2007

MA333N — FLUID POWER PRODUCTS FOR MOTION CONTROL (INCLUDING AEROSPACE) (SHIPMENTS)

DEFINITIONS AND SPECIAL INSTRUCTIONS

1. Scope of survey

This survey covers fluid power products manufactured in the United States. Fluid power productions use compressed fluid (liquid or gas) as a medium for transferring power and controlling motion. The focus of this report is fluid power products for motion control applications (some additional categories for non-motion control products are included to help ensure data integrity by keeping any of these products that may be reported separate).

The following products should be **excluded** from reporting:

- plumbing and heating valves and specialities (3329191100);
- metal fittings, flanges and unions for piping systems (3329193100)
- automatic regulating and control valves (332911F100);
- solenoid-operated valves not used in a fluid power motion control system (332911H100);
- nuclear valves (332911D100);
- other industrial valves (3329111100-332911B100);
- non-fluid power industrial pumps and pumping equipment;
- pumps for farm and home use (3339111100-3339115100);
- constant speed drivers (3336123100 and 3336127100).

2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey are requested to complete a separate report form for each location. If you have not received a separate form for each of your establishments, please call the contact listed on the report form or write to the U.S. Census Bureau for additional forms.

a. Resales

Products bought and resold without further manufacture should not be included in shipments (this is regardless of whether or not they were imported). Further manufacture includes assembly of parts into finished fluid power products (pumps, valves, cylinders, etc).

b. Quantity and value of shipments

The figures on quantity and value of shipments should include physical shipment of products sold or shipped, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, net of discounts, allowances, freight charges and returns.

Do not combine product lines.

In addition, these figures should include:

- Physical shipments of products manufactured and shipped from the reporting location to customers and distributors.
- Physical shipments of products manufactured and shipped for private labeling by another company.

The figures on quantity and value of shipments should **NOT** include:

 Physical shipments of products received from another division of your company and resold without further manufacture should not be included in shipments (this is regardless of whether or not they were imported). Further manufacture includes assembly of parts into finished fluid power products (pumps, valves, cylinders, etc).

Note: The quantity and value of hydrostatic transmissions and power units should be reported into their respective categories. The quantity and value for the pumps, motors, valves, and prime mover used in the hydrostatic transmissions and power units should also be reported into their respective categories for these products if manufactured in the U.S. by your company. The quantity and value of hydrostatic transmissions and power units will not be added into overall report totals.

c. Columnar structure of report

When entering your figures on the original report, please be sure to report the information in the correct columns.

Column 1 — Total Quantity
Column 2 — Total Shipments Value

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DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

2. Figures to be reported - c. Columnar structure of report - Continued

Section I — Report all fluid power valves for motion control, including parts.

Section II — Report all fluid power fittings and assemblies for motion control.

Section III — Report all fluid power filters for motion control, including parts.

Section IV — Report all fluid power cylinders, rotary actuators, accumulators, cushions, and non-vehicular shock absorbers, including parts.

Section V — Report all fluid power pumps and motors for motion control, including parts.

3. Definitions

Accumulators (hydraulic only) — Devices that store hydraulic fluid under pressure as a source of fluid power

Actuators — Devices that convert fluid power into linear or rotary mechanical force. Linear types are typically referred to as cylinders. Rotary types are referred to as rotary actuators and motors. Motors have shafts that rotate continuously in the same direction. Rotary actuator shafts do not rotate continuously. Typically, the shafts rotate a certain number of degrees before rotating in the opposite direction to their point of origin.

Air dryer — A device for reducing the moisture vapor content of the compressed air in a pneumatic system

Bulk hose— A hose and/or tubing to which fittings have not been attached.

Assembly — A length of hose and/or tubing that fittings have been attached to.

Cushion — A device that provides controlled resistance to non-linear motion.

Cylinder, electrohydraulic — A hydraulic, linear actuator that produces a continuously variable mechanical output, as a function of a continuously variable electronic input signal (voltage or current).

Cylinder, mill type — A linear actuator that has circular flanges welded to the cylinder barrel ends. This type of

cylinder is used in severe duty applications like the steel mills from which it derived its name.

Cylinder, rodless (shuttle) — A linear actuator with a rod that never leaves its case, that is sealed lengthwise. Typically used in position control applications.

Cylinder, telescoping — A linear actuator with nested tubular rod segments that provide a long working stroke in a short retracted envelope.

Cylinder, **threaded/weld fused combination** — A linear actuator with one threaded end and one weld fused end.

Cylinder, tie rod — A linear actuator with head and cap end closures that are secured by tie rods.

Filter (filter assembly) — A device whose primary function is the retention of insoluble contaminants in a fluid by a porous media.

Filter element — That part of a filter that retains contaminants. Some elements are permanent (reusable or cleanable) and others are disposable (nonreusable). Disposable elements must eventually be replaced.

Fittings — Devices used to connect hoses and tubing to components (valves, cylinders, motors, pumps) of a fluid power system. They are constructed from metal or plastic, and are sometimes referred to as connectors or couplings.

Gerotor/Gerolor — A special type of internal gear motor where the internal gear is always in sliding contact with the external gear.

Hydrostatic transmission —A device that combines a hydraulic pump with an hydraulic motor. The quantity and value of hydrostatic transmissions should be reported to the hydrostatic transmission line. The quantity and value of pumps and motors sold together as hydrostatic transmissions should also be reported separately in the relevant pump and motor categories, if manufactured in the U.S. by your company.

Intensifier — Devices driven by a low pressure fluid to produce fluid at a higher pressure.

Lubricator — A device that adds controlled or metered amounts of lubricant into a pneumatic system.

Manifold (manifold assembly) — A fluid conductor that can provide multiple connection ports. In a fluid power

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DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

3. Definitions — Continued

system, manifolds are typically used as housings for cartridge valves.

Motor — A device that transforms fluid power into rotary mechanical force. Motors can be hydraulic or pneumatic.

Motor, **axial piston** — A motor with several parallel pistons arranged around a common axis.

Motor, external gear — A motor that has only external gears and no internal gear.

Motor, internal gear — A motor with an internal gear that meshes with one or more external gears. See also gerotor/gerolor.

Motor, radial piston — A motor with several pistons arranged to operate radially.

Motor, **vane** — A motor with multiple vanes that cause rotation of internal member when under pressure.

