

**16** DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES

**General** - The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in **2**. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies that are not listed, describe and report them in the "Cost of all other materials . . ." at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials . . ." Census material code 009700 99 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

**Valuation of Materials Consumed** - The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amount actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

**Contract Work** - Include all materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in **15**, line A5, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

**Resales** - Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in **15**, line A2, not in **16**. The value of these products shipped by this establishment should be reported in **2** under Census product code 000999 8900 6, "Resales."

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Line No.	Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in)		
			\$ Bil.	Mil.	Thou.
0634		0630	0631		
	Fabricated metal products (excluding castings and forgings)				
<b>1</b>	Bolts, nuts, screws, washers, rivets, and other screw machine products . . . . .	332722 03 2			
<b>2</b>	Metal stampings . . . . .	332000 AC 2			
<b>3</b>	Valves, fittings, and couplings purchased for further assembly . . . . .	332900 03 4			
<b>4</b>	Other fabricated metal products . . . . .	332000 29 8			
	Castings (rough and semifinished)				
<b>5</b>	Aluminum and aluminum-base alloy . . . . .	331520 05 6			
<b>6</b>	Copper and copper-base alloy . . . . .	331525 00 6			
<b>7</b>	Other nonferrous castings . . . . .	331520 09 8			
<b>8</b>	Steel . . . . .	331510 09 9			
<b>9</b>	Iron . . . . .	331511 01 4			
	Forgings				
<b>10</b>	Iron and steel forgings . . . . .	332111 01 2			
<b>11</b>	Nonferrous . . . . .	332112 01 0			

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If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

**16** DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued

Line No.	Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in)		
			\$ Bil.	Mil.	Thou.
0634		0630	0631		
<b>12</b>	Shapes and forms (excluding castings, forgings, and fabricated metal products) Steel Bars, bar shapes, and plate . . . . .	331200 07 1			
<b>13</b>	Sheet and strip . . . . .	331200 17 0			
<b>14</b>	All other steel shapes and forms . . . . .	331200 33 7			
<b>15</b>	Copper and copper-base alloy Rods, bars, and mechanical wire (including extruded and/or drawn shapes) . . . . .	331421 05 7			
<b>16</b>	Pipe and tube . . . . .	331421 35 4			
<b>17</b>	All other copper and copper-base alloy shapes and forms . . . . .	331421 45 3			
<b>18</b>	Other nonferrous . . . . .	331000 83 6			
<b>19</b>	Paperboard containers, boxes, and corrugated paperboard . . . . .	322210 01 4			
<b>20</b>	Electric motors and generators less than 1 horsepower (less than 746 watts)	335312 27 8			
<b>21</b>	Scrap; including iron, steel, and aluminum and aluminum-base alloy (excluding home scrap) . . . . .	001900 60 4			
<b>22</b>	Gaskets and packing and sealing devices (all types) . . . . .	339991 03 6			
<b>23</b>	Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.) ↴	009700 99 8			
<b>24</b>	<b>TOTAL</b> (Should equal total reported in <b>16</b> , line A1) . . . . .	771000 00 7			

**17-21** Not Applicable.

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**22** DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE

**General** - The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of 2. PLEASE DO NOT COMBINE PRODUCT LINES.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

**Valuation of Products** - Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

**Contract Work** - Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census code 000930 0000 8.

**Resales** - Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census code 000999 8900 6, "Resales."

**Detailed Data Reported Elsewhere** - Items denoted by an asterisk (\*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR form, the sum of the detailed products should equal the total reported on this form.

**NOTE:** Only totals are requested; do not duplicate detail reported on the CIR.

**Special Instructions for Nuclear and Industrial Valves** - Actuators and parts when shipped with a valve should not be included in the value of the valve but should be reported separately on the appropriate actuators and parts lines.

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
	0734	0730	0731		
	Plumbing and heating valves and specialties (except plumbers' brass goods)				
1	Safety and relief valves . . . . .	332919 1101 5			
2	Check valves . . . . .	332919 1203 9			
3	All other plumbing and heating valves (including gates, globes, angles, 3- and 4-way drain, brass and bronze) (less than 125 lb, wsp) . . . . .	332919 1205 4			
4	Plumbing and heating valve specialties . . . . .	332919 1207 0			
5	Parts . . . . .	332919 1209 6			
	Metal fittings, flanges, and unions for piping systems				
	Gray iron				
6	Fittings, flanges, and unions . . . . .	332919 3101 3			
7	Grooved fittings and couplings . . . . .	332919 3103 9			
	Malleable iron				
8	Unions and union fittings . . . . .	332919 3109 6			
9	Fittings, grooved fittings, flanges, and couplings (including reducers, caps, etc.) . . . . .	332919 3108 8			
	Ductile iron				
10	Fittings, flanges, and unions . . . . .	332919 3111 2			
11	Grooved fittings and couplings . . . . .	332919 3113 8			

