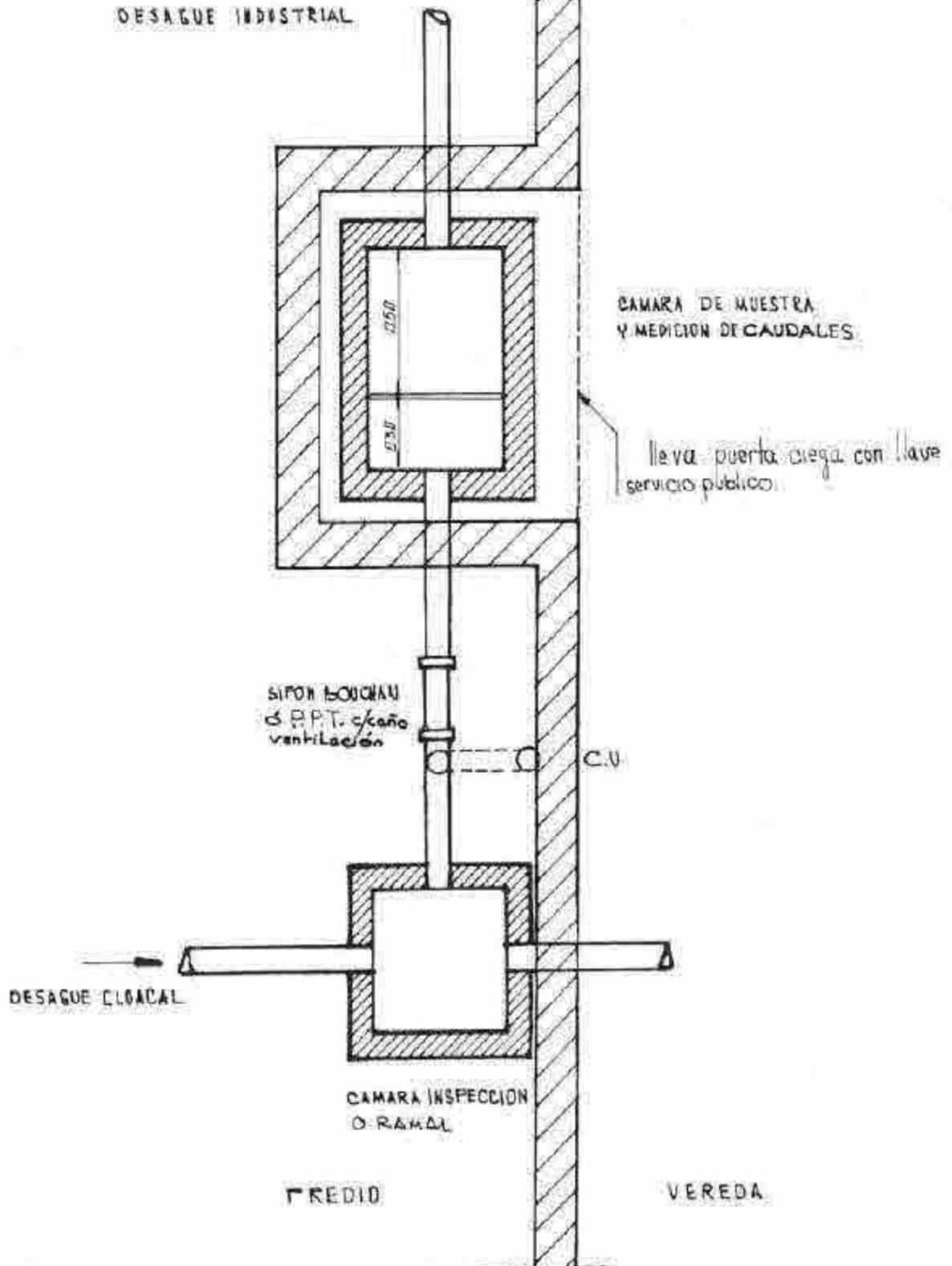


ILUSTRACION CASO A COLECTORA

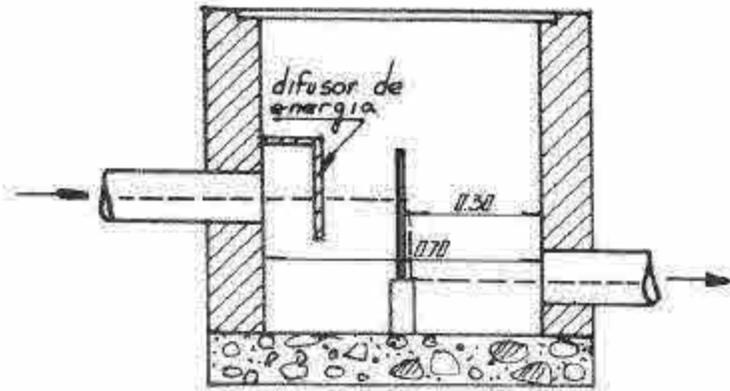
DESAGUE CONJUNTO INDUSTRIAL Y CLOACAL
(CONEXION UNICA)

DESAGUE INDUSTRIAL

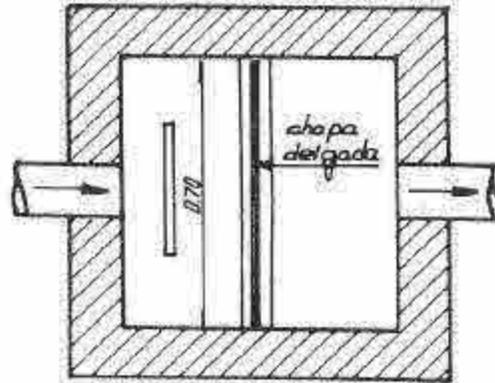


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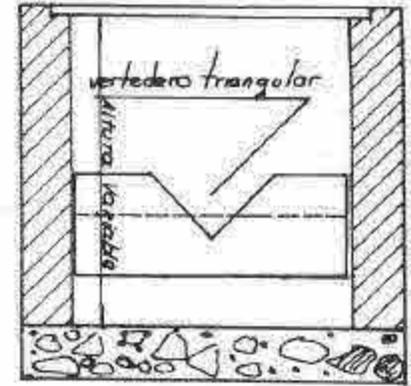
CAMARA PARA EXTRACCION DE MUESTRAS Y MEDICION DE CAUDALES PARA LIQUIDOS INDUSTRIALES



