

## Thermo Fisher (TMO)

**\$486.08** (As of 06/17/21)

Price Target (6-12 Months): **\$511.00**

Long Term: 6-12 Months

**Zacks Recommendation:**

**Neutral**

(Since: 12/21/20)

Prior Recommendation: Outperform

Short Term: 1-3 Months

**Zacks Rank:** (1-5)

**3-Hold**

Zacks Style Scores:

VGM:A

Value: B

Growth: A

Momentum: B

## Summary

Thermo Fisher has outperformed its industry in the past year. The company delivered an outstanding performance banking on accelerated growth in Base business in the first quarter 2021. Immunodiagnostics business returned to strong growth in the quarter. Demand for COVID-19 testing solutions was very strong. The company generated \$2.9 billion of COVID-19 response revenue. In terms of end market, pharma and biotech registered growth on robust performance in bioproduction and pharma services. In diagnostics and healthcare, the company experienced high demand for COVID-19 testing. A strong capital structure looks encouraging. Notably, the company ended the first quarter with better-than-expected numbers. However, the pandemic has massively disrupted the global supply chain. Foreign currency fluctuations and competitive landscape are major downsides.

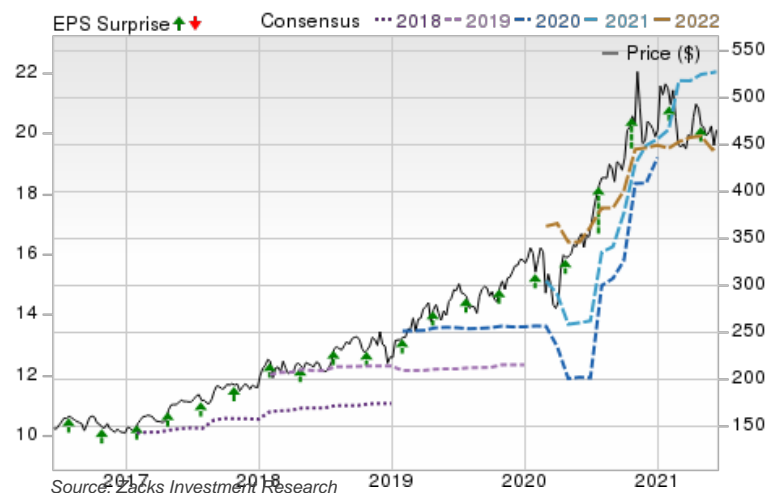
## Data Overview

52-Week High-Low	\$532.57 - \$343.19
20-Day Average Volume (Shares)	2,088,990
Market Cap	\$191.0 B
Year-To-Date Price Change	4.4%
Beta	0.76
Dividend / Dividend Yield	\$1.04 / 0.2%
Industry	Medical - Instruments
Zacks Industry Rank	Bottom 18% (207 out of 252)

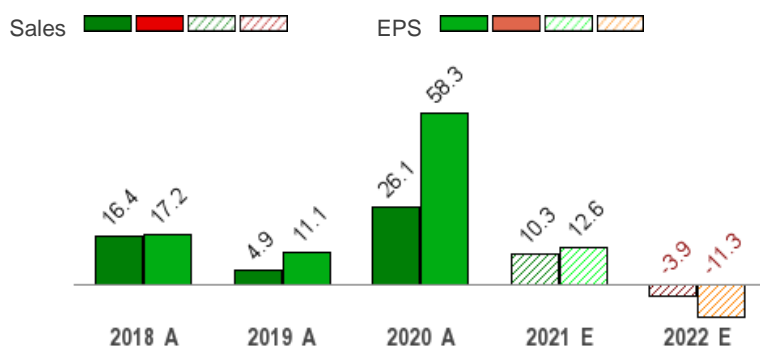
Last EPS Surprise	7.8%
Last Sales Surprise	2.0%
EPS F1 Estimate 4-Week Change	0.1%
Expected Report Date	07/28/2021
Earnings ESP	-1.0%

P/E TTM	20.4
P/E F1	22.1
PEG F1	1.8
P/S TTM	5.3

## Price, Consensus & Surprise



## Sales and EPS Growth Rates (Y/Y %)



## Sales Estimates (millions of \$)

	Q1	Q2	Q3	Q4	Annual*
2022	7,942 E	8,100 E	8,437 E	9,029 E	34,160 E
2021	9,906 A	8,829 E	8,328 E	8,528 E	35,532 E
2020	6,230 A	6,917 A	8,521 A	10,550 A	32,218 A

## EPS Estimates

	Q1	Q2	Q3	Q4	Annual*
2022	\$4.79 E	\$4.62 E	\$4.83 E	\$5.16 E	\$19.52 E
2021	\$7.21 A	\$5.58 E	\$4.69 E	\$4.60 E	\$22.02 E
2020	\$2.94 A	\$3.89 A	\$5.63 A	\$7.09 A	\$19.55 A

\*Quarterly figures may not add up to annual.

The data in the charts and tables, including the Zacks Consensus EPS and sales estimates, is as of 06/17/2021. The report's text and the

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analyst-provided price target are as of 06/18/2021.

## Overview

Headquartered in Waltham, MA, Thermo Fisher Scientific is a scientific instrument maker and a world leader in serving science. In Nov 2006, Thermo Fisher Scientific, Inc. was formed through the merger of Thermo Electron Corporation with Fisher Scientific International Inc. On Feb 3, 2014, Thermo Fisher acquired Life Technologies Corporation.

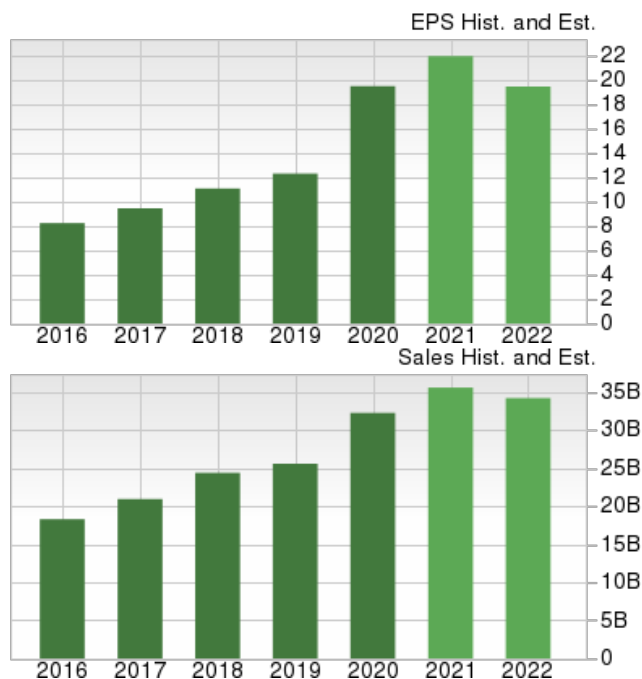
Following the acquisition, the new reporting segments are:

**Life Sciences Solutions Segment:** This segment (50.2% of total revenues in 2020) was added post the acquisition of Life Technologies. It incorporates majority of the former Life Technologies and Thermo Fisher's Biosciences businesses. In 2020, this business registered growth of 77% from 2019.

