

ISC Statistics 2014 - International Fluid Power Statistics

National Home Sales, excluding aerospace

This data is only available to responding associations and their member companies and not meant for publication.

	CETOP area*	China	Japan	Taiwan	USA
HYDRAULICS	in 1.000 EUR	in 1.000 CNY	in 1.000 JPY	in 1.000 TWD	in 1.000 USD
<b>Valves</b>	1.798.634	7.854.063	66.643.000	2.358.632	1.604.265
<b>Pumps</b>	1.179.371	10.146.864	42.221.000	1.985.610	2.468.017
Reciprocating types (axial and radial piston)	786.892	2.585.499	30.152.000	631.785	1.365.570
Rotary types (gear, vane, orbital, screw and other types)	392.480	7.561.365	12.069.000	1.353.825	1.102.448
<b>Actuators</b>	1.799.245	18.854.630	97.450.000	1.224.627	3.690.320
Cylinders	1.158.208	12.927.495	41.721.000	722.530	2.632.084
Motors	612.435	4.463.645	53.762.000	416.373	978.671
Other actuators	28.601	1.463.490	1.967.000	85.724	79.565
Filters, including elements sold separately	417.375	926.877	7.500.000	160.018	799.400
Bulk connectors, bulk hose and assemblies (hose with connectors attached)	1.756.515	2.829.414	13.482.000	574.758	2.100.081
Accumulators	69.743	366.766	3.198.000	122.463	156.959
Other hydraulic products (see note)	879.108	2.926.980	6.372.000	938.881	1.929.259
Difference to ISC/CETOP Trend survey reporting	0	7.803.107	-13.482.000	-180.510	0
<b>Total Components Hydraulics*</b>	<b>7.899.991</b>	<b>51.708.701</b>	<b>223.384.000</b>	<b>7.184.479</b>	<b>12.748.302</b>
Assemblies	1.085.921	4.878.300	27.987.000	571.493	0
Electronic controls sold separately to fluid power	112.707			408.209	0
<b>Total Hydraulics</b>	<b>9.098.619</b>	<b>56.587.001</b>	<b>251.371.000</b>	<b>8.164.181</b>	<b>12.748.302</b>
*Among that: Electro-Hydraulics components	4.197		6.783.000		0
<b>PNEUMATICS</b>					
<b>Valves</b>	1.103.121	6.344.580	44.088.200	1.995.516	867.929
<b>Actuators</b>	984.690	7.786.530	65.069.175	2.136.168	926.673
Cylinders	944.281	7.171.298	62.420.531	1.864.875	834.675
Motors	40.409	615.232			-16.806 <sup>1)</sup>
Other actuators	0		2.648.644	271.293	108.805
FRs / FRLs, including components sold separately and air dryers	287.303	2.191.764	14.605.564	1.257.087	677.602
Bulk connectors, bulk hose and assemblies (hose with connectors attached)	423.130	1.365.046	6.309.107	1.731.791	692.076
Other pneumatic products (see note)	554.034	961.300	51.732.969	703.265	567.196
Difference to ISC/CETOP Trend survey reporting	0	2.032.000	0	0	0
<b>Total Components Pneumatics*</b>	<b>3.352.278</b>	<b>20.681.220</b>	<b>181.805.015</b>	<b>7.823.827</b>	<b>3.731.476</b>
Assemblies	121.469	576.780		703.265	0
Electronic controls sold separately to fluid power	13.795			263.725	0
<b>Total Pneumatics</b>	<b>3.487.542</b>	<b>21.258.000</b>	<b>181.805.015</b>	<b>8.790.817</b>	<b>3.731.476</b>
*Among that: Electro-Pneumatics components	141.354				
<b>Total Fluid power</b>	<b>12.586.161</b>	<b>77.845.001</b>	<b>433.176.015</b>	<b>16.954.998</b>	<b>16.479.778</b> <sup>2)</sup>

<b>Total Fluid power 2013</b>	12.711.517	75.043.001	404.728.000	16.241.265	15.358.791
<b>Total Hydraulics 2013</b>	9.397.843	55.043.001	237.600.000	8.071.360	12.432.513
<b>Total Pneumatics 2013</b>	3.313.674	20.000.000	167.128.000	8.169.905	2.926.278

Percentage of the national home sales covered by the association:

Hydraulics	80%	62%	90%	81%	85%
Pneumatics	85%	75%	97%	81%	65%

Increase/decrease <b>fluid power</b> in % 2014/2013 (national currency)	-1,0%	3,7%	7,0%	4,4%	7,3%
Increase/decrease <b>hydraulics</b> in % 2014/2013 (national currency)	-3,2%	2,8%	5,8%	1,2%	2,5%
Increase/decrease <b>pneumatics</b> in % 2014/2013 (national currency)	5,2%	6,3%	8,8%	7,6%	27,5%

\*CETOP area: Belgium, Czech Republic, Finland, France, Germany, Italy, Netherlands, Norway, Poland, Romania, Russia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

"Other hydraulic products" and "Other pneumatic products": includes manifolds, reservoirs, intensifiers, gauges, sensors, sealing devices and replacement parts.  
For pneumatic systems, please refer to the pneumatic assemblies category.