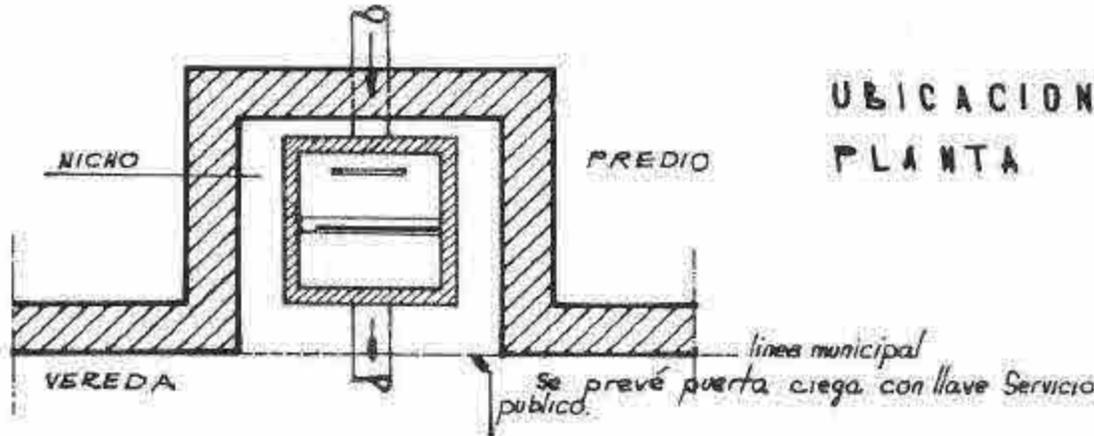
CORTE LONGITUDINAL



PLANTA



CORTE TRANSVERSAL



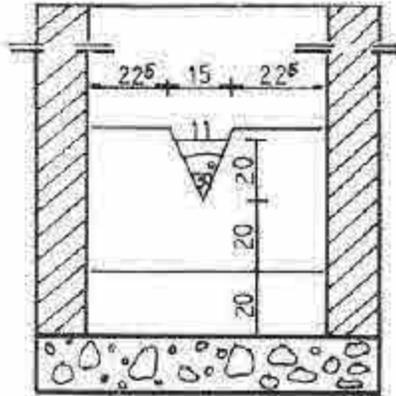
UBICACION DE LA CAMARA
PLANTA

La cámara para extracción de muestras y medición de caudales para líquidos residuales industriales debe estar ubicada en la forma prevista en la planta, formando nicho interno en el predio pero, con acceso libre externo. La cámara dimensionada corresponde a las medidas mínimas, para mayores desagües debe proyectarse y dimensionarse de manera de ubicarla convenientemente para dar origen a una pérdida prácticamente nula antes de la salida por el vertedero triangular.

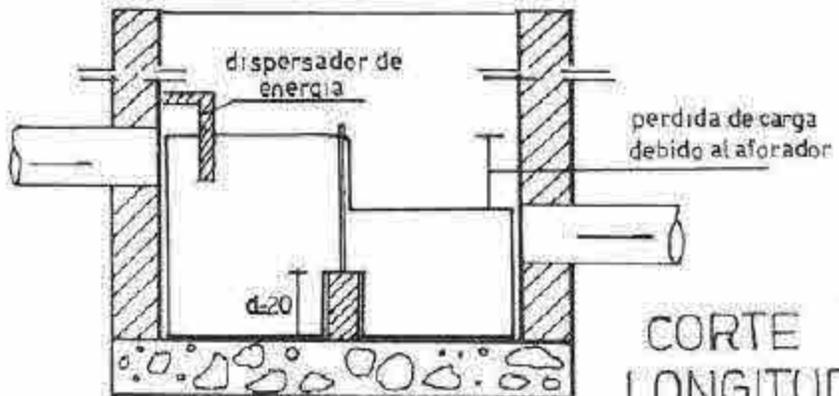
CAMARA DE EXTRACCION DE MUESTRAS Y MEDICION DE CAUDALES HASTA 25 m³/h

TABLA DE CAUDALES

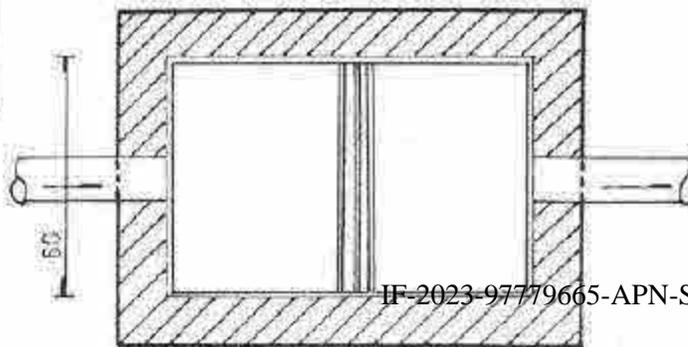
h(m)	Q m ³ /h
0.01	0.014
0.02	0.074
0.03	0.218
0.04	0.449
0.05	0.784
0.06	1.237
0.07	1.824
0.08	2.540
0.09	3.410
0.10	4.438
0.11	5.627
0.12	7.000
0.13	8.550
0.14	10.000
0.15	12.000
0.16	16.000
0.17	17.000
0.18	19.000
0.19	22.000
0.20	25.000



