

U.S. Census Bureau
Fluid Power Products for Motion Control, Including Aerospace - 2007
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Address inquiries concerning these data to Investment Goods Industries Branch, U.S. Department of Commerce, Census Bureau, Manufacturing and Construction Division, Washington, DC 20233-6900, or call Paul Corey, 301-763-4787.

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Table 1. Value of Shipments of Fluid Power Products for Motion Control, Including Aerospace: 2007 and 2006
[Value in thousands of dollars]

Product code	Product description	2007		2006
	Fluid power products, including aerospace.....	13,712,143		13,705,854
3329125	Nonaerospace type hydraulic directional control valves.....	549,269	r/	602,885
3329127	Nonaerospace type hydraulic valves (except directional control).....	885,745		931,500
3329129	Nonaerospace type pneumatic directional control valves.....	532,805		603,169
332912B	Nonaerospace type pneumatic valves (except directional control).....	232,295		220,175
3329121	Aerospace type hydraulic fluid power valves.....	511,460		481,291
3329123	Aerospace type pneumatic fluid power valves.....	358,839		334,458
332912D	Parts for fluid power valves.....	200,742		193,590
332912H	Nonaerospace type flared (metal) fittings and couplings for, and assemblies of, tubing used in fluid power transfer systems.....	426,657	r/	490,776
332912J	Nonaerospace type flareless fittings and couplings, including nonmetal fittings, used in fluid power transfer systems.....	548,697		561,373
332912L	Nonaerospace type hydraulic and pneumatic fittings and couplings for hose, and manifolds.....	775,632		844,968
332912N	Nonaerospace type hydraulic and pneumatic assemblies of hose.....	380,026		400,736
332912F	Aerospace type hydraulic and pneumatic hose or tube end fittings and assemblies and manifolds.....	773,056		727,274
3339993	Nonaerospace type filters for hydraulic fluid power systems.....	422,321		390,422
3339994	Nonaerospace type filters for pneumatic fluid power systems.....	112,821		96,907
3339996	Aerospace type hydraulic and pneumatic filters.....	99,956		111,838
3339998 pt.	Compressed air and gas dryers, and lubricators.....	55,041		63,807
3339951	Nonaerospace type hydraulic fluid power cylinders and actuators, linear and rotary.....	1,537,221		1,537,297
3339953	Nonaerospace type pneumatic fluid power cylinders and actuators, linear and rotary.....	437,825		454,048
3339955	Parts for nonaerospace type hydraulic and pneumatic fluid power cylinders, actuators, and related items.....	603,951		562,771
3339957	Aerospace type fluid power cylinders and actuators, hydraulic and pneumatic.....	1,453,895		1,366,067
3339961	Nonaerospace type reciprocating pumps.....	894,893		804,142
3339963	Nonaerospace type rotary and other fluid power pumps.....	647,140		698,929
3339965	Nonaerospace type fluid power motors.....	621,073	r/	566,193
3339967	Aerospace type fluid power pumps and motors.....	344,201	r/	329,487
3339969	Parts for fluid power pumps, motors, and hydrostatic transmissions.....	306,582		331,751

pt. Part. r/Revised by 5 percent or more from previously published data.