Power unit —A device that combines a hydraulic pump with a prime mover (usually an electric motor), and hydraulic valves. As is done for hydrostatic transmissions, the quantity and value of power units should be reported to the power unit line. The quantity and value of pumps, prime movers and valves should also be reported to those respective categories, if manufactured in the U.S. by your company.

Pump, **axial piston** — A reciprocating pump with several parallel pistons arranged around a common axis.

Pump, external gear — A rotary pump that has only external gears, and no internal gear.

Pump, internal gear — A rotary pump that has an internal gear in engagement with one or more external gears. An internal gear pump generally has external gears that rotate on a fixed axis. A gerotor pump differs from other internal gear types in that its internal gear is always in sliding contact with the external gear.

Pump, radial piston — A reciprocating pump with several pistons arranged radially within the pump chamber.

Pump, reciprocating — A pump that uses pistons to create a partial vacuum to draw hydraulic fluid through the pump inlet. The return strokes of the pistons unseat outlet check valves and force the fluid through the pump outlet.

Pump, **rotary** — A pump that uses gears or vanes to cause rotary motion that moves hydraulic fluid from the pump inlet to the pump outlet.

Pump, vane — A rotary pump with multiple vanes within a supporting rotor.

Reservoir, hydraulic — A container for storage of hydraulic fluid under pressure.

Sealing devices— A dynamic or static device for preventing fluid leakage (air or liquid) to the external environment or within sections of a component.

Valves, cartridge — Valves with working parts contained in a cylindrical body. The body must be inserted into a housing (usually a manifold) for use. Ports through the body of the valve align with ports in the housing.

Valves, electrohydraulic — Valves that use continuously variable electronic input (voltage or current) to produce a continuously variable hydraulic output.

Valves, manually operated — Valves actuated by means of a hand lever, or other manual energizing device.

Valves, mechanical — Valves that are actuated by cams, levers, rollers, screws, springs, stems or other mechanical energizing devices. Should not include hydraulically or pneumatically actuated valves for non-fluid power applications.

Valves, relief — Direct acting or pilot operated valves that are used to prevent a hydraulic system from exceeding its maximum pressure limits.

Valves, **remote pilot** — Pilot operated valves that are controlled remotely through the use of air pressure.

Valves, solenoid — Valves that are operated by a solenoid.

DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

4. Comparability

Data reported in this survey should correspond to data reported in the Economic Census - Manufacturing Sector form. The sum of values for item codes shown in column (a) should correspond to dollar values reported under product codes indicated in column (b) below.

Current Industrial Reports (Form MA333N)	Economic Census - Manufacturing Sector
Item codes (a)	Product codes (b)
1201 through 1219	3329125100
1221 through 1249	3329127100
1251 through 1269	3329129100
1271 through 1279	332912B100
1281 through 1289	3329121100
1291	3329123100
1293, 1295	332912D100
2201 through 2209	332912H100
2211 through 2221	332912J100
2241 through 2251	332912L100
2261 through 2265	332912N100
2271 through 2275	332912F100
3301 through 3309	3339993100
3311 through 3323	3339994100
3325, 3327	3339996100
3340, 3347	3339998870 3339998880
4501 through 4519	3339951100
4601 through 4619	3339953100
4841 through 4847, 4893	3339955100
4851 through 4877	3339957100
5504 through 5517	3339961100
5534 through 5537	3339963100
5545 through 5571	3339965100
5581 through 5586	3339967100
5591 through 5597	3339969100

REFERENCE LIST

Product	Item	
code	code	Item description
		Section I — FLUID POWER VALVES (hydraulic and pneumatic valves and parts)
		(Report quantity in number of units)
3329125100		NONAEROSPACE TYPE HYDRAULIC DIRECTIONAL CONTROL VALVES, excluding cartridge, stack, logic and electrohydraulic types
3329125110 3329125120 3329125130	1201 1205 1209	Manual: 3- & 4-way monoblock 3- & 4-way sectional Other manual
0000405440	4044	Solenoid:
3329125140 3329125150	1211 1215	2-way types 3- & 4-way types
3329125160	1219	Other directional control
3329127100		NONAEROSPACE TYPE HYDRAULIC VALVES (EXCEPT DIRECTIONAL CONTROL)
		Pressure control:
3329127110	1221	Relief valves
3329127120	1225	Other, including load sensing and manual types Flow control:
3329127130	1231	Manual types
3329127140	1235	Other flow control types
3329127155	1240	Cartridge valves (except directional control) Electrohydraulic valves:
3329127160	1241	Pilot operated, torque motor servovalves
3329127170	1243	Other types, including proportional
3329127180	1249	Other nonaerospace type hydraulic valves, including stack and logic
3329129100		NONAEROSPACE TYPE PNEUMATIC DIRECTIONAL CONTROL VALVES
3329129110	1251	Manual Solenoid:
3329129120	1253	Under 1/8" port diameter 1/8" up to and including 1/4" port diameter:
3329129130	1255	3-way types
3329129140	1257	4-way types
		Over 1/4" port diameter:
3329129150	1265	3-way types
3329129160	1267	4-way types
3329129170	1268	All other solenoid

		REFERENCE LIST—Continued
FORM MA333N		
Product code	Item code	Item description
		Section I — FLUID POWER VALVES (hydraulic and pneumatic valves and parts)—Continued
		(Report quantity in number of units)
332912B100		NONAEROSPACE TYPE PNEUMATIC VALVES (EXCEPT DIRECTIONAL CONTROL)
332912B110 332912B120	1271 1273	Filter-regulator combination units, integral types
332912B120 332912B130	1273	Other FRs and filter-regulator-lubricator combo units Regulators sold separately
332912B140	1277	Flow control valves
332912C000 332912B150	1278 1279	Nonaerospace-type pneumatic valves-for non-motion control applications Check, shuttle, exhaust, needle, and all other types
3329121100		AEROSPACE TYPE HYDRAULIC FLUID POWER VALVES
3329121110 3329121120 3329121130	1281 1283 1285	2-, 3-, and 4-way directional control valves: Manually or mechanically operated Solenoid operated Motor operated
3329121140 3329121150	1287 1289	Electrohydraulic servovalves Flow, pressure, and other types of hydraulic valves
3329123100		AEROSPACE TYPE PNEUMATIC FLUID POWER VALVES
3329123110	1291	Pneumatic valves (all types)
332912D100		PARTS FOR FLUID POWER VALVES
332912D110 332912D120	1293 1295	Parts for nonaerospace type hydraulic and pneumatic valves, sold separately Parts for aerospace type hydraulic and pneumatic valves, sold separately
		Section II — FLUID POWER FITTINGS AND ASSEMBLIES (fittings for and assemblies of tubing and hose used in fluid power transfer systems)
332912H100		NONAEROSPACE TYPE FLARED (METAL) FITTINGS AND COUPLINGS FOR, AND ASSEMBLIES OF TUBING USED IN FLUID POWER TRANSFER SYSTEMS
		Flared fittings:
332912H110	2201	Brass and bronze (SAE 45 degrees and 37 degrees)
332912H120 332912H130	2203 2205	Carbon steel (JIC 37 degrees) Other, including alloy steel
332912H140	2207	Assemblies of tubing
332912H150	2209	Assemblies of tubing and hose