CORTE TRANSVERSAL



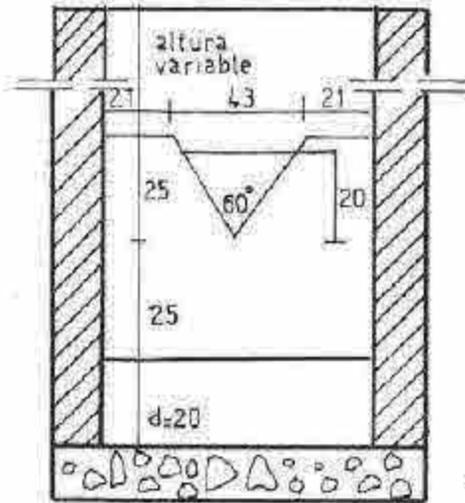
CORTE LONGITUDINAL



PLANTA

IF-2023-97779665-APN-SSFYR#MAD

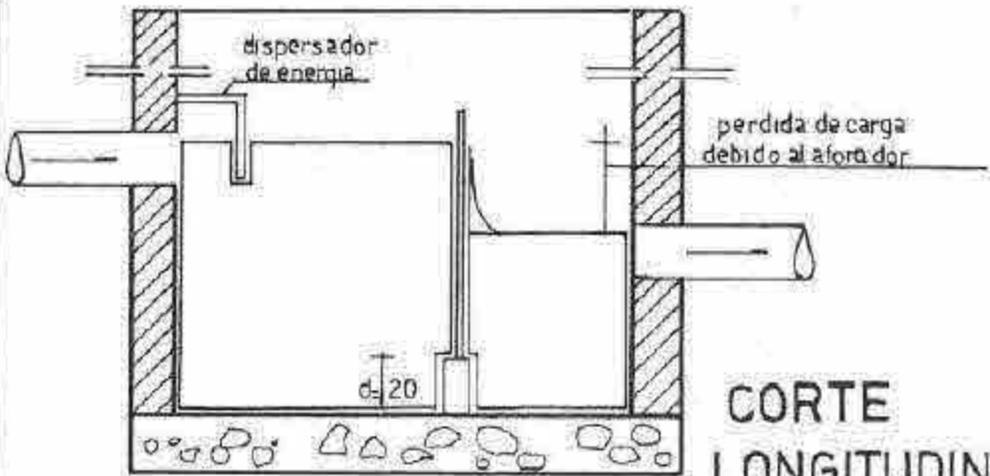
GAMARA DE EXTRACCION DE MUESTRAS Y MEDICION DE CAUDALES HASTA 50m³/h



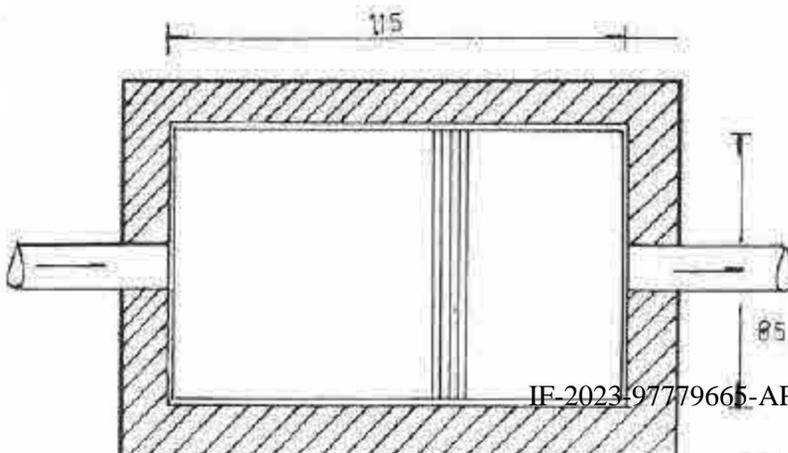
CORTE TRANSVERSAL

TABLA DE CAUDALES

h(m)	Q(m ³ /h)
0,01	0,030
0,02	0,160
0,03	0,450
0,04	0,900
0,05	1,620
0,06	2,600
0,07	3,800
0,08	5,000
0,09	7,000
0,10	9,000
0,11	13,000
0,12	14,000
0,13	18,000
0,14	21,000
0,15	25,000
0,16	30,000
0,17	35,000
0,18	40,000
0,19	46,000
0,20	52,000



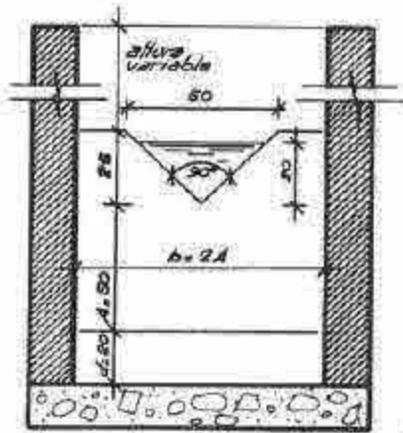
CORTE LONGITUDINAL



PLANTA

IF-2023-97779665-APN-SSFYR#MAD

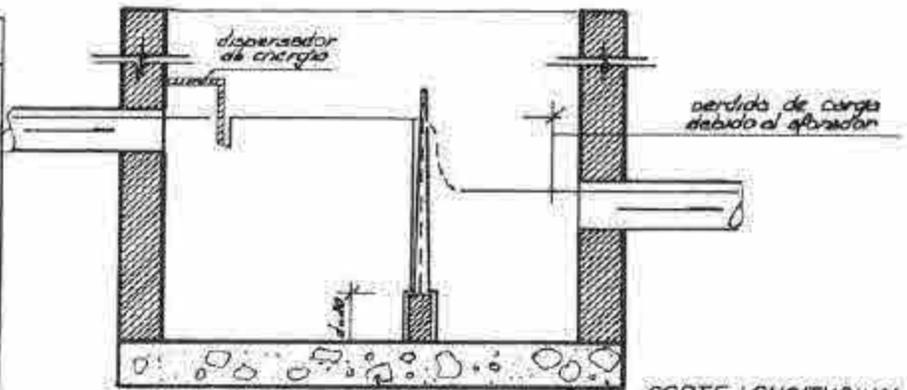
CAMARA DE EXTRACCION DE MUESTRAS Y MEDICION DE CAUDALES HASTA 90 m³/h.



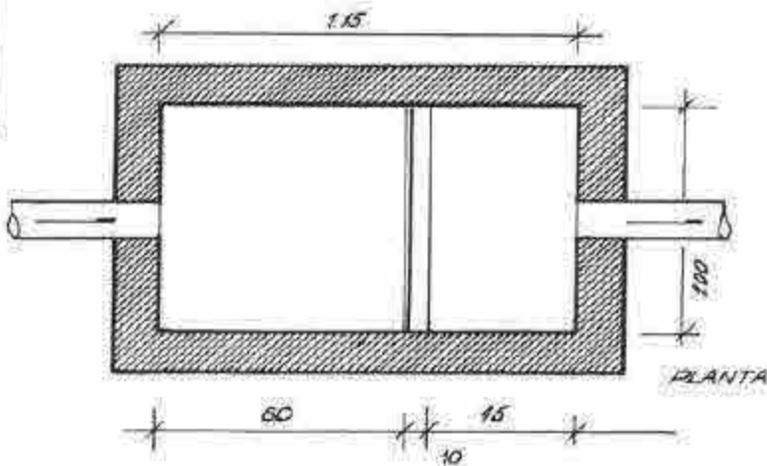
CORTE TRANSVERSAL

TABLA DE CAUDALES

h (m)	Q (m ³ /h)
0.05	3
0.06	5
0.07	7
0.08	9
0.09	13
0.10	16
0.11	21
0.12	26
0.13	31
0.14	37
0.15	45
0.16	52
0.17	61
0.18	70
0.19	80
0.20	90

