



NOTES:

- L LOADING WEIGHTS APPLIED TO KNOCK-OFF TUBES AT POINT 2.00 INCHES FROM NOTCH
- 2_ DYNAMIC LOADING WEIGHTS DROPPED FROM HEIGHT OF 6 INCHES (IMPACT VELOCITY \approx 68 IN./SEC)
- FIG. 20 EFFECTS OF PRESSURE AND NOTCH-WALL THICKNESS ON FAILURE OF 3/8"O.D. (I/8"I.D.) TUBES, WITH O.OIO-INCH CASEHARDENED DEPTH, SUBJECTED TO STATIC AND DYNAMIC LOADS

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notch-wall thickness on the failure of 9/16-inch 0.D. (3/16inch I.D.) tubes, having zero and 0.005-inch casehardened depths and subjected to static and dynamic loads, are illustrated in Figures 21 and 22, respectively.

The last parameter to be evaluated in conjunction with the knock-off tube, rupture-load characteristics was the casehardened depth. The effects of casehardening and notch-wall thickness on the failure of 3/8-inch 0.D. (1/8-inch I.D.) tubes subjected to static and dynamic loads are shown in Figures 23 and 24, respectively.

The curves shown in the aforementioned figures clearly indicate that there is a definite correlation between the various parameters that affect the knock-off tube, ruptureload characteristics. This correlation is further discussed in the section Selection of Knock-Off Tube.