



GM GCCL and Approved Product Catalog

Revision: 5.0, Date: 12/04/2025

[Product Recommendation](#)

SMC Corporation (of America)



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QUICK REFERENCE SECTIONS



[Air Preparation Equipment](#)



[Valves and Controls](#)



[Mechanical Design Guide](#)



[Sensors and Instrumentation](#)



[Vacuum](#)



[Flow Controls, Tubing, Fittings](#)



[Global Contact Information](#)

REVISION INFORMATION¹

| Revision | Date Revised | Content | Pages Affected |
|----------|--------------|---|----------------|
| 1.0 | 12-10-2020 | Creation of GCCL Specification Book, Add online catalog | All |
| 2.0 | 11/4/2021 | Reformat GCCL Specification Book | All |
| 2.1 | 11/4/2021 | Added New GM Logo | 1 |
| 2.2 | 11/4/2021 | Updated ISE70-F02-43-X504 with ISE70-F02-L2 pressure switch | 24 |
| 2.3 | 11/4/2021 | Updated obsolete part numbers (ISE*, ZFC, ZH*) | 24, 25 |
| 2.4 | 11/4/2021 | Added KQ2 Fitting Part Numbers, Added KR Part Numbers | 34-78 |
| 2.5 | 11/4/2021 | Added KR Part Numbers | 34-78 |
| 2.6 | 6/6/2022 | Updated AC Part Numbers (AC40X*, AC60X-F06*, AC60X-F10*), Corrected (Removed "metal") AN Part Numbers | 5, 12 |
| 2.7 | 6/21/2022 | Updated AC Part Numbers (AC40X*, AC60X-F06*, AC60X-F10*) | 5 |
| 2.8 | 2/9/2023 | Removed DAK00314 and DAK00315, Added VQ4000-PW-03F-X530 & VQ5000-PW-04F-X530 | 15, 17 |
| 3.0 | 1/11/2024 | Updated as of 10/24/2023 to remove/add part numbers approved by GCCL. For details, request separate documentation | All |
| 3.1 | 04/01/2024 | Update errors | All |
| 3.2 | 07/03/2024 | Add KEB | 36 |
| 3.3 | 10/16/2024 | Update remove/add part numbers. Section updates include Air Preparation, Sensors, Actuators (Mechanical Design), Valves | All |
| 4.0 | 05/20/2025 | Updated as of 05/20/2025 to remove/add part numbers approved by GCCL. For details, request separate documentation | All |
| 5.0 | 8/14/2025 | Q2-2025 GCCL Release Revision | All |

¹Minor updates will be measured in 0.1 increments, while major/annual updates will be measure in 1.0 increments.


RESOURCES

- Website: www.smcusa.com
 - Secondary Battery Configurators, <https://www.smcusa.com/products/secondary-battery/>
- Global Website: www.smcworld.com
- Instruction/Operation Manuals and Configuration Files: <https://www.smcusa.com/help-support/instruction-manuals-and-operation-configuration-files>
- E-tools
 - Software Sizing tools: <https://www.smcusa.com/help-support/etools/>
 - Sensor/Switch Procedure Setting tool <https://mssc.smcworld.com/dsmss/index.php/?language=en>
 - Electric Actuator Selection Software <https://www.smcworld.com/select/eamss/en-jp/index.html>


AIR PREPARATION

SMC's air preparation (FRL) products offer a wide variety of filter, regulator, and lubricator units. Combination units include air filter regulator, mist separator, as well as ambient dryers, booster regulators, precision regulators, and a wide range of accessories.

AIR PREPARATION ASSEMBLIES, AC SERIES


| | | | |
|---|---|--------|-------------|
|  <i>*Representative Image</i> | Documentation: www.smccusa.com/gm Standard product configurator/catalog: https://www.smccusa.com/products/airline-equipment/combination-units/ac-d~165150 | | |
| Assemblies | | | |
| SMC Part Number | Description | GCCL # | Common Code |
| AC40X-F04-6-D-X2249 | Air Prep Assembly, Global Station, 1/2" G, AC-D Series | 31803 | 0361-01V0 |
| AC40X-F04-6-D-X2250 | Air Prep Assembly, Brake and Fluid Fill, 1/2" G, AC-D Series | 31815 | 0361-01TT |
| AC40X-F04-6-D-X2251 | Air Prep Assembly, General Assembly, 1/2" G, AC-D Series | 31813 | 0361-01V5 |
| AC40X-F04-D-X2246 | Air Prep Assembly, Turntable Main Feed, 1/2" G, AC-D Series | 31806 | 0361-01V1 |
| AC40X-F06-6-D-X2252 | Air Prep Assembly, Low Automation, 3/4" G, AC-D Series | 31810 | 0361-01V2 |
| AC40X-F04-6-D-X2344 | Air Prep Assembly, Global Offline, 1/2" G, AC-D Series | 31809 | |
| AC50X-F06-6-D-X2249 | Air Prep Assembly, Global Station, 3/4" G, AC-D Series | 31802 | 0361-01V7 |
| AC50X-F06-D-X2246 | Air Prep Assembly, Turntable Main Feed, 3/4" G, AC-D Series | 31805 | 0361-01V3 |
| AC50X-F06-6-D-X2113 | Air Prep Assembly, Robot, Weld, 3/4" G, AC-D Series | 31799 | |
| AC50X-F06-6-D-X2114 | Air Prep Assembly, Robot, General, 3/4" G, AC-D Series | 31800 | |
| AC60X-F06-6-D-X2106 | Air Prep Assembly, General Assembly, 3/4" G, AC-D Series | 31812 | 0361-01TX |
| AC60X-F06-6-D-X2250 | Air Prep Assembly, Brake and Fluid Fill, 3/4" G, AC-D Series | 31814 | 0361-01TV |
| AC60X-F10-6-D-X2109 | Air Prep Assembly, General Assembly, 1" G, AC-D Series | 31811 | 0361-01TY |
| AC60X-F10-6-D-X2249 | Air Prep Assembly, Global Station, 1" G, AC-D Series | 31801 | 0361-01TW |
| AC60X-F06-6-D-X2105 | Air Prep Assembly, Global Offline, 3/4" G, AC-D Series | 31808 | |
| AC60X-F10-6-D-X2112 | Air Prep Assembly, Global Offline, 1" G, AC-D Series | 31807 | |
| AC60X-F10-6-D-X2118 | Air Prep Assembly, Robot, High Volume, 1" G, AC-D Series | 31798 | |

AIR FILTERS, AF SERIES

|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/airline-equipment/filters/af-d~165156 | | |
|---|---|--------|-------------|
| SMC Part Number | Description | GCCL # | Common Code |
| AF30-F02-6-D | Filter, 1/4 Inch - G Thread, 5 Micron, Nylon Bowl | 31422 | 0339-7Y93 |
| AF40-F03-6-D | Filter, 3/8 Inch - G Thread, 5 Micron, Nylon Bowl | 31423 | 0339-7Y94 |
| AF40-F04-6-D | Filter, Particulate, 5 Micron, 1/2" G Thread with Nylon Bowl, AC-D Series | 31429 | 0339-7Y2W |
| AF50-F06-6-D | Filter, Particulate, 5 Micron, 3/4" G Thread with Nylon Bowl, AC-D Series | 31430 | 0339-7Y2X |
| AF60-F10-6-D | Filter, Particulate, 5 Micron, 1" G Thread with Nylon Bowl, AC-D Series | 31431 | 0339-7Y2Y |
| AF800-N12 | Filter, Particulate, 5 Micron 1 1/4 in - NPT thread | | 03397HVJ |
| AF800-N14 | Filter, Particulate, 5 Micron 1 1/2 in - NPT thread | | 03397JYM |
| AF900-N20 | Filter, Particulate, 5 Micron 2 in - NPT thread | | 03397HNF |
| Air Filter and Regulator Combo | | | |
| AW30-F02-6-D | Filter/Regulator Combined to One Unit, 1/4 Inch - G Thread, Relieving Type, with Nylon Bowl | | |
| AW30-F03-6-D | Filter/Regulator Combined to One Unit, 3/8 Inch - G Thread, Relieving Type, with Nylon Bowl | | |
| AW60-F06-6-D | Filter/Regulator Combined to One Unit, 3/4 Inch - G Thread, Relieving Type, with Nylon Bowl | | |
| AW60-F10-6-D | Filter/Regulator Combined to One Unit, 1 Inch - G Thread, Relieving Type, with Nylon Bowl | | |
| AW30K-F02-6-D | Filter/Regulator Combined to One Unit, 1/4 Inch - G Thread, Backflow, Relieving Type, with Nylon Bowl | | |
| AW30K-F03-6-D | Filter/Regulator Combined to One Unit, 3/8 Inch - G Thread, Backflow, Relieving Type, with Nylon Bowl | | |
| AW40K-F04-6-D | Filter/Regulator Combined to One Unit, 1/2" G, Backflow, Relieving Type, Nylon Bowl, AC-D Series | 31453 | 0361-01TP |
| AW40K-F06-6-D | Filter/Regulator Combined to One Unit, 3/4" G, Backflow, Relieving Type, Nylon Bowl, AC-D Series | 31454 | 0361-01TR |
| AW60K-F06-6-D | Filter/Regulator Combined to One Unit, 3/4" G, Backflow, Relieving Type, Nylon Bowl, AC-D Series | 31455 | 0361-01TN |
| AW40-F04-6-D | Filter/Regulator, 1/2 Inch - G Thread, 5 Micron, Relieving Type, Nylon Bowl | 31419 | 0361-01W6 |
| Maintenance Parts | | | |