**Analytical Instruments:** Formerly known as Analytical Technology, this segment (15.8%) has been renamed in order to reflect the transfer of the bioprocess production business to the newly formed Life Sciences Solutions Segment. In 2020, this business registered decline of 7.2% from 2019.

**Specialty Diagnostics (SD):** This segment (25.6%), formed after the acquisition of Phadia, serves customers in healthcare and clinical laboratories with a portfolio of diagnostic test kits, reagents and instruments used to increase the speed and accuracy of diagnoses to improve patient care. In 2020, this business registered growth of 44% from 2019.

**Laboratory Products and Services (LPS):** This segment (10.4%) serves laboratory customers with equipment and consumables that improve productivity and a range of BioPharma outsourcing services. This segment also includes the company's research and safety market customer channels. Post-acquisition, Thermo Fisher's Global Chemicals business has moved to the Laboratory Products and Services Segment. In 2020, this business registered growth of 28% from 2019.



## Reasons To Buy:

▲ **Share Price Performance:** Thermo Fisher has outperformed its industry in the past year. The stock improved 37.8% compared to the industry's 19.1% growth. Thermo Fisher ended the first quarter of 2021 with better-than-expected numbers. The company delivered an outstanding quarterly performance with exceptionally strong year-over-year revenue growth across each of its reporting segments banking on accelerated growth in Base business. Immunodiagnostics business returned to strong growth in the quarter. Demand for COVID-19 testing solutions was very strong. The company generated \$2.9 billion of COVID-19 response revenue in the first quarter.

With several takeovers including Advanced Bioprocessing buyout from BD and Patheon, Thermo Fisher is expanding inorganic growth profile. The company's strong focus on emerging market is also encouraging.

In terms of end market, pharma and biotech registered 35% growth in the first quarter driven by growth across all businesses including bioproduction, pharma services, biosciences, chromatography and mass spectrometry and in research and safety market channel. In academic and government, the company grew 20% driven by robust customer activity globally. In industrial and applied, Thermo Fisher grew in the low double digits driven by strong growth across all of instruments businesses. In diagnostics and healthcare, the company experienced robust demand for COVID-19 testing and was able to deliver 150% growth.

▲ **COVID-19-Related Progress:** In the first quarter, once again Thermo Fisher played a very meaningful role in fighting COVID-19 globally. The company generated \$2.9 billion of COVID-19 response revenue in the quarter. Demand for PCR testing solutions was strong. Further, the company played a pivotal role in the development and production of vaccines and therapies. For 2021, Thermo Fisher earlier expected its role in supporting vaccines and therapies to represent \$1 billion in revenue. Based on the current flow of orders and capacity expansion speed, the company now expects to deliver \$1.5 billion in vaccine and therapy revenue in 2021.

Among significant product launches, the AerosolSense Sampler (a new air monitoring system to help facilities such as hospitals, schools and businesses identify the presence of in-air pathogens, including the virus that causes COVID-19) is to be noted. The company has also acquired Mesa Biotech, which adds simple and rapid PCR testing to decentralized settings, including doctors' offices, pharmacies and to support a number of back-to-life applications. Customer demand is high for the company's PPI Business System. Thermo Fisher currently expects to generate \$200 million in 2021 from these capabilities.

▲ **Strength in End Markets:** In first-quarter 2021, Thermo Fisher witnessed strength in all four of its end markets categorized either by customer type or geography. Pharma and biotech registered 35% growth in the first quarter driven by growth across all businesses including bioproduction, pharma services, biosciences, chromatography and mass spectrometry and in research and safety market channel. In academic and government, the company grew 20% driven by robust customer activity globally. In particular, the company saw strong growth across a number of businesses including biosciences, chromatography and mass spectrometry and electron microscopy.

In industrial and applied, Thermo Fisher grew in the low double digits driven by strong growth across all of instruments businesses. In diagnostics and healthcare, the company experienced robust demand for COVID-19 testing and was able to deliver 150% growth. Demand for COVID-19 testing solutions was very strong. In base business, while demand is still below pre-pandemic levels, it was encouraging to see immunodiagnostics business returning to strong growth in the reported quarter.

▲ **Bioproduction Business on the Rise:** Thermo Fisher's Gibco Cell Culture for Bioprocessing, Chromatography and Protein Purification are already in high demand. The company has of let made a series of development to augment Bioprocessing growth since then. In 2019, the company launched a scalable bioreactor workflow called Thermo Scientific TruBio Discovery Automation System. This apart, the company has made another major investment within this field with the acquisition of Brammer Bio, a viral vector manufacturing firm, helping pharma and biotech customers provide breakthrough gene and cell therapies to patients with rare diseases. Earlier to that, the purchased Advanced Bioprocessing business from BD which is expected to significantly expand the company's Life Sciences Solutions line of offerings.

Thermo Fisher is currently expanding its bioproduction purification resin capacity, which is used in the mRNA manufacturing process. In the first quarter of 2021, in China, the company started shipping product from its new single-use facility in Suzhou, which localized the bioproduction manufacturing for biotech customers. The company's investment in bioproduction capabilities in Singapore had single-use capacity for pharma and biotech customers globally.

▲ **Focus on International Markets:** Thermo Fisher boasts strong international operations and has witnessed consistent growth in the Asia-Pacific and emerging markets. The company plans to continue to strengthen its foothold in emerging markets, such as China and India, and to translate this success to other high-priority opportunities in regions such as South Korea, Russia and Brazil. In the first quarter of 2021, all international region delivered robust year-over-year growth. North America, Europe and Asia Pacific all grew approximately 50%. China grew 60% and the rest of the world grew over 80% in the quarter.

In Dec 2020, Thermo Fisher announced its plans to further expand its footprint in North America and Europe for sterile drug product development and commercial manufacturing of critical medicines, therapies and vaccines. Among the Thermo Fisher sites currently being expanded are: Greenville, NC.; Swindon, U.K.; and Ferentino and Monza, Italy. These investments will add 15 development and cGMP commercial production lines. In addition, the company recently announced significant projects in Asia-Pacific, including a new sterile manufacturing facility in Singapore and a new integrated biologics and sterile drug development and manufacturing site in Hangzhou, China.

