lf not shown, please enter your 11-digit Census File Number from the address label on page 1

Census File Number

Item 16. CONSUMPTION OF SELECTED MATERIALS DURING 2002

INSTRUCTIONS

1. General – The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 22. 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 which are not listed, describe and report them in the "Cost of all other materials . . . " line 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 . . . ,"

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

2. 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 amounts 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.

- 3. Contract Work Include as 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 item 15, line 5, 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.
- 4. 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 item 15, line 2, not in item 16 below. The value of these products shipped by this establishment should be reported in item 22 under "Resales."
- **5. Produced and Consumed** Forgings, foundries, and screw machine products Report the quantities produced and used in manufacturing other products made in this establishment in item 26. Note that the materials used to produce these items should be reported in item 16.

		Ma	Census material code	Consumption of purchased materials and of materials received from other establishments of you company Cost, including deliver cost (freight-in) (E) 574 Millions Thou- Millions sands Dolla		
	Fluid power pum	ps purchased for i		\$		
	FABRICATED METAL PRODUCTS	Bolts, nuts, scre	ws, washers, rivets, and screw machine products			
;	(Except forgings)	Pipe, valves, and	d pipe fittings			
	4	Other fabricated				
	5 Forgings			ען יון	1	
	CASTINGS (Rough and semifinished)	Iron and steel				
	7	Aluminum and a	luminum-base alloy			
	В	Other nonferrous	5			
!	Shapes and Forms (Except	STEEL	Bars, bar shapes, and plates			
1	Castings, Forgings,		Sheet and strip			
1	⊣ IVIetai		Tubing			
1	Products)		All other steel shapes and forms			
1	3	ALUMINUM AND ALUMINUM-	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)			
1	4	BASE ALLOY	All other aluminum and aluminum-base alloy			
1	5	Other nonferrous	s shapes and forms			
1	Metal powders					

lt	Item 16. CONSUMPTION OF SELECTED MATERIALS DURING 2002 – Continued											
		Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company								
lo.				Cost, including delivery cost (freight-in)								
Line No			571	(E) 574 Thou-								
_		(A)	(B)	Millions		Dollars						
17	Lubricating and c	cutting oils		\$	 							
18	Paints, lacquers,	varnishes, stains, enamels, japans, shellacs, and allied products			 							
19	Electric motors a	nd generators			 							
20	BEARINGS (Mounted or unmounted)	Ball			 							
21	difficultied)	Roller POIR CON		ייע	i I							
22	Plain bearings ar				ı 							
23	Speed changers,	gears, and industrial high-speed drives			 							
24	Gaskets (all type	s) and packing and sealing devices			 							
25	Cutting tools for I	machine tools			 							
26	containers, and	materials and components, parts, supplies consumed			 							
	Describe the pri	incipal materials, etc., included in this value.			 	1						
					 	l I						
					 	l I						
27	TOTAL Sum of lir	nes 1–26 should equal item 15, line 1		\$	 							

Item 18- Not applicable to this report

Item 22. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 2002

INSTRUCTIONS

 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 item 22. 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.

2. 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.

The value of pumps and motors shipped as hydrostatic transmissions should be reported separately in the pump and motor categories shown on lines 5 through 9 in item 18B.

- 3. 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"
- 4. 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 "Resales."
- 5. 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 forms, the sum of the detailed CIR products should equal the total reported on this census form. The Current Industrial Reports related to this report are as follows:
 - a. MA333N, Fluid Power Products (Including Aerospace)
 - b. MA333P, Pumps (Except Hydraulic) and Compressors

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

If not shown, please enter your 11-digit Census File Number from the address label on page 1 $\,$