FORM MA333N		REFERENCE LIST — Continued
Product	Item	
code	code	Item description
		Section II — FLUID POWER FITTINGS AND ASSEMBLIES (fittings for and assemblies of tubing and hose used in fluid power transfer systems) —Continued
332912J100		NONAEROSPACE TYPE FLARELESS FITTINGS AND COUPLINGS, INCLUDING NONMETAL FITTINGS, USED IN FLUID POWER TRANSFER SYSTEMS
		Metal types:
332912J110	2211	Brass and bronze
332912J120	2213 2215	Carbon steel
332912J130 332912J140	2215	Stainless steel Other, including alloy steel
0020120140		
332912J150	2221	Nonmetal fittings, including plastic
332912L100		NONAEROSPACE TYPE HYDRAULIC AND PNEUMATIC FITTINGS AND COUPLINGS FOR HOSE, AND MANIFOLDS
332912L110	2241	Permanent hose end fittings (crimped and swaged)
332912L120	2243	Hydraulic and pneumatic reusable end fittings
332912L130	2245	Hydraulic quick connect and disconnect couplings
332912L140	2247	Pneumatic quick connect and disconnect couplings
332912L150	2249	Manifolds and manifold assemblies for fluid power systems
332912L160	2251	All other, including steel adaptor, swivel, rotating, and extension fittings
332912N100		NONAEROSPACE TYPE HYDRAULIC AND PNEUMATIC ASSEMBLIES OF HOSE
2220401440	2004	Accombiling with paragraph and fixtings
332912N110 332912N120	2261 2263	Assemblies with permanent end fittings Assemblies with reusable fittings
332912N130	2265	Nonaerospace-type hydraulic and pneumatic bulk hose
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332912F100		AEROSPACE TYPE HYDRAULIC AND PNEUMATIC HOSE OR TUBE END FITTINGS AND ASSEMBLES AND MANIFOLDS
332912F110	2271	Assemblies of hose and/or tubing
332912F125	2272	Hose and/or tube fittings, all types
332912F130	2275	Manifolds for aerospace hydraulic systems

FORM MA333N		REFERENCE LIST — Continueu
Product code	Item code	Item description
		Section III — FILTERS FOR HYDRAULIC AND PNEUMATIC FLUID POWER SYSTEMS
		(Report quantity in number of units)
3339993100		NONAEROSPACE TYPE FILTERS FOR HYDRAULIC FLUID POWER SYSTEMS
3339993110 3339993120 3339993130	3301 3302 3304	Hydraulic fluid filter assemblies, with or without filter element installed: Low pressure (below 301 psi) Medium pressure (301 - 2,999 psi) High pressure (3,000 psi and above)
3339993140 3339993150 3339993160	3305 3307 3309	Filter replacement elements: Reusable (cleanable) type Nonreusable type Strainers and separators, filter parts, and accessories
3339994100		NONAEROSPACE TYPE FILTERS FOR PNEUMATIC FLUID POWER SYSTEMS
3339994110 3339994120 3339994130	3311 3313 3323	Air supply filter assemblies and filter replacement elements, excluding those shipped as part of a FR or FRL combo unit: Coalescing types, including elements sold separately Other types, including elements sold separately Air exhaust mufflers, diffusers, filter parts and air preparation accessories
3339996100		AEROSPACE TYPE HYDRAULIC AND PNEUMATIC FILTERS
3339996110 3339996120	3325 3327	Hydraulic Pneumatic
3339998870, 3339998880		COMPRESSED AIR AND GAS DRYERS, AND LUBRICATORS
3339998A00	3340	Compressed air and gas dryers
3339998880	3347	Lubricators for pneumatic systems, sold separately

FORM MA333N		
Product code	Item code	Item description
		Section IV — HYDRAULIC AND PNEUMATIC CYLINDERS, ACTUATORS, ACCUMULATORS, CUSHIONS, NONVEHICULAR SHOCK ABSORBERS, AND PARTS (Report quantity in number of units)
3339951100		NONAEROSPACE TYPE HYDRAULIC FLUID POWER CYLINDERS AND ACTUATORS, LINEAR AND ROTARY
3339951110 3339951120 3339951130 3339951140 3339951150 3339951160 3339951170 3339951180 3339951190 33399511A0	4501 4503 4505 4507 4509 4511 4513 4515 4517 4519	Hydraulic cylinders, excluding electrohydraulic: Tie-rod types: Standard NFPA and JIC tie-rod types: Less than 1500 psi 1500 to 3000 psi Greater than 3000 psi Other tie-rod types Threaded/weld fused combination Telescoping Mill type Other, including those threaded at both ends Electrohydraulic types Hydraulic rotary actuators
3339953100		NONAEROSPACE TYPE PNEUMATIC FLUID POWER CYLINDERS AND ACTUATORS, LINEAR AND ROTARY
3339953110 3339953120 3339953130 3339953140 3339953150 3339953160 3339953170	4601 4603 4605 4607 4609 4611 4619	NFPA interchangeable cylinders: Steel Aluminum: Less than 1½" bore size 1½" bore size and over Rodless cylinders Other pneumatic cylinders: Less than 1½" bore size 1½" bore size and over Pneumatic rotary actuators
3339955100	4944	PARTS FOR NONAEROSPACE TYPE HYDRAULIC AND PNEUMATIC FLUID POWER CYLINDERS, ACTUATORS, AND RELATED ITEMS N.E.C.
3339955110 3339955120 3339955130	4841 4843 4845	Accumulators (bladder, piston, and other types) Shock absorbers, not for vehicle suspension, and cushions (hydraulic and pneumatic) Reservoirs, intensifiers, and other devices for fluid energy absorption and/or storage
3339955140	4847	Parts for nonaerospace type hydraulic and pneumatic cylinders, actuators, accumulators, cushions, and nonvehicular shock absorbers, sold separately

