

Asset Management

The below Hypothetical Weights are shown for information purposes only and do not reflect the constituents of the Goldman Sachs ActiveBeta® U.S. Low Vol Equity Index. The Hypothetical Weights are a hypothetical indication of what the weightings and constituents of the Goldman Sachs ActiveBeta® U.S. Low Vol Equity Index would be if the Goldman Sachs ActiveBeta® U.S. Low Vol Equity Index were rebalanced daily using current market data. These hypothetical weights do not reflect actual current or future changes to the Goldman Sachs ActiveBeta® U.S. Low Vol Equity Index and the constituents at the next actual rebalance (typically quarterly) may differ substantially. Neither Goldman Sachs Asset Management, L.P. ("GSAM") nor any of its affiliates guarantees the quality, accuracy and/or the completeness of this information nor any data included therein or on which this information is based, and neither GSAM nor any of its affiliates shall be liable to any third party for any loss or damage, direct, indirect or consequential, arising from (i) any inaccuracy or incompleteness in, or delays, interruptions, errors or omissions in this information or any data included therein or on which any of this information is based or (ii) any decision made or action taken by any third party in reliance upon this information or any data.

Goldman Sachs ActiveBeta® U.S. Low Vol Equity Index Hypothetical Weights for 9/22/2021

Name	Weight
3M COMPANY	0.005377
ABBOTT LABORATORIES	0.002439
ABBVIE INC	0.007359
ACCENTURE PLC-CL A	0.007110
ACTIVISION BLIZZARD INC	0.001890
ADOBE INC	0.005434
AGILENT TECHNOLOGIES INC	0.006908
AGNC INVESTMENT CORP	0.003867
AKAMAI TECHNOLOGIES INC	0.004679
ALEXANDRIA REAL ESTATE EQUITIES	0.001185
ALLIANT ENERGY CORP	0.001580
ALLSTATE CORP	0.009938
ALPHABET INC C-SHARES	0.012905
ALPHABET INC-CL A	0.012808
ALTRIA GROUP INC	0.001774
AMAZON.COM INC	0.018544
AMDOCS LTD	0.004536
AMEREN CORP	0.000453
AMERICAN ELECTRIC POWER COMPANY	0.001881
AMERICAN HOMES 4 RENT	0.001037
AMERICAN WATER WORKS CO INC	0.000699
AMERISOURCEBERGEN CORP	0.001570
AMETEK INC	0.000208
AMGEN INC	0.002657
AMPHENOL CORP NEW CL A	0.002687
ANNALY CAPITAL MANAGEMENT INC	0.005622
AON PLC	0.007007
APPLE INC	0.030252
APTARGROUP INC	0.002264
ARROW ELECTRONICS INC	0.003958
ARTHUR J GALLAGHER & CO	0.003644
ASSURANT INC	0.000690
AT&T	0.008608
AUTOMATIC DATA PROCESSING	0.003999
AUTOZONE INC	0.008012
BALL CORP	0.000463
BAXTER INTL.	0.002235
BECTON DICKINSON AND CO	0.004553
BERKSHIRE HATHAWAY INC-CL B	0.019356
BERRY GLOBAL GROUP INC	0.003900
BIO-TECHNE CORP	0.002051
BLACK KNIGHT INC	0.002478
BLACKROCK INC	0.002123
BLACKSTONE INC	0.006418
BOOZ ALLEN HAMILTON HOLDING CORP	0.003586
BRISTOL-MYERS SQUIBB CO	0.009651
BROADCOM INC	0.000911
BROADRIDGE FINL SOLUTIONS I COM	0.006074
BROWN & BROWN INC	0.004145
C H ROBINSON WORLDWIDE INC	0.003312
CACI INTERNATIONAL INC -CL A	0.002708
CADENCE DESIGN SYSTEMS INC	0.006353
CAMDEN PROPERTY TRUST	0.002006
CAMPBELL SOUP CO	0.001332
CATERPILLAR INC	0.001613
CBOE GLOBAL MARKETS INC	0.001601
CDK GLOBAL INC	0.001597
CDW CORP/DE	0.003027
CERNER CORP	0.009630
CHARTER COMMUNICATIONS INC	0.004346
CHEMED CORP	0.002490
CHURCH & DWIGHT CO INC	0.001519
CISCO SYSTEMS INC	0.009719
CITRIX SYSTEMS INC	0.003284
CMS ENERGY CORP	0.000526
COCA-COLA CO/THE	0.001109
COGNIZANT TECHNOLOGY SOLUTIONS C	0.003937
COLGATE-PALMOLIVE CO	0.005804
COMCAST CORP-CLASS A	0.007795
CONAGRA BRANDS INC	0.004571
COOPER COMPANIES INC	0.000810
CORESITE REALTY CORP	0.001165
CORNING INC	0.001045
COSTCO WHOLESALE CORP	0.007554