**ISC Statistics 2014 - International Fluid Power Statistics**
**National Home Sales, excluding aerospace**

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	CETOP area*	China	Japan	Taiwan	USA	Total
	in 1.000 EURO	in 1.000 EURO	in 1.000 EURO	in 1.000 EURO	in 1.000 EURO	in 1.000 EURO
<b>HYDRAULICS</b>						
<b>Valves</b>	1.798.634	959.486	474.970	58.633	1.207.577	4.499.299
<b>Pumps</b>	1.179.372	1.239.584	300.912	49.360	1.857.747	4.626.976
Reciprocating types (axial and radial piston)	786.892	315.856	214.896	15.705	1.027.903	2.361.252
Rotary types (gear, vane, orbital, screw and other types)	392.480	923.729	86.017	33.655	829.844	2.265.724
<b>Actuators</b>	1.799.244	2.303.362	694.534	30.443	2.777.810	7.605.392
Cylinders	1.158.208	1.579.278	297.349	17.961	1.981.245	5.034.041
Motors	612.435	545.298	383.166	10.351	736.674	2.287.923
Other actuators	28.601	178.786	14.019	2.131	59.891	283.428
<b>Filters, including elements sold separately</b>	417.375	113.231	53.453	3.978	601.732	1.189.769
<b>Bulk connectors, bulk hose and assemblies (hose with connectors attached)</b>	1.756.515	345.653	96.087	14.288	1.580.791	3.793.335
<b>Accumulators</b>	69.743	44.806	22.792	3.044	118.147	258.533
<b>Other hydraulic products (see note)</b>	879.108	357.572	45.414	23.340	1.452.208	2.757.642
<b>Difference to ISC/CETOP Trend survey reporting</b>		953.261	-96.087	-4.487		852.686
<b>Total Components Hydraulics*</b>	7.899.991	6.316.955	1.592.075	178.598	9.596.012	25.583.631
<b>Assemblies</b>	1.085.921	595.954	199.465	14.207		1.895.547
<b>Electronic controls sold separately to fluid power</b>	112.707			10.148		122.855
<b>Total Hydraulics</b>	9.098.619	6.912.909	1.791.540	202.953	9.596.012	27.602.033
<b>*Among that: Electro-Hydraulics components</b>	4.197		48.343			52.540
<b>PNEUMATICS</b>						
<b>Valves</b>	1.103.121	775.081	314.220	49.606	653.315	2.895.343
<b>Actuators</b>	984.690	951.236	463.753	53.103	697.534	3.150.315
Cylinders	944.281	876.076	444.876	46.359	628.284	2.939.876
Motors	40.409	75.159			-12.651 <sup>1)</sup>	102.918
Other actuators			18.877	6.744	81.901	107.522
<b>FRs / FRLs, including components sold separately and air dryers</b>	287.303	267.755	104.095	31.250	510.050	1.200.453
<b>Bulk connectors, bulk hose and assemblies (hose with connectors attached)</b>	423.130	166.760	44.965	43.050	520.945	1.198.851
<b>Other pneumatic products (see note)</b>	554.034	117.437	368.705	17.482	426.945	1.484.603
<b>Difference to ISC/CETOP Trend survey reporting</b>		248.238				248.238
<b>Total Components Pneumatics*</b>	3.352.278	2.526.506	1.295.738	194.492	2.808.789	10.177.803
<b>Assemblies</b>	121.469	70.462		17.482		209.413
<b>Electronic controls sold separately to fluid power</b>	13.795			6.556		20.351
<b>Total Pneumatics</b>	3.487.542	2.596.968	1.295.738	218.530	2.808.789	10.407.567
<b>*Among that: Electro-Pneumatics components</b>	141.354					141.354
<b>Total Fluid power</b>	12.586.161	9.509.877	3.087.278	421.483	12.404.801 <sup>2)</sup>	38.009.601

Percentage of the national home sales covered by the association:

Hydraulics	80%	62%	90%	81%	85%
Pneumatics	85%	75%	97%	81%	65%

\*\*1 EUR =                      8,1857                      140,31                      40,23                      1,3285  
    CNY                                      JPY                                      TWD                                      USD

\*\* Source: Euro-reference rate of the European Central Bank: Annual average of 2014

\*CETOP area: Belgium, Czech Republic, Finland, France, Germany, Italy, Netherlands, Norway, Poland, Romania, Russia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

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National Home Sales, excluding aerospace