FORM MA333N		
Product code	Item code	Item description
		Section IV — HYDRAULIC AND PNEUMATIC CYLINDERS, ACTUATORS, ACCUMULATORS, CUSHIONS, NONVEHICULAR SHOCK ABSORBERS, AND PARTS — Continued (Report quantity in number of units)
3339957100		AEROSPACE TYPE FLUID POWER CYLINDERS AND ACTUATORS, HYDRAULIC AND PNEUMATIC
3339957110 3339957120 3339957130	4851 4853 4855	Hydraulic servo-actuator assemblies (linear and rotary): Mechanical input Electrical input Combination input
3339957140 3339957150	4861 4863	Hydraulic utility actuators: Linear actuators (cylinders) Rotary actuators (limited rotation)
3339957160 3339957170 3339957180 3339957190 33399571A0	4865 4871 4873 4875 4877	Shock absorbers, snubbers, and cushions (all types), excluding oleo strut assemblies Pneumatic actuators (linear and rotary) Accumulators (bladder, piston, and other types) Reservoirs, intensifiers, and other devices for fluid energy absorption and/or storage Other aerospace type fluid power cylinders, rotary actuators, cushions and related items, n.e.c.
3339555150	4893	Parts for aerospace type hydraulic and pneumatic cylinders, actuators, accumulators, cushions, and related items, sold separately
		Section V — FLUID POWER PUMPS AND MOTORS, AND PARTS
		(Report quantity in number of units)
3339961100		NONAEROSPACE TYPE RECIPROCATING PUMPS
3339961110 3339961120 3339961130 3339961140	5504 5514 5515 5517	Axial piston: Variable displacement types: Closed loop Open loop Fixed displacement types Radial piston types
3339963100		NONAEROSPACE TYPE ROTARY AND OTHER FLUID POWER PUMPS
3339963110 3339963120	5534 5535	Gear type: Internal, including gerotors External type Vane type:
3339963150	5537	Fixed and variable displacement vanes

		REFERENCE LIST — Continued
FORM MA333N		
Product code	Item code	Item description
		Section V — FLUID POWER PUMPS AND MOTORS, AND PARTS — Continued
		(Report quantity in number of units)
3339965100		NONAEROSPACE TYPE FLUID POWER MOTORS
		Hydraulic motors: Gear type:
3339965120 3339965130 3339965140	5548 5550 5551	Internal, excluding gerotor types Gerotor types External
3339965150 3339965160	5553 5555	Vane types, fixed and variable Radial piston types, fixed and variable
3339965170 3339965180	5557 5559	Axial piston types: Fixed displacement Variable displacement
3339965110	5560	Pneumatic (air) motors
3339965190	5571	Prime movers shipped with pumps or sold separately
3339967100		AEROSPACE TYPE FLUID POWER PUMPS AND MOTORS
3339967110 3339967120 3339967130	5581 5583 5585	Hydraulic pumps: Fixed and variable displacement types Pump/electric motor assemblies, fixed, and variable displacement types Other pump packages n.e.c.
3339967170	5586	Motors: Aerospace type fluid power motors, all kinds
3339969100		PARTS FOR FLUID POWER PUMPS, MOTORS, AND HYDROSTATIC TRANSMISSIONS
3339969110 3339969120	5591 5593	Hydraulic: Nonaerospace Aerospace
3339969130 3339969140	5595 5597	Pneumatic: Nonaerospace Aerospace
333996A000 333996B000	5599 5600	Nonaerospace hydrostatic transmissions Nonaerospace hydraulic power units

REPORT FOR CALENDAR YR 2007

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

FORM MA333N

CURRENT INDUSTRIAL REPORTS

FLUID POWER PRODUCTS FOR MOTION CONTROL {INCLUDING AEROSPACE} {Shipments}

If you have questions regarding this report form please contact:

PAUL COREY EXT3 1(800)201-4647

EMPLOYER IDENTIFICATION (EI) NUMBER. Identification number used on Employer's Quarterly Federal Tax Return (U.S. Treasury Department Form 941) (Enter if not shown, correct if wrong.)

CONTACT PERSON (Enter information if not shown, correct if wrong.)
Name ATTN: Controller

Area code

Number

Fax number

The 8-digit number that appears above indicates that the Office of Management and Budget has approved this survey. If that number is not displayed, do not complete this form. YOUR RESPONSE IS REQUIRED BY LAW {Title 13, United States Code}. By section 9 of the same law, YOUR REPORT IS CONFIDENTIAL. It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this establishment's report, please refer to the 11 digit Identification Number (ID) 89100363030



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TO MAS

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SEQ: 1

ATTN: Controller

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(Please correct any error in name and address including ZIP Code)

Enter or correct email address:[

PART I FOR EACH ITEM LISTED BEL for the previous two periods	OW, ENT	ER FIGUR E REFER T	ES OR "0" for cu	rrent period. (T	he figures show	n in the shaded	areas were repo RM.	rted
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CONTROL VALVES				age of the state o			Series and	
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* Figures not received when form was prepared. PLEASE ENTER, if not previously submitted.

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

CURRENT INDUSTRIAL REPORTS - Continued

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3329125140-Solenoid: 2 way		2005						-
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3329125150-Solenoid: 3 and 4 way types	1215	2007						Section of the sectio
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3329125160-Other directional control {excl. cartridge,	1219	2007						
stack, logic & electro- hydraulic types}		2006			and the second		-1	***
		2005	i .	:	and the second s			-
3329127100- NONAEROSPACE HYDRAULIC VALVES, EXCEPT DIRECTIONAL CONTROL								
BIRECTIONAL CONTROL					***************************************		***************************************	***
				:				
3329127110-Pressure control: relief valves	1221	2007			· ·			
		2006						
		2005	4					-
3329127120-Pressure control: Other, incl. load sensing	1225	2007			eriteronania del del constantia del			000000000000000000000000000000000000000
& manual types		2006				-		
		2005		1	**************************************		adequation to absorve	10000000000000000000000000000000000000
3329127130-Flow control: manual types	1231	2007	-		**************************************	action of the state of the stat		
		2006		11.			introduction of the state of th	9000000
		2005						
3329127140-Flow control: other flow control types	1235	2007			The state of the s	- Andrews of the Common of the		
		2006						
		2005		2000			Control of the Contro	(S) Miles de Marce de
3329127155-Cartridge valves {except directional control}	1240	2007			***************************************			
		2006		-				1
		2005						***************************************