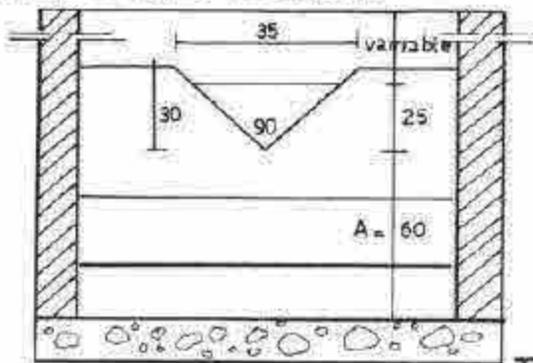


CORTE LONGITUDINAL



PLANTA

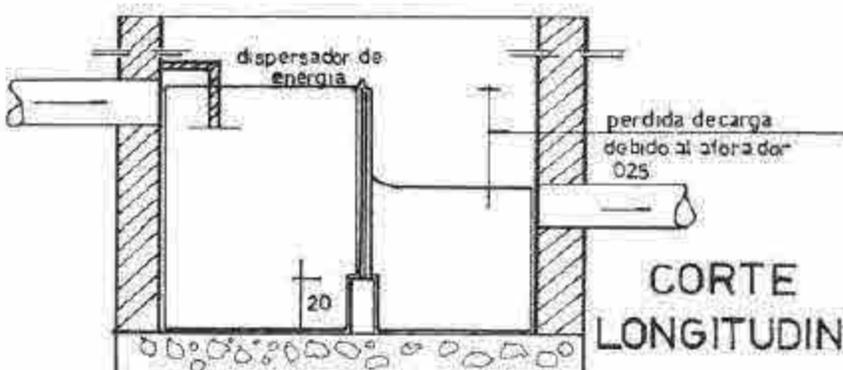
CAMARA DE EXTRACCION DE MUESTRA Y MEDICION DE CAUDALES Y TUBO TESTIGO PARA CAUDALES DE 155 m³/h



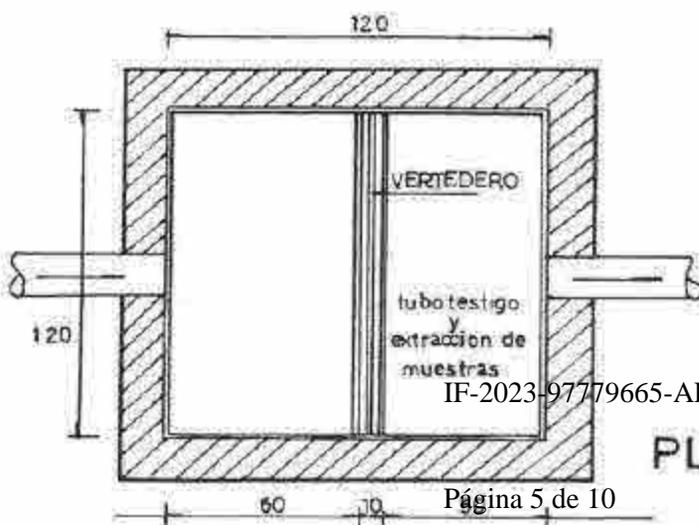
CORTE TRANSVERSAL

TABLA DE CAUDALES

h (m)	Q (m ³ /h)
0.05	3
0.06	5
0.07	7
0.08	9
0.09	13
0.10	16
0.11	21
0.12	26
0.13	31
0.14	38
0.15	45
0.16	52
0.17	61
0.18	70
0.19	80
0.20	90
0.21	101
0.22	113
0.23	126
0.24	140
0.25	155



CORTE LONGITUDINAL



PLANTA

CAMARA DE EXTRACCION DE MUESTRA Y MEDICION DE CAUDALES Y TUBO TESTIGO PARA CAUDALES DE 245m³/h

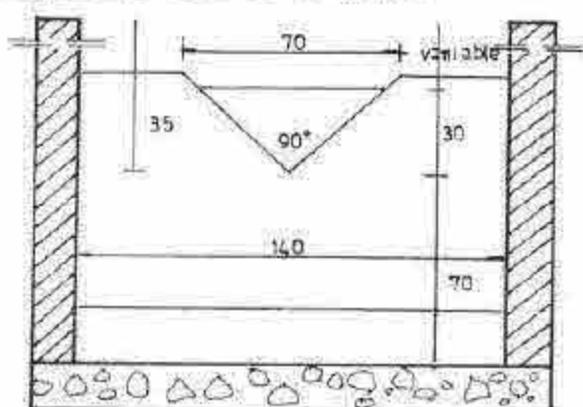
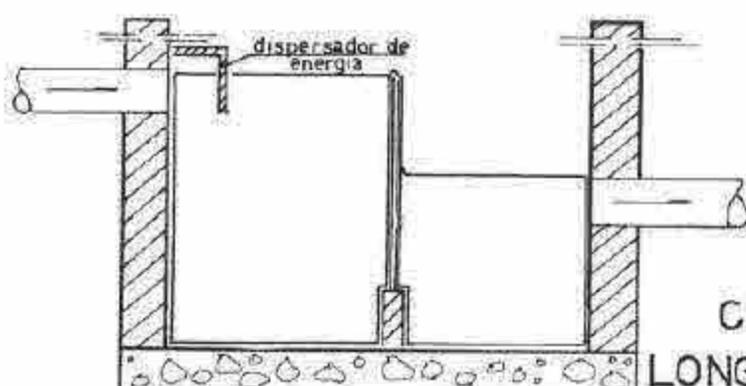
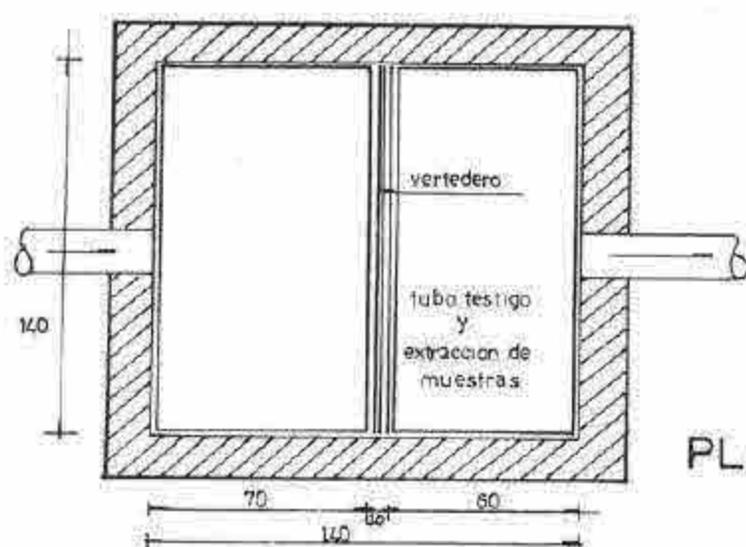