Census File Number

Item 22. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 2002 - Continued

17	Item 22. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 2002 – Continued										
	Products and services *Item corresponds to products reported on Current Industrial Reports			Census product code	Corresponds to the sum of products reported for			Products shipped and other receipts Value, f.o.b. plant			
Š.					2002 on –		02 011 -	(E)			
Line No.	· ·		581	CI for	IR rm	Item code	584	Thou-	<u> </u>		
			A)		(B-1)	(B-	(B-2)	(B-3)	Millions	sands	Dollars
1	Fluid Power Cylinders	NON- AEROSPACE	Hydraulic types and rotary *	, linear		1		4501–4519	 	! 	
2	and Actuators		Pneumatic type and rotary *	s, linear				4601–4619		<u> </u> 	
3	Aerospace-type and pneumatic		, hydraulic *					4851–4877		1	
4		Parts for fluid power cylinders and actuators, hydraulic and pneumatic, including accumulators, cushions, nonvehicular shock absorbers, and related items *						4841–4847		 	
5	Fluid Power Pumps, Motors, and Hydrostatic	NON- AEROSPACE	Pumps	Reciprocating types		MA3	 A333N 	5504–5517		 	
6	Transmission Components			Rotary and other types, n.e.c.				5534–5538		 	
7	instructions)		Motors *	FOR_	COMM	BN		5545–5571		1	
8		Aerospace pum	ips and motors *				5581–5589		I <u>I</u> [
9		Parts for pumps	and motors *			\		5591–5597		 	
10	Industrial pumps, except fluid power* Other pumps, not elsewhere classified* – Specify kind				MA 3 3	333P	1098–1298		 		
11	Other pumps, no	tner pumps, not elsewnere classified" – <i>Specify kind</i>						1800		 	
	Fluid Power Valves and	AEROSPACE	Valves	Hydraulic*		1		1281–1289		 	
13	Hose Fittings	Hydraulic hose or tu and asser NON-AEROSPACE Flared (mand couple assemblic (including which couple and hose power transystems* Flareless couplings nonmetal in fluid posystems* Hydraulic		Pneumatic*				1291		 	
			Hydraulic and p hose or tube en	neumatic d fittings						 	
14			and assemblies Valves	*				2271–2277		 	
15				Hydraulic: • directional control*				1201–1219		 	
16				• other*				1221–1249		 	
17				Pneumatic: • directional control*				1251–1269		 	
18				• other*				1271–1279		 	
19			Flared (metal) and couplings assemblies of, (including asse which combine and hose) used power transfer systems*	for, and tubing emblies e tubing d in fluid		MA33	MA333N	2201–2209		 	
20	D		Flareless fitting couplings (inclu nonmetal fitting in fluid power t systems*	uding as) used				2211–2221		 	
21			Hydraulic and pneumatic fittings and couplings for hose*					2241–2251		 	
22			Hydraulic and passemblies of h	oneumatic nose*				2261–2263		 	
23		Parts for fluid	power valves*					1293–1295		 	
				ITIBILIE 18/1711 I							

CONTINUE WITH ITEM 22 ON PAGE 8

It	Item 22. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 2002 – Continued											
	Products and services *Item corresponds to products reported on Current Industrial Reports (A)			Census product code		nds to the sum	Products shipped and other receipts					
9.						02 on –	Value, f.o.b. plant (E)					
Line No.					CIR form (B-2)	Item code (B-3)	584 Millions	Thou- sands	l Dollars			
24	Filters for Fluid Power Systems	NONAEROSPACE	Hydraulic*		1	3301–3309	\$	T 				
25	_		Pneumatic*		MA333N	3311–3323		 				
26		Aerospace-type filters for fluid power systems (hydraulic and pneumatic)*			1	3325, 3327		 	 			
27	Receipts for mad	chine shop job work a	nd job order repairs					 				
	Miscellaneous m	achinery products – 3	Specify kind									
28				F	DR C	OMMI						
	ALL OTHER PRODUCTS MADE IN THIS ESTABLISH-MENT Describe and report separately ear product with a sales value of \$50,000 more which cannot be assigned to the lines above. For all remaining write "Other" and report a single to value.		es value of \$50,000 or t be assigned to one of r all remaining products,					 	 			
29				18				 				
30				26				 	l			
31				34				 	 			
32				42				 				
33				59								
	CONTRACT WORK	own materials	lone for others on their					 	 			
	KING OF WORK.] 			
								 	l I			
35	MISCELLA- NEOUS	Receipts for repair	work									
36	RECEIPTS	Other miscellaneou of scrap and refuse and development, construction of pro establishment)	us receipts (including sale e, receipts for research and installation or ducts of this					 	 			
37	RESALES	or assembly in this	oought and sold nufacture, processing, establishment. The should be reported in					 	 			
38	TOTAL va Sum of lin	alue of shipments les 1–37, column (E)	and other receipts				\$	 	 			

CONTINUE WITH ITEM 26 ON PAGE 9

If not shown, please enter your 11-digit Census File Number from the address label on page 1 $\,$

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Item 26. SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT

INSTRUCTIONS

- Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment.
- 2. Purchases or receipts of the items specified below should be reported only in item 16.
- **3.** Materials used to produce the items specified below should be reported in item 16.
- **4.** Quantities produced for sale as such and not for incorporation in other products should be reported in item 22.
- **5.** Report quantities in the unit of measure specified in column (D).

Line No.		Census code	performe establis during		Unit of measure for quantities	Quantities produced in this establishment and used in manufacturing other products made in this establishment	
	(A)		591 (B)	Yes	No	(D)	593 (E)
1	Ferrous foundrie	1001 7	1	2	Short tons		
2	NONFERROUS FOUNDRIES	Aluminum	1002 5	1	2	1	
3	_	Copper	1003 3	1	2		
4		Zinc	1004 1	1	2	Thousand pounds	
5		Other	1005 8	1	2		
6	Nonferrous die-casting foundries		1006 6	1	2		
7	Precision turned products (on screw machines, turning centers, and CNC equipment)			1 🗆	2		

Items 20 and 21 – Not applicable to this report

REMARKS – Please use this space for any explanations that may be essential in understanding your reported data.