| | | | |
|------------|--|-------|----------|
| AF30P-060S | Filter, Replacement Element for AF30 Series | 31439 | 029768XH |
| AF40P-060S | Filter, Replacement Element for AF40 Series | 31440 | 029768HN |
| AF50P-060S | Filter, Replacement Element for AF50 Series | 31441 | 029768TG |
| AF60P-060S | Filter, Replacement Element for AF60 Series | 31442 | 029768WA |
| AW60P-060S | Filter, Replacement Element for AW60 Series | 31417 | |
| 11345-5B | Filter, Replacement Element for AF800 Series | 31443 | 029768CH |
| 11352-5B | Filter, Replacement Element for AF900 Series | 31444 | 029768GF |

MIST SEPARATORS, AFM/AWM/AM SERIES

|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm Standard product configurator/catalog: https://www.smcusa.com/products/airline-equipment/filters/afm-d~165159 | | |
|---|---|--------|-------------|
| | Mist Separator | | |
| SMC Part Number | Description | GCCL # | Common Code |
| AFM30-F02-6-D | Mist Separator, 1/4 Inch – G Thread, 0.3 Micron, Relieving Type with Nylon Bowl | | |
| AFM30-F03-6-D | Mist Separator, 3/8 Inch - G Thread, 0.3 Micron, Relieving Type with Nylon Bowl | | |
| AFM40-F04-6-D | Mist Separator, 1/2" G Thread, 0.3 Micron, Relieving Type, with Nylon Bowl, AC-D Series | 31456 | 0709-02CX |
| AFM40-F06-6-D | Mist Separator, 3/4" G Thread, 0.3 Micron, Relieving Type, with Nylon Bowl, AC-D Series | 31457 | 0709-02CY |
| Mist Separator and Regulator Combo | | | |
| AWM30-F03-6-D | Mist Separator/Regulator, 3/8 Inch - G Thread, 0.3 Micron, Relieving Type, Nylon Bowl | 31496 | 0361-01W4 |
| AWM40-F04-6-D | Mist Separator/Regulator, 1/2 Inch - G Thread, 0.3 Micron, Relieving Type, Nylon Bowl | 31497 | 0361-01W5 |
| Mainline | | | |
| AM350C-F03B-T | Coalescent Filter, 0.3 Micron, 3/8 Inch - G Thread & Element Service Indicator | | |
| AM450C-F04B-T | Coalescent Filter, 0.3 Micron, 3/8 Inch - G Thread & Element Service Indicator | | |
| AM850-F14B-T | Coalescent Filter, 0.3 Micron, 1-1/2 Inch - G Thread & Element Service Indicator | | |

| | | | |
|--------------------------|--|-------|-----------|
| AM850-F20B-T | Coalescent Filter, 0.3 Micron, 2 Inch - G Thread & Element Service Indicator | | |
| AM60-F10-L-D | Coalescing Mist Separator 1" G Thread, 0.1 Micron, Relieving Type, Element Service Indicator, with Stainless Steel Bowl, AC-D Series | 31458 | 0709-02D0 |
| AM550C-F06-T | Coalescent Filter, 0.3 Micron 3/4 Inch - G Thread & Element Service Indicator | 31420 | 0709-0299 |
| AM650-F10-T | Coalescent Filter, 0.3 Micron 1 Inch- G Thread & Element Service Indicator | 31421 | 070901A5 |
| AM850-N14-T | Coalescent Filter, 0.3 Micron 1-1/2 in - NPT thread & Element Service Indicator | | 07090188 |
| AM850-N20-T | Coalescent Filter, 0.3 Micron 2 in - NPT thread & Element Service Indicator | | 07090181 |
| Maintenance Parts | | | |
| AFM30P-060AS | Filter, Replacement Element for AFM30 Series | | |
| AFM40P-060AS | Filter, Replacement Element for AFM40 Series | | |
| AWM30P-090AS | Replacement Element for AWM30 Series | | 029768WF |
| AWM40P-090AS | Replacement Element for AWM40 Series | | 029768WG |
| AM-EL350 | Filter, Replacement Element for AM350 Series | | |
| AM-EL450 | Filter, Replacement Element for AM450 Series | | |
| AM-EL550 | Filter, Replacement Element for AM550 Series | 31436 | 02976892 |
| AM-EL650 | Filter, Replacement Element for AM650 Series | 31437 | 02976893 |
| AM-EL850 | Filter, Replacement Element for AM850 Series | 31438 | 02976894 |
| AM64P-060AS | Filter, Replacement Element for AM60 Series | 31416 | |
| AM44P-060AS | Filter, Replacement Element for AM40 Series | 31418 | |


REGULATORS AND GAUGES, AR/IR/G/K SERIES

|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/airline-equipment/pressure-regulators/air-regulators/ar-d~165153 | | |
|---|---|--------|-------------|
| | Regulator | | |
| SMC Part Number | Description | GCCL # | Common Code |
| ARX20-F01B | Regulator, Panel Mount 1/8 Inch G Thread, with Bracket | 32002 | 065734N4 |

| | | | |
|----------------------------|---|-------|-----------|
| AR20-F01B-D | Regulator, 1/8 Inch - G Thread, Inline Relieving Type with Bracket | 31486 | 0657-38F7 |
| AR30-F02B-D | Regulator, 1/4 Inch - G Thread, Inline Relieving Type with Bracket | 31487 | 0657-38F4 |
| AR30K-F02B-D | Regulator, 1/4 Inch - G Thread, Backflow, Inline Relieving Type with Bracket | | |
| AR30K-F03B-D | Regulator, 3/8 Inch - G Thread, Backflow, Inline Relieving Type with Bracket | 31492 | 0657-38FA |
| AR40-F03B-D | Regulator, 3/8 Inch - G Thread, Inline Relieving Type with Bracket | 31488 | 0657-38F8 |
| AR40-F04B-D | Regulator, 1/2 Inch - G Thread, Inline Relieving Type with Bracket | 31489 | 0657-38F6 |
| AR40K-F04B-D | Regulator, 1/2 Inch - G Thread, Backflow, Inline Relieving Type with Bracket | 31493 | 0657-38FH |
| AR40K-F06B-D | Regulator, 3/4 Inch - G Thread, Backflow, Incline Relieving Type with Bracket | 31494 | 0657-38FF |
| AR50-F06B-D | Regulator, 3/4 Inch - G Thread, Inline Relieving Type with Bracket | 31490 | 0657-38F5 |
| AR50K-F06B-D | Regulator, 3/4 Inch - G Thread, Backflow, Inline Relieving Type with Bracket | 31495 | 0657-38FG |
| AR60-F10B-D | Regulator, 1 Inch - G Thread, Inline Relieving Type with Bracket | 31491 | 0657-38F9 |
| AR60K-F10B-D | Regulator, 1 Inch - G Thread, Backflow, Inline Relieving Type with Bracket | | |
| AR825-F14 | Regulator, 1-1/2 Inch - G Thread, Inline Relieving Type | | |
| AR825-N14 | Regulator, 1-1/2 in - NPT thread, Inline Relieving Type | | |
| AR925-F20 | Regulator, 2 Inch - G Thread, Inline Relieving Type | | |
| AR925-N20 | Regulator, 2 in - NPT thread, Inline Relieving Type | | 0657-3515 |
| Precision Regulator | | | |
| IR1000-F01B-A | Precision Regulator, 1/8 Inch - G Thread, 0.005 to 0.2 MPa Set Pressure Range with Bracket, Flow Rate to 720 L/min | | |
| IR1020-F01BG-A-X1073 | Precision Regulator, High Relief, 0.01 - 0.8 MPa, 1/8 Inch Thread, G port, with Adjustable Range Indicator Gauge and Bracket, Flow Rate to 400 L/min | 32005 | 0657-38AA |
| IR2000-F02B-A | Regulator, Precision, 1/4 in - G thread, 0.005 To 0.2 MPa Set Pressure Range with Bracket, Flow Rate to 600 L/min | 31472 | 0657-37M4 |
| IR2020-F02BG-A-X1073 | Precision Regulator, High Relief, 0.01 - 0.8 MPa, 1/4 Inch Thread, G port, with Adjustable Range Indicator Gauge and Bracket, Flow Rate to 1000 L/min | 32006 | 0657-38A9 |
| IR3000-F03B-A | Regulator, Precision, 3/8 in - G thread, 0.01 To 0.2 MPa Set Pressure Range with Bracket, Flow Rate to 3000 L/min | 31473 | 0657-38A6 |
| IR3000-F04B-A | Precision Regulator, 1/2 Inch - G Thread, 0.01 to 0.2 MPa Set Pressure Range with Bracket, Flow Rate to 3000 L/min | | |
| IR3020-F02BG-A-X1073 | Precision Regulator, High Relief, 0.01 - 0.8 MPa, 1/4 Inch Thread, G port, with Adjustable Range Indicator Gauge and Bracket, Flow Rate to 5000 L/min | 32003 | 0657-38AG |