TABLA DE CAUDALES

h(m)	Q(m ³ /h)
0.05	3
0.06	5
0.07	7
0.08	9
0.09	13
0.10	16
0.11	21
0.12	26
0.13	31
0.14	38
0.15	45
0.16	52
0.17	61
0.18	70
0.19	80
0.20	90
0.21	101
0.22	113
0.23	126
0.24	140
0.25	155
0.26	171
0.27	188
0.28	206
0.29	224
0.30	245



CORTE LONGITUDINAL



PLANTA

CAMARA DE EXTRACCION DE MUESTRA Y MEDICION DE CAUDALES Y TUBO TESTIGO PARA CAUDALES DE 356 M³/h

CORTE TRANSVERSAL

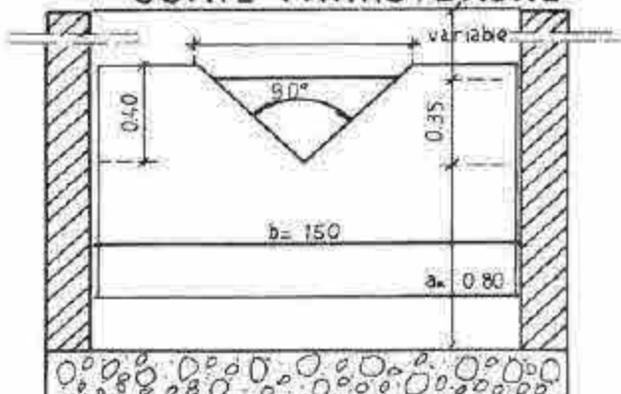
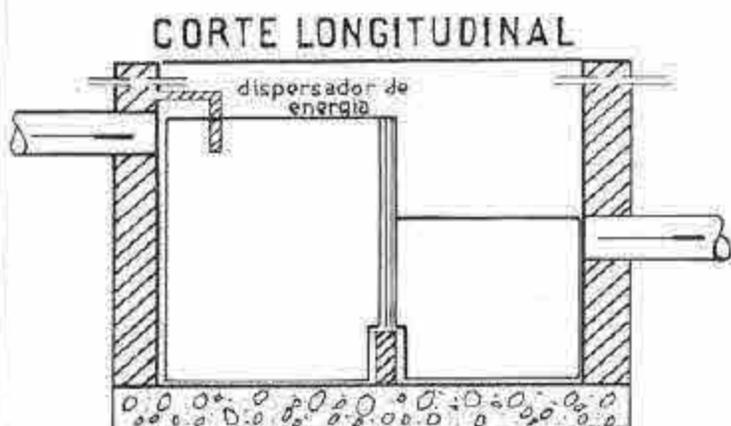
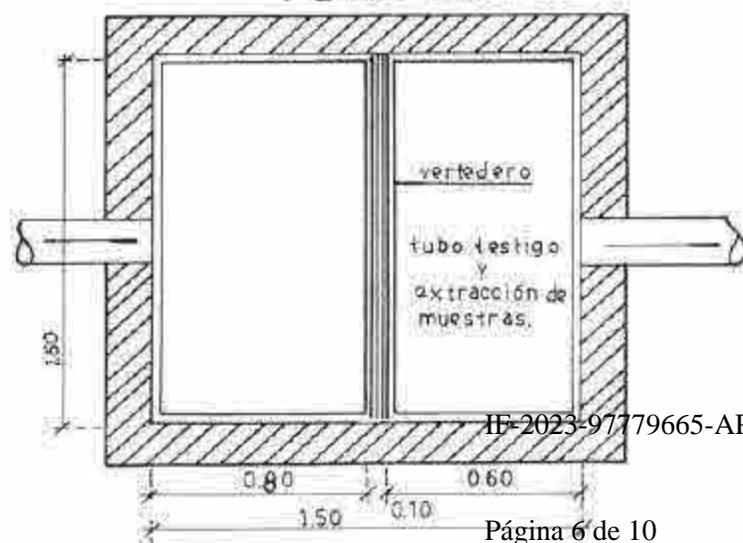


TABLA DE CAUDALES

h(m)	Q(m ³ /h)
0.05	3
0.06	5
0.07	7
0.08	9
0.09	13
0.10	16
0.11	21
0.12	26
0.13	31
0.14	38
0.15	45
0.16	52
0.17	61
0.18	70
0.19	80
0.20	90
0.21	101
0.22	113
0.23	126
0.24	140
0.25	155
0.26	171
0.27	188
0.28	206
0.29	224
0.30	245
0.31	265
0.32	287
0.33	309
0.34	332
0.35	356



PLANTA



CAMARA DE EXTRACCION DE MUESTRAS Y MEDICION DE CAUDALES Y TESTIFICADORA PARA CAUDALES DE 360 M³/h. CORTE TRANSVERSAL

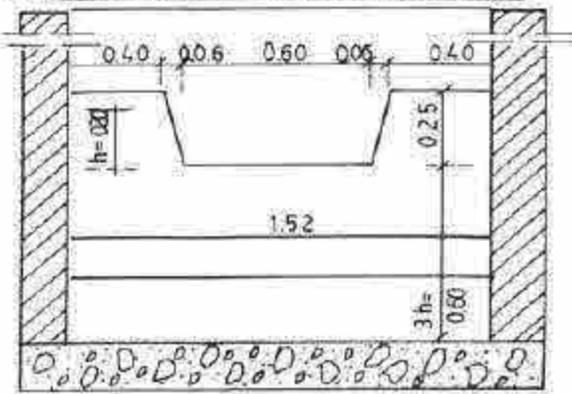
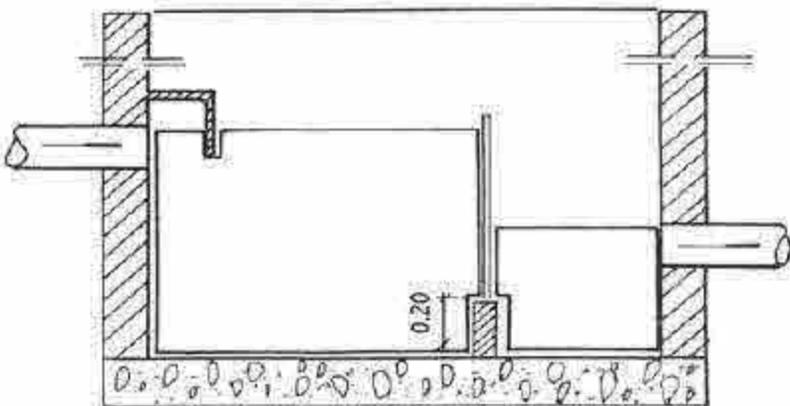