Table 2. Manufacturers' Shipments of Fluid Power Products for Motion Control by Type, Including Aerospace: 2007 and 2006
[Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2007		No. of cos.	2006	
			Quantity	Value		Quantity	Value
3329125	Fluid power products, including aerospace.....	(X)	(X)	13,712,143	(X)	(X)	13,705,854
	Nonaerospace type hydraulic directional control valves.....	(X)	10,606,103	549,269	(X)	r/ 11,961,187	r/ 602,885
	Manual:						
3329125110	3- and 4-way monoblock.....	21	(D)	(D)	24	(D)	(D)
3329125120	3- and 4-way sectional.....	13	1,082,226	131,243	15	1,164,090	r/ 150,964
3329125130	Other manual.....	10	172,644	a/ 11,345	10	r/ 184,832	a/ r/ 8,815
	Solenoid:						
3329125140	2-way types.....	12	(D)	(D)	12	(D)	(D)
3329125150	3- and 4-way types.....	20	3,277,063	173,922	22	r/ 3,459,663	r/ 201,526
3329125160	Other directional control.....	26	c/ 2,403,233	a/ 71,049	28	c/ r/ 2,806,914	a/ 79,747
3329127	Nonaerospace type hydraulic valves (except directional control).....	(X)	20,637,122	885,745	(X)	21,341,806	931,500
	Pressure control:						
3329127110	Relief valves.....	23	a/ 564,315	a/ 40,982	24	a/ r/ 511,856	37,613
3329127120	Other, including load sensing and manual types.....	12	(D)	40,331	12	(D)	33,510
	Flow control:						
3329127130	Manual types.....	13	a/ 1,303,437	a/ 25,594	14	a/ 1,518,026	a/ 25,610
3329127140	Other flow control valves.....	17	1,338,631	50,365	17	a/ 1,314,071	45,500
3329127155	Cartridge valves (except directional control).....	17	a/ 13,061,786	268,502	17	a/ 13,703,783	306,974
3329127150	Cartridge valves (all types).....						
	Electrohydraulic valves:						
3329127160	Pilot-operated, torque motor servovalves.....	5	(D)	a/ 85,482	6	(D)	a/ 85,566
3329127170	Other types, including proportional.....	10	b/ 330,504	a/ 80,451	12	293,279	r/ 80,249
3329127180	Other nonaerospace-type hydraulic valves, including stack and logic.....	19	a/ 2,782,319	a/ 294,038	19	2,956,922	316,478
3329129	Nonaerospace type pneumatic directional control valves.....	(X)	19,899,981	532,805	(X)	20,194,117	603,169
3329129110	Manual.....	28	c/ 4,243,433	b/ 72,464	28	c/ 4,847,453	b/ 77,349
	Solenoid:						
3329129120	Under 1/8 inch port diameter.....	12	a/ 8,953,936	b/ 114,587	12	a/ 5,787,704	b/ 124,759
	1/8 inch up to and including 1/4 inch port diameter:						
3329129130	3-way types.....	18	1,312,240	49,517	16	b/ 1,842,436	58,520
3329129140	4-way types.....	18	a/ 1,946,773	a/ 97,593	17	c/ 3,773,926	a/ 130,707
	Over 1/4 inch port diameter:						
3329129150	3-way types.....	17	558,542	a/ 46,475	16	a/ 554,095	a/ 50,479
3329129160	4-way types.....	17	b/ 1,107,368	b/ 79,703	16	c/ 1,515,102	b/ 99,341
3329129170	All other types.....	5	221,213	30,294	5	c/ 182,290	c/ 20,196
3329129180	Mechanical, remote pilot, and all other types.....	22	b/ 1,556,476	b/ 42,172	21	c/ 1,691,111	b/ r/ 41,818
332912B	Nonaerospace type pneumatic valves (except directional control) 1/.....	(X)	8,470,086	232,295	(X)	8,739,337	r/ 220,175
332912B110	Filter-regulator combination units, integral types.....	9	662,773	17,925	8	643,477	r/ 17,210
332912B120	Other FRs and filter-regulator-lubricator combo units.....	10	(D)	(D)	10	a/ r/ 121,432	a/ r/ 8,410
332912B130	Regulators, sold separately.....	10	a/ 568,749	a/ 16,128	10	a/ r/ 626,967	a/ r/ 16,321
332912B140	Flow control valves.....	21	a/ 3,970,812	116,466	23	a/ 4,149,314	r/ 103,478
332912C000	Nonaerospace-type pneumatic valves for non-motion control applications.....	2	(D)	(D)	(S)	(S)	(S)
332912B150	Check, shuttle, exhaust, needle, and all other types.....	23	a/ 3,151,110	a/ 73,608	24	b/ 3,198,147	b/ 74,756
3329121	Aerospace type hydraulic fluid power valves.....	(X)	2,037,678	511,460	(X)	1,919,127	481,291
	2-, 3-, and 4-way directional control valves:						
3329121110	Manually or mechanically operated.....	16	(D)	c/ 117,067	16	(D)	c/ 110,444
3329121120	Solenoid operated.....	21	(D)	c/ 85,253	21	(D)	b/ 79,169
3329121130	Motor operated.....	7	(D)	b/ 16,709	7	(D)	a/ 12,538
3329121140	Electrohydraulic servovalves.....	9	c/ 95,726	c/ 152,059	8	(D)	160,637
3329121150	Flow, pressure, and other types of hydraulic valves.....	22	c/ 559,008	b/ 140,372	22	c/ 478,760	b/ r/ 118,503
3329123	Aerospace type pneumatic fluid power valves.....	(X)	505,367	358,839	(X)	r/ 453,605	334,458
3329123110	Pneumatic valves (all types).....	22	b/ 505,367	a/ 358,839	22	b/ r/ 453,605	a/ 334,458
332912D	Parts for fluid power valves.....	(X)	(X)	200,742	(X)	(X)	193,590
332912D110	Parts for nonaerospace type hydraulic and pneumatic valves, sold separately.....	43	(X)	a/ 140,575	46	(X)	(D)
332912D120	Parts for aerospace type hydraulic and pneumatic valves, sold separately.....	14	(X)	a/ 60,167	15	(X)	(D)
332912H	Nonaerospace type flared (metal) fittings and couplings for, and assemblies of tubing used in, fluid power transfer systems.....	(X)	(X)	426,657	(X)	(X)	r/ 490,776
332912H110	Flared fittings:						
	Brass and bronze (SAE 45 degrees and 37						