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The same month, the company announced the expansion of its pharma services footprint with two new state-of-the-art facilities in Germany. The new sites will bring much-needed clinical supply chain continuity and specialized cold chain and cryogenic expertise across Europe and globally. This decision came on the fact of Europe's growing prospects in terms of clinical supply chain and logistics. This market in Europe is expected to double by 2025 and more than triple by 2030. Approximately 4,000 clinical trials are conducted each year in Europe, which is 20% of the global clinical trials market.

▲ **Strong Liquidity, Solvency and Capital Structure:** Thermo Fisher is well capitalized having exited the first quarter of 2021 with cash and cash equivalents of \$5.58 billion compared with \$10.32 billion in the fourth quarter of 2020. The company finished the quarter with approximately \$18.65 billion of total debt compared to \$21.74 billion at the end of the fourth quarter.

Debt-to-capital at the end of the first quarter stands at 34.7%, a sequential decline from 35.6% in the fourth quarter.

The times interest earned for the company stands at 17.8%, representing a sequential increase from 14.1% at the end of the fourth quarter.

In the first quarter, Thermo Fisher returned significant capital to shareholders by repurchasing \$2 billion of shares and increasing dividend by 18%. The company's current payout ratio stands at a very low level of 3.9%, indicating sustainability of its current dividend payment. It also remains lower than each of the trailing four quarters' dividend payout ratio.

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## Reasons To Sell:

▼ **Exposure to Foreign Currency:** Thermo Fisher derives more than 50% of its revenues from the international market, which exposes it to fluctuations in foreign currency. In past several years, the company's earnings were affected significantly on headwind from foreign exchange.

▼ **Economic Uncertainty Continues to Hamper Growth:** Thermo Fisher's business depends heavily on general economic conditions. The company makes scientific instruments which are primarily of big ticket sizes and non-life-sustaining in nature. The company has been witnessing headwinds in the government and academic markets. Moreover, many countries in Europe are also going through a tough time that might impact their academic budgets. We remain cautious since growth could further moderate if the economic scenario worsens.

▼ **Tough Competitive Pressure:** On account of its diversified portfolio, Thermo Fisher faces different types of competitors including a broad range of manufacturers and third-party distributors. The competitive landscape is quite tough with changing technology and customer demands that require continuing research and development.

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Unfavorable macroeconomic conditions continue to weigh heavily on Thermo Fisher's stocks. Also competitive headwinds and currency fluctuations continue to pose a threat on the stock's value.

## Last Earnings Report

### Thermo Fisher Beats on Q1 Earnings on Growth In All Lines

Thermo Fisher's first-quarter 2021 adjusted earnings per share of \$7.21 beat the Zacks Consensus Estimate by 7.8%. The figure surged 145.2% year over year. The adjusted number excludes certain non-recurring expenses including asset amortization and restructuring costs.

On a GAAP basis, earnings per share were \$5.88 compared with \$1.97 a year ago.

Significant COVID-19 led business expansion including initiatives to scale up vaccine production and strong testing sales globally as well as the company's accelerated growth in base business contributed to such a stunning bottom-line performance.

Revenues in the quarter under review grossed \$9.91 billion, up 59% year over year. The top line exceeded the Zacks Consensus Estimate by 1.9%.

#### Quarter in Detail

Organic revenues in the reported quarter grew 53% year over year. While acquisition contributed 2% growth to the top line, favorable currency translation increased revenues by 4%.

Thermo Fisher operates under four business segments: Life Sciences Solutions, Analytical Instruments, Specialty Diagnostics, and Laboratory Products and Services.

Revenues at the Life Sciences Solutions segment (42.4% of total revenues) improved 137% year over year to \$4.20 billion while Analytical Instruments Segment sales (14%) rose 26% to \$1.39 billion.

Revenues at the Laboratory Products and Services segment (36.3%) rose 32% to \$3.60 billion. The Specialty Diagnostics segment (16.3%) recorded 69% year-over-year rise in revenues to \$1.62 billion.

Gross margin of 53.9% in the first quarter expanded 801 basis points (bps) year over year on 86.7% rise in gross profits. Adjusted operating margin for the quarter came in at 35.2%, reflecting an expansion of 1322 bps.

The company exited the first quarter with cash and cash equivalents of \$5.58 billion compared with \$10.33 billion at the end of the fourth quarter. First-quarter net cash provided by operating activities was \$1.99 billion compared with \$356 million a year ago.

#### Guidance

The company has raised its revenue guidance by \$550 million to \$35.6 billion (represents 10% reported growth over 2020). Adjusted EPS guidance has been raised by 35 cents to \$21.97, which will represent 12% growth over 2020.

#### Quarter Ending 03/2021

Report Date	Apr 29, 2021
Sales Surprise	1.96%
EPS Surprise	7.77%
Quarterly EPS	7.21
Annual EPS (TTM)	23.82

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## Recent News

### **Thermo Fisher Launches Quick to Clinic To Boost Pre-Clinical Drug Development: June 14, 2021**

Thermo Fisher launched an enhanced Quick to Clinic solution which leverages Gibco Freedom ExpiCHO, a robust process platform for biopharmaceutical companies developing mammalian recombinant proteins. Quick to Clinic will aid emerging biopharma companies to reach Phase I/First-In-Human trials and file for Investigational New Drug review in just 13 months from transfection, thereby accelerating drug development for patients.

### **Thermo Fisher's Tribrid MS Offers Improved Small Molecule Analysis: June 7, 2021**

Thermo Fisher introduced its Orbitrap IQ-X Tribrid mass spectrometer (MS) to help small molecule researchers, pharmaceutical and biopharmaceutical industries reveal complex chemical structures with ease. The new MS is designed specifically for small-molecule structural analysis. It also enables a wide range of applications including metabolomics and lipidomics research, extractable impurities identification and forensic toxicology.

### **Thermo Fisher New SARS-CoV-2 Assay To Monitor New Variants: June 7, 2021**

Thermo Fisher launched the Ion AmpliSeq SARS-CoV-2 Insight Research Assay to enable early detection of new and known SARS-CoV-2 variants from samples with lower viral loads. The new Ion AmpliSeq SARS-CoV-2 Insight Research Assay provides improved SARS-CoV-2 surveillance with the highly sensitive Thermo Fisher's next-generation sequencing technology that enables researchers to obtain epidemiological insights at a rapid turn-around time, workflow automation, seamless informatics and data uploading to public SARS-CoV-2 data repositories.