| | | | |
|----------------------|---|-------|-----------|
| IR3020-F03BG-A-X1073 | Precision Regulator, High Relief, 0.01 - 0.8 MPa, 3/8 Inch Thread, G port, with Adjustable Range Indicator Gauge and Bracket, Flow Rate to 5000 L/min | 32004 | 0657-38AH |
| IR3020-F04BG-A-X1073 | Precision Regulator, High Relief, 0.01 - 0.8 MPa, 1/2 Inch Thread, G port, with Adjustable Range Indicator Gauge and Bracket, Flow Rate to 5000 L/min | 30314 | 0657-38A8 |
| IR3120-F02BG-X173 | Precision Regulator, High Relief, Air Pilot Operated, 0.01 - 0.8 MPa, 1/4 Inch Thread, G Port, with Adjustable Range Indicator Gauge and Bracket, Flow Rate to 5000 L/min | 30315 | 0657-38A7 |
| IR3120-F03BG-X173 | Precision Regulator, High Relief, Air Pilot Operated, 0.01 - 0.8 MPa, 3/8 Inch Thread, G Port, with Adjustable Range Indicator Gauge and Bracket, Flow Rate to 5000 L/min | 30306 | 0657-38AJ |
| IR3120-F04BG-X173 | Precision Regulator, High Relief, Air Pilot Operated, 0.01 - 0.8 MPa, 1/2 Inch Thread, G Port, with Adjustable Range Indicator Gauge and Bracket, Flow Rate to 5000 L/min | 30316 | 0657-38AF |
| Gauge | | | |
| G36-P10-01-L-X30 | Gauge, air only, 1/8 " PT male connection, adjustable range indicators, scale 0 to 1 MPa, 36 mm diameter | 31500 | 03666ATT |
| G46-P10-02-L-X30 | Gauge, air only, 1/4 " PT male connection, adjustable range indicators, scale 0 to 1 MPa, 46 mm diameter | 31401 | 036669WW |
| K50-MP0.7-02MS | Gauge, Water, (0-100 PSI), 1/4 Inch - PT Thread | 31402 | 036666AR |

LUBRICATORS, AL SERIES

| | | | |
|---|---|-------------|--------------------|
|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/airline-equipment/lubricators/al-d~165165 | | |
| | SMC Part Number | Description | GCCL # Common Code |
| AL30-F02-6-D | Lubricator, 1/4 Inch - G Thread, 55 CM ³ Oil Capacity, Nylon Bowl | 31475 | 0499-0ADA |
| AL30-F03-6-D | Lubricator, 3/8 Inch - G Thread, 55 CM ³ Oil Capacity, Nylon Bowl | 31476 | 0499-0AD6 |
| AL40-F04-6-D | Lubricator, 1/2 Inch - G Thread, 135 CM ³ Oil Capacity, Nylon Bowl | 31477 | 0499-0AD8 |
| AL50-F06-6-D | Lubricator, 3/4 Inch - G Thread, 135 CM ³ Oil Capacity, Nylon Bowl | 31478 | 0499-0AD7 |
| AL60-F10-6-D | Lubricator, 1 Inch - G Thread, 135 CM ³ Oil Capacity, Nylon Bowl | 31479 | 0499-0AD9 |
| Mainline | | | |
| AL800-F14 | Lubricator, 1 1/2 Inch - G thread, with Site Gauge & Drain Cock, Cap. 440cm ³ | | 049909L8 |
| AL800-N14 | Lubricator, 1 1/2 Inch - NPT thread, with Site Gauge & Drain Cock | | |
| AL900-F20 | Lubricator, 2 Inch -G thread, with Site Gauge & Drain Cock, Cap. 440cm ³ | | 049909L9 |


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|-----------|--|--|--|
| AL900-N20 | Lubricator, 2 Inch -NPT thread, with Site Gauge & Drain Cock | | |
|-----------|--|--|--|

AIR PREPARATION ASSEMBLY ACCESSORIES, VARIES


| | | | |
|---|---|-------------|--------------------|
|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/airline-equipment/combination-units/ac-d/accessories-attachments~170607 | | |
| | SMC Part Number | Description | GCCL # Common Code |
| Y44-F03-D | Air Prep Accessory, Cross Spacer, 3/8" | | |
| Y300-D | Air Prep Accessory, Spacer, 1/4" or 3/8" | | |
| T300T-D | Air Prep Accessory, Spacer, 1/4" or 3/8", with Mounting Bracket | | |
| Y400-D | Air Prep Accessory, Spacer, 1/2", Spare for Air Prep Assembly, AC-D Series | 31776 | 0762-6G5N |
| Y400T-D | Air Prep Accessory, Spacer, 1/2", With Mounting Bracket, Spare for Air Prep Assembly, AC-D Series | 31779 | 0762-6G5L |
| Y410-F02-1-D | Air Prep Accessory, Pressure Switch Mount For 1/4" Or 1/2" With 3/8" - G Thread, Spare for Air Prep Assembly, AC-D Series | 31774 | 0762-6G5G |
| Y500-D | Air Prep Accessory, Spacer, 3/4", Spare for Air Prep Assembly, AC-D Series | 31777 | 0762-6G5P |
| Y500T-D | Air Prep Accessory, Spacer, 3/4", With Mounting Bracket, Spare for Air Prep Assembly, AC-D Series | 31780 | 0762-6G5J |
| Y600-D | Air Prep Accessory, Spacer, 3/4" Or 1", Spare for Air Prep Assembly, AC-D Series | 31778 | 0762-6G5M |
| Y600T-D | Air Prep Accessory, Spacer, 3/4" Or 1", With Mounting Bracket, Spare for Air Prep Assembly, AC-D Series | 31781 | 0762-6G5K |
| Y610-F03-1-D | Air Prep Accessory, Pressure Switch Mount For 3/4" Or 1" With 3/8" - G Thread, Spare for Air Prep Assembly, AC-D Series | 31775 | 0762-6G5F |
| E400-F04-D | Air Prep Accessory, Piping Adapter, 1/2" G, Spare for Air Prep Assembly, AC-D Series | 31782 | 0009-DC9A |
| E500-F06-D | Air Prep Accessory, Piping Adapter, 3/4" G, Spare for Air Prep Assembly, AC-D Series | 31783 | 0009-DC97 |
| E600-F06-D | Air Prep Accessory, Piping Adapter, 3/4" G, Spare for Air Prep Assembly, AC-D Series | 31784 | 0009-DC98 |
| E600L-F06-D | Air Prep Accessory, L-Piping Adapter, 3/4" G, Spare for Air Prep Assembly, AC-D | 31624 | |
| E600L-F10-D | Air Prep Accessory, L-Piping Adapter, 1" G, Spare for Air Prep Assembly, AC-D | 31623 | |