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS Identification Number (ID) (Enter if not Page shown, correct if wrong) **CURRENT INDUSTRIAL REPORTS - Continued** 89100363030 3 PART I - Continued Section I - FLUID POWER VALVES Total Item ltem Report Shipments (Product code - Description) code period Quantity | Value **{\$1000}** {Units} 5 6 3329127160-Electrohydraulic 1241 2007 valves: pilot operated, torque motor servovalves 2006 2005 3329127170-Electrohydraulic 1243 valves: other types, incl. 2007 proportional 2006 2005 3329127180-Other nonaerospace hydraul. valves, incl. stack 1249 2007 and logic 2006 2005 3329129100-NONAEROSPACE PNEUMATIC DIRECTIONAL CONTROL VALVES 3329129110-Manual 1251 2007 2006 2005 3329129120-Solenoid: under 1/8" port diameter 1253 2007 2006 2005 3329129130-Solenoid: 1/8" up to & incl. 1/4" port | 1255 2007 diameter: 3 way types 2006 2005 3329129140-Solenoid: 1/8" up to & incl. 1/4" port | 1257 2007 diameter: 4 way types 2006 2005 3329129150-Solenoid: over 1/4" port diameter: 1265 2007 3 way types 2006 2005 3329129160-Solenoid: over 1/4" port diameter: 1267 2007 4 way types 2006 2005

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			Section I	- FLUID	POWER VALV	ES		usination
ltem (Product code – Description)	Item code	Report period	Tot Shipm Quantity			TO TO THE T		
			{Units}	{\$1000}	***************************************			of a contract of the contract
3329129170-Solenoid:			1	2	3	4	5	6
all other	1268	2007			ļ			
		2006						
		2005					1	
3329129180-Mechanical, remote pilot and all other types	1269	2007						and a second and a
{ex. those reported under	1203	2006						
item 1253}								
332912B100- NONAEROSPACE		2005					,	
PNEUMATIC VALVES, EXCEPT DIRECTIONAL CONTROL					Name of the second seco	Account of the second of the s		·
				:				
332912B110-Filter-regulator						:		
combination units, integral	1271	2007						-
types		2006						
		2005						
332912B120-Other FRs and								
filter-regulator-lubricator combo units	1273	2007						-
		2006	:					
		2005						W. // .
332912B130-Regulators sold separately	1275	2007						
		2006						
		2005			49			
332912B140-Flow control valves	1277	2007			***************************************	WALLEST TO THE PROPERTY OF THE		
		2006				1		
		2005						
332912C000-Nonaerospace-type pneumatic valves -	1278	2007				and the second s		
for non-motion control applications		2006						
app i reactions		2005						
332912B150-Check, shuttle,								
exhaust, needle & all other types	1279	2007						
2,703		2006						
		2005						
3329121100- AEROSPACE HYDRAULIC FLUID POWER VALVES						· ·		
ONER VILVEO								
				DANAGA AND AND AND AND AND AND AND AND AND AN		1000000		

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS Page shown, correct if wrong) **CURRENT INDUSTRIAL REPORTS - Continued** 89100363030 5 PART I - Continued Section I - FLUID POWER VALVES Total Item Item Report (Product code - Description) Shipments code period Quantity Value {\$1000} {Units} 2 3 4 5 6 3329121110- 2-, 3-, & 4-way directional control valves: 1281 2007 manually or mechanically 2006 operated 2005 3329121120- 2-, 3-, & 4-way driectional control valves: 1283 2007 solenoid operated 2006 2005 3329121130- 2-, 3-, & 4-way directional control valves: 1285 2007 motor operated 2006 2005 3329121140- 2-, 3-, & 4-way directional control valves: 1287 2007 electrohydraulic servovalves 2006 2005 3329121150-Flow, pressure, & other types of hydraulic 1289 2007 valves 2006 2005 3329123100- AEROSPACE PNEUMATIC FLUID POWER VALVES 3329123110-Pneumatic valves 1291 2007 {all types} 2006 2005 332912D100- PARTS FOR FLUID POWER VALVES 332912D110-Parts for nonaerospace type hydraulic and 1293 2007 XXXXXpneumatic valves, sold 2006 $X \times X \times X$ separately 2005 XXXXX332912D120-Parts for aerospace type hydraulic and 1295 2007 XXXXXpneumatic valves, sold 2006 XXXXXseparately 2005 XXXXX

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shown, correct if wrong) **CURRENT INDUSTRIAL REPORTS - Continued** 89100363030 6 PART I - Continued Section II- FLUID POWER FITTINGS & ASSEMBLIES Total ltem Item Report Shipments (Product code - Description) code period Quantity Value {\$1000} 2 3 5 332912H100-NONAEROSPACE FLARED {METAL} FITTINGS & COUPLINGS, & ASSEMBLIES OF TUBING 332912H110-Flared fittings: 2201 2007 XXXXXbrass & bronze {SAE 45 & 37 degrees} 2006 XXXXX 2005 XXXXX332912H120-Flared fittings: 2203 carbon steel 2007 XXXXX {JIC 37 degrees} 2006 XXXXX 2005 XXXXX332912H130-Flared fittings: 2205 other, including alloy 2007 XXXXXsteel 2006 XXXXX2005 XXXXX 332912H140-Assemblies of 2207 2007 XXXXXtubing 2006 XXXXX 2005 XXXXX 332912H150-Assemblies of 2209 2007 tubing and hose XXXXX 2006 XXXXX 2005 XXXXX 332912J100- NONAEROSPACE FLARELESS FITTINGS AND COUPLINGS 332912J110-Metal types: brass & bronze 2211 2007 XXXXX2006 XXXXX 2005 XXXXX332912J120-Metal types: 2213 2007 XXXXXcarbon steel 2006 XXXXX 2005 XXXXX332912J130-Metal types: stainless steel 2215 2007 XXXXX2006 XXXXX