### **Thermo Fisher- Newomics Collaborate To Develop New LC-MS Platform: June 7, 2021**

Thermo Fisher and Newomics have partnered to bring together Thermo Fisher's new-generation LC-MS systems and Newomics Microflow-nanospray Electrospray Ionization (MnESI) source, to develop a novel native liquid chromatography-mass spectrometry (LC-MS) platform that supports various LC-MS applications.

### **Thermo Fisher Expands Flow Cytometer Technology: June 7, 2021**

Thermo Fisher Scientific launched the Invitrogen Attune CytPix Flow Cytometer. The Attune CytPix combines flow cytometry technology with a high-speed camera, enabling researchers working in QA/QC or cell therapy applications to collect fluorescent flow cytometry data from cells and capture high resolution brightfield images at the same time to form a better understanding of the morphology and quality of the cells.

### **Thermo Fisher Launches New Software Updates Support Research Across Life Science Industry: June 7, 2021**

Thermo Fisher introduced a range of new and improved capabilities to its suite of software to support scientists within academia and industries including pharmaceutical, biopharmaceutical and food and beverage analysis. The latest updates provide laboratories with flexible and user-friendly workflows that promote intelligent data acquisition and increased confidence in results.

### **Thermo Fisher-AES Collaboration To Advance Therapeutic Protein Development: June 7, 2021**

Thermo Fisher and Advanced Electrophoresis Solutions Ltd (AES) entered into an agreement concerning integration of essential protein separation techniques with mass spectrometry. This integration is expected to leverage therapeutic protein development through streamlined characterization.

### **Thermo Fisher's TaqPath RT PCR Kit Gets U.K. Government Go-ahead: May 27, 2021**

Thermo Fisher's TaqPath COVID-19 CE-IVD RT PCR Kit has received independent validation from U.K. Government to meet Day 2 and Day 8 quarantine protocol testing requirements for incoming international travelers. The CE-IVD approved TaqPath kit is a fast, highly sensitive multiplex diagnostic solution that enables real-time Polymerase Chain Reaction (PCR) detection of RNA from the SARS-CoV-2 virus causing COVID-19.

### **Thermo Fisher- UCSF Partner in Cell-Based Therapies Space: May 19, 2021**

Thermo Fisher and the University of California, San Francisco (UCSF) formed a strategic alliance to open state-of-the-art cGMP cell therapy manufacturing and collaboration center at UCSF's Mission Bay campus.

### **Thermo Fisher-Color Health's ReadyCheckGo to be Administered in Ohio Schools: May 12, 2021**

Thermo Fisher's ReadyCheckGo testing program, developed in partnership with Color Health, is now underway to provide school districts in Ohio with economical, highly sensitive and accurate COVID-19 testing for students, teachers and staff. This program is being implemented under the K-12 screening pilot initiative launched by Ohio Governor to support safer in-person learning.

### **Thermo Fisher Unveils Latest Surface Analysis System: May 3, 2021**

Thermo Fisher launched the latest generation of Thermo Scientific Nexsa G2 surface analysis system. The Nexsa G2 is a fully automated x-ray



photoelectron spectrometer (XPS) designed to increase productivity and innovation for academic and industrial laboratories. It delivers significant software and hardware improvements that enable researchers and also offers the potential for product advancements through greater sample throughput and correlative analysis.

#### **Thermo Fisher Launches New Cold Field Emission Gun: April 30, 2021**

Thermo Fisher launched the Thermo Scientific E-CFEG, a new cold field emission gun and a value-added component for the Thermo Scientific Krios Cryo-TEM. The E-CFEG, as part of four major components, facilitates record-breaking resolution levels for single particle analysis (SPA) compared to other solutions available on the market.

#### **Thermo Fisher Unveils Helios 5 EXL Wafer DualBeam: April 20, 2021**

Thermo Fisher launched the Helios 5 EXL Wafer DualBeam, armed with machine learning and advanced automation capabilities. The Helios 5 EXL addresses the challenges faced by semiconductor labs to provide transmission electron microscopy (TEM) data faster without increasing costs by facilitating scalable, repeatable and high precision TEM sample preparation.

#### **Thermo Fisher to Acquire PPD: Apr 15, 2021**

Thermo Fisher entered into a whopping \$17.4-billion deal to acquire PPD, Inc. Thermo Fisher also announced its board of directors' approval of this definitive acquisition agreement.

#### **Thermo Fisher's COVID-19 Test Kit Gets FDA EUA: Apr 12, 2021**

Thermo Fisher announced the receipt of FDA Emergency Use Authorization for its Amplitude Solution with the TaqPath COVID-19 High-Throughput Combo Kit.

#### **Thermo Fisher Completes FDA Listing for QuantStudio 5 Dx Real-Time PCR System: Mar 25, 2021**

Thermo Fisher announced the completion of the FDA listing and the launch of Applied Biosystems QuantStudio 5 Dx Real-Time PCR System for In Vitro diagnostic use.

#### **Thermo Fisher Launches KingFisher Apex: Apr 01, 2021**

Thermo Fisher launched the Thermo KingFisher Apex Purification System designed for scientists who need to automate the extraction of DNA, RNA, proteins and cells from an array of sample types.

#### **Thermo Fisher Launches COVID-19 Testing to School Districts: Mar 23, 2021**

Thermo Fisher launched a nationwide testing program designed to support the United States efforts to return to in-person classroom instruction.

#### **Thermo Fisher New Collaboration to Boost COVID-19 Testing Solution: Mar 23, 2021**

Thermo Fisher entered into strategic technology collaboration with Artificial to develop an integrated and comprehensive software automation platform for the former's standardized COVID-19 Testing Platform.

#### **Thermo Fisher Launches Gibco Human Plasma-like Medium : Mar 22, 2021**

Thermo Fisher launched the New Human Plasma-Like Cell Culture Medium, the first-of-its-kind medium resembles the natural cellular environment found in the human body for more physiologically relevant cell culture models.

## **Valuation**

Thermo Fisher shares are up 4.3% in the year-to-date period and up 37.8% in the trailing 12-month periods. In the year-to-date period, the Zacks sub-industry is up 1.9% and sector is up 1.1%. Over the past year, the Zacks sub-industry is up 19.1% and sector is up 3.6%.

The S&P 500 index is up 13.2% in the year-to-date period and up 38.5% in the past year.

The stock is currently trading at 23.3X Forward 12-months earnings, which compares to 39.3X for the Zacks sub-industry, 23.3X for the Zacks sector and 21.7X for the S&P 500 index.

Over the past five years, the stock has traded as high as 30.1X and as low as 15.2X, with a 5-year median 20.1X. Our Neutral recommendation indicates that the stock will perform in line with the market. Our \$511 price target reflects 24.5X forward 12-months earnings.