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Name	Weight
CROWN CASTLE INTERNATIONAL CORP	0.000842
CUBESMART	0.002785
CUMMINS INC	0.002588
CVS HEALTH CORP	0.009195
DANAHER CORP	0.004789
DAVITA INC	0.003754
DELL TECHNOLOGIES INC - C	0.005353
DOLBY LABORATORIES INC-CL A	0.002878
DOLLAR GENERAL CORP	0.010486
DOMINOS PIZZA INC	0.005373
DOVER CORP	0.001887
DTE ENERGY CO	0.000963
DUKE ENERGY CORP	0.002216
DUKE REALTY CORP	0.001306
ELECTRONIC ARTS INC	0.003684
ERIE INDEMNITY CO	0.000163
EVERGY INC	0.001022
EXELON CORP	0.000627
EXPEDITORS INTL WASH INC	0.009502
EXPONENT INC	0.000868
EXTRA SPACE STORAGE INC	0.003051
EXXON MOBIL CORP	0.001067
F5 NETWORKS INC	0.005756
FACEBOOK INC	0.010843
FACTSET RESEARCH SYSTEMS INC	0.000815
FASTENAL CO	0.006317
FIDELITY NATIONAL INFORMATION SE	0.002951
FISERV INC	0.002873
FLOWERS FOODS INC	0.002083
GARMIN LTD	0.007153
GENERAL DYNAMICS	0.005399
GENERAL MILLS INC	0.004007
GENPACT LTD	0.003472
GENTEX CORP	0.001080
GILEAD SCIENCES INC	0.005529
GLOBAL PAYMENTS INC	0.001255
GRACO	0.003764
GRAPHIC PACKAGING HOLDING CO	0.002556
HANOVER INSURANCE GROUP INC	0.001977
HERSHEY CO/THE	0.003848
HOME DEPOT INC	0.009764
HONEYWELL INTERNATIONAL INC	0.000121
HORMEL FOODS CORP	0.000240
HOULIHAN LOKEY INC	0.002184
HP INC	0.003927
HUNT J B TRANS SVCS INC	0.001068
IDACORP INC	0.000277
IDEX CORP	0.001645
IHS MARKIT LTD	0.001216
ILLINOIS TOOL WORKS	0.000206
INTEL CORP	0.004059
INTERCONTINENTAL EXCHANGE INC	0.004316
INTERNATIONAL BUSINESS MACHINES	0.007266
INTUIT COM	0.005315
INVITATION HOMES INC	0.000922
IQVIA HOLDINGS INC	0.001121
J2 GLOBAL INC	0.002727
JACK HENRY & ASSOCIATES INC	0.003667
JACOBS ENGINEERING GROUP INC	0.004856
JM SMUCKER CO/THE	0.005984
JOHNSON & JOHNSON	0.010736
JOHNSON CONTROLS INTERNATIONAL P	0.004303
JPMORGAN CHASE & CO	0.007645
JUNIPER NETWORKS INC	0.004226
KELLOGG CO	0.001979
KEURIG DR PEPPER INC	0.003669
KEYSIGHT TECHNOLOGIES INC	0.006224
KIMBERLY-CLARK CORP	0.002435
KNIGHT-SWIFT TRANSPORTATION HOLD	0.003705
L3HARRIS TECHNOLOGIES INC	0.003635
LANDSTAR SYSTEM INC	0.002862
LEIDOS HOLDINGS INC	0.003845
LENNOX INTL	0.004594
LIBERTY BROADBAND A	0.000302