	degrees).....	11	(X)	70,745	13	(X)	b/ t/	116,827
332912H120	Carbon steel (JIC 37 degrees).....	11	(X)	212,649	13	(X)	b/ t/	228,728
332912H130	Other, including alloy steel.....	11	(X) c/	61,058	12	(X)		57,540
332912H140	Assemblies of tubing.....	11	(X) b/	47,729	10	(X)		46,245
332912H150	Assemblies of tubing and hose.....	6	(X)	34,476	7	(X)		41,436
332912J	Nonaerospace type flareless fittings and couplings, including nonmetal fittings, used in fluid power transfer systems.....	(X)	(X)	548,697	(X)	(X)		561,373
	Metal types:							
332912J110	Brass and bronze.....	18	(X) a/	98,990	19	(X)	t/	156,731
332912J120	Carbon steel.....	10	(X)	(D)	11	(X)		(D)
332912J130	Stainless steel.....	13	(X)	(D)	13	(X)		(D)
332912J140	Other, including alloy steel.....	6	(X)	(D)	8	(X)		(D)
332912J150	Nonmetal fittings, including plastic.....	8	(X)	(D)	9	(X)		(D)
332912L	Nonaerospace type hydraulic and pneumatic fittings and couplings for hose, and manifolds.....	(X)	(X)	775,632	(X)	(X)		844,968
332912L110	Permanent hose end fittings (crimped and swaged).....	18	(X)	241,564	21	(X)		268,489
332912L120	Hydraulic and pneumatic reusable end fittings.....	17	(X) b/	80,117	18	(X)		93,343
332912L130	Hydraulic quick connect and disconnect couplings.....	18	(X)	160,256	19	(X)		157,954
332912L140	Pneumatic quick connect and disconnect couplings.....	16	(X) c/	117,612	19	(X)	a/	123,279
332912L150	Manifolds and manifold assemblies for fluid power systems.....	15	(X) b/	83,828	16	(X)	b/	111,170
332912L160	All other, including steel adaptor, swivel, rotating, and extension fittings.....	16	(X) b/	92,255	17	(X)	a/	90,733
332912N	Nonaerospace type hydraulic and pneumatic assemblies of hose 1/.....	(X)	(X)	380,026	(X)	(X)		400,736
332912N110	Assemblies with permanent end fittings.....	21	(X)	308,611	22	(X)		320,430
332912N120	Assemblies with reusable end fittings.....	9	(X)	(D)	9	(X)		80,306
332912N130	Nonaerospace-type hydraulic and pneumatic bulk hose.....	4	(X)	(D)	(S)	(S)		(S)
332912F	Aerospace-type hydraulic and pneumatic hose or tube end fittings and assemblies and manifolds.....	(X)	(X)	773,056	(X)	(X)		727,274
332912F110	Assemblies of hose and/or tubing.....	9	(X)	(D)	14	(X)		(D)
332912F120	Quick connect, rotating, swivel, and extension							
332912F125	Hose and/or tube fittings, all types.....	17	(X)	528,172	(N/A)	(N/A)		(N/A)
332912F130	Manifolds for aerospace hydraulic systems.....	4	(X)	(D)	4	(X)		(D)
3339993	Nonaerospace type filters for hydraulic fluid power systems.....	(X)	(X)	422,321	(X)	(X)		390,422
	Hydraulic fluid filter assemblies, with or without filter element installed:							
3339993010	Low pressure (below 301 psi).....	18 a/	861,741	26,870	17	911,149	t/	27,029
3339993020	Medium pressure (301 to 2,999 psi).....	12	1,383,591 a/	46,721	10 a/	637,646 a/	t/	46,331
3339993030	High pressure (3,000 psi and above).....	11	77,095	13,377	11	100,396		14,024
	Filter replacement elements:							
3339993040	Reusable (cleanable) type.....	9	649,143 a/	10,704	9	619,519 a/		9,864
3339993050	Nonreusable type.....	19 a/	17,590,594 a/	277,602	19	15,659,284	t/	250,779
3339993060	Strainers and separators, filter parts, and accessories.....	15	(X)	47,047	13	(X)	t/	42,395
3339994	Nonaerospace type filters for pneumatic fluid power systems.....	(X)	(X)	112,821	(X)	(X)		96,907
	Air supply filter assemblies and filter replacement elements, excluding those shipped as part of a FR or FRL combo unit:							
3339994010	Coalescing types, including elements sold separately.....	11	(X)	72,268	13	(X)		57,152
3339994020	Other types, including elements sold separately.....	9	(X) b/	12,775	9	(X)	a/	12,357
3339994030	Air exhaust mufflers, diffusers, filter parts, and air preparation accessories.....	11	(X)	27,778	10	(X)	a/	27,398
3339996	Aerospace type hydraulic and pneumatic filters.....	(X)	(X)	99,956	(X)	(X)		111,838
3339996010	Hydraulic.....	6	(X)	78,977	6	(X)		(D)
3339996020	Pneumatic.....	4	(X)	20,979	4	(X)		(D)
3339998 pt.	Compressed air and gas dryers, and lubricators.....	(X)	(D)	55,041	(X)	(D)		63,807
	Compressed air and gas dryers:							
3339998A00	Compressed air and gas dryers.....	5	(D) a/	53,057	6	(D)	c/	61,735
3339998880	Lubricators for pneumatic systems, sold separately.....	5	(D)	1,984	5	(D)		2,072
3339951	Nonaerospace type hydraulic fluid power cylinders and actuators, linear and rotary.....	(X)	4,404,328	1,537,221	(X)	4,897,872		1,537,297
	Hydraulic cylinders, excluding electrohydraulic:							
	Tie-rod types:							
	Standard NFPA and JIC tie-rod types:							
3339951110	Less than 1,500 psi.....	20	174,053	76,171	20	198,007		71,080
3339951120	1,500 to 3,000 psi.....	19 a/	167,007 b/	111,235	18 a/	164,815 b/		106,033