The table below shows summary valuation data for TMO.

Valuation Multiples - TMO				
	Stock	Sub-Industry	Sector	S&P 500
Current	23.30	39.26	23.32	21.69

P/E F12M	5-Year High	30.06	42.15	23.32	23.83
	5-Year Low	15.20	22.81	15.82	15.31
	5-Year Median	20.09	30.51	19.34	18.05
P/S F12M	Current	5.47	4.80	2.70	4.70
	5-Year High	6.62	4.80	3.17	4.74
	5-Year Low	2.81	2.56	2.27	3.21
	5-Year Median	3.89	3.57	2.78	3.72
P/B TTM	Current	5.45	4.65	4.47	7.03
	5-Year High	6.57	5.18	5.05	7.08
	5-Year Low	2.54	2.82	3.03	3.84
	5-Year Median	3.60	4.21	4.35	5.02

As of 06/17/2021

Source: Zacks Investment Research

## Industry Analysis Zacks Industry Rank: Bottom 18% (207 out of 252)



## Top Peers

Company (Ticker)	Rec	Rank
BioRad Laboratories, Inc. (BIO)	Neutral	3
Bruker Corporation (BRKR)	Neutral	3
Danaher Corporation (DHR)	Neutral	2
DexCom, Inc. (DXCM)	Neutral	3
Illumina, Inc. (ILMN)	Neutral	3
Luminex Corporation (LMNX)	Neutral	4
PerkinElmer, Inc. (PKI)	Neutral	3
Qidel Corporation (QDEL)	Underperform	5

The positions listed should not be deemed a recommendation to buy, hold or sell.

Industry Comparison Industry: Medical - Instruments				Industry Peers		
	TMO	X Industry	S&P 500	DHR	ILMN	LMNX
Zacks Recommendation (Long Term)	Neutral	-	-	Neutral	Neutral	Neutral
Zacks Rank (Short Term)	3	-	-	2	3	4
VGM Score	A	-	-	B	C	C
Market Cap	191.04 B	443.43 M	29.66 B	183.37 B	66.48 B	1.75 B
# of Analysts	9	2	12	8	5	4
Dividend Yield	0.21%	0.00%	1.35%	0.33%	0.00%	1.08%
Value Score	B	-	-	D	D	B
Cash/Price	0.03	0.13	0.05	0.04	0.07	0.16
EV/EBITDA	20.20	-4.40	16.95	28.65	56.12	22.18
PEG F1	1.76	3.86	2.09	1.60	NA	NA
P/B	5.45	5.01	4.06	4.93	13.51	3.58
P/CF	19.01	29.96	17.27	26.47	74.61	32.89
P/E F1	22.06	41.14	20.99	28.80	75.41	40.21
P/S TTM	5.32	7.31	3.39	7.39	19.14	3.99
Earnings Yield	4.53%	-1.62%	4.65%	3.47%	1.33%	2.49%
Debt/Equity	0.53	0.06	0.66	0.55	0.34	0.52
Cash Flow (\$/share)	25.57	-0.15	6.83	9.71	6.10	1.12
Growth Score	A	-	-	B	B	C
Historical EPS Growth (3-5 Years)	20.37%	8.66%	9.44%	8.77%	14.03%	-18.57%
Projected EPS Growth (F1/F0)	12.63%	29.89%	21.49%	41.46%	34.18%	186.72%
Current Cash Flow Growth	39.75%	0.70%	0.99%	54.58%	-26.36%	171.04%
Historical Cash Flow Growth (3-5 Years)	16.81%	5.50%	7.28%	11.93%	6.15%	-2.62%
Current Ratio	2.53	4.11	1.39	2.05	4.45	8.37
Debt/Capital	34.71%	8.05%	41.51%	33.39%	25.36%	34.19%
Net Margin	22.08%	-22.60%	11.95%	19.17%	18.14%	5.39%
Return on Equity	28.95%	-21.97%	16.48%	16.34%	14.81%	4.66%
Sales/Assets	0.55	0.46	0.51	0.34	0.45	0.54
Projected Sales Growth (F1/F0)	10.29%	17.48%	9.41%	25.05%	28.06%	14.55%
Momentum Score	B	-	-	A	C	F
Daily Price Change	3.77%	0.00%	-0.04%	5.04%	2.23%	0.14%
1-Week Price Change	3.65%	2.54%	-0.41%	1.96%	8.38%	-0.03%
4-Week Price Change	4.47%	3.51%	1.51%	0.85%	14.85%	0.71%
12-Week Price Change	9.90%	-1.54%	7.99%	17.56%	14.37%	15.64%
52-Week Price Change	39.90%	39.52%	35.52%	46.07%	25.47%	27.65%
20-Day Average Volume (Shares)	2,088,990	185,045	1,771,802	2,760,252	733,929	414,791
EPS F1 Estimate 1-Week Change	-0.04%	0.00%	0.00%	0.15%	0.00%	-0.54%
EPS F1 Estimate 4-Week Change	0.10%	0.00%	0.03%	0.15%	0.00%	-0.54%
EPS F1 Estimate 12-Week Change	1.34%	-0.27%	3.37%	19.02%	12.36%	-0.54%

Past performance is no guarantee of future results. Please see important disclosures and definitions at the end of this report.

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EPS Q1 Estimate Monthly Change	1.61%	:	0.00%	0.00%	:	0.21%	0.00%	-1.19%
Source: Zacks Investment Research								

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## Zacks Stock Rating System

We offer two rating systems that take into account investors' holding horizons: Zacks Rank and Zacks Recommendation. Each provides valuable insights into the future profitability of the stock and can be used separately or in combination with each other depending on your investment style.

### Zacks Recommendation

The Zacks Recommendation aims to predict performance over the next 6 to 12 months. The foundation for the quantitatively determined Zacks Recommendation is trends in the company's estimate revisions and earnings outlook. The Zacks Recommendation is broken down into 3 Levels; Outperform, Neutral and Underperform. Unlike many Wall Street firms, we maintain a balance between the number of Outperform and Neutral recommendations. Our team of 70 analysts are fully versed in the benefits of earnings estimate revisions and how that is harnessed through the Zacks quantitative rating system. But we have given our analysts the ability to override the Zacks Recommendation for the 1200 stocks that they follow. The reason for the analyst over-rides is that there are often factors such as valuation, industry conditions and management effectiveness that a trained investment professional can spot better than a quantitative model.

### Zacks Rank

The Zacks Rank is our short-term rating system that is most effective over the one- to three-month holding horizon. The underlying driver for the quantitatively-determined Zacks Rank is the same as the Zacks Recommendation, and reflects trends in earnings estimate revisions.