Goldman Sachs ActiveBeta® U.S. Low Vol Equity Index

Hypothetical Weights Generated for 9/22/2021

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LIBERTY BROADBAND C	0.000541
LIFE STORAGE INC	0.002186
LINCOLN ELECTRIC HOLDINGS	0.001873
LINDE PLC	0.003304
LOCKHEED MARTIN CORP	0.000598
LOWES COS INC	0.003847
MARSH & MCLENNAN COS	0.010070
MASCO CORP	0.002631
MASIMO CORPORATION	0.004504
MAXIMUS INC	0.002363
MCDONALDS CORP	0.002506
MEDTRONIC PLC	0.000471
MERCK & CO. INC.	0.005079
METTLER-TOLEDO INTL	0.007496
MGM GROWTH PROPERTIES LLC-A	0.001627
MICROSOFT CORP	0.026686
MID-AMERICA APARTMENT COMM	0.002252
MONDELEZ INTERNATIONAL INC	0.002951
MONSTER BEVERAGE CORP	0.002472
MOODYS CORP	0.004310
MORNINGSTAR INC	0.003039
MOTOROLA SOLUTIONS INC	0.004465
MSC INDUSTRIAL DIRECT CO-A	0.001695
NASDAQ INC	0.003524
NATIONAL FUEL GAS COMPANY	0.000481
NATIONAL INSTRUMENTS CORP	0.000744
NIKE INC	0.005312
NORTHROP GRUMMAN CORP	0.003319
NORTONLIFELOCK INC	0.002922
O REILLY AUTOMOTIVE INC	0.006993
OLD DOMINION FREIGHT LINE INC	0.001381
ORACLE CORP	0.009056
OTIS WORLDWIDE CORP	0.001955
PACK.CORP.OF AM.	0.000788
PAYCHEX INC	0.004056
PEPSICO INC	0.003632
PERKINELMER INC	0.005309
PFIZER INC	0.006073
PHILIP MORRIS INTERNATIONAL	0.005413
POST HOLDINGS INC	0.002925
PPG INDUSTRIES INC	0.003108
PROCTER & GAMBLE CO	0.004481
PROGRESSIVE CORP	0.011651
PUBLIC STORAGE	0.005575
PUBLIC SVC ENTERPRISE	0.000368
QIAGEN NV	0.004196
QUEST DIAGNOSTICS INC	0.005816
REGENERON PHARMACEUTICALS	0.001747
RELIANCE STEEL & ALUMINUM	0.004297
RENAISSANCERE HOLDINGS LTD	0.003268
REPUBLIC SERVICES INC	0.006610
REYNOLDS CONSUMER PRODUCTS INC	0.000530
ROLLINS INC	0.003944
ROPER TECHNOLOGIES INC	0.000384
RPM INTERNATIONAL INC	0.003982
S&P GLOBAL INC	0.004190
SERVICE CORP INTERNATIONAL	0.002391
SHERWIN-WILLIAMS CO	0.005736
SMITH (A.O.) CORP	0.003632
SONOCO PRODUCTS CO	0.002279
SOUTHERN COMPANY THE	0.001637
SS&C TECHNOLOGIES HOLDINGS INC	0.004337
STARBUCKS CORP	0.000329
STERIS PLC	0.001117
SYNOPSIS INC	0.002920
T ROWE PRICE GROUP INC	0.003007
T-MOBILE US INC	0.000169
TAKE-TWO INTERACTIVE SOFTWARE IN	0.000895
TARGET CORP	0.015111
TE CONNECTIVITY LTD	0.002421
TEXAS INSTRUMENTS INC	0.006495
THERMO FISHER SCIENTIFIC INC	0.003964
TORO CO	0.005118
TRACTOR SUPPLY COMPANY	0.006565



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TRADEWEB MARKETS INC	0.001942
TYLER TECHNOLOGIES INC	0.003015
UNITED PARCEL SERVICE-CL B	0.000144
UNITED THERAPEUTICS CORP	0.004203
UNITEDHEALTH GROUP INC	0.004646
VERISIGN INC	0.007089
VERIZON COMMUNICATIONS INC	0.011909
VISA INC-CLASS A SHARES	0.001445
VMWARE INC-CLASS A	0.002347
WALMART INC	0.011747
WASTE MANAGEMENT INC	0.005831
WATERS CORP	0.006163
WATSCO INC	0.003708
WEST PHARMACEUTICAL SERVICES INC	0.003523
WESTERN UN CO	0.001470
WILLIS TOWERS WATSON PLC	0.003224
WW GRAINGER INC	0.004729
YUM CHINA HOLDINGS INC	0.003946
YUM! BRANDS	0.005475
ZOETIS INC	0.002711

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