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|------------|--|-------|-----------|
| E600-F10-D | Air Prep Accessory, Piping Adapter, 1" G, Spare for Air Prep Assembly, AC-D Series | 31785 | 0009-DC99 |
|------------|--|-------|-----------|


SOFT START VALVES

| | | | |
|---|---|-------------|--------------------|
|  <p><i>*Representative Image</i></p> | Documentation: www.smccusa.com/gm Standard product configurator/catalog: https://www.smccusa.com/products/airline-equipment/soft-start-up-valve~158030 | | |
| | SMC Part Number | Description | GCCL # Common Code |
| AVA4000-F04-A | Air Prep Accessory, Soft Start Valve, 1/2" G | | 31375 |
| AVL4000-F04-A | Air Prep Accessory, Soft Start Valve, 1/2" G, Lockout Type, Spare for Air Prep Assembly | | 31786 088922Y8 |
| AVL5000-F06-A | Air Prep Accessory, Soft Start Valve, 3/4" G, Lockout Type, Spare for Air Prep Assembly | | 31787 088922Y7 |
| AVL5000-F10-A | Air Prep Accessory, Soft Start Valve, 1" G, Lockout Type, Spare for Air Prep Assembly | | 31788 0889-237H |

DRIP LEGS, FAPP SERIES


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|---|---|--------|-------------|
|  <p><i>*Representative Image</i></p> | Documentation: www.smccusa.com/gm Standard product configurator/catalog/CAD: https://www.smccusa.com/products/fapp-pneumatic-drip-leg~175539 | | |
| | Powertrain Only | | |
| SMC Part Number | Description | GCCL # | Common Code |
| FAPP-04-DDL00026 | Drip Legs, 1/2" G for Powertrain Use Only | 31650 | 047600CY |
| FAPP-06-DDL00006 | Drip Legs, 3/4"G for Powertrain Use Only | 31651 | 047600C1 |
| FAPP-08-DDL00007 | Drip Legs, 1"G for Powertrain Use Only | 31652 | 047600D8 |

EXHAUST CLEANERS AND SILENCERS, AMC AND AN SERIES


| | | | |
|---|---|--------|-------------|
|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/airline-equipment/silencers-exhaust-cleaners~127801 | | |
| | Exhaust Cleaner | | |
| SMC Part Number | Description | GCCL # | Common Code |
| AMC310-03B | Exhaust Cleaner, 3/8 Inch - PT Male Thread, with MTG Bracket | 31322 | 053609N6 |
| AMC320-F03B | Exhaust Cleaner, 3/8 Inch - G Female Thread, with MTG Bracket | 31325 | 053609N4 |
| AMC510-06B | Exhaust Cleaner, 3/4 Inch - PT Male Thread, with MTG Bracket | 31320 | 053609MY |
| AMC520-F04B | Exhaust Cleaner, 1/2 Inch - G Female Thread, with MTG Bracket | 31327 | 053609MH |
| AMC520-F06B | Exhaust Cleaner, 3/4 Inch - G Female Thread, with MTG Bracket | 31326 | 053609N3 |
| AMC610-10B | Exhaust Cleaner, 1 Inch - PT Male Thread, with MTG Bracket | 31321 | 053609N0 |
| AMC810-14 | Exhaust Cleaner, 1-1/2 Inch - PT Male Thread | 31323 | 053609N1 |
| AMC910-20 | Exhaust Cleaner, 2 Inch - PT Male Thread | 31324 | 053609N2 |
| Silencer | | | |
| AN110-01 | Silencer, 1/8 Inch - PT Male Thread | 31313 | 0739037W |
| AN120-M5 | Silencer, 10-32 Inch or M5 Male Thread | 31300 | 0739037T |
| AN202-02 | Silencer, Weld Applications, 1/4 Inch PT Male Thread | 31310 | 07390389 |
| AN302-03 | Silencer, Weld Applications, 3/8 Inch PT Male Thread | 31311 | 0739039J |
| AN402-04 | Silencer, Weld Applications, 1/2 Inch PT Male Thread | 31312 | 0739033N |
| ANA1-01 | Silencer, 1/8 Inch - PT Male Thread | 31301 | 073903AL |
| ANA1-02 | Silencer, 1/4 Inch - PT Male Thread | 31302 | 073903A9 |
| ANA1-03 | Silencer, 3/8 Inch - PT Male Thread | 31303 | 073903AM |
| ANA1-04 | Silencer, 1/2 Inch - PT Male Thread | 31304 | 073903AA |
| ANA1-10 | Silencer, 1 Inch - PT Male Thread | 31306 | 073903AG |
| ANA1-12 | Silencer, 1-1/4 Inch - PT Male Thread | 31307 | 073903AH |
| ANA1-14 | Silencer, 1-1/2 Inch - PT Male Thread | 31308 | 073903AJ |
| ANA1-20 | Silencer, 2 Inch - PT Male Thread | 31309 | 073903AK |
| EBKX-L7004-040 | Silencer, Flat, 1/8 Inch PT Thread, 40 Micron | 31314 | 073903HH |

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|----------------|---|-------|----------|
| EBKX-L7005-040 | Silencer, Flat, 1/4 Inch PT Thread, 40 Micron | 31315 | 073903GR |
| INA-25-88 | Silencer, 3/4 Inch - PT Male Thread | 31305 | 073903AF |

LOCK OUT, VHS SERIES

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|---|---|-------------|--------------------|
|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/vhs-d-pressure-relief-3-port-valve~170609 | | |
| | SMC Part Number | Description | GCCL # Common Code |
| VHS30-F03-M-D | Shut-Off/Lock-Out Valve, 3/8 Inch - G Thread, Red Metal Handle | 31769 | 0889-23VA |
| VHS40-F04-KM-D | Shut-Off/Lock-Out Valve, 1/2 Inch - G Thread, Black Metal Handle | 31768 | 0889-23VF |
| VHS40-F04-M-D | Shut-Off / Lock-Out Valve, 1/2" G, with Red Metal Handle, Body Size 40, AC-D Series | 31770 | 0889-22YA |
| VHS40-F06-M-D | Shut-Off / Lock-Out Valve, 3/4" G, with Red Metal Handle, Body Size 40, AC-D Series | 31771 | 0889-22YF |
| VHS50-F06-M-D | Shut-Off / Lock-Out Valve, 3/4" G, with Red Metal Handle, Body Size 50, AC-D Series | 31772 | 0889-22YG |
| VHS50-F10-M-D | Shut-Off / Lock-Out Valve, 1" G, with Red Metal Handle, Body Size 50, AC-D Series | 31773 | 0889-22Y9 |

BOOSTER REGULATORS

| | | |
|---|--|--|
|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm | |
| | SMC Part Number | Description Website |
| VBA10A-F02 | Booster Regulator, 1/4" - G Thread, 20 Bar / 290 PSI Max Output Pressure, 2:1 Boost Ratio (Propulsion Systems Only) | Link to VBA Configurator on SMCusa.com |
| VBA22A-F03 | Booster Regulator, 3/8" - G Thread, 10 Bar / 145 PSI Max Output Pressure, 2:1 Boost Ratio (Propulsion Systems Only) | Link to VBA Configurator on SMCusa.com |
| VBA42A-F04 | Booster Regulator, 1/2" - G Thread, 10 Bar / 145 PSI Max Output Pressure, 2:1 Boost Ratio (Propulsion Systems Only) | Link to VBA Configurator on SMCusa.com |

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|------------|---|---|
| VBA43A-F04 | Booster Regulator, 1/2" - G Thread, 16 Bar / 232 PSI Max Output Pressure, 2:1 Boost Ratio (Propulsion Systems Only) | Link to VBA Configurator on SMCusa.com |
| VBAT-X105 | Air Tank, ASME Stamped, for use with VBA Booster Regulators (Propulsion Systems Only) | Link to VBAT Configurator on SMCusa.com |


VALVES AND CONTROLS

Directional control valves and manifolds direct air to pneumatic actuators, vacuum equipment and as pilot air for large-scale industrial process valves making them fundamental to industrial automation applications.


SMC pneumatic valves can be actuated manually, pneumatically, or electrically. They can also be connected to industrial fieldbus and I/O capabilities to receive feedback from sensors and actuators using protocols such as: EtherNet/IP, PROFINET, EtherCAT, DeviceNet, Profibus or IO-Link (IEC 61131-9).

SMC valves feature energy saving, low power consumption coils, high flow rates (Cv, SCFM) and quick response times.