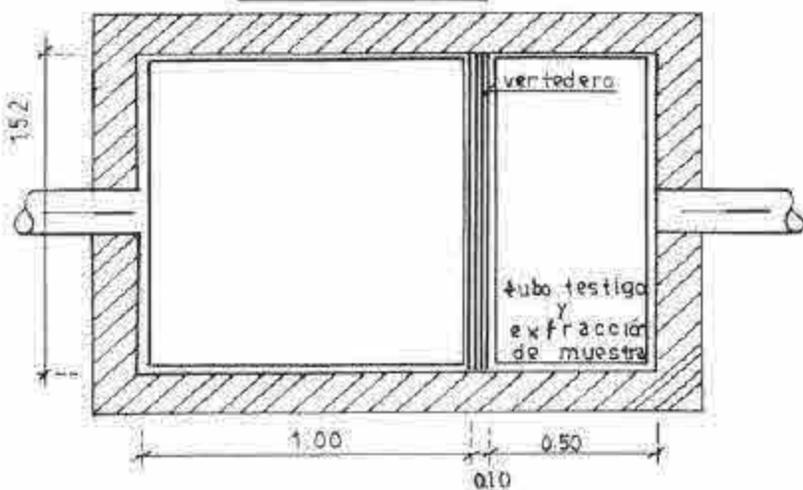
TABLA DE CAUDALES

h(m)	Q(m ³ /h)
0.05	43
0.06	60
0.07	76
0.08	93
0.09	114
0.10	127
0.11	149
0.12	169
0.13	188
0.14	203
0.15	233
0.16	255
0.17	261
0.18	307
0.19	320
0.20	359

CORTE LONGITUDINAL



PLANTA



CAMARA DE EXTRACCION DE MUESTRA Y MEDICION DE CAUDALES Y TUBO TESTIGO PARA CAUDALES DE 500 m³/h. CORTE TRANSVERSAL

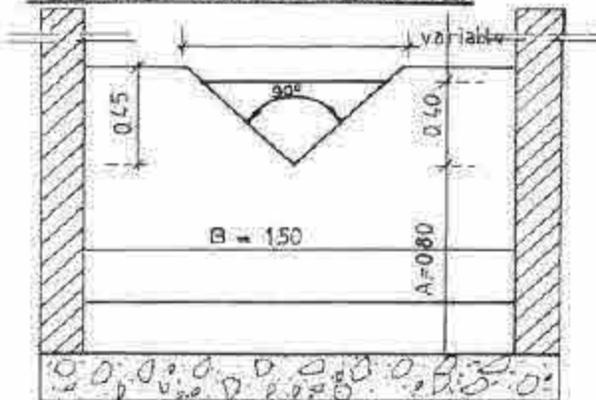
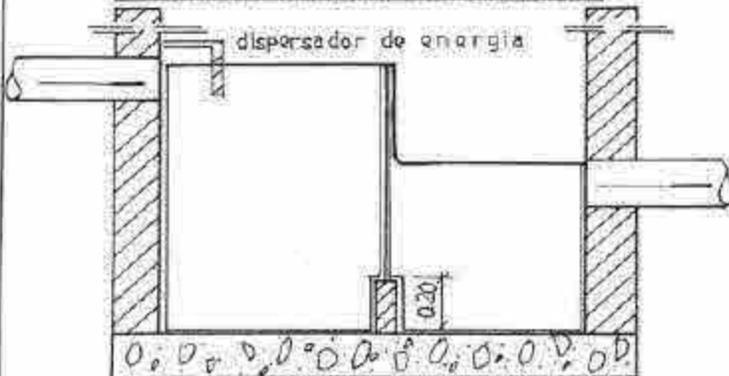


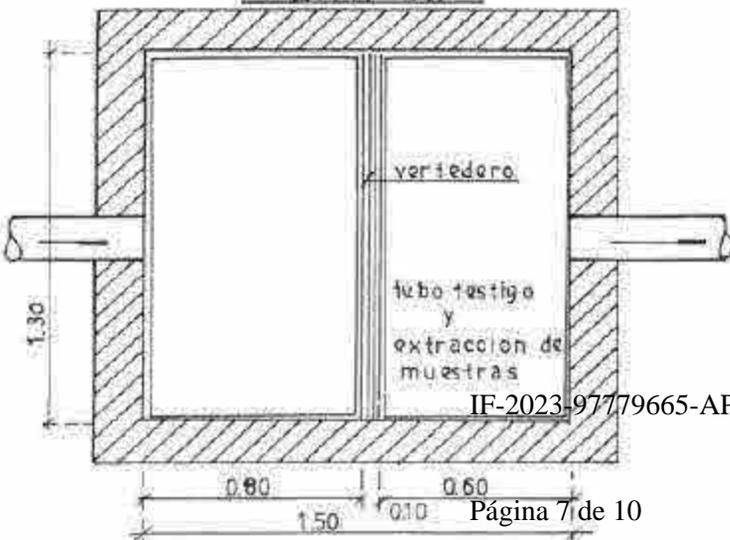
TABLA DE CAUDALES

h (m)	Q (m ³ /h)
0.05	3
0.06	5
0.07	7
0.08	9
0.09	13
0.10	16
0.11	21
0.12	26
0.13	31
0.14	38
0.15	45
0.16	52
0.17	61
0.18	70
0.19	80
0.20	90
0.21	101
0.22	113
0.23	126
0.24	140
0.25	155
0.26	171
0.27	186
0.28	206
0.29	224
0.30	245
0.31	265
0.32	287
0.33	309
0.34	332
0.35	356
0.36	382
0.37	409
0.38	436
0.39	465
0.40	497

