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## CALCULATION OF REQUIRED FLOW

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### CALCULATION OF REQUIRED FLOW FOR MULTIPLE FLUID PASSAGES:

The equivalent diameter of a multiple fluid passage application is equal to the square root of the square of the diameter of the passage times the number of passages.

SIMPLY PUT:  $\sqrt{(\text{DIAM PASSAGE})^2 \times \text{NO. PASSAGES}}$

1.) If a mold has 2 lines (2 ins / 2 outs) that are 3/8" diameter, the equivalent diameter will be:

$$\sqrt{(3/8)^2 (2)} = .53 \text{ in.}$$

2.) If a mold has 4 lines (4 ins / 4 outs) that are 3/8" diameter, the equivalent diameter will be:

$$\sqrt{(3/8)^2 (4)} = .75 \text{ in.}$$

3.) If a mold has 4 lines (4 ins / 4 outs) that are 1/2" diameter, the equivalent diameter will be:

$$\sqrt{(1/2)^2 (4)} = 1.0 \text{ in.}$$

In all cases, the mold temperature controller chosen should be closely suited to the capacity of the mold.