2005

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PART I - Continued			Section :	II- FLUID F	OWER FIT			
Item (Product code – Description)	ltem code	Report period	Tot Shipr Quantity	nents	oortaanoonaanaanaanaanaanaanaanaanaanaanaana			
				{\$1000}				
332912J140-Metal types: other, including alloy	2217	2007	1 XXXXX	2	3	4	5	6
steel	,	2006	XXXXX					
		2005	XXXXX		-			
332912J150-Nonmetal fittings, including plastic	2221	2007	XXXXX	THE STATE OF THE S	ob de consesses de			
,		2006	XXXXX	The state of the s	esidenti de la constanti de la			
		2005	XXXXX			000000000000000000000000000000000000000		
332912L100- NONAEROSPACE HYDRAULIC & PNEUMATIC FITTINGS & COUPLINGS FOR HOSE, AND MANIFOLDS							· · · · · · · · · · · · · · · · · · ·	
332912L110-Permanent hose end fittings {crimped & swaged}	2241	2007	XXXXX		Acceptance of the Control of the Con			
, ,		2006	xxxxx		uguetti etimoo			
		2005	XXXXX					,,,,
332912L120-Hydraulic & pneumatic reusable end	2243	2007	XXXXX	·				
fittings		2006	xxxxx	novel and	verice constant and the second	****		
		2005	XXXXX					
332912L130-Hydraulic quick connect & disconnect	2245	2007	xxxxx	***************************************		11 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)		
couplings		2006	XXXXX					
·		2005	xxxxx	·			X .	
332912L140-Pneumatic quick connect & disconnect	2247	2007	XXXXX	***************************************	annonani annonani			
couplings		2006	XXXXX					
		2005	XXXXX					
332912L150-Manifolds and manifold assemblies for fluid power systems	2249	2007	XXXXX	*				· · · · · · · · · · · · · · · · · · ·
Trura power systems		2006	XXXXX					ī
		2005	XXXXX					
332912L160-All other, incl. steel adaptor, swivel, rotating, and extension	2251		XXXXX	MAXIMA MA				
fittings		2006	XXXXX	***************************************	-			
3320120100- 000450050405		2005	XXXXX			1704-04-04		
332912N100- NONAEROSPACE HYDRAULIC AND PNEUMATIC ASSEMBLIES OF HOSE				CONTRACTOR OF THE PROPERTY OF		**************************************		
			/			# # # # # # # # # # # # # # # # # # #	0000	
	1	1		80000				

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ltem (Product code – Description)	ltem code	Report period	То		YUWEK FIII	INGS & ASS	SEMRTIES	
332912N110-Assemblies with permanent end fittings	2261	2007	1 XXXXX	{\$1000}	3	4	5	6
		2006 2005	XXXXX					
332912N12O-Assemblies with reusable end fittings	2263	2007	XXXXX XXXXX					
332912N130-Nonaerospace-type hydraulic and pneumatic bulk hose	2265	2005 2007 2006 2005	XXXXX XXXXX XXXXX					
332912F100- AEROSPACE HYDRAULIC & PNEUMATIC HOSE OR TUBE END FITTINGS, ASSEMBLIES & MANIFOLDS							-	
332912F110-Aerospace assemblies of hose and/or tubing	2271	2007 2006 2005	XXXXX XXXXX					
332912F125-Aerospace hose and/or tube fittings, all types	2272	2007 2006 2005	XXXXX XXXXX					
332912F130-Aerospace - manifolds for hydraulic systems	2275	2007 2006 2005	XXXXX XXXXX XXXXX					
			To	III - FILT POWE	ERS FOR HY R SYSTEMS	DRAULIC &	PNEU. FLI	Ů D
3339993100- NONAEROSPACE FILTERS FOR HYDRAULIC FLUID POWER SYSTEMS			Ship Quantity {Units}					
						Vice de la constante de la con	**************************************	VICE TO SERVICE STATE OF THE S

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PARTI- Continueu				POWE	RS FOR HYDRAULIC & PNEU. FLIUD					
Item (Product code – Description)	ltem code	Report period	Tot Shipm Quantity	ents		options and management in the property of the				
			{Units}	{\$1000}						
3339993110-With or without filter element installed: low pressure {below 301 psi}	3301	2007	1	2	3	4	5	6		
		2006 2005		roisin	***************************************	Annual Communication	-			
3339993120-With or without	3302	2007								
filter element installed: medium pressure {301 - 2999 psi}	3302	2007		and an analysis of the second	SECTION AND SECTIO	waxaa				
2333 h213		2005		-		***************************************				
3339993130-With or without filter element installed:	3304	2007		To a company of the c		wasto or the state of the state				
high pressure {3,000 psi & above}		2006								
above		2005		-	- Control of the American	-				
3339993140-Filter replacement elements: reusable	3305	2007		occontractive residence of the second	**************************************	***************************************				
{cleanable} type		2006				***************************************		*		
		2005								
3339993150-Filter replacement elements: nonreusable	3307	2007								
		2006								
		2005					į.			
3339993160-Filter replacement elements: srainers &	3309	2007	XXXXX	void to the second seco	423444444444444444444444444444444444444	saki manananan				
separators, filter parts & accessories		2006	XXXXX							
		2005	XXXXX	*			ne pinorios de la companio del companio de la companio del companio de la companio della companio de la companio della compani	,		
3339994100- NONAEROSPACE FILTERS FOR PNEUMATIC FLUID POWER SYSTEMS				Name of the Control o		TO CONTRACT OF THE PROPERTY OF				
{SEE MANUAL}										
3339994110-Coalescing types, including elements sold	3311	2007	XXXXX		ood on the state of the state o	· · · · · · · · · · · · · · · · · · ·				
separately		2006	XXXXX		ward and a second		CONTRACTOR			
		2005	XXXXX	***************************************						
3339994120-Other types, including elements sold	3313	2007	XXXXX	**************************************		voneli iri middeli dalaka	Vertebonionististististis			
separately		2006	XXXXX					,		
		2005	XXXXX	777777777777777777777777777777777777777			200			
3339994130-Air exhaust mufflers, diffusers, filter	3323	2007	XXXXX	VORDA NEL CONTRACTOR C	-	COMMINION	Sandal de la companya			
parts & air preparation accessories		2006	XXXXX	Shirteensterning						
		2005	XXXXX	No.	er-i-		- Automorphisms			