VQC2000, MANIFOLD WITH DEVICENET VQC2000 SERIES

| | | | |
|---|---|-------------|----------|
|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/legacy/vqc/2000-series~28382 | | |
| | SMC Part Number | Description | GCCL # |
| VV5QC21-05C8SDQN0-S-X52 | VQC2000 Manifold with EX250-SDN1-X122, 5 Stations, and 8mm One touch Fittings with Built in Silencer | 31100 | 051006MM |


VQC2000, MANIFOLD WITH ETHERNET IP VQC2000 SERIES

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|---|---|-------------|----------|
|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/legacy/vqc/2000-series~28382 | | |
| | SMC Part Number | Description | GCCL # |
| VV5QC21-05C8SEAN0-S-X3029V | VQC2000 Manifold with EX260-SEN1-X194 EtherNet I/P module, 5 Stations, and 8mm One touch Fittings with Built in Silencer | 31110 | 051008D7 |


VQC2000, VALVES VQC2000 SERIES

|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm Standard product configurator/catalog: | | |
|---|---|--------|-------------|
| SMC Part Number | Description | GCCL # | Common Code |
| VQC2101N-51 | VQC2000, Two Position Single Solenoid, Spring Return Valve | 31010 | 08890L2A |
| VQC2201N-51 | Valve, Two Position, Double Solenoid, VQC2000 | 31000 | 08890JN4 |
| VQC2301N-51 | VQC2000, Three Position Closed Center Valve | 31011 | 08890VPL |
| VQC2301N-51-X60 | Valve, Three Position, Closed Center, VQC2000, Detented to A Side Only | 31001 | 088911TA |
| VQC2401N-51 | VQC2000, Three Position Exhaust Center Valve | 31012 | 08890MA1 |
| VQC2501N-51 | VQC2000, Three Position Pressure Center Valve | 31013 | 08890RFK |


VQC2000, ACCESSORIES VQC2000 SERIES

|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/legacy/vqc/2000-series~28382 | | |
|---|---|--------|-------------|
| SMC Part Number | Description | GCCL # | Common Code |
| VVQ2000-10A-1 | Blanking Plate, VQC2000 | 31002 | 0607D8WL |
| VVQ2000-16A | VQC2000 Blocking Disk for P Gallery | 31019 | 0607D9K7 |
| VVQ2000-F-LC8 | VQC2000 90 Degree, Push in Fitting | 31018 | 0294A414 |
| VVQ4000-50B-03F | VQC2000 Brass P Port Fitting. 3/8 Inch G Female | 31017 | 0207GCH6 |
| VVQC1000-M26-1 | Valve Manifold Multi-connector Interface | 31020 | 0207GCHL |
| VVQC2000-1A-D-C8 | VQC2000 Valve Manifold Block | 31015 | 051006M6 |
| VVQC2000-2A-1-C0-S | VQC2000 End Plate U Side | 31016 | 0607DKRW |
| VVQC2000-3A-1-CP-S | VQC2000 End Plate D side | 31014 | 0607F9N3 |

VQC4000, MANIFOLD WITH DEVICENET, VQC4000 SERIES


|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265 | | |
|---|---|--------|-------------|
| Manifolds with DeviceNet | | | |
| SMC Part Number | Description | GCCL # | Common Code |
| VV5QC41-04C16FSDQN0-X25 | VQC4000 Manifold with EX250-SDN1-X122, 4 Stations, and 16mm One touch Fittings | 30000 | 051006KM |
| VV5QC41-08C16FSDQN0-X25 | VQC4000 Manifold with EX250-SDN1-X122, 8 Stations, and 16mm One touch Fittings | 30001 | 051006KN |
| VV5QC41-12C16FSDQN0-X25 | VQC4000 Manifold with EX250-SDN1-X122, 12 Stations, and 16mm One touch Fittings | 30002 | 051006KL |
| VV5QC41-04C12FSDQN0-X25 | VQC4000 Manifold with EX250-SDN1-X122, 4 Stations, and 12mm One touch Fittings | 30050 | 05100728 |
| VV5QC41-08C12FSDQN0-X25 | VQC4000 Manifold with EX250-SDN1-X122, 8 Stations, and 12mm One touch Fittings | 30051 | 05100729 |
| VV5QC41-12C12FSDQN0-X25 | VQC4000 Manifold with EX250-SDN1-X122, 12 Stations, and 12mm One touch Fittings | 30052 | 0510072A |

VQC4000, MANIFOLD WITH ETHERNET IP, VQC4000 SERIES


|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265 | | |
|---|---|--------|-------------|
| Manifolds with EtherNet IP | | | |
| SMC Part Number | Description | GCCL # | Common Code |
| VV5QC41-04C12FSEAN-X132 | VQC4000 Manifold with EX260-SEN1-X194 EtherNet I/P module, 4 Stations, and 12mm One touch Fittings | 30055 | 051008DF |
| VV5QC41-08C12FSEAN-X132 | VQC4000 Manifold with EX260-SEN1-X194 EtherNet I/P module, 8 Stations, and 12mm One touch Fittings | 30056 | 051008DH |
| VV5QC41-12C12FSEAN-X132 | VQC4000 Manifold with EX260-SEN1-X194 EtherNet I/P module, 12 Stations, and 12mm One touch Fittings | 30057 | 051008DK |
| VV5QC41-0403FSEAN-X132 | VQC4000 Manifold with EX260-SEN1-X194 EtherNet I/P module, 4 Stations, and 3/8" G ports | 30075 | 051008DA |

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|------------------------|--|-------|----------|
| VV5QC41-0803FSEAN-X132 | VQC4000 Manifold with EX260-SEN1-X194 EtherNet I/P module, 8 Stations, and 3/8" G ports | 30076 | 051008DG |
| VV5QC41-1203FSEAN-X132 | VQC4000 Manifold with EX260-SEN1-X194 EtherNet I/P module, 12 Stations, and 3/8" G ports | 30077 | 051008DJ |


VQC4000, DISCRETE INPUT VALVE SUB-PLATE WITH M12 CONNECTOR, VQC4000 SERIES

|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265 | | |
|---|---|--------|-------------|
| | Discrete Input Valve Sub-Plate with M12 Connector | | |
| SMC Part Number | Description | GCCL # | Common Code |
| VV5QC41-02C16F-X72 | VQC4000 Manifold with 2 Stations, A and B Port, 16 mm One touch Fittings, Discrete Wired with 4 Pin Connectors | 30010 | 051006MJ |
| VV5QC41-03C16F-X72 | VQC4000 Manifold with 3 Stations, A and B Port, 16 mm One touch Fittings, Discrete Wired with 4 Pin Connectors | 30011 | 051006MK |
| VV5QC41-04C16F-X72 | VQC4000 Manifold with 4 Stations, A and B Port, 16 mm One touch Fittings, Discrete Wired with 4 Pin Connectors | 30012 | 051006ML |
| VV5QC41-02C12F-X72 | VQC4000 Manifold with 2 Stations, A and B Port, 12 mm One touch Fittings, Discrete Wired with 4 Pin Connectors | 30015 | 0510072H |
| VV5QC41-03C12F-X72 | VQC4000 Manifold with 3 Stations, A and B Port, 12 mm One touch Fittings, Discrete Wired with 4 Pin Connectors | 30016 | 0510072J |
| VV5QC41-04C12F-X72 | VQC4000 Manifold with 4 Stations, A and B Port, 12 mm One touch Fittings, Discrete Wired with 4 Pin Connectors | 30017 | 0510072K |
| VV5QC41-02C10F-X72 | VQC4000 Manifold with 2 Stations, A and B Port, 10 mm One touch Fittings, Discrete Wired with 4 Pin Connectors | 30020 | |
| VV5QC41-03C10F-X72 | VQC4000 Manifold with 3 Stations, A and B Port, 10 mm One touch Fittings, Discrete Wired with 4 Pin Connectors | 30021 | |
| VV5QC41-04C10F-X72 | VQC4000 Manifold with 4 Stations, A and B Port, 10 mm One touch Fittings, Discrete Wired with 4 Pin Connectors | 30022 | |
| VQ4000-PW-03F-X530 | Valve, Base, Single, Sub-Base VQC4000, with C4 Pin Connector | 30200 | 0815-0042 |