3339951130	Greater than 3,000 psi.....	6	(D)	c/	7,211	6	(D)	c/	5,901
3339951140	Other tie-rod types.....	15	186,721		26,585	14	193,779		24,597
3339951150	Threaded/weld fused combination.....	51	b/ 3,185,891	a/	844,480	50	b/ 3,523,011		876,266
3339951160	Telescoping.....	24	118,872		170,434	22	124,015		170,516
3339951170	Mill type.....	12	(D)	c/	41,156	13	(D)		44,952
3339951180	Other, including those threaded at both ends.....	16	425,625		149,302	16	564,854		147,844
3339951190	Electrohydraulic types.....	9	2,713		9,065	8	r/ 2,328		7,148
33399511A0	Hydraulic rotary actuators.....	10	91,541		101,582	11	66,778		82,960
3339953	Nonaerospace type pneumatic fluid power cylinders and actuators, linear and rotary.....	(X)	5,820,725		437,825	(X)	5,506,192		454,048
	NFPA interchangeable cylinders:								
3339953110	Steel.....	17	353,324		74,185	15	a/ 243,295		70,781
	Aluminum:								
3339953120	Less than 1-1/2 inch bore size.....	8	b/ 54,333	b/	1,877	8	b/ 27,021	b/	2,043
3339953130	1-1/2 inch bore size and over.....	17	370,260		46,788	16	268,578		45,448
3339953140	Rodless cylinders.....	10	131,740		37,941	10	107,881	a/	36,968
	Other pneumatic cylinders:								
3339953150	Less than 1-1/2 inch bore size.....	23	a/ 3,693,969		154,986	21	a/ 3,573,120		166,875
3339953160	1-1/2 inch bore size and over.....	29	1,108,582		97,935	29	1,189,726		108,723
3339953170	Pneumatic rotary actuators.....	14	108,517		24,113	12	a/ 96,571	a/	23,210
3339955	Parts for nonaerospace type hydraulic and pneumatic fluid power cylinders, actuators, and related items, n.e.c.	(X)	(X)		603,951	(X)	(X)		562,771
3339955110	Accumulators (bladder, piston, and other types).....	17	a/ 328,762	a/	129,451	15	a/ 273,138	a/	100,780
3339955120	Shock absorbers, not for vehicle suspension, and cushions (hydraulic and pneumatic).....	10	925,299	b/	98,297	11	r/ 960,606		93,142
3339955130	Reservoirs, intensifiers, and other devices for fluid energy absorption and/or storage.....	13	(D)	c/	5,715	14	(D)	c/	6,247
3339955140	Parts for nonaerospace type hydraulic and pneumatic cylinders, actuators, accumulators, cushions, and nonvehicular shock absorbers, sold separately.....	51	(X)		370,488	52	(X)		362,602
3339957	Aerospace type fluid power cylinders and actuators, hydraulic and pneumatic.....	(X)	(X)		1,453,895	(X)	(X)		1,366,067
	Hydraulic servo-actuator assemblies (linear and rotary):								
3339957110	Mechanical input.....	9	b/ 93,304	c/	563,544	10	a/ 72,489		521,644
3339957120	Electrical input.....	6	b/ 24,221	c/	398,269	6	a/ 24,776		388,351
