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ROUTING SHEET

CUSTOMER'S NAME: Midwest Valve Co. PART NAME: Valve body
 QUANTITY: 15 PART NO.: 302

Operation No.	Description of operation	Equipment
10	Inspect forging, check hardness	Rockwell tester
20	Rough machine flanges	Lathe No. 5
30	Finish machine flanges	Lathe No. 5
40	Bore and counterbore hole	Boring mill No. 1
50	Turn internal grooves	Boring mill No. 1
60	Drill and tap holes	Drill press No. 2
70	Grind flange end faces	Grinder No. 2
80	Grind bore	Internal grinder No. 1
90	Clean	Vapor degreaser
100	Inspect	Ultrasonic tester

FIGURE 38.9 An example of a simple, traditional routing sheet. *Operation sheets* may include additional information on materials, tooling, the estimated time for each operation, processing parameters (such as cutting speeds and feeds), and other information; the routing sheet travels with the part from operation to operation. Routing sheets have been largely replaced with computer databases; this routing sheet illustrates the representative minimum content for a simple part.

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From Kalpakjian and Schmid *Manufacturing Engineering and Technology* page 1111

The routing chart is a graphical, flow-chart style representation of the routing list

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Routing Chart

- Graphical representation of the entire manufacturing process
- Links to the work method sheet (for more detail via the operation #)