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**22** DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
	Metal fittings, flanges, and unions for piping systems - Continued				
	Copper, brass, or bronze (including solder and threaded types)				
<b>12</b>	Cast brass or bronze fittings, flanges, and unions . . . . .	332919 3215 1			
<b>13</b>	Wrought copper and wrought copper alloy fittings, flanges, and unions . . . . .	332919 3217 7			
<b>14</b>	Cast carbon and alloy steel fittings, flanges, and unions . . . . .	332919 3319 1			
	Forged carbon, alloy, and stainless steel				
<b>15</b>	Fittings, flanges, and unions; socket-weld or threaded-type . . . . .	332919 3321 7			
	Flanges, butt-welding type				
<b>16</b>	Carbon steel . . . . .	332919 3323 3			
<b>17</b>	Alloy steel . . . . .	332919 3325 8			
<b>18</b>	Stainless steel . . . . .	332919 3327 4			
	Fittings, butt-welding type				
<b>19</b>	Carbon steel . . . . .	332919 3329 0			
<b>20</b>	Alloy steel . . . . .	332919 3331 6			
<b>21</b>	Stainless steel . . . . .	332919 3333 2			
<b>22</b>	Metal pipe hangers and supports (not including metal framing) . . . . .	332999 H189 5			
	Metal fittings, flanges, and unions for piping systems				
<b>23</b>	Pipe couplings . . . . .	332919 3335 7			
<b>24</b>	All other metal fittings, flanges, and unions (including aluminum for piping systems; including metal framing and fittings for mechanical and electrical supports) . . . . .	332919 3337 3			
<b>25</b>	Hose fittings and couplings, excluding fittings and couplings used in fluid power systems (including lawn hose nozzles) . . . . .	332919 3338 1			
<b>26</b>	Fabricated iron and steel pipe and pipe fittings made from purchased pipe . . . . .	332996 3101 1			
<b>27</b>	Industrial pumps (except hydraulic fluid power pumps, automotive circulating pumps and measuring and dispensing pumps) (Corresponds to value of shipments reported on CIR Form MA333P, Pumps and Compressors, for 2002)* . . . . .	333911 1440 3			
<b>28</b>	Tapping sleeves and crosses for industrial valves for water works and municipal equipment (IBBM, AWWA, and UL) . . . . .	332911 3107 7			
<b>29</b>	Butterfly valves, all metals, pressures, and types (including manual and power operated, on/off valves but excluding automatic control valves and regulators and all IBBM, AWWA, and UL valves) . . . . .	332911 7101 6			

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**22** DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
<b>30</b>	Solenoid-operated valves and parts (except nuclear and fluid power transfer) (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002, item codes 4073 - 4079.)* . . . . .	332911 H100 7			
<b>31</b>	Automatic valves (regulating and control type) and parts (except nuclear) (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002)* . . . . .	332911 F100 9			
<b>32</b>	Fluid power, hose fittings and assemblies Aerospace type hydraulic and pneumatic hose or tube end fittings and assemblies (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products, for 2002)* . . . . .	332912 F100 7			
<b>33</b>	Nonaerospace type hydraulic and pneumatic fittings and couplings for hose (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products, for 2002)* . . . . .	332912 L100 1			
<b>34</b>	Gray iron castings . . . . .	331511 9116 1			
<b>35</b>	Industrial valve cocks and stops (all metals, pressures, and types) . . . . .	332911 B101 1			
<b>36</b>	All other products made in this establishment - <i>Specify and report each product with sales value of \$50,000 or more that cannot be assigned to one of the "listed products and services". For all remaining products, write "Other" and report a single total value.</i>	18			
<b>37</b>		26			
<b>38</b>		34			
<b>39</b>		42			
<b>40</b>		59			
<b>41</b>		67			
<b>42</b>	Contract work - Receipts for work done for others on their materials ( <i>Specify products worked on and kind of work.</i> ) ↴	000930 0000 8			
<b>43</b>	Miscellaneous receipts Sales of scrap and refuse . . . . .	000999 8013 8			
<b>44</b>	Receipts for repair work . . . . .	000999 8061 7			
<b>45</b>	Other miscellaneous receipts . . . . .	000999 8098 9			
<b>46</b>	Resales - Sales of products bought and sold without further manufacture, processing, or assembly (The cost of such items should be reported in 15, line A2.) . . . . .	000999 8900 6			
<b>47</b>	<b>TOTAL</b> (Should equal 4, line A) . . . . .	770000 0000 8			
<b>23-27</b>	Not Applicable.				

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**28** ESTABLISHMENT ACTIVITIES

**A.** Indicate activities that were performed by this establishment or were performed for this establishment by another company during 2002.  
(Mark "X" ALL that apply.)