VQC4000, VALVES VQC4000 SERIES


|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265 | | |
|---|---|--------|-------------|
| | VQC4000 Valves | | |
| SMC Part Number | Description | GCCL # | Common Code |
| VQC4301-51-X60 | Valve, Three Pos., Closed Center, VQC4000, Detented to A Side Only | 32240 | 0889-0TA6 |
| VQC4101-51 | Valve, 2 Pos., Single Solenoid Spring Return, 24 VDC VQC4000 | 30106 | 08890P9F |
| VQC4201-51 | Valve, 2 Pos., Double Solenoid, 24 VDC VQC4000 | 30107 | 08890P9G |
| VQC4301-51 | Valve, 3 Pos., Closed Center, Double Solenoid, 24 VDC VQC4000 | 30108 | 08891GWL |
| VQC4401-51 | Valve, VQC4000 3 Pos., Exhaust Center, Double Solenoid, 24 VDC | 30109 | 08890P9J |
| VQC4501-51 | Valve, VQC4000 3 Pos., Pressure Center, Double Solenoid, 24 VDC | 30110 | 08890P9K |
| VQC4101R-51 | Valve, 2 Pos., Single Solenoid Spring Return, External Pilot, 24 VDC VQC4000 | 32224 | 08890MGG |

VQC4000, ACCESSORIES VQC4000 SERIES

|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265 | | |
|---|---|--------|-------------|
| | Accessories | | |
| SMC Part Number | Description | GCCL # | Common Code |
| VVQ4000-50B-C12-X1 | Valve Manifold Fitting Cassette for VQC4000, 12mm | 30060 | 0207GGC0 |
| VVQ4000-50B-C16-X1 | Valve Manifold Fitting Cassette for VQC4000, 16mm | 30061 | 0207GGC1 |
| VVQ4000-25A-1 | Manifold, Pilot Operated Check Spacer, VQC4000 | 30205 | 0762660N |
| VVQC4000-1A-D-03F | Manifold, Block VQC4000 with 3/8 Inch - G Thread A & B Side Ports | 31150 | 051006JV |
| VVQC4000-3A-2F-X45 | Manifold, D- Side End Plate VQC4000, with 3/4 Inch - G Thread Exhaust Port and 1/2 in G Pressure Port | 31151 | 0607DCMP |
| VVQC4000-2A-1F | Manifold, U-Side End Plate VQC4000 with 3/4 Inch - G Thread Exhaust Port and 1/2 Inch G Pressure Port | 31152 | 0607DALN |


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|----------------------|--|-------|----------|
| VVQC4000-1A-D-C16-X5 | Manifold, Block VQC4000 with 16mm One touch Fittings Built into A & B Side Ports | 31153 | 051006MR |
| VVQ4000-10A-1 | Manifold, Blank Plate VQC4000 | 31200 | 0607DALH |
| VVQ4000-P-1-03F | Manifold, Supply Spacer VQC4000 | 31201 | 076265HY |
| VVQ4000-R-1-03F | Manifold, Exhaust Spacer VQC4000 | 31202 | 076265J0 |
| VVQ4000-16A | Manifold, Gallery Blocking Disc, Galleries 1, 3, and 5, VQC4000 | 31203 | 02664C8P |
| VVQ4000-20A-1 | Manifold, Sandwich Speed Control VQC4000 | 31204 | 076265J1 |
| ARBQ4000-00-P-1 | Manifold, Single Sandwich Regulator, P Port Regulated, VQC4000 | 31205 | 065734MA |
| ARBQ4000-00-A-1 | Manifold, Single Sandwich Regulator, A Port Regulated, VQC4000 | 31206 | 065734MF |
| ARBQ4000-00-B-1 | Manifold, Single Sandwich Regulator, B Port Regulated, VQC4000 | 31207 | 065734MG |

VQC5000, VQC5000 SERIES


|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265 | | |
|---|---|--------|-------------|
| | Manifolds | | |
| SMC Part Number | Description | GCCL # | Common Code |
| VV5QC51-0204F-X3 | VQC5000 Manifold with 2 Stations, and 4 Pin Connectors | 30202 | 051006TF |
| VV5QC51-0304F-X3 | VQC5000 Manifold with 3 Stations, and 4 Pin Connectors | 30203 | 051006TG |
| VV5QC51-0404F-X3 | VQC5000 Manifold with 4 Stations, and 4 Pin Connectors | 30204 | 051006TH |
| VQ5000-PW-04F-X530 | Valve, Base, Single, Sub-Base VQC5000, with C4 Pin Connector | 30201 | 0815001W |
| Valves | | | |
| VQC5101-51 | Valve, 2 Position, Single Solenoid Spring Return, 24 VDC, VQC5000 | 30100 | 08890P95 |
| VQC5101R-51 | Valve, 2 Position, Single Solenoid Spring Return, External Pilot, 24 VDC VQC5000 | 30101 | 08890P96 |
| VQC5201-51 | Valve, 2 Position, Double Solenoid, 24 VDC VQC5000 | 30102 | 08890P97 |
| VQC5301-51 | Valve, 3 Position, Closed Center, Double Solenoid, 24 VDC VQC5000 | 30104 | 08890P99 |
| VQC5401-51 | Valve, 3 Position, Exhaust Center, Double Solenoid, 24 VDC VQC5000 | 30103 | 08891K3T |
| VQC5501-51 | Valve, 3 Position, Pressure Center, Double Solenoid, 24 VDC VQC5000 | 30105 | 08891TN7 |
| Accessories | | | |

| | | | |
|-----------------|--|-------|----------|
| ARBQ5000-00-P-1 | Manifold, Single Sandwich Regulator, P Port Regulated, VQC5000 | 31215 | 065734MH |
| ARBQ5000-00-A-1 | Manifold, Single Sandwich Regulator, A Port Regulated, VQC5000 | 31216 | 065734MJ |
| ARBQ5000-00-B-1 | Manifold, Single Sandwich Regulator, B Port Regulated, VQC5000 | 31217 | 065734MK |


VQC4000, BASE MANIFOLD FOR PROFINET (PROPULSION ONLY – CNC & SPECIALTY EQUIPMENT)

|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm | |
|---|--|---|
| | | |
| SMC Part Number | Description | Website |
| VV5QC41-0403FSDOA | VQC4000 Base Manifold to be used with Profinet Modules (ordered separately), 4 Stations, 3/8" G Port (Propulsion Systems Only) | Link to VV5QC41 Catalog on SMCusa.com |
| VV5QC41-0803FSDOA | VQC4000 Base Manifold to be used with Profinet Modules (ordered separately), 8 Stations, 3/8" G Port (Propulsion Systems Only) | Link to VV5QC41 Catalog on SMCusa.com |
| VV5QC41-1203FSDOA | VQC4000 Base Manifold to be used with Profinet Modules (ordered separately), 12 Stations, 3/8" G Port (Propulsion Systems Only) | Link to VV5QC41 Catalog on SMCusa.com |
| VV5QC51-0403FSDOA | VQC5000 Base Manifold to be used with Profinet Modules (ordered separately), 4 Stations, 3/8" G Port (Propulsion Systems Only) | Link to VV5QC41 Catalog on SMCusa.com |
| VV5QC51-0803FSDOA | VQC5000 Base Manifold to be used with Profinet Modules (ordered separately), 8 Stations, 3/8" G Port (Propulsion Systems Only) | Link to VV5QC41 Catalog on SMCusa.com |
| VV5QC51-1203FSDOA | VQC5000 Base Manifold to be used with Profinet Modules (ordered separately), 12 Stations, 3/8" G Port (Propulsion Systems Only) | Link to VV5QC41 Catalog on SMCusa.com |
| VV5QC21-0403FSDOA | VQC2000 Base Manifold to be used with Profinet Modules (ordered separately), 4 Stations, 3/8" G Port (Propulsion Systems Only) | Link to VV5QC41 Catalog on SMCusa.com |
| VV5QC21-0803FSDOA | VQC2000 Base Manifold to be used with Profinet Modules (ordered separately), 8 Stations, 3/8" G Port (Propulsion Systems Only) | Link to VV5QC41 Catalog on SMCusa.com |
| VV5QC21-1203FSDOA | VQC2000 Base Manifold to be used with Profinet Modules (ordered separately), 12 Stations, 3/8" G Port (Propulsion Systems Only) | Link to VV5QC41 Catalog on SMCusa.com |