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10 **PART I - Continued** Section III - FILTERS FOR HYDRAULIC & PNEU. FLIUD POWER SYSTEMS Total Item ltem Report Shipments (Product code – Description) code period Quantity Value **{\$1000**} {Units} 2 3 6 3339996100-AEROSPACE HYDRAULIC AND PNEUMATIC FILTERS 3339996110-Aerospace, hydraulic filters 3325 2007 XXXXX2006 XXXXX 2005 XXXXX 3339996120-Aerospace, pneumatic filters 3327 2007 XXXXX 2006 XXXXX2005 XXXXX3339998870, 3339998880-COMPRESSED AIR AND GAS DRYERS, AND LUBRICATORS 3339998A00-Compressed air 3340 2007 and gas dryers 2006 2005 3339998880-Lubricators for pneumatic systems, sold 3347 2007 separately 2006 2005 Section VI-HYDRAUL. & PNEU. CYL., ACTUATORS, ACCUM., CUSHIONS, NONVEHICULAR SHOCK ABSORBERS Total Shipments Quantity Value {Units} | {\$1000} 3339951100- NONAEROSPACE HYDRAULIC CYLINDERS & ACTUATORS, LINEAR AND ROTARY 3339951110-Tie-rod types: standard NFPA & JIC -4501 2007 less than 1500 psi 2006 2005

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ltem (Product code – Description)	Item code	Report period	Section V Tot Shipm Quantity	ents	& PNEU. , NONVEHI	CYL., ACTU CULAR SHOO	ATORS, ACC K ABSORBER	CUM., RS
			{Units}	{\$1000}				
3339951120-Tie-rod types: standard NFPA & JIC - 1500 - 3000 psi	4503	2007	1	2	3	4	5	6
		2006 2005				-		
3339951130-Tie-rod types: standard NFPA & JIC - greater than 3000 psi	4505	2007		500-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	-			
		2006 2005				***************************************		
3339951140-Tie-rod types: other	4507							
		2006 2005	· .	:		2		
3339951150-Threaded/weld fused combination	4509	2007						
		2006						
3339951160-Telescoping	4511	2007		- Andrews and the second secon		A group distance in contract to the contract t		
		2006 2005		***************************************	4			
3339951170-Mill type	4513							
		2006	•					
3339951180-Other, including those threaded at both	4515	Ì		National Applications of the Control				
ends		2006 2005		:				
3339951190-Electrohydraulic types	4517					Salah Baranan Andrews		. :
		2006 2005						
33399511A0-Hydraulic rotary	4519		4	-	inner the second and			
actuators	4519	2007				The state of the s		
3339953100- NONAEROSPACE		2005		***************************************	TOTAL PARTIE AND	***************************************	2	
PNEUMATIC CYLINDERS & ACTUATORS, LINEAR & ROTARY				Venezia de la compositione de la	CONTRACTOR	toren and the second se	-	
					A marchine and mar	0	1	

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PART I - Continued			Section V	I-HYDRAUL.	& PNEU.	CYL., ACTU CULAR SHOC	ATORS, AC	ACCUM.,	
Item (Product code – Description)	ltem code	Report period	Tot Shipm Quantity	al	, NONVEIL	COLAR SHOO	K ADSUNDE		
			{Units}	{\$1000}					
3339953110-Tie-rod cylinders {NFPA types} - steel	4601	2007	1	2	3	4	5	6	
		2006		A TOTAL CONTRACTOR OF THE PARTY					
		2005		-		:		and the second s	
3339953120-Tie-rod cylinders {NFPA types} - aluminum, less than 1 1/2" bore size	4603	2007		ANGORA MARIA M		di provincia del constitución de la constitución de			
		2006			ÿ.				
		2005			6				
3339953130-Tie-rod cylinders {NFPA types} - aluminum,	4605	2007		-		VAN CONTRACTOR CONTRAC		-	
1 1/2" bore size & over		2006						:	
		2005	3			, '			
3339953140-Rodless cylinders	4607	2007		11				The second secon	
		2006			:				
		2005	, N						
3339953150-Other pneumatic cylinders, less than 1 1/2"	4609	2007	- Ω.3.S-10 000			**************************************			
bore size		2006							
		2005					:		
3339953160-Other pneumatic cylinders, 1 1/2" bore	4611	2007							
size and over		2006	. a § 1:						
		2005							
3339953170-Pneumatic rotary actuators	4619	2007				TO CONTRACTOR CONTRACT			
		2006							
		2005			:		,		
3339955100-PARTS FOR NONAERO. HYDRAULIC & PNEUMATIC				TO CONTRACTOR OF THE CONTRACTO		A STATE OF THE STA	-	00	
CYLIDERS, ACTUATORS, & RELATED ITEMS, N.E.C.									
					200		***************************************		
3339955110-Accumulators {bladder, piston, & other	4841	2007				TO TO THE T		The state of the s	
types}		2006							
		2005		CONTRACTOR		300000000000000000000000000000000000000			
3339955120-Shock absorbers, not for vehicle suspension,	4843	2007			1.			A TOTAL CONTRACTOR OF THE CONTRACTOR OF T	
<pre>& cushions {hydraulic & pneumatic}</pre>		2006					-	was in the same of	
		2005							

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		Section VI-HYDRAUL.			& PNEU. CYL., ACTUATORS, ACCUM., , NONVEHICULAR SHOCK ABSORBERS					
Item (Product code – Description)	ltem code	Report period	Tot Shipm Quantity	a 1	, IVIII	JOLAN SIIO	TO ADSUNDE			
			{Units}	{\$1000 }		***************************************				
3339955130-Reservoirs, intensifiers, and other	4845	2007	1	. 2	. 3	4 4	5	6		
devices for fluid energy absorption and/or storage		2006								
		2005				-				
3339955140-Parts for nonaero. hydraul./pneu. cylinders,	4847	2007	XXXXX	vocalizazione scriptura del constructivo	rossocional delicoresto.	and the second	Tendorina de la constitución de			
<pre>actuators, accumulators,etc sold separately {see manual}</pre>		2006	XXXXX							
		2005	XXXXX		and the second s	**************************************				
3339957100- AEROSPACE HYDRAULIC & PNEUMATIC CYLINDERS & ACTUATORS						-	***************************************			
OTETHDENS & NOTONIONS				-						
							MAN (100)			
3339957110-Aerospace, hydraulic servo-actuator assemblies:	4851	2007		37000	Parameter Communication Commun	service description of the service description o	Vision in the second se			
mechanical input		2006					34,000			
		2005								
3339957120-Aerospace, hydraulic servo-actuator assemblies:	4853	2007		50000000000000000000000000000000000000	2		the second secon			
electrical input		2006		-		-	ACCES DE LA CONTRACTION DE LA			
		2005					rannikaaan			
3339957130-Aerospace, hydraulic servo-actuator assemblies:	4855	2007		0744-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0			·			
combination input		2006					vuonantai ta			
		2005				4	300000000000000000000000000000000000000	·		
3339957140-Aerospace. hydraulic utility	4861	2007		***************************************	MALLIANA NATURAL NATURA NATU		**************************************			
actuators: linear {cylinders}		2006		200000000000000000000000000000000000000			· ·			
		2005		-			S. C.			
3339957150-Aerospace, hydraulic utility	4863	2007		550000000000000000000000000000000000000		-	THE STATE OF THE S			
<pre>actuators: rotary {limited rotation}</pre>	1	2006		***************************************			Vanda-CORA-COPP-12-CO-AD-			
		2005								
3339957160-Aerospace, shock absorb., snubbers, cushions,	4865	2007		venovovokonovie		-	on the second se			
all types excl. oleo strut assemblies		2006				-	, market			
and the second s		2005					4			
3339957170-Aerospace, pneumatic actuators	4871	2007				-	200000000000000000000000000000000000000			
{linear & rotary}		2006					works and the second			
		2005				over-constant	***			