This activity was performed -			
By this establishment	By another establishment of this company	By another company	Not at all
0921 <input type="checkbox"/>	8071 <input type="checkbox"/>	0941 <input type="checkbox"/>	0961 <input type="checkbox"/>
<b>1. Product design/engineering . . . . .</b>			
<b>2. Order fulfillment</b>			
0923 <input type="checkbox"/>	8072 <input type="checkbox"/>	0943 <input type="checkbox"/>	0963 <input type="checkbox"/>
<b>a. Bundling or kitting (combining multiple items into a prepackaged product) . . . . .</b>			
0924 <input type="checkbox"/>	8073 <input type="checkbox"/>	0944 <input type="checkbox"/>	0964 <input type="checkbox"/>
<b>b. Pick and pack (taking goods from inventory and packaging them to fill orders). . . . .</b>			
0925 <input type="checkbox"/>	8074 <input type="checkbox"/>	0945 <input type="checkbox"/>	0965 <input type="checkbox"/>
<b>c. Warehousing of finished products . . . . .</b>			
0926 <input type="checkbox"/>	8075 <input type="checkbox"/>	0946 <input type="checkbox"/>	0966 <input type="checkbox"/>
<b>d. Breaking bulk (reducing large shipments into smaller portions for customers) . . . . .</b>			
0927 <input type="checkbox"/>	8076 <input type="checkbox"/>	0947 <input type="checkbox"/>	0967 <input type="checkbox"/>
<b>e. Local delivery (within a city, town, or other local area, including adjoining towns and suburban areas) . . . . .</b>			
0928 <input type="checkbox"/>	8077 <input type="checkbox"/>	0948 <input type="checkbox"/>	0968 <input type="checkbox"/>
<b>f. Long distance delivery (beyond local areas and commercial zones) . . . . .</b>			
0932 <input type="checkbox"/>	8078 <input type="checkbox"/>	0952 <input type="checkbox"/>	0972 <input type="checkbox"/>
<b>g. Processing of returned merchandise . . . . .</b>			

**B.** During 2002 did this establishment:

- 1. Manage inventory owned by this establishment AND held at this location? . . . . . 0936  Yes 0937  No
- 2. Manage inventory owned by this establishment BUT held at a customer's location?. . . . . 0956  Yes 0957  No
- 3. Manage inventory owned by another company BUT held at this location? . . . . . 0976  Yes 0977  No
- 4. Manage inventory owned by another company AND held somewhere other than at this location?. . . . . 0994  Yes 0995  No
- 5. Contract with another firm for any of your production using materials owned by this location? . . . . . 8041  Yes 8042  No
- 6. Send any partially completed products to a foreign facility for processing that were then returned to this establishment for completion? . . . . . 8044  Yes 8045  No
- 7. Manufacture products for a government to their specifications? . . . . . 8047  Yes 8048  No
- 8. Manufacture products for another business to their specifications? . . . . . 8016  Yes 8017  No
- 9. Manufacture products for a final retail customer to their specifications? . . . . . 8060  Yes 8062  No



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**29 OPERATIONAL STATUS**

Activity that best describes this establishment's status at the end of 2002  
(Mark "X" only ONE box.)

0011 <input type="checkbox"/> In operation	0013 <input type="checkbox"/> Temporarily or seasonally inactive							
0012 <input type="checkbox"/> Under construction, development, or exploration	0014 <input type="checkbox"/> Ceased operation - Give date at right →	0018 <table border="1"> <tr> <th>Month</th> <th>Day</th> <th>Year</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	Month	Day	Year			
Month	Day	Year						
	0015 <input type="checkbox"/> Sold or leased to another operator - Give date at right AND enter new name and mailing address below ↴	→						

0060 Name of new owner or operator	0061 Employer Identification Number		
	Enter EIN of new owner (9 digits) →		-
0062 Mailing address (number and street, P.O. Box, etc.)			
0063 City, town, village, etc.	0064 State	0065 ZIP Code	
			-

Remarks (Please use this space for any explanations that may be essential in understanding your reported data.)

**30 CERTIFICATION** - This report is substantially accurate and was prepared in accordance with the instructions.

Is the time period covered by this report a calendar year?								
0078 <input type="checkbox"/> Yes	0079 <input type="checkbox"/> No - Enter time period covered →	FROM 0070	Month	Year	TO 0071	Month	Year	
0072 Name of person to contact regarding this report				0073 Title				
Telephone 0074		Area code	Number		Extension	Fax 0075		
			-			-		
0076 Internet e-mail address					Date completed 0069	Month	Day	Year

**Thank you for completing your 2002 Economic Census form.**  
**PLEASE PHOTOCOPY THIS FORM FOR YOUR RECORDS AND RETURN THE ORIGINAL.**

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