BODY PORTED VALVES, VFS SERIES


|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/legacy/vfs~28042 | | |
|---|---|--------|-------------|
| SMC Part Number | Description | GCCL # | Common Code |
| VFS3130-5DZ-02F | Valve, Spring Return Line Mount, 5 Port, 1/4 Inch G Thread, 24 VDC, Sol Activated, 2 Pos. Spring Return, Cv=1.1 | 32203 | 08890PAH |
| VFS3130-5DZ-03F | Valve, 2 Pos. Spring Return, 5 Port, 4 Way, 3/8 Inch G Thread, 24 VDC Solenoid Activated, Cv=1.4 | 32205 | 08890PAK |
| VFS3230-5DZ-03F | Valve, 2 Pos. Detented 5 Port, 4-Way, 3/8 Inch G Thread, 24 VDC Solenoid Activated, Cv=1.4 | 32206 | 08890PAL |
| VFS3330-5DZ-03F | Valve, 3 Pos. Blocked Center, 5 Port, 4 Way, 3/8 Inch G Thread, Solenoid Activated, 24 VDC, Mounted on Base, Cv=1.7 | 32204 | 08890PAJ |
| VQ21A1-DDM00066 | Tip Dress Blow-Off 2 Port 24 VDC with 4 Pin Connector | 31224 | 08890WYR |

AIR OPERATED VALVES, VARIES SERIES

|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/directional-control-valves/3-port-pilot-solenoid/syj~27284 | | |
|---|---|--------|-------------|
| SMC Part Number | Description | GCCL # | Common Code |
| SYA3120-M5 | Valve, 2 Position Spring Return, 5 Port, 4 Way, M5 Thread, Air Pilot Activated, Cv=0.16 | 32232 | 08890T90 |
| SYA3220-M5 | Valve, 2 Position Detented, 5 Port, 4-Way, M5 Thread, Air Pilot Activated, Cv=0.16 | 32230 | 08890T8T |
| SYJA512-M5 | Valve, 2 Position 3 Port, 4 Way, M5 Thread, Air Pilot Activated, Cv=0.14 | 32226 | 08890T8V |
| SYJA5140-01F | Valve, 2 Position Spring Return, 5 Port, 4 Way, 1/8 Inch G Thread, Air Pilot Activated, Cv=0.19 | 32231 | 08890T91 |
| SYJA522-M5 | Valve, 2 Position Detented, 5 Port, 4 Way, M5 Thread, Air Pilot Activated, Cv=0.18 | 32229 | 08890T8W |
| SYJA5240-01F | Valve, 2 Position Detented, 5 Port, 4 Way, 1/8 Inch G Thread, Air Pilot Activated, Cv=0.19 | 32227 | 08890T8X |
| SYJA712-01F | Valve, 2 Position 3 Port, 4 Way, 1/8 Inch G Thread, Air Pilot Activated, Cv=0.77 | 32225 | 08890T92 |
| SYJA722-01F | Valve, 2 Pos. Detented, 5 Port, 4 Way, 1/8 Inch G Thread, Air Pilot Activated, Cv=0.72 | 32228 | 08890T8Y |


| | | | |
|---------------|--|-------|----------|
| VFA5120-02F | Valve, 2 Pos. Spring Return, 5 Port, 4 Way, 1/4 Inch G Thread, Air Pilot Activated, Cv=1.9 | 32207 | 08890PAM |
| VFA5120-03F | Valve, 2 Pos. Spring Return, 5 Port, 4 Way, 3/8 Inch G Thread, Air Pilot Activated, Cv=2.4 | 32211 | 08890PAT |
| VFA5144-03F | Valve, Air Piloted, 2 Position Single Solenoid Spring Return, Base Mounted, 3/8 Inch Port, G Thread | 32248 | 08890WVX |
| VFA5220-02F | Valve, 2 Pos. Detented, 5 Port, 4-Way, 1/4 Inch G Thread, Air Pilot Activated, Cv=1.9 | 32208 | 08890PAN |
| VFA5220-03F | Valve, 2 Pos. Detented, 5 Port, 4-Way, 3/8 Inch G Thread, Air Pilot Activated, Manual Override, Cv=2.4 | 32212 | 08890PAV |
| VFA5244-03F | Valve, Air Piloted, 2 Position Double Solenoid Detented, Base Mounted, 3/8 Inch Port, G Thread | 32249 | 08890WVY |
| VFA5320-03F-P | Valve, Air Piloted, 3 Position Closed Center, Body Ported, 3/8 Inch Port, G Thread | 32246 | 08890WJH |
| VFA5344-03F-P | Valve, 3 Pos. Center Ports Blocked, 5 Port, 4-Way 3/8 Inch G Thread, Air Pilot Activated, Cv=1.7 | 32210 | 08891F54 |
| VFA5420-03F-P | Valve, 3 Pos. Center Exhaust, 5 Port, 4-Way, 3/8 Inch G Thread, Air Pilot Activated, Cv=2.2 | 32209 | 08890PAP |
| VFA5444-03F-P | Valve, Air Piloted, 3 Position Exhaust Center, Base Mounted, 3/8 Inch Port, G Thread | 32250 | |
| VFA5520-03F-P | Valve, Air Piloted, 3 Position Center Pressure, Body Ported, 3/8 Inch Port, G Thread | 32247 | |
| VFA5544-03F-P | Valve, Air Piloted, 3 Position Center Pressure, Base Mounted, 3/8 Inch Port, G Thread | 32251 | |

SERIAL INTERFACE UNITS

| | | | |
|---|---|-------------|---|
|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm | | |
| | SMC Part Number | Description | GCCL |
| EX260-SEN1-X194 | Ethernet I/P Module | 30091 | www.smcusa.com/gm > Valves and Controls |
| EX250-SDN1-X122 | DeviceNet Module with Quick Connect Function Option and Mini Connectors | 30090 | www.smcusa.com/gm > Valves and Controls |
| EX260-SPN1 | Profinet Module with 32 Outputs (Propulsion Systems Only) | | Link to EX260 Configurator on SMCusa.com |


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|------------|--|--|--|
| EX260-SPN3 | Profinet Module with 16 Outputs (Propulsion Systems Only) | | Link to EX260 Configurator on SMCusa.com |
| EX260-FPS1 | Profisafe Module (Propulsion Battery Cell Systems Only) | | Link to EX260 Configurator on SMCusa.com |

MANUAL VALVES, VARIES SERIES

| | | | |
|---|---|-------------|--------------------|
|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/directional-control-valves/mechanical-hand-operated-valve~28728 | | |
| | SMC Part Number | Description | GCCL # Common Code |
| VM830-F01-13 | Valve, Manual with Adjustable Roller Lever, 3 Port, 1/8 Inch G Thread, Cv=0.33 | 32266 | 0889-0VCR |
| EVM430-F01-00 | Valve, Manual (without Actuator), 3 Port, 1/8 Inch G Thread, Cv=0.38 | 32201 | 08890PAF |
| VH200-F02 | Valve, Manual, 3 Position, Closed Center, 4 Port, 1/4 Inch G Thread | 32239 | 08890TA1 |
| VH202-F02 | Valve, Manual, 2 Position 4 Port, 1/4 Inch G Thread | 32237 | 08890TA3 |
| VH400-F04 | Valve, Manual, 3 Position, Closed Center, 4 Port, 1/2 Inch G Thread | 32238 | 08890TA4 |
| VM130-F01-00A | Valve, Manual (without Actuator), 3 Port, 1/8 Inch G Thread, Cv=0.14 | 32202 | |
| VM130-F01-30GA | Valve, Manual with Green Mushroom Push Button, 3 Port, 1/8 Inch G Thread, Cv=0.14 | 32233 | 08891DC6 |
| VM131-F01-01SA | Valve, Manual with Roller Lever, 3 Port, 1/8 Inch G Thread, Cv=0.14 | 32235 | 088918LL |
| VM131-F01-35BA | Valve, 3 Pos. Selector, Black 1/8 Inch G Thread | 32215 | 08891T3N |
| VM131-F01-35GA | Valve, 3 Pos. Selector, Green 1/8 Inch G Thread | 32214 | |
| VM131-F01-35RA | Valve, 3 Pos. Selector, Red, 1/8 Inch G Thread | 32213 | |
| VM430-F01-30B | Valve, Pushbutton, Mushroom, 3 Port, Black 1/8 Inch G Thread | 32216 | 08890PC0 |
| VM430-F01-34B | Valve, Manual Selector, 3 Port, Black 1/8 Inch G Thread | 32219 | 08890PC2 |
| VM430-F01-34R | Valve, Manual Selector, 3 Port, Red 1/8 Inch G Thread | 32218 | 08890PC3 |
| VM830-F01-00 | Valve, Manual without Roller Lever, 3 Port, 1/8 Inch G Thread, Cv=0.33 | 32236 | 08890TC4 |
| VM830-F01-14 | Valve, Manual with Adjustable Roller Lever, 3 Port, 1/8 Inch G Thread, Cv=0.33 | 32234 | 08890TC5 |
| VZM450-F01-00 | Pneumatic Valve without Operator | 32256 | 08890WW2 |
| VZM450-F01-01S | Pneumatic Limit Valve, with Roller Lever Actuator, 1/8 G Thread, Replacement Actuator Part Number VM-01CS | 32254 | 08890WW3 |