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	CETOP area* in 1.000 USD	China in 1.000 USD	Japan in 1.000 USD	Taiwan in 1.000 USD	USA in 1.000 USD	Total in 1.000 USD
<b>HYDRAULICS</b>						
<b>Valves</b>	2.389.485	1.274.677	630.253	77.925	1.604.265	5.976.606
<b>Pumps</b>	1.566.796	1.646.788	399.291	65.601	2.468.017	6.146.492
Reciprocating types (axial and radial piston)	1.045.386	419.614	285.152	20.873	1.365.570	3.136.595
Rotary types (gear, vane, orbital, screw and other types)	521.410	1.227.173	114.138	44.728	1.102.448	3.009.897
<b>Actuators</b>	2.390.296	3.060.016	921.600	40.459	3.690.320	10.102.692
Cylinders	1.538.679	2.098.071	394.562	23.871	2.632.084	6.687.267
Motors	813.620	724.428	508.436	13.756	978.671	3.038.911
Other actuators	37.996	237.517	18.602	2.832	79.565	376.513
<b>Filters, including elements sold separately</b>	554.483	150.428	70.929	5.287	799.400	1.580.526
<b>Bulk connectors, bulk hose and assemblies (hose with connectors attached)</b>	2.333.530	459.200	127.501	18.989	2.100.081	5.039.302
<b>Accumulators</b>	92.654	59.524	30.244	4.046	156.959	343.427
<b>Other hydraulic products (see note)</b>	1.167.895	475.035	60.261	31.019	1.929.259	3.663.469
<b>Difference to ISC/CETOP Trend survey reporting</b>		1.266.407	-127.501	-5.964	0	1.132.942
<b>Total Components Hydraulics*</b>	10.495.138	8.392.075	2.112.578	237.362	12.748.302	33.985.455
<b>Assemblies</b>	1.442.646	791.725	264.678	18.881	0	2.517.929
<b>Electronic controls sold separately to fluid power</b>	149.731	0	0	13.486	0	163.218
<b>Total Hydraulics</b>	12.087.515	9.183.800	2.377.256	269.730	12.748.302	36.666.602
<b>*Among that: Electro-Hydraulics components</b>	5.576	0	64.148	0	0	69.724
<b>PNEUMATICS</b>						
<b>Valves</b>	1.465.496	1.029.695	416.949	65.928	867.929	3.845.997
<b>Actuators</b>	1.308.161	1.263.717	615.370	70.575	926.673	4.184.495
Cylinders	1.254.477	1.163.867	590.321	61.612	834.675	3.904.953
Motors	53.683	99.849	0	0	-16.806 <sup>1)</sup>	136.726
Other actuators		0	25.049	8.963	108.805	142.817
<b>FRs / FRLs, including components sold separately and air dryers</b>	381.682	355.713	138.127	41.532	677.602	1.594.656
<b>Bulk connectors, bulk hose and assemblies (hose with connectors attached)</b>	562.128	221.540	59.666	57.215	692.076	1.592.626
<b>Other pneumatic products (see note)</b>	736.034	156.014	489.247	23.235	567.196	1.971.727
<b>Difference to ISC/CETOP Trend survey reporting</b>		329.784	0	0	0	329.784
<b>Total Components Pneumatics*</b>	4.453.501	3.356.463	1.719.359	258.485	3.731.476	13.519.285
<b>Assemblies</b>	161.372	93.609	0	23.235	0	278.215
<b>Electronic controls sold separately to fluid power</b>	18.327	0	0	8.713	0	27.040
<b>Total Pneumatics</b>	4.633.200	3.450.072	1.719.359	290.433	3.731.476	13.824.539
<b>*Among that: Electro-Pneumatics components</b>	187.789	0	0	0	0	187.789
<b>Total Fluid power</b>	16.720.715	12.633.872	4.096.614	560.162	16.479.778 <sup>2)</sup>	50.491.142

Percentage of the national home sales covered by the association:

Hydraulics	80%	62%	90%	81%	85%
Pneumatics	85%	75%	97%	81%	65%

\*\*1 USD =      0,7527                  6,1616                  105,7400                  30,2680  
                          EUR                                  CNY                                  JPY                                  TWD

\*\* Source: European Central Bank: Annual average of 2014

\*CETOP area: Belgium, Czech Republic, Finland, France, Germany, Italy, Netherlands, Norway, Poland, Romania, Russia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

### Explanations concerning the 2014 ISC data

Countries	Notes on the summary data
USA	<p>1) Exports of Pneumatic Motors was larger than Imports of Pneumatic Motors. Add in the fact that Pneumatic Motors production total in the U.S. isn't a very large figure to begin with and that is why we ended up with a negative figure when calculating consumption of Pneumatic Motors.</p> <p>2) Hydraulics and pneumatics data reported to this statistics is actual data for 2014. Totals reported to the Quarterly Trend Survey were estimates.</p>

## Description of calculation the national home sales (Consumption)

### **CETOP, General Secretariat**

Domestic turnover of member companies by products plus estimation for companies not participating in the surveys.

### **China, CHPSA**

Counted on sales

### **Japan, JFPA**

Sold in our country, either from domestic production or from imports, whole market, not only member companies.

### **Taiwan, TFPA**

Production + Imports - Exports

### **USA, NFPA**

U.S. Production minus U.S. Exports plus U.S. Imports