CORTE LONGITUDINAL



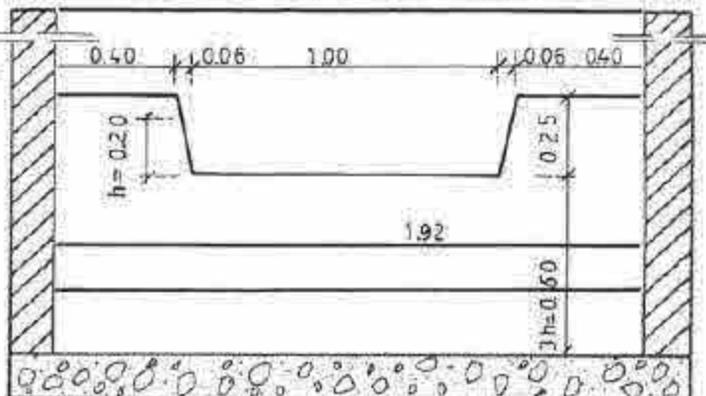
PLANTA



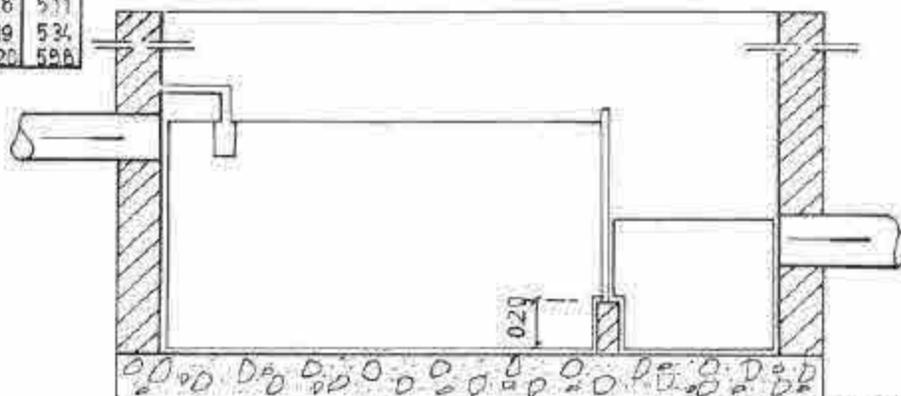
CAMARA DE EXTRACCION DE MUESTRAS Y MEDICION DE CAUDALES Y TESTIFICADORA PARA CAUDALES DE 600 m³/h. PARA PERDIDAS DE CARGA DE 0.20 m.

TABLA DE CAUDALES

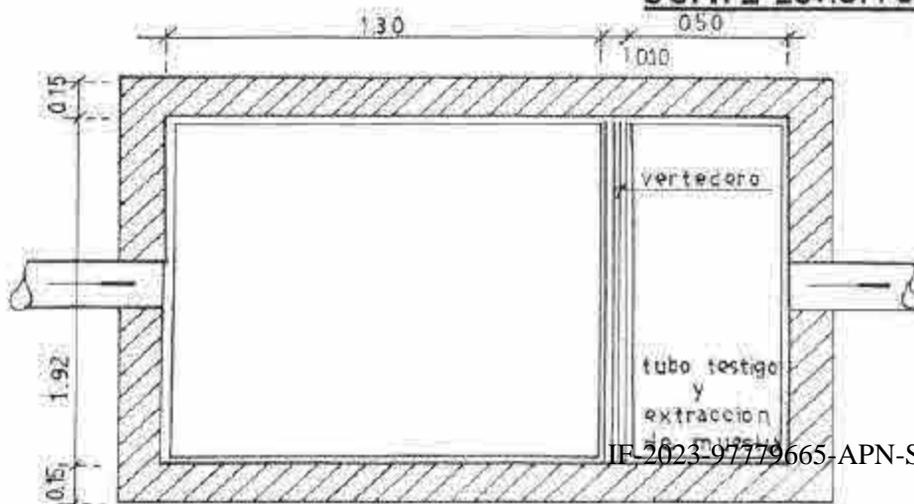
h(m)	Q (m ³ /h)
0.05	82
0.06	101
0.07	130
0.08	155
0.09	180
0.10	212
0.11	246
0.12	281
0.13	313
0.14	339
0.15	389
0.16	425
0.17	468
0.18	511
0.19	534
0.20	596



CORTE TRANSVERSAL



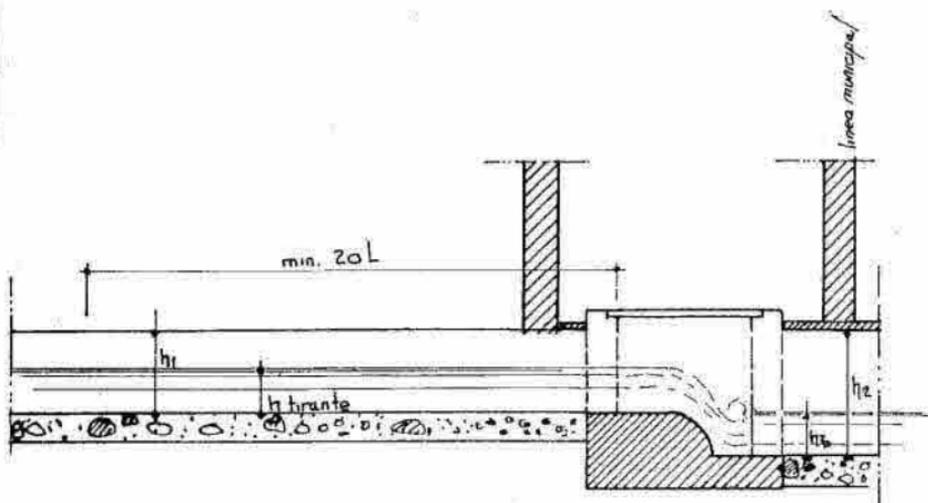
CORTE LONGITUDINAL



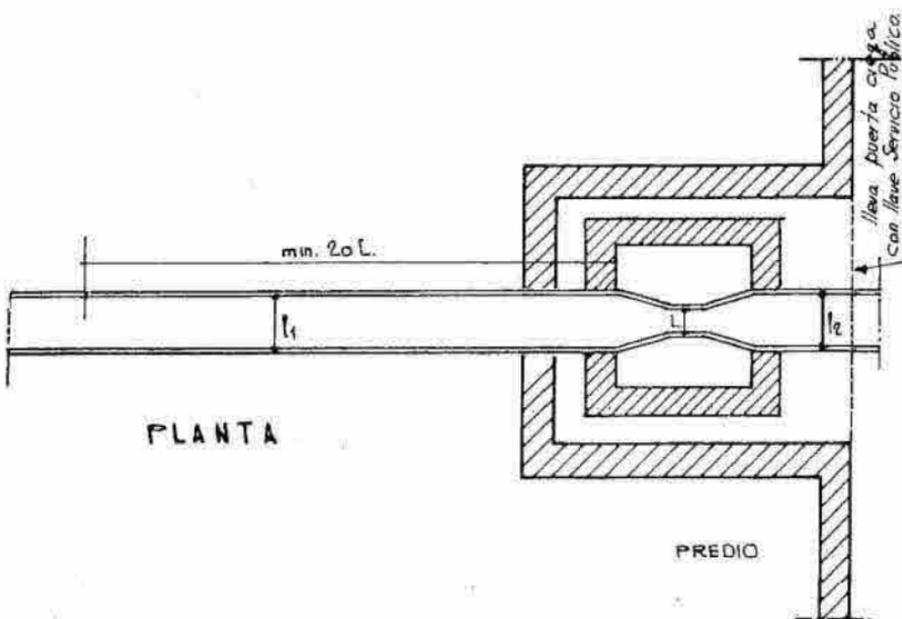
PLANTA

IF-2023-97779665-APN-SSFYR#MAD

CAMARA CON AFORADOR A RESALTO O CANALETA PARSHALL PARA MEDICION DE CAUDALES Y EXTRACCION DE MUESTRAS EN LOS CASOS DE DESAGÜES DE GRAN VOLUMEN.