3339957130	Combination input.....	4	(D)		(D)	4	(D)		(D)
	Hydraulic utility actuators:								
3339957140	Linear actuators (cylinders).....	11	a/ 62,265	b/	92,517	11	a/ 48,062	b/	70,830
3339957150	Rotary actuators (limited rotation).....	2	(D)		(D)	2	(D)		(D)
3339957160	Shock absorbers, snubbers, and cushions, all types, excluding oleo strut assemblies.....	7	(D)		(D)	6	(D)		(D)
3339957170	Pneumatic actuators (linear and rotary).....	7	b/ 66,915	a/	59,279	8	a/ r/ 71,215	a/ r/	54,028
3339957180	Accumulators (bladder, piston, and other types).....	11	(D)	b/	30,191	11	(D)	a/	29,663
3339957190	Reservoirs, intensifiers, and other devices for fluid energy absorption and/or storage.....	6	c/ 1,999	b/	24,023	6	1,577		21,371
33399571A0	Other aerospace type fluid power cylinders, rotary actuators, cushions, and related items, n.e.c.	4	(X)		3,553	4	(X)	t/	2,811
3339955150	Parts for aerospace type hydraulic and pneumatic cylinders, actuators, accumulators, cushions, and related items, sold separately.....	11	(X)	b/	66,467	11	(X)	a/	69,019
3339961	Nonaerospace type reciprocating pumps.....	(X)	5,136,837		894,893	(X)	4,967,617		804,142
	Axial piston:								
	Variable displacement types:								
3339961110	Closed loop.....	13	(D)	a/	561,781	13	4,566,772		561,894
3339961120	Open loop.....	13	(D)	a/	317,493	13	a/ 362,654		225,424
3339961130	Fixed displacement types.....	6	18,612		12,571	9	(D)		(D)
3339961140	Radial piston types.....	3	(D)	a/	3,048	2	(D)		(D)
3339963	Nonaerospace type rotary and other fluid power pumps.....	(X)	5,027,049		647,140	(X)	5,368,920		698,929
	Gear type:								
3339963110	Internal gear type, including gerotors.....	16	(D)	b/	279,306	17	(D)	c/	280,830
3339963120	External gear type.....	11	a/ 1,355,056	a/	276,914	12	a/ 2,033,402	a/	323,261
	Vane type:								
3339963150	Fixed and variable displacement.....	7	(D)	a/	90,920	7	(D)		94,838
3339965	Nonaerospace type fluid power motors.....	(X)	(X)		621,073	(X)	(X)		566,193
3339965110	Pneumatic (air) motors.....	2	(D)		(D)	3	(D)		(D)
	Hydraulic motors:								
	Gear type:								
3339965120	Internal types, excluding gerotors.....	8	(D)		126,631	9	(D)		107,203
3339965130	Gerotor types.....	6	c/ 2,090,430		268,983	5	c/ 1,918,655		241,701
3339965140	External.....	6	a/ 136,500	a/	18,246	6	127,133	a/	15,798
3339965150	Vane types, fixed and variable.....	6	13,507		16,738	6	b/ 14,600	a/	15,682
3339965160	Radial piston types, fixed and variable.....	4	(D)		(D)	4	(D)		(D)
	Axial piston types:								
3339965170	Fixed displacement.....	8	93,580		44,870	8	r/ 108,849		47,970

3339965180	Variable displacement.....	6	(D)	(D)	10	186,689	67,929		
3339965190	Prime movers shipped with pumps or sold separately.....	3	(X)	(D)	3	(X)	(D)		
3339967	Aerospace type fluid power pumps and motors.....	(X)	105,768	344,201	(X)	158,503	329,487		
	Hydraulic pumps:								
3339967110	Fixed and variable displacement types.....	8	b/	32,046	c/	183,293	8	28,308	137,678
3339967120	Pump/electric motor assemblies, fixed and variable displacement types.....	9	(D)	c/	131,074	9	(D)	109,418	
3339967130	Other pump packages, n.e.c.	5	(D)	(D)	5	(D)	(D)		
	Motors:								
3339967170	Aerospace-type fluid power motors, all kinds.....	5	(D)	(D)	5	(D)	(D)		
3339969	Parts for fluid power pumps, motors, and hydro- static transmissions.....	(X)	(X)	306,582	(X)	(X)	331,751		
	Hydraulic:								
3339969110	Nonaerospace.....	30	(X)	b/	243,084	33	(X)	a/	255,382
3339969120	Aerospace.....	5	(X)	(D)	5	(X)	(X)	(D)	
	Pneumatic:								
3339969130	Nonaerospace.....	1	(X)	(D)	2	(X)	(D)		
3339969140	Aerospace.....	2	(X)	(D)	2	(X)	(D)		
333996A000	Nonaerospace hydrostatic transmissions.....	5	4,462,442	3,232,454	(S)	(S)	(S)		
333996B000	Nonaerospace hydraulic power units.....	5	(D)	(D)	(S)	(S)	(S)		