### Zacks Style Scores

The Zacks Style Score is as a complementary indicator to the Zacks rating system, giving investors a way to focus on the highest rated stocks that best fit their own stock picking preferences.

Academic research has proven that stocks with the best Value, Growth and Momentum characteristics outperform the market. The Zacks Style Scores rate stocks on each of these individual styles and assigns a rating of A, B, C, D and F. We also produce the VGM Score (V for Value, G for Growth and M for Momentum), which combines the weighted average of the individual Style Scores into one score. This is perfectly suited for those who want their stocks to have the best scores across the board.

As an investor, you want to buy stocks with the highest probability of success. That means buying stocks with a Zacks Recommendation of Outperform, which also has a Style Score of an A or a B.

Value Score	<b>B</b>
Growth Score	<b>A</b>
Momentum Score	<b>B</b>
VGM Score	<b>A</b>

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**Returns quoted represent past performance which is no guarantee of future results.** Investment returns and principal value will fluctuate so that when shares are redeemed, they may be worth more or less than their original cost. Current performance may be higher or lower than the performance shown.

Investing involves risk; principal loss is possible. There is no guarantee that companies that can issue dividends will declare, continue to pay or increase dividends.

## Glossary of Terms and Definitions

**52-Week High-Low:** The range of the highest and lowest prices at which a stock has traded during the past year. This range is determined based on the stock's daily closing price which may differ from the intra-day high or low. Many investors use it as a technical indicator to determine a stock's current value and future price movement. The idea here is that if price breaks out from the 52-week range, in either direction, the momentum may continue in the same direction.

**20-Day Average Volume (Shares):** The average number of shares of a company traded in a day over the last 20 days. It is a direct indication of a security's overall liquidity. The higher the average daily trading volume, the easier it is to enter or exit the stock at a desired price with more buyers and sellers being available.

**Daily Price Change:** This is the percentage difference between a trading day's closing price and the prior trading day's closing price. This item is updated at 9 p.m. EST each day.

**1-Week Price Change:** This is the percentage change in a stock's closing price over the last 5 trading days. This change reflects the collective buying and selling sentiment over the 1-week period.

A strong weekly price increase for the stock, especially when accompanied by increased volume, is an indication of it gaining momentum.

**4-Week Price Change:** This is the percentage change in a stock's closing price over the last 20 trading days or past 4 weeks. This is a mediumterm price change metric and an indication of the stock gaining momentum.

**12-Week Price Change:** This is the percentage change of a stock's closing price over the last 60 trading days or past 12 weeks. Similar to 4-week price change, this is a medium-term price change metric. It shows whether a stock has been enjoying strong investor demand, or if it has been in consolidation, or distress over this period.

**52-Week Price Change:** This is the percentage change in a stock's closing price over the last 260 trading days or past 52 weeks. This long-term price change metric is a good reference point for investors. Some investors seek stocks with the best percentage price change over the last 52 weeks, expecting the momentum to continue.

**Market Cap:** The number of outstanding common shares of a company times its latest price per share. This figure represents a company's size, which indicates various characteristics, including price stability and risk, in which investors could be interested.

**Year-To-Date Price Change:** Change in a stock's daily closing price in the period of time beginning the first day of the current calendar year through to the previous trading day.

**# of Analysts:** Number of EPS estimates used in calculating the current-quarter consensus. These estimates come from the brokerage analysts tracking this stock. However, the number of such analysts tracking this stock may not match the number of estimates, as all brokerage analysts may not come up with an estimate or provide it to us.

**Beta:** A measure of risk commonly used to compare the volatility of a stock to the overall market. The S&P 500 Index is the base for calculating beta and carries a value of 1. A stock with beta below 1 is less risky than the market as a whole. And a stock with beta above 1 is riskier.

**Dividend:** The portion of earnings a company is expected to distribute to its common shareholders in the next 12 months for each share they own. Dividends are usually paid quarterly. Dividend payments reflect positively on a company and help maintain investors' trust. Investors typically find dividend-paying stocks appealing because the dividend adds to any market price appreciation to result in higher return on investment (ROI). Moreover, a steady or increasing dividend payment provides investors a cushion in a down market.

**Dividend Yield:** The ratio of a company's annual dividend to its share price. The annual dividend used in the ratio is calculated based on the mostrecent dividend paid by the company. Dividend yield is an estimate of the dividend-only return from a stock in the next 12 months. Since dividend itself doesn't change frequently, dividend yield usually changes with a stock's price movement. As a result, often an unusually high dividend yield is a result of weak stock price.

**S&P 500 Index:** The Standard & Poor's 500 (S&P 500) Index is an unmanaged group of securities considered to be representative of the stock market in general. It is a market-capitalization-weighted index of stocks of the 500 largest U.S. companies. Each stock's weight in the index is

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proportionate to its market value.

**Industry:** One of the 250+ groups that Zacks classifies all stocks into based on the nature of business. These groups are termed as expanded (aka "X") industries and map to their respective (economic) sectors; Zacks has 16 sectors.



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**Zacks Industry Rank:** The Zacks Industry Rank is determined by calculating the average Zacks Rank for all stocks in the industry and then assigning an ordinal rank to it. For example, an industry with an average Zacks Rank of 1.6 is better than an industry with an average Zacks Rank of 2.3. So, the industry with the better average Zacks Rank would get a better Zacks Industry Rank. If an industry has the best average Zacks Rank, it would be considered the top industry (1 out of 250+), which would place it at the top 1% of Zacks-ranked industries. Studies have shown that roughly half of a stock's price movement can be attributed to the industry group it belongs to. In fact, the top 50% of Zacks-ranked industries outperforms the bottom 50% by a factor of more than 2 to 1.

**Last EPS Surprise:** The percentage deviation of a company's last reported earnings per share from the Zacks Consensus Estimate. Companies with a positive earnings surprise are more likely to surprise again in the future (or miss again if they recently missed).

**Last Sales Surprise:** The percentage deviation of a company's last reported sales from the Zacks Consensus Estimate.

**Expected Report Date:** This is an estimated date of a company's next earnings release. The information originated or gathered by Zacks Investment Research from its information providers or publicly available sources is the basis of this estimate.

**Earnings ESP:** The Zacks Earnings ESP compares the Most Accurate Estimate to the Zacks Consensus Estimate for the yet-to-be reported quarter. The Most Accurate Estimate is the most recent version of the Zacks Consensus EPS Estimate. The idea here is that analysts revising their estimates closer to an earnings release have the latest information, which could potentially be more accurate than what they and others contributing to the consensus had predicted earlier. Thus, a positive or negative Earnings ESP reading theoretically indicates the likely deviation of the actual earnings from the consensus estimate. However, the model's predictive power is significant for positive ESP readings only. A positive Earnings ESP is a strong predictor of an earnings beat, particularly when combined with a Zacks Rank #1 (Strong Buy), #2 (Buy) or #3 (Hold). Our research shows that stocks with this combination produce a positive surprise nearly 70% of the time.