CORTE



PLANTA

PRECIO

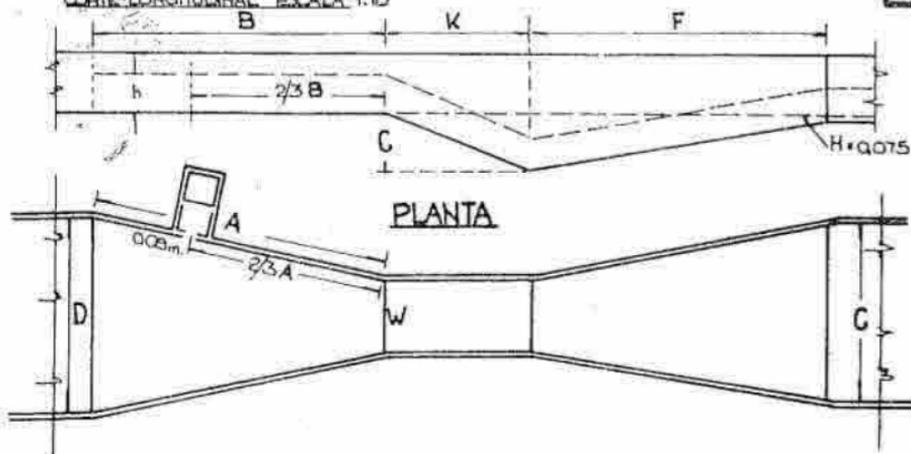
VEREDA

NOTA: La cámara será instalada en el predio privado, en la forma indicada y con libre acceso al personal de inspección.

CANALETAS PARSHALL W=0.152 m

CORTE LONGITUDINAL ESCALA 1:10

75



FORMULA GENERAL REDUCIDA AL SISTEMA METRICO DECIMAL, DADA POR DOMINGUEZ EN SU TRATADO DE HIDRAULICA PAG. 319.

$$Q = 0.372 W (3.28 h)^{1.57} W^{0.028}$$

APLICANDO DICHA FORMULA A LOS DIFERENTES ANCHOS DE CARGANTA OBTENEMOS:

$$Q = \text{CAUDAL en m}^3/\text{seg} ; h = \text{ALTURA en m}$$

PARA VALORES DE Q COMPRENDIDOS ENTRE:

PARA	W = 0.076 m	Q = 0.1772 h ^{1.5495}
*	W = 0.152 m	Q = 0.334 h ^{1.495}
*	W = 0.305 m	Q = 0.662 h ^{1.522}
*	W = 0.610 m	Q = 1.330 h ^{1.560}
*	W = 0.914 m	Q = 2.184 h ^{1.566}
*	W = 1.219 m	Q = 2.958 h ^{1.378}
*	W = 1.524 m	Q = 3.734 h ^{1.267}

$$1 \text{ l/seg} \leq Q \leq 15 \text{ l/seg}$$

$$1.5 \text{ l/seg} \leq Q \leq 70 \text{ l/seg}$$

$$11.60 \text{ l/seg} \leq Q \leq 283.20 \text{ l/seg}$$

$$423.6 \text{ l/seg} \leq Q \leq 708 \text{ l/seg}$$

CARACTERISTICAS				PRACTICAS			
W	B	C	D	E	F	G	H
0.076	0.457	0.178	0.280	0.152	0.305	0.058	0.025
0.152	0.610	0.350	0.394	0.300	0.610	0.115	0.075
0.305	1.343	0.610	0.845	0.610	0.914	0.229	0.075
0.610	1.483	0.914	1.207	0.610	0.914	0.229	0.075
0.914	1.645	1.219	1.572	0.610	0.914	0.229	0.075
1.219	1.794	1.524	1.937	0.610	0.914	0.229	0.075
1.524	1.943	1.829	2.302	0.610	0.914	0.229	0.075

CALCULO DE LAS ALTURAS

PARA $W = 0.076 \text{ m}$ $Q = 0.1772 h^{1.5495}$; $h^{1.5495} = \frac{Q}{0.1772} = 5.64334 Q$; $1.5495 \text{ LOG } h = \text{LOG } Q + \text{LOG } 0.1772$

$\text{LOG } h = \frac{1}{1.5495} (\text{LOG } 5.64334 + \text{LOG } Q)$; $\text{LOG } h = 0.645369 (\text{LOG } 5.64334 + \text{LOG } Q)$

CAUDAL	ALTURA								
m ³ /seg	m								
0.004	0.036	0.003	0.072	0.005	0.100	0.007	0.124	0.009	0.146
0.001	0.006	0.004	0.067	0.006	0.113	0.008	0.136	0.010	0.157

PARA $W = 0.152 \text{ m}$; $Q = 0.334 h^{1.495}$; $\text{LOG } h = 0.67 (\text{LOG } 0 + \text{LOG } Q)$ **IF-2023-97779665-APN-SSFYR#MAD**

CAUDAL	ALTURA								
m ³ /seg	m								
0.005	0.060	0.009	0.089	0.013	0.114	0.017	0.136	0.021	0.157
0.005	0.066	0.010	0.096	0.014	0.120	0.018	0.141	0.022	0.162
0.007	0.075	0.011	0.102	0.015	0.127	0.019	0.146	0.027	0.185
0.008	0.080	0.012	0.106	0.016	0.131	0.020	0.152	0.028	0.190



República Argentina - Poder Ejecutivo Nacional
1983/2023 - 40 AÑOS DE DEMOCRACIA

Hoja Adicional de Firmas
Informe gráfico

Número: IF-2023-97779665-APN-SSFYR#MAD

CIUDAD DE BUENOS AIRES
Martes 22 de Agosto de 2023

Referencia: ANEXO I

El documento fue importado por el sistema GEDO con un total de 10 pagina/s.

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Jorge Etcharran
Subsecretario
Subsecretaría de Fiscalización y Recomposición
Ministerio de Ambiente y Desarrollo Sostenible

Digitally signed by Gestion Documental
Electronica
Date: 2023.08.22 16:22:52 -03:00