D Withheld to avoid disclosing data for individual companies. n.e.c. Not elsewhere classified. r/Revised by 5 percent or more from previously published data. X Not applicable. N/A Not available. S Does not meet publication standards. pt. Part.

1/Product category total does not include data suppressed by an S.

Note: Percent of estimation for each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3. Shipments, Exports, and Imports of Fluid Power Products: 2007
[Quantity in units. Value in thousands of dollars]

Product code	Product description	Manufacturers' shipments		Export shipments 1/		Import shipments 2/	
		Quantity	Value	Quantity	Value	Quantity	Value
3329121, 125, 127	Hydraulic fluid power valves.....	33,280,903	1,946,474	4,741,433	513,637	58,143,009	525,874
3329123, 129, 12B	Pneumatic fluid power valves.....	28,875,434	1,123,939	2,978,816	231,775	38,588,629	367,535
332912D	Parts for fluid power valves: hydraulic, pneumatic, all types.....	(X)	200,742	(X)	170,246	(X)	357,149
3339951 pt., 957 pt.	Hydraulic cylinders and hydraulic actuators (except electrohydraulic types).....	4,598,656	2,736,012	350,653	205,979	7,665,639	641,045
3339953 pt.	Pneumatic cylinders (tie-rod types).....	777,917	122,850	2,671	6,875	107,402	15,641
3339953 pt., 957 pt.	Pneumatic cylinders (except tie-rod types).....	5,109,723	374,254	477,600	54,184	2,787,409	90,611
3339955 pt., 957 pt.	Fluid power accumulators, hydraulic and pneumatic, and other hydraulic, pneumatic or combination devices for fluid energy absorption and/or storage, all types.....	(X)	255,459	216,047	222,705	789,481	190,867
3339965 pt., 967 pt.	Hydraulic motors, all types.....	2,852,503	492,415	284,983	131,863	485,295	350,649
3339961, 963, 967 pt.	Hydraulic pumps, all types.....	(D)	1,869,491	4,226,531	698,216	6,792,804	740,617
3339969	Parts for fluid power pumps and motors.....	(X)	306,582	(X)	442,190	(X)	731,281

D Withheld to avoid disclosing data for individual companies. pt. Part. X Not applicable.

1/Source: Census Bureau report, EM 545, U.S. Exports.

2/Source: Census Bureau report, IM 145, U.S. Imports for Consumption.

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2007

Product code	Product description	Export code 1/	Import code 2/
3329121, 125, 127	Hydraulic fluid power valves.....	8481.10.0020	8481.10.0020
		8481.20.0010	8481.20.0010
		8481.20.0020	8481.20.0020
		8481.20.0030	8481.20.0030
		8481.20.0040	8481.20.0040
		8481.20.0050	8481.20.0050
3329123, 129, 12B	Pneumatic fluid power valves.....	8481.10.0040	8481.10.0040
		8481.10.0060	8481.10.0060
		8481.20.0060	8481.20.0060
		8481.20.0070	8481.20.0070
		8481.20.0080	8481.20.0080
332912D	Parts for fluid power valves: hydraulic, pneumatic, all types.....	8481.90.9010	8481.90.9020 8481.90.9040
3339951 pt., 957 pt.	Hydraulic cylinders and hydraulic actuators (except electrohydraulic types).....	8412.21.0015	8412.21.0015
		8412.21.0030	8412.21.0030
		8412.21.0045	8412.21.0045
		8412.21.0060	8412.21.0060
		8412.21.0075	8412.21.0075
3339953 pt.	Pneumatic cylinders (tie-rod types).....	8412.31.0040	8412.31.0040
3339953 pt., 957 pt.	Pneumatic cylinders (except tie-rod types).....	8412.31.0080	8412.31.0080
3339955 pt., 957 pt.	Fluid power accumulators, hydraulic and pneumatic, and other hydraulic, pneumatic or combination devices for fluid energy absorption and/or storage, all types.....	8412.29.8075	8412.29.8075
		8412.39.0080	8412.39.0080
		8479.89.9865	8479.89.9865
3339965 pt., 967 pt.	Hydraulic motors, all types.....	8412.29.8015	8412.29.8015
		8412.29.8030	8412.29.8030
		8412.29.8045	8412.29.8045
		8412.29.8060	8412.29.8060
3339961, 963, 967 pt.	Hydraulic pumps, all types.....	8413.50.0070	8413.50.0070
		8413.50.0080	8413.50.0080
		8413.60.0020	8413.60.0020
		8413.60.0030	8413.60.0030
		8413.60.0040	8413.60.0040
3339969	Parts for fluid power pumps and motors.....	8412.90.9005	8412.90.9005
		8412.90.9015	8412.90.9015
		8412.90.9025	8412.90.9025
		8412.90.9035	8412.90.9035
		8413.91.9050	8413.91.9050

pt. Part.

1/Source: 2006 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2006).

HISTORICAL NOTE

The Census Bureau has collected data on fluid power products since 1981.

Historical Current Industrial Reports data may be obtained from a Federal Depository Library. To locate a Federal Depository Library in your area, please visit <http://www.gpoaccess.gov/libraries.html>.