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PARTI - Continued				CUSHIONS	& PNEU. CYL., ACTUATORS, ACCUM., , NONVEHICULAR SHOCK ABSORBERS					
Item (Product code – Description)	Item code	Report period	Tot Shipm Quantity			deconstructions	normania de la constancia			
			{Units}	{\$1000}			***************************************			
3339957180-Aerospace,	4070	0007	1	2	3	. 4	5	6		
accumulators {bladder, piston, & other types}	4873	2007								
		2006								
		2005								
3339957190-Aerospace, reser- voirs, intensifiers, & other devices for fluid energy absorption and/or storage	4875	2007					2000			
		2006	· · · · · · · · · · · · · · · · · · ·							
absorption ana/or storage		2005	4		-		and the second			
33399571A0-Other aerospace- type fluid power cylinders,	4877	2007	XXXXX				and the second s			
rotary actuators, cushions,	10//	2006	XXXXX							
related items n.e.c.					:					
3339955150-Aero., parts for		2005	XXXXX							
hydraulic & pneu. cylinders,	4893	2007	XXXXX				· · · · · · · · · · · · · · · · · · ·			
actuators, accumulators, etc., sold separately		2006	XXXXX							
		2005	XXXXX		-		TABLE CONTRACTOR OF THE PARTY O			
					-					
			C 1 N	TIUTO F	OUED DIME	C AND MOT	700			
		·		- FLUID F	OWER PUMP	S AND MUIL	JKS -			
			Tot Shipm	al						
			Quantity	Value						
·			{Units}	{\$1000}			ALL CONTRACTOR CONTRAC			
3339961100- NONAEROSPACE					****					
RECIPROCATING PUMPS										
		:								

3339961110-Axial piston: variable displacement -	5504	2007			***************************************	: 1	***************************************			
closed loop		2006								
		2005								
3339961120-Axial piston: variable displacement -	5514	2007		No.	and the second		Acceptation of the Control of the Co			
open loop	1 3314	2007			· ·					
·		2005					- Constitution of the Cons			
3339961130-Axial piston:										
fixed displacement types	5515	2007			***************************************					
		2006								
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Item (Product code – Description)	Item code	Report period	Total Shipments Quantity Value		voldende en			roxidinakonikindina voidelaan
· ·		*	{Units}	{\$1000}				
3339961140-Radial piston types	5517	2007	1 .	2	3	4	5	6
		2006						
		2005		n-co-occana				
3339963100- NONAEROSPACE ROTARY AND OTHER FLUID POWER PUMPS								
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3339963110-Gear type: internal {including gerotors}	5534	2007						unininana namanana namanana namanana namanana namanana namanana namana namana namana namana namana namana nama
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3339963120-Gear type: external	5535	2007	,					***************************************
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3339963150-Vane type: Fixed and variable	5537	2007					-	- I a a a a a a a a a a a a a a a a a a
displacement		2006		-				
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3339965100- NONAEROSPACE FLUID POWER MOTORS							-	
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3339965120-Hydraul. motors,

3339965130-Hydraul. motors,

gear type: gerotor types

3339965140-Hydraul. motors,

3339965150-Hydraul. motors,

vane type: fixed & variable

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3339965160-Hydraul. motors, radial piston type: fixed & variable	5555	2007	1	2	3	4	5	6
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3339965170-Hydraul. motors, axial piston type: fixed	5557	ALIDO LI PROPINICIO DI LA CALIFICIA DI LA CALI	1		No.	ASSAULT AND		And the second s
displacement	·	2006						
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3339965180-Hydraul. motors, axial piston type: variable displacement	5559	2007			***************************************	78 P. C.	santanananananananananananananananananan	
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3339965110-Pneumatic {air} motors	5560	2007			2000-00-00-00-00-00-00-00-00-00-00-00-00			
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3339965190-Prime movers shipped with pumps or	5571	2007	XXXXX		over a second and		-	
sold separately		2006	XXXXX					
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3339967100-AEROSPACE FLUID POWER PUMPS & MOTORS			, i.e.	70000000000000000000000000000000000000	**************************************			
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3339967110-Hydraulic pumps: fixed and variable displacement types	5581	2007			Withing	1/		
dispracement types		2006				38.		
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3339967120-Hydraulic pumps: pump/ elect. motor assem- blies, fixed & variable	5583	2007		10000000000000000000000000000000000000	**************************************		VVIII	
displacement		2006				·	Salan Control of the	
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3339967130-Hydraulic pumps: other pump packages n.e.c.	5585	2007		***************************************	was the same of th			
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3339967170-Motors: Aerospace-type fluid power motors, all kinds	5586	2007		-				
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3339969140-Aerospace - pneumatic	5597	2007						
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A. Purchased from				•							
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c. \square Plant discontinued all operations		Date	9								
D. Plant operations no longer covere	d by this	s survey –	- Describe in	"Remarks" the	e prod	ducts currently	produced.				
E. Reorganized - Describe in "Rema	rks;" e.g.	, partners	hip change o	r change in c	orpor	ate status.	and a second	· ·			
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