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Material removal

Volume Weighing pan : $9.6 \times 2.7 \times 15.2 = 258 \text{ cm}^3$ $\frac{AL}{2.7}$ Weight 800

Usable AB SLED

Volume

$$2.4 \times 1.8 \times 2.7 \text{ (1)} \quad 11.8 \times 4 = 47$$

$$3.2 \times 1.8 \times 2.7 \text{ (2)} \quad 7.8 \times 4 = 31.5$$

$$1.4 \times 2.4 \times 2.7 \text{ (3)} \quad 5 \times 4 = 20$$

$$.9 \times 1 \times 7.5 \text{ (4)} \quad 6.75 \times 2 = 13.5$$

$$\text{USABLE VOLUMEN:} = 369.0$$

1000.00

HEIGHT RELIEVE ONLY:

$$2.5 \times 6.65 \times 2.7 \text{ (5)} \quad 44.5.2 \quad 89$$

$$.65^2 \pi \cdot 1 \text{ (6)} \quad 1.3 \times 1 \quad 1.3$$

$$.25^2 \pi \cdot 4 \text{ (7)} \quad 0.8 \times 2 \quad 1.6$$

$$.4^2 \pi \cdot 4 \text{ (8)} \quad 2 \times 2 \quad 4$$

$$1.15^2 \pi \cdot 1.1 \text{ (9)} \quad 4.6 \times 2 \quad 9.2$$

$$1.75^2 \pi \cdot 1.1 \text{ (10)} \quad 1.9 \times 8 \quad 15.2$$

$$1.5^2 \pi \cdot 0.2 \text{ (11)} \quad 1.4 \times 8 \quad 11.2$$

$$1 \times 4 \times 0.5 \text{ (12)} \quad 2 \times 4 \quad 8$$

$$2.4 \times 4 \times .5 \text{ (13)} \quad 24 \times 4 \quad 96.0$$

$$2 \times .5 \times 16.6 \text{ (14)} \quad 16.6 \times 2 \quad 33.2$$

$$.7 \times .5 \times 16.6 \text{ (15)} \quad 5.8 \times 2 \quad 11.6$$

$$.6 \times .2 \times 16.6 \text{ (16)} \quad 2 \times 2 \quad 4$$

$$.5 \times 1 \times 16.6 \text{ (17)} \quad 4.2 \times 2 \quad 8.2$$

$$.3 \times 2 \times 6 \text{ (18)} \quad 4 \times 2 \quad 8$$

$$.6 \times .4 \times 6 \text{ (19)} \quad .72 \times 2 \quad 1.44$$

$$1.2 \times .2 \times 16.6 \text{ (20)} \quad 4 \times 2 \quad 8$$

$$\text{RELIEVES} \quad N \quad 300.23$$

810.00

$$\quad \quad \quad E \quad 1800.00$$

$$\text{Rough Block } 6 \times 10 \times 16.6 \quad 1000 \quad 2700.00$$

REMAINING WEIGHT %
FLOATING

900

USABLE VOLUMEN Σ 370 cm^3
FLAT PAN $9.5 \times 15 \times 2.7$ 258 cm^3
CAVITIES IN FLOAT 112 "

ORIGINAL Block (Full) 1000 cm^3
RELIEVES TOTAL 370 cm^3
AB-STRUCTURE & PAN 330 cm^3

$$\text{FLOATING WEIGHT EMPTY } 330 \times 2.7 = 890 \text{ gr. ALUM.}$$

$$\text{ } 330 \times 1.7 = 560 \text{ gr. MAGN.}$$

$$1.8 = 595 \text{ gr. BERR.}$$

B.

COAXIAL

AIR BRG

WEIGHT/
VOLUMEN

X
1.6

7

+7.6

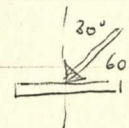
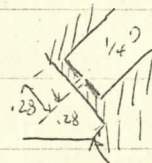
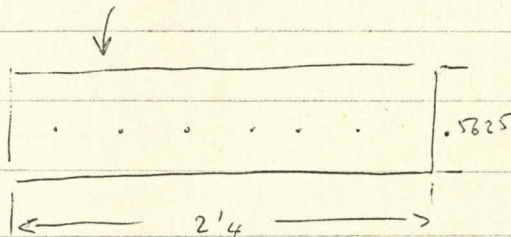
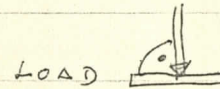
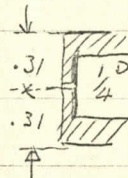
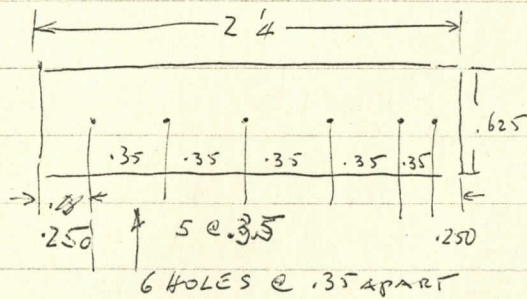
m

20

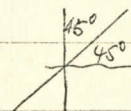
APR. 8. 1966

COAXIAL AIR BEARING

CHARACTERISTICS - Load Capacity & Flow



$$\frac{1}{2} \times 0.5$$



$$1 \times 0.707$$

Total # of nozzles: 48 (4 x 12)

AVER. - NOZZLE TO BLEED DISTANCE .3"

EXPERIENCE FACTOR 1 HOLE = .02 Ltr/min/psi (IF MULTIPLES ARE USED)

Probable Total Air Consumption (FLOW) opt. $48 \times .02 = \sim 1 \text{ Ltr/min/psi} = \frac{1}{30} \text{ scf/min/psi}$

Pressure: $\downarrow$

$$\text{AREA } 4 \times 2.25 \times .625 = 5.5 \text{ in}^2$$

100% EFFICIENCY 1 psi carries 5.5 lbs

30% " " 1 psi " " 1.9 lbs 835 gr.

WEIGHT OF FLOAT COMPLETE INCLDG PAN ENTRY $\approx$ 890 gr AL

PAYLOAD: PAN VOLUMEN: 260 cm³
USABLE CAVITY OF FLOAT: 110 cm³

890 g $\left\{ \begin{array}{l} 560 \text{ gr. MAG.} \\ 600 \text{ gr. BER.} \end{array} \right.$

$$4 = \text{AVERAGE DENSITY OF SAMPLES} \quad \frac{4 \times 370}{23709}$$

Σ weight under g conditions = 2.370 kg

$$\frac{2.370}{835} = 2.85$$

A 30% EFFICIENT BEARING WOULD REQUIRE A 3 psi to
SUPPORT 2.4 kg UNDER 1g AND CONSUME
.100 (~~1~~) sfc or 3 Ltr per MINUTE

HE Rotin
SRL Sa Q'lon'd