**Periods:**

**TTM:** Trailing 12 months. Using TTM figures is an effective way of analyzing the most-recent financial data in an annualized format that helps neutralize the effects of seasonality and other quarter-to-quarter variation.

**F1:** Current fiscal year. This period is used to analyze the estimates for the ongoing full fiscal year.

**F2:** Next fiscal year. This period is used to analyze the estimates for the next full fiscal year.

**F12M:** Forward 12 months. Using F12M figures is an effective way of analyzing the near-term (the following four unreported quarters) estimates in an annualized manner. Instead of typically representing estimates for the full fiscal year, which may not represent the nitty-gritty of each quarter, F12M figures suggest an all-inclusive annualized estimate for the following four quarters. The annualization helps neutralize the potential effects of seasonality and other quarter-to-quarter variations.

**P/E Ratio:** The price-to-earnings ratio measures a company's current market price per share relative to its earnings per share (EPS). Usually, the trailing-12-month (TTM) EPS, current-fiscal-year (F1) EPS estimate, or forward-12-month (F12M) EPS estimate is used as the denominator. In essence, this ratio shows what the market is willing to pay today for each dollar of EPS. In other words, this ratio gives a sense of what the relative value of the company is at the already reported level of earnings or at a future level of earnings.

It is one of the most widely-used multiples for determining the value of a company and helps comparing its valuation with that of a competitor, the industry group or a benchmark.

**PEG Ratio:** The price/earnings to growth ratio is a stock's P/E ratio using current fiscal year (F1) EPS estimate divided by its expected EPS growth rate over the coming 3 to 5 years. This ratio essentially determines a stock's value by factoring in the company's expected earnings growth and is thus believed to provide a more complete picture than just the P/E ratio, particularly for faster-growing companies.

**P/S Ratio:** The price-to-sales ratio is calculated as a company's current price per share divided by trailing 12 months (TTM) sales or revenues per share. This ratio shows what the market is willing to pay today for each dollar of TTM sales per share. The P/S ratio is at times the only valuation metric when the company has yet to become profitable.

**Cash/Price Ratio:** The cash-to-price ratio or Cash Yield is calculated as cash and marketable securities per share divided by the company's current share price. Like the earnings yield, which shows the anticipated yield (or return) on a stock from earnings for each dollar invested, the cash yield does the same, with cash being the source of return instead of earnings. For example, a cash/price ratio of 0.08 suggests a return of 8% or 8 cents for every \$1 investment.

**EV/EBITDA Ratio:** The EV/EBITDA ratio, also known as Enterprise Multiple, is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by EBITDA (earnings before interest, taxes, depreciation and amortization). Usually, trailing-12-month (TTM) or forward-12-month (F12M) EBITDA is used as the denominator.

**EV/Sales Ratio:** The enterprise value-to-sales ratio is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by annual sales. It is an expansion of the P/S valuation, which uses market value instead of enterprise value. The EV/Sales ratio is perceived as more accurate than P/S, in part, because the market capitalization does not take a company's debt into account when valuing it.

**EV/CF Ratio:** The enterprise value-to-cash flow ratio is calculated as a company's enterprise value (market capitalization + value of total long-



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term debt + book value of preferred shares - cash and marketable securities) divided by the trailing-12-month (TTM) operating cash flow. It's a measure of how long it would take to buy the entire business if you were able to use all the company's operating cash flow.

The EV/CF ratio is perceived as more accurate than the P/CF ratio, in part, because the market price does not take a company's debt into account when valuing it.

**EV/FCF Ratio:** The enterprise value-to-free cash flow metric compares a company's enterprise value to its trailing-12-month (TTM) free cash flow (FCF). This metric is very similar to the EV/CF ratio, but is considered a more exact measure owing to the fact that it uses free cash flow, which subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding growth activities and payments to shareholders.

**P/EBITDA Ratio:** The P/EBITDA ratio is calculated as a company's per share market value divided by EBITDA (earnings before interest, taxes, depreciation, and amortization). This metric is very similar to the EV/EBITDA ratio, but is considered a little less exact measure as it uses market price, which does not take a company's debt into account. However, since EBITDA is often considered a proxy for cash income, the metric is used as a measure of what the market is willing to pay today for each dollar of the company's cash profitability in the trailing 12 months (TTM) or forward 12 months (F12M).

**P/B Ratio:** The price-to-book ratio is calculated as a company's current price per share divided by its book value (total assets – liabilities – preferred stocks) per share. In short, the book value is how much a company is worth. In other words, it reflects the total value of a company's assets that its common shareholders would receive if it were to be liquidated. So, the P/B ratio indicates whether you're paying higher or lower than what would remain if the company went bankrupt immediately. Investors typically use this metric to determine how a company's stock price stacks up to its intrinsic value.

**P/TB Ratio:** The price-to-tangible-book value ratio is calculated as a the per share market value of a company divided by the value of its tangible assets (total assets – liabilities – preferred stocks – intangible assets) per share. Tangible book value is the same thing as book value except it excludes the value of intangible assets to get a step closer to the baseline value of the company.

**P/CF Ratio:** The price-to-cash flow ratio measures a company's per share market price relative to its trailing-12-month (TTM) operating cash flow per share. This metric is used to determine whether a company is undervalued or overvalued relative to another stock, industry or sector. And like the P/E ratio, a lower number is typically considered better from the value perspective.

One of the reasons why P/CF ratio is often preferred over P/E ratio is the fact that operating cash flow adds back non-cash expenses such as depreciation and amortization to net income. This feature helps valuing stocks that have positive cash flow but are not profitable because of large noncash charges.

**P/FCF Ratio:** The price-to-free cash flow ratio is an extension of P/CF ratio, which uses trailing-12-month (TTM) free cash flow per share instead of operating cash flow per share. This metric is considered a more exact measure than P/CF ratio, as free cash flow subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding activities that generate additional revenues.

**Earnings Yield:** The earnings yield is calculated as current fiscal year (F1) EPS estimate divided by the company's current share price. The ratio, which is the inverse of the P/E ratio, measures the anticipated yield (or return) from earnings for each dollar invested in a stock today.

For example, earnings yield for a stock, which is trading at \$35 and expected to earn \$3 per share in the current fiscal year (F1), would be  $0.0857$  ( $3/35 = 0.0857$ ) or 8.57%. In other words, for \$1 invested in the stock today, the yield from earnings is anticipated to be 8.57 cents.

Investors most commonly compare the earnings yield of a stock to that of a broad market index (such as the S&P 500) and prevailing interest rates, such as the current 10-year Treasury yield. Since bonds and stocks compete for investors' dollars, stock investors typically demand a higher yield for the extra risk they assume compared to investors of U.S. Treasury-backed securities that offer virtually risk-free returns. This additional return is referred to as the risk premium.

**Debt/Equity Ratio:** The debt-to-equity ratio is calculated as a company's total liabilities divided by its shareholder equity. This metric is used to gauge a company's financial leverage. In other words, it is a measure of the degree to which a company is financing its operations through debt versus its own funds. The higher the ratio, the higher the risk for shareholders.

However, this ratio is difficult to compare across industry groups where ideal amounts of debt vary. Some businesses are more capital intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-equity ratio should be compared with other companies in the same industry.

**Cash Flow (\$/share):** Cash flow per share is calculated as operating cash flow (after-tax earnings + depreciation + other non-cash charges) divided by common shares outstanding. It is used by many investors as a measure of a company's financial strength. Since cash flow per share takes into consideration a company's ability to generate cash by adding back non-cash expenses, it is regarded by some as a more accurate measure of a company's financial situation than earnings per share, which could be artificially deflated.

**Current Ratio:** The current ratio or liquidity ratio is a company's current assets divided by its current liabilities. It measures a company's ability to pay short-term obligations. A current ratio that is in line with the industry average or slightly higher is generally considered acceptable. A current ratio that is lower than the industry average would indicate a higher risk of distress or default. A higher number is usually better. However, a very high current ratio compared to the industry average could be an indication of inefficient use of assets by management.

**Debt/Capital Ratio:** Debt-to-capital ratio is a company's total debt (interest-bearing debt + both short- and long-term liabilities) divided its total capital (interest-bearing debt + shareholders' equity). It is a measure of a company's financial leverage. All else being equal, the higher the debt-to-capital ratio, the riskier the stock.

However, this ratio can vary widely from industry to industry, the ideal amount of required debt being different. Some businesses are more capital

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intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-capital ratio should be compared with the same for its industry.

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**Net Margin:** Net margin is calculated as net income divided by sales. It shows how much of each dollar in sales generated by a company translates into profit. For example, if a company's net margin is 15%, its net income is 15 cents for every \$1 of sales it makes.

A change in margin can reflect either a change in business conditions, or a company's cost controls, or both. If a company's expenses are growing faster than sales, its net margin will decline. However, different net margin rates are considered good for different industries, so it's better to compare net margin rates of companies in the same industry group.

**Return on Equity:** Return on equity (ROE) is calculated as trailing-12-month net income divided by trailing-12-month average shareholder equity (including reinvested earnings). This metric is considered a measure of how effectively management is using a company's assets to generate profits. For example, if a company's ROE is 10%, it creates 10 cents profits for every \$1 shareholder equity, which is basically the company's assets minus debt. A company's ROE deemed good or bad depends on what's normal for its peers or industry group.

**Sales/Assets Ratio:** The sales-to-assets ratio or asset utilization ratio or asset turnover ratio is calculated as a company's annual sales divided by average assets (average of assets at the beginning of the year and at the year's end). This metric helps investors understand how effectively a company is using its assets to generate sales. For example, a sales-to-assets ratio of 2.5 indicates that the company generated \$2.50 in sales for every \$1 of assets on its books.

The higher the sales-to-assets ratio, the better the company is performing. However, similar to many other ratios, the asset turnover ratio tends to be higher for companies in certain industries/sectors than in others. So, a company's sales-to-assets ratio should be compared with the same for its industry/sector.

**Historical EPS Growth (3-5 Years):** This is the average annual (trailing-12-month) EPS growth rate over the last 3-5 years. This metric helps investors see how a company's EPS has grown from a long-term perspective.

Note: There are many factors that can influence short-term numbers — a recession will reduce this number, while a recovery will inflate it. The longterm perspective helps smooth out short-term events.

**Projected EPS Growth (F1/F0):** This is the estimated EPS growth rate for the current financial year. It is calculated as the consensus estimate for the current fiscal year (F1) divided by the reported EPS for the last completed fiscal year (F0).

**Current Cash Flow Growth:** It measures the latest year-over-year change in operating cash flow. Cash flow growth tells an investor how quickly a company is generating inflows of cash from operations. A positive change in the cash flow is desired and shows that more 'cash' is coming in than going out.

**Historical Cash Flow Growth (3-5 Years):** This is the annualized change in cash flow over the last 3-5 years. The change in a longer period helps put the current reading into proper perspective. By looking at the rate, rather than the actual dollar value, the comparison across the industry and peers becomes easier.

**Projected Sales Growth (F1/F0):** This metric looks at the estimated sales growth for the current year. It is calculated as sales estimate for the current fiscal year (F1) divided by the reported sales for the last completed fiscal year (F0).

Like EPS growth, a higher rate is better for sales growth. A look at a company's projected sales growth instantly tells you what the outlook is for their products and services. However, different sales growth rates are considered good for different industries, so it's better to compare sales growth rates of companies in the same industry group.

**EPS F1 Estimate 1-Week Change:** The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past week. The change in a company's consensus EPS estimate (or earnings estimate revision) has proven to be strongly correlated with the near-term price movement of its shares. It is an integral part of the Zacks Rank.

If a stock's consensus EPS estimate is \$1.10 now versus \$1.00 a week ago, that will be reflected as a 10% upward revision. If, on the other hand, it went from \$1.00 to 90 cents, that would be a 10% downward revision.

**EPS F1 Estimate 4-Week Change:** The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past four weeks.

A stock's earnings estimate revision in a 1-week period is important. But it's more meaningful to look at the longer-term revision. And, of course, the 4-week change helps put the 1-week change into proper perspective.

**EPS F1 Estimate 12-Week Change:** The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past 12 weeks.

This metric essentially shows how the consensus EPS estimate has changed over a period longer than 1 week or 4 weeks.

**EPS Q1 Estimate Monthly Change:** The percentage change in the Zacks Consensus EPS estimate for the current fiscal quarter over the past four weeks.

While the revision in consensus EPS estimate for the current fiscal year is strongly correlated with the near-term price movement of its shares, the estimate revision for the current fiscal quarter is an important metric as well, especially over the short term, and particularly as a stock approaches its earnings date. If a stock's Q1 EPS estimate decreases ahead of its earnings release, it's usually a negative sign, whereas an increase is a positive sign.