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|----------------|--|-------|----------|
| VZM450-F01-02S | Pneumatic Limit Valve, with One Way Roller Lever Actuator, 1/8 G Thread, Replacement Actuator Part Number VM-02CS | 32255 | 08890WW6 |
| VZM450-F01-05 | Pneumatic Limit Valve, with Straight Plunger Actuator, 1/8 G Thread, Replacement Actuator Part Number VM-05C | 32252 | |
| VZM450-F01-06S | Pneumatic Limit Valve, with Roller Plunger Actuator, 1/8 G Thread, Replacement Actuator Part Number VM-06CS | 32253 | 08890WW5 |
| VZM450-F01-30R | Pneumatic Push Button Valve, with Red Mushroom Actuator, 1/8 G Thread, Replacement Actuator Part Number VM-30CR | 32257 | 08890WW7 |
| VZM450-F01-30Y | Pneumatic Push Button Valve, with Yellow Mushroom Actuator, 1/8 G Thread, Replacement Actuator Part Number VM-30CY | 32258 | 08890WW8 |
| VZM450-F01-32B | Pneumatic Push Button Valve, with Black Extended Actuator, 1/8 G Thread, Replacement Actuator Part Number VM-32CB | 32259 | 08890WW9 |
| VZM450-F01-32G | Pneumatic Push Button Valve, with Green Extended Actuator, 1/8 G Thread, Replacement Actuator Part Number VM-32CG | 32260 | 08890WWA |
| VZM450-F01-34B | Pneumatic Push Button Valve, with Black Twist Actuator, 1/8 G Thread, Replacement Actuator Part Number VM-34CB | 32262 | 08890WWG |
| VZM450-F01-34G | Pneumatic Push Button Valve, with Green Twist Actuator, 1/8 G Thread, Replacement Actuator Part Number VM-34CG | 32263 | 08890WWH |
| VZM450-F01-34R | Pneumatic Push Button Valve, with Red Twist Actuator, 1/8 G Thread, Replacement Actuator Part Number VM-34CR | 32261 | 08890WWF |
| VZM450-F01-34Y | Pneumatic Push Button Valve, with Yellow Twist Actuator, 1/8 G Thread, Replacement Actuator Part Number VM-34CY | 32264 | 08890X0M |
| VZM450-F01-36 | Pneumatic Push Button Valve, with Key Selector Actuator, 1/8 G Thread, Replacement Actuator Part Number VM-36C | 32265 | 08890WWJ |
| VZM550-F01-30B | Valve, Pushbutton, Mushroom, 5 Port 1/8 Inch G Thread | 32217 | 08890PC1 |
| VZM550-F01-34B | Valve, Manual Selector, 5 Port, Black 1/8 Inch G Thread | 32220 | 08890PC4 |


SHUTTLE AND RELAY VALVES, VR SERIES

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|---|---|-------------|--------------------|
|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/directional-control-valves/mechanical-hand-operated-valve/vr~28660 | | |
| | SMC Part Number | Description | GCCL # Common Code |
| VR3100-01G | Pneumatic Indicator, Green, 1/8 Inch PT Male Thread | 31404 | 043115WA |
| VR3100-01R | Pneumatic Indicator Red | 31405 | 043115RA |
| VR3100-01O | Pneumatic Indicator orange | 31406 | 043115R9 |
| VR4152-F01A-1 | Valve, Relay, 2 Pos., 5 Port, Double Air Pilot 1/8 Inch G Thread | 32221 | 08890PKK |
| VR1220-F02 | Valve, or, Shuttle, 1/4 Inch G Thread | 32222 | 08890PC6 |


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|---------------|---|-------|----------|
| VR4151-F01B-1 | Valve, Relay, 2 Pos., Spring Offset 1/8 Inch G Thread | 32223 | 08890PC7 |
| VR2110-F01 | Valve, Time Delay, 1/8 Inch G | 32241 | 08890TAM |
| VR1211F-04 | Valve, and with Push in Fitting for 4 mm Tube | 32242 | 08890TAL |
| VR1211F-06 | Valve, and with Push in Fitting for 6 mm Tube | 32243 | 08890TAK |
| VR1210F-04 | Valve, Shuttle with Push in Fitting for 4 mm Tube | 32244 | 08890KTR |
| VR1210F-06 | Valve, Shuttle with Push in Fitting for 6 mm Tube | 32245 | 08890TAJ |

MECHANICAL DESIGN GUIDE


PNEUMATIC ACTUATORS, TIE ROD

| | | |
|---|---|--|
|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm | |
| | SMC Part Number | Website |
| C96S | ISO 15552 Tie Rod Cylinder, 32-100mm Bore | Link to C96S Configurator on SMCusa.com |
| C96S | ISO 15552 Tie Rod Cylinder, 125mm Bore | Link to C96S Configuration on SMCusa.com |
| C95S | ISO 6431 Tie Rod Cylinder, Large Bore, 125mm - 320mm Bore | Link to C95S Configurator on SMCusa.com |


PNEUMATIC ACTUATORS, ROUND BODY

| | | |
|---|---|---|
|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm | |
| | SMC Part Number | Website |
| C85 | ISO 6432 Round Body Cylinder, 8mm - 25mm Bore | Link to C85 Configurator on SMCusa.com |
| C85R | ISO 6432 Round Body Cylinder, Direct Mount 8mm - 25mm Bore | Link to C85R Configuration on SMCusa.com |
| CG1-Z1 | Round Body Cylinder, 20mm - 100mm Bore | Link to CG1-Z1 Conifgurator on SMCusa.com |


PNEUMATIC ACTUATORS, LOCKING CYLINDERS

|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm | |
|---|---|--|
| SMC Part Number | Description | Website |
| CLS | Locking Cylinder, Large Bore, 125mm - 250mm Bore | Link to CLS Configurator on SMCusa.com |
| C96N | Locking Cylinder, 32mm - 100mm Bore | Link to C96N Configuration on SMCusa.com |

PNEUMATIC ACTUATORS, RODLESS


|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm | |
|---|---|---|
| SMC Part Number | Description | Website |
| MY1B-Z | Rodless Cylinder, Mechanically Jointed, 25mm - 40mm Bore | Link to MY1B-Z Configurator on SMCusa.com |
| MY1B | Rodless Cylinder, Mechanically Jointed, 16mm - 100mm Bore | Link to MY1B Configuration on SMCusa.com |
| MY1*W | Rodless Cylinder, Mechanically Jointed, 16mm - 63mm Bore | Link to MY1W Configurator on SMCusa.com |

PNEUMATIC ACTUATORS, COMPACT


|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm | |
|---|---|--|
| SMC Part Number | Description | Website |
| CQ2-Z | Compact Cylinder, Short Stroke without Magnet, 12mm - 25mm Bore | Link to CQ2 Configurator on SMCusa.com |
| CDQ2-Z | Compact Cylinder, Short Stroke with Magnet, 12mm - 100mm Bore | Link to CQ2 Configurator on SMCusa.com |

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| CQ2B-Z | Compact Cylinder, Large Bore, Short Stroke, 125mm - 200mm Bore | Link to CQ2 Configurator on SMCusa.com |
| CDQ2*P | Compact Cylinder, High Magnetic Field Design, 50mm - 80mm Bore | Link to CQ2 Configurator on SMCusa.com |
| C55 | ISO 21287 Compact Cylinder, Short Stroke, 20mm - 100mm Bore | Link to C55 Configurator on SMCusa.com |


PNEUMATIC ACTUATORS, ROTARY

| | | |
|---|---|--|
|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm | |
| | SMC Part Number | Description |
| CRB1 | Rotary Actuator, Vane Type, 10mm - 100mm Bore Size | Link to CRB1 Configurator on SMCusa.com |
| CRA1-Z | Rotary Actuator, Rack and Pinion Type, 30mm - 100mm Bore Size | Link to CRA1-Z Configuration on SMCusa.com |


PNEUMATIC ACTUATORS, GUIDED

| | | |
|---|---|--|
|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm | |
| | SMC Part Number | