

Invesco

4Q23E: Improving net flows vs. continued decline in fee rate; Reducing EPS

Reiterate Rating: NEUTRAL | PO: 19.00 USD | Price: 15.95 USD

Solid organic growth vs. declining fee rate

After experiencing an acceleration in organic growth from 2Q23 to 4Q23, we expect solid organic growth through 2024. This is supported by large net flows into fixed income and exchange-traded funds (ETFs). However, we also expect this to drive continued negative mix shift (passive/fixed income from active/equities) and drive its blended fee rate lower while potentially improving APAC flows and moderating outflows in global equities can help slow the downward trajectory. The declining fee rate combined with one-time org. change expenses in 2023 have pressured IVZ's adj. operating margin lower but IVZ plans to manage expenses tightly which should help its operating margin expand in 2024.

Reducing EPS & PO; Implies +20% total return

We lowered our 1Q24/2024/2025/2026 EPS estimates to 0.36/1.61/1.74/1.92 from 0.39/1.76/1.85/2.00 due mostly to a lower operating margin forecast although we modestly increased organic growth. Our PO decreases slightly to 1.000 from 1.000 and is still derived from a 1.000 multiple on our 1.000 total return potential.

Negative mix shift & declining fee rate keep us at Neutral

IVZ has a high mix of businesses in secular growth verticals including ETFs/Index, China, private markets and solutions. While we look for stronger net flows in 2024, we also expect its fee rate to continue declining as the majority of inflows are in lower fee fixed income and passive products. Additionally, investment performance remains softer in its active equity business which should weigh on future organic growth (and fee rate). Moreover, the company's financial leverage, when factoring the MassMutual preferred, is still elevated relative to peers but IVZ should be able to restart its buyback engine in 2H24 after paying down debt and reaching its zero net debt target.

Estimates (Dec) (US\$)	2022A	2023A	2024E	2025E	2026E
EPS	1.68	1.51	1.61	1.74	1.92
EPS Change (YoY)	-45.6%	-10.1%	6.6%	8.1%	10.3%
Consensus EPS (Bloomberg)			1.74	1.95	2.09
DPS	0.75	0.80	0.88	0.92	0.97
Valuation (Dec)					
P/E	9.5x	10.6x	9.9x	9.2x	8.3x
Dividend Yield	4.7%	5.0%	5.5%	5.8%	6.1%

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Refer to important disclosures on page 6 to 8. Analyst Certification on page 4. Price Objective Basis/Risk on page 4.

Timestamp: 23 January 2024 05:58PM EST

23 January 2024

Equity

Key Changes		
(US\$)	Previous	Current
Price Obj.	20.00	19.00
2024E Rev (m)	4,498.3	4,344.2
2025E Rev (m)	4,644.5	4,525.4
2026E Rev (m)	4,825.0	4,785.2
2024E EPS	1.76	1.61
2025E EPS	1.85	1.74
2026E EPS	2.00	1.92

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Stock Data

15.95 USD Price Objective 19.00 USD Date Established 23-Jan-2024 Investment Opinion B-2-7 52-Week Range 12.48 USD -20.56 USD Mrkt Val / Shares Out (mn) 7,170 USD / 449.6 Free Float 98.2% Average Daily Value 83.18 USD BofA Ticker / Exchange IVZ / NYS Bloomberg / Reuters IV7 US / IV7.N ROE (2024E) 4.0% ESGMeter™ High

ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating. ESGMeter is independent of BofA Global Research's equity investment rating, volatility risk rating, income rating, and price objective for that company. For full details, refer to "BofA ESGMeter Methodology".

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Income Statement Data (Dec)					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026
Total Revenue	4,645	4,311	4,344	4,525	4,785
% Change	-11.7%	-7.2%	0.8%	4.2%	5.7%
Investment Advisory Fees	NA	NA	NA	NA	N/
Compensation & Benefits	(1,904)	(1,971)	(1,870)	(1,942)	(2,045)
% Change	-5.6%	3.5%	-5.1%	3.9%	5.3%
Non-Compensation Expenses	(1,126)	(1,126)	(1,170)	(1,184)	(1,233
Net Income to Ordinary Shareholders	773	690	730	779	847
Adjusted Net Income (Operating)	773	689	731	781	850
% Change	-46.3%	-10.9%	6.2%	6.8%	8.8%
Adjusted EBITDA (Operating)	1,528	2,480	1,281	1,395	1,523
Cash EPS	NA	NA	NA	NA	NA
% Change	NA	NA	NA	NA	NA
Performance Metrics (Dec)					
(US\$ Millions)	2022A	2023A	2024E	2025E	2026
Operating Margin	34.8%	28.2%	30.0%	30.9%	31.5%
Pre-Tax Profit Margin	32.4%	29.5%	31.4%	32.2%	32.6%
Net Profit Margin	16.6%	16.0%	16.8%	17.3%	17.8%
Comp Expense/Revenue	41.0%	45.7%	43.0%	42.9%	42.7%
Non-Comp Expense / Revenue	24.2%	26.1%	26.9%	26.2%	25.8%
Net Revenue Growth	-11.7%	-7.2%	0.8%	4.2%	5.7%
Operating Expense Growth	-1.6%	2.2%	-1.8%	2.8%	4.8%
Asset Management Data (Dec)		2.2%	-1.8%	2.8%	4.8%
Asset Management Data (Dec)	2022A	2.2% 2023A	-1.8% 2024E	2.8% 2025E	4.8% 2026
Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn)	2022A 1,409.2	2.2% 2023A 1,585.3	-1.8% 2024E 1,697.2	2.8% 2025E 1,878.2	2026 2,093.2
Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn) % Change	2022A 1,409.2 -12.5%	2.2% 2023A 1,585.3 12.5%	-1.8% 2024E 1,697.2 7.1%	2.8% 2025E 1,878.2 10.7%	2026 2,093.2
Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn) % Change % Equity	2022A 1,409.2 -12.5% 44.4%	2.2% 2023A 1,585.3 12.5% 51.5%	-1.8% 2024E 1,697.2 7.1% 55.3%	2.8% 2025E 1,878.2 10.7% 57.0%	2026 2,093.2 11.4% 58.3%
Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn) % Change % Equity % Fixed Income	2022A 1,409.2 -12.5% 44.4% 22.1%	2.2% 2023A 1,585.3 12.5% 51.5% 20.4%	-1.8% 2024E 1,697.2 7.1% 55.3% 20.8%	2.8% 2025E 1,878.2 10.7% 57.0% 20.6%	2026 2,093.2 11.4% 58.3% 20.3%
Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn) % Change % Equity % Fixed Income % Money Mkt / Other	2022A 1,409.2 -12.5% 44.4% 22.1% 14.4%	2.2% 2023A 1,585.3 12.5% 51.5% 20.4% 12.1%	-1.8% 2024E 1,697.2 7.1% 55.3% 20.8% 9.2%	2.8% 2025E 1,878.2 10.7% 57.0% 20.6% 8.6%	2026 2,093.2 11.4% 58.3% 20.3% 8.6%
Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn) % Change % Equity % Fixed Income % Money Mkt / Other Net New Flows (\$bn)	2022A 1,409.2 -12.5% 44.4% 22.1% 14.4% 52.7	2.2% 2023A 1,585.3 12.5% 51.5% 20.4% 12.1% 5.3	-1.8% 2024E 1,697.2 7.1% 55.3% 20.8% 9.2% 16.8	2.8% 2025E 1,878.2 10.7% 57.0% 20.6% 8.6% 75.0	4.8% 2026 2,093.2 11.4% 58.3% 20.3% 8.6% 95.9
Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn) % Change % Equity % Fixed Income % Money Mkt / Other Net New Flows (\$bn) Organic Growth	2022A 1,409.2 -12.5% 44.4% 22.1% 14.4% 52.7 3.6%	2.2% 2023A 1,585.3 12.5% 51.5% 20.4% 12.1% 5.3 0.4%	-1.8% 2024E 1,697.2 7.1% 55.3% 20.8% 9.2% 16.8 1.0%	2.8% 2025E 1,878.2 10.7% 57.0% 20.6% 8.6% 75.0 4.3%	2026 2,093.2 11.4% 58.3% 20.3% 8.6% 95.9
Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn) % Change % Equity % Fixed Income % Money Mkt / Other Net New Flows (\$bn) Organic Growth Organic Growth ex-Money Market	2022A 1,409.2 -12.5% 44.4% 22.1% 14.4% 52.7 3.6% 0%	2.2% 2023A 1,585.3 12.5% 51.5% 20.4% 12.1% 5.3 0.4% 1.0%	-1.8% 2024E 1,697.2 7.1% 55.3% 20.8% 9.2% 16.8 1.0% 5.0%	2.8% 2025E 1,878.2 10.7% 57.0% 20.6% 8.6% 75.0 4.3% 5.9%	4.8% 2026i 2,093.2 11.4% 58.3% 20.3% 8.6% 95.9 4.9% 5.9%
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Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn) % Change % Equity % Fixed Income % Money Mkt / Other Net New Flows (\$bn) Organic Growth Organic Growth ex-Money Market Advisory Fees / Avg. AUM	2022A 1,409.2 -12.5% 44.4% 22.1% 14.4% 52.7 3.6% 0%	2.2% 2023A 1,585.3 12.5% 51.5% 20.4% 12.1% 5.3 0.4% 1.0%	-1.8% 2024E 1,697.2 7.1% 55.3% 20.8% 9.2% 16.8 1.0% 5.0%	2.8% 2025E 1,878.2 10.7% 57.0% 20.6% 8.6% 75.0 4.3% 5.9%	4.8% 2026i 2,093.2 11.4% 58.3% 20.3% 8.66% 95.5. 4.9% 5.90%
Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn) % Change % Equity % Fixed Income % Money Mkt / Other Net New Flows (\$bn) Organic Growth Organic Growth ex-Money Market Advisory Fees / Avg. AUM Balance Sheet Data (Dec)	2022A 1,409.2 -12.5% 44.4% 22.1% 14.4% 52.7 3.6% 0% 3.446%	2.2% 2023A 1,585.3 12.5% 51.5% 20.4% 12.1% 5.3 0.4% 1.0% 3.114%	-1.8% 2024E 1,697.2 7.1% 55.3% 20.8% 9.2% 16.8 1.0% 5.0% 2.830%	2.8% 2025E 1,878.2 10.7% 57.0% 20.6% 8.6% 75.0 4.3% 5.9% 2.668%	4.8% 2026i 2,093.2 11.4% 58.3% 20.3% 8.6% 95.5 4.9% 2.507%
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Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn) % Change % Equity % Fixed Income % Money Mkt / Other Net New Flows (\$bn) Organic Growth Organic Growth ex-Money Market Advisory Fees / Avg. AUM Balance Sheet Data (Dec) (US\$ Millions) Total Assets	2022A 1,409.2 -12.5% 44.4% 22.1% 14.4% 52.7 3.6% 0% 3.446% 2022A 30,529	2.2% 2023A 1,585.3 12.5% 51.5% 20.4% 12.1% 5.3 0.4% 1.0% 3.114% 2023A 30,814	-1.8% 2024E 1,697.2 7.1% 55.3% 20.8% 9.2% 16.8 1.0% 5.0% 2.830% 2024E 31,151	2.8% 2025E 1,878.2 10.7% 57.0% 20.6% 8.6% 75.0 4.3% 5.9% 2.668% 2025E 31,017	4.8% 2026 2,093.2 11.4% 58.3% 20.3% 8.6% 95.5 4.9% 2.507% 2026 31,017 18,702
Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn) % Change % Equity % Fixed Income % Money Mkt / Other Net New Flows (\$bn) Organic Growth Organic Growth ex-Money Market Advisory Fees / Avg. AUM Balance Sheet Data (Dec) (US\$ Millions) Total Assets Total Shareholders' Equity	2022A 1,409.2 -12.5% 44.4% 22.1% 14.4% 52.7 3.6% 0% 3.446% 2022A 30,529 17,858	2.2% 2023A 1,585.3 12.5% 51.5% 20.4% 12.1% 5.3 0.4% 1.0% 3.114% 2023A 30,814 18,240	-1.8% 2024E 1,697.2 7.1% 55.3% 20.8% 9.2% 16.8 1.0% 5.0% 2.830% 2024E 31,151 18,668	2.8% 2025E 1,878.2 10.7% 57.0% 20.6% 8.6% 75.0 4.3% 5.9% 2.668% 2025E 31,017 18,620	4.8% 2026i 2,093.2 11.4% 58.3% 20.3% 8.6% 95.5 4.9% 2.507% 2026i 31,017 18,702
Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn) % Change % Equity % Fixed Income % Money Mkt / Other Net New Flows (\$bn) Organic Growth Organic Growth ex-Money Market Advisory Fees / Avg. AUM Balance Sheet Data (Dec) (US\$ Millions) Total Assets Total Shareholders' Equity Tangible Shareholders' Equity BVPS (Stated Equity)	2022A 1,409.2 -12.5% 44.4% 22.1% 14.4% 52.7 3.6% 0% 3.446% 2022A 30,529 17,858 NA	2.2% 2023A 1,585.3 12.5% 51.5% 20.4% 12.1% 5.3 0.4% 1.0% 3.114% 2023A 30,814 18,240 NA	-1.8% 2024E 1,697.2 7.1% 55.3% 20.8% 9.2% 16.8 1.0% 5.0% 2.830% 2024E 31,151 18,668 NA	2.8% 2025E 1,878.2 10.7% 57.0% 20.6% 8.6% 75.0 4.3% 5.9% 2.668% 2025E 31,017 18,620 NA	4.8% 2026l 2,093.2 11.4% 58.3% 20.3% 8.6% 95.9 4.9% 5.9% 2.507% 2026l 31,017 18,702 NA 42.27
Asset Management Data (Dec) (US\$ Millions) Assets Under Management (\$bn) % Change % Equity % Fixed Income % Money Mkt / Other Net New Flows (\$bn) Organic Growth Organic Growth ex-Money Market Advisory Fees / Avg. AUM Balance Sheet Data (Dec) (US\$ Millions) Total Assets Total Shareholders' Equity Tangible Shareholders' Equity	2022A 1,409.2 -12.5% 44.4% 22.1% 14.4% 52.7 3.6% 0% 3.446% 2022A 30,529 17,858 NA 38.81	2.2% 2023A 1,585.3 12.5% 51.5% 20.4% 12.1% 5.3 0.4% 1.0% 3.114% 2023A 30,814 18,240 NA 40.00	-1.8% 2024E 1,697.2 7.1% 55.3% 20.8% 9.2% 16.8 1.0% 5.0% 2.830% 2024E 31,151 18,668 NA 41.12	2.8% 2025E 1,878.2 10.7% 57.0% 20.6% 8.6% 75.0 4.3% 5.9% 2.668% 2025E 31,017 18,620 NA 41.49	

Company Sector

Asset Management

Company Description

Invesco is a global asset manager with over \$1.5Tn in AuM and more than 8,000 employees globally with presence in over 20 countries. The company provides investment management services to institutional and retail clients across different asset classes including fixed income, equity, alternatives, balanced/multi-asset and money market funds. In October 2020, activist investor Trian Fund Management (Trian) announced that it has acquired 9.9% stake in Invesco.

Investment Rationale

IVZ's net flows have experienced significant improvement since 2H20, and while we believe the company will continue to generate positive organic growth, we expect its blended fee rate to continue declining as the majority of the inflows are in lower fee traditional/passive products. In addition, the company's financial leverage is elevated relative to peers, which can elevate cyclical risks.

Quarterly Earnings Estimates

	2023	2024
Q1	0.38A	0.36E
Q2	0.31A	0.40E
Q3	0.35A	0.42E
Q4	0.47A	0.43E

Additional details

Expect operating margin to improve in 2024 after multi-year decline

IVZ's business mix shift into lower fee products (ETFs, index) in addition to one-time org. change expenses have put continued pressure on the firm's adjusted operating margin. In 4Q23, IVZ's adjusted operating margin was 26.3% (28.4% excluding \$22M org. change expenses) declining from 28.2% in 3Q23 (31.7% excluding \$39M charges) and from 30.6% in 4Q22 and 42.0% in 4Q21. Excluding all org. change expenses, IVZ's adjusted op margin, on average, has declined by ~1.7% per quarter since 4Q21. On the call today, management guided to flat y/y adjusted operating expense growth in 2024 which includes updated G&A guidance of +\$10M/quarter one-time charges related to Alpha platform implementation. Additionally, given negative 1Q comp seasonality (\$25M expense related to payroll taxes) and guidance for 2024 comp ratio to be at or slightly above IVZ's historical range of 38-42%, we look for IVZ's adj. op margin to remain 28% in 1Q24 and for limited operating leverage in 2024 (although we estimate sequential improvements and for FY24 adj. op margin to be 30%).

Positive organic growth forecast supported by ETFs and fixed income

In 4Q23, IVZ's net revenue yield declined further (27.1bps in 4Q23 vs. 28.6bps in 3Q23 and 40.7bps in 2Q19) as its business mix shift continues into its lower fee product segments (ETFs and Index, 15-20bps net revenue yield) and away from its higher-fee traditional equity products (60-65bps net revenue yield). While we expect IVZ's organic growth to continue to trend positively and accelerate (est. +4% OG in 1Q24 and +5% in 2024), we also estimate for its fee rate slide to continue with the majority of estimated inflows into lower-fee traditional/passive products (ETFs, fixed income) although improved growth in its APAC managed products (China JV, Japan) which are higher fee (40-50bps net revenue yield, China even higher) may help slow the decline. Additionally, an outsized portion of revenue decline since early 2022 has been driven by global/developing market equities outflows. As developing market outflows stabilize, IVZ's fee rate slide should also moderate and primarily be driven by secular shifts (passive).

Buybacks should restart in 2H24 after achieving zero net debt

Share buyback activity has remained on pause since 2Q23 when IVZ repurchased 9.6M shares (\$150M plus dividend). The company has instead focused on improving its liquidity and excess capital position to reach its target of "zero net debt" in 2024. IVZ ended 4Q23 with \$1.5B of cash and cash equivalents (increased from \$1.2B in 3Q23) and \$1.5B of total debt. Its leverage ratio stayed at 0.7x adjusted debt to EBITDA (in-line with 3Q23) but when including preferred stock, the leverage ratio rises to 3.5x. IVZ's next debt maturity is on January 30th (\$600M) and IVZ expects to use \$500M in excess cash and \$100M drawn on its credit facility to fully redeem the note. After reaching its zero net debt goal, however, management stated it will look to be more consistent/active with buybacks while still maintaining a 40-60% payout ratio (modest increases to dividend + regular buybacks). We expect IVZ will continue to prioritize improving its balance sheet position so it can further de-risk its business model, improve stock valuation, and be more opportunistic in product development, buybacks, dividend hikes, and M&A.



Price objective basis & risk

Invesco (IVZ)

Our price objective (PO) for IVZ is \$19 and is derived from a price to earnings method. We apply a 10x multiple to our 2026E EPS to obtain our PO, which is modestly above its five-year average (7.5x). We think 10x being modestly above the five year average is reasonable given our estimate for solid organic growth in '24/25 and that IVZ should trade in line with its large cap traditional peer group (excluding BLK).

Risks to our PO are (1) fee rate pressures, (2) sustainability of positive net flows, (3) dissynergy risk arising from future M&A transactions, (4) elevated financial leverage, and (5) soft investment performance in its traditional business.

Analyst Certification

I, Craig Siegenthaler, CFA, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.

US - Brokers, Asset Managers, & Exchanges Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
BUY				
	AllianceBernstein	AB	AB US	Craig Siegenthaler, CFA
	Ameriprise Financial	AMP	AMP US	Craig Siegenthaler, CFA
	Ares Management Corp	ARES	ARES US	Craig Siegenthaler, CFA
	BlackRock, Inc.	BLK	BLK US	Craig Siegenthaler, CFA
	Blackstone	BX	BX US	Craig Siegenthaler, CFA
	Blue Owl Capital	OWL	OWL US	Craig Siegenthaler, CFA
	Cboe Global Markets	CBOE	CBOE US	Craig Siegenthaler, CFA
	Interactive Brokers	IBKR	IBKR US	Craig Siegenthaler, CFA
	Intercontinental Exchange	ICE	ICE US	Craig Siegenthaler, CFA
	KKR & Co. Inc.	KKR	KKR US	Craig Siegenthaler, CFA
	Raymond James Financial	RJF	RJF US	Mark McLaughlin, CFA
	TPG Inc	TPG	TPG US	Craig Siegenthaler, CFA
	Tradeweb Markets Inc.	TW	TW US	Craig Siegenthaler, CFA
	Victory Capital Holdings, Inc.	VCTR	VCTR US	Craig Siegenthaler, CFA
	Virtu Financial	VIRT	VIRT US	Craig Siegenthaler, CFA
NEUTRAL				
NEO I IORE	Affiliated Managers Group	AMG	AMG US	Craig Siegenthaler, CFA
	Apollo Global Management	APO	APO US	Craig Siegenthaler, CFA
	Brookfield Asset Management	BAM	BAM US	Craig Siegenthaler, CFA
	CME Group Inc	CME	CME US	Craig Siegenthaler, CFA
	Invesco	IVZ	IVZ US	Craig Siegenthaler, CFA
	Janus Henderson Group	JHG	JHG US	Craig Siegenthaler, CFA
	LPL Financial Holdings	LPLA	LPLA US	Craig Siegenthaler, CFA
	Patria	PAX	PAX US	Craig Siegenthaler, CFA
UNDERPERFORM				,
	Charles Schwab Corp.	SCHW	SCHW US	Craig Siegenthaler, CFA
	Franklin Resources	BEN	BEN US	Craig Siegenthaler, CFA
	Nasdag	NDAQ	NDAQ US	Craig Siegenthaler, CFA
	Robinhood Markets	HOOD	HOOD US	Craig Siegenthaler, CFA
	T. Rowe Price	TROW	TROW US	Craig Siegenthaler, CFA
	The Carlyle Group	CG	CG US	Craig Siegenthaler, CFA



*IQ*method[™] Measures Definitions

Business Performance	Numerator	Denominator
Return On Capital Employed	NOPAT = (EBIT + Interest Income) \times (1 $-$ Tax Rate) + Goodwill Amortization	Total Assets — Current Liabilities + ST Debt + Accumulated Goodwill Amortization
Return On Equity Operating Margin	Net Income Operating Profit	Shareholders' Equity Sales
Earnings Growth Free Cash Flow	Expected 5 Year CAGR From Latest Actual Cash Flow From Operations — Total Capex	N/A N/A
Quality of Earnings Cash Realization Ratio Asset Replacement Ratio Tax Rate Net Debt-To-Equity Ratio Interest Cover	Numerator Cash Flow From Operations Capex Tax Charge Net Debt = Total Debt — Cash & Equivalents EBIT	Denominator Net Income Depreciation Pre-Tax Income Total Equity Interest Expense
Valuation Toolkit Price / Earnings Ratio Price / Book Value Dividend Yield Free Cash Flow Yield Enterprise Value / Sales	Numerator Current Share Price Current Share Price Annualised Declared Cash Dividend Cash Flow From Operations — Total Capex EV = Current Share Price × Current Shares + Minority Equity + Net Debt + Other LT Liabilities	Denominator Diluted Earnings Per Share (Basis As Specified) Shareholders' Equity / Current Basic Shares Current Share Price Market Cap = Current Share Price × Current Basic Shares Sales

EV / EBITDA Enterprise Value Basic EBIT + Depreciation + Amortization

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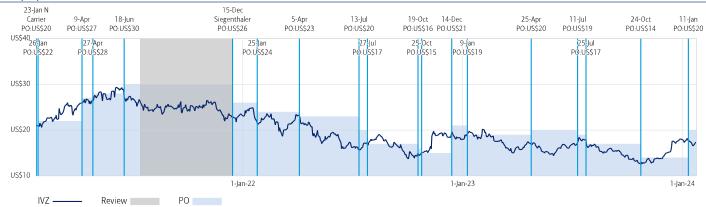
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Invesco (IVZ) Price Chart



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The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

Equity Investment Rating Distribution: Financial Services Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	156	53.79%	Buy	94	60.26%
Hold	72	24.83%	Hold	48	66.67%
Sell	62	21.38%	Sell	35	56.45%

Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	1895	53.62%	Buy	1083	57.15%
Hold	832	23.54%	Hold	454	54.57%
Sell	807	22.84%	Sell	383	47.46%

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Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster^{R2}

Buy	≥ 10%	≤ /0%
Neutral	≥ 0%	≤ 30%
nderperform	N/A	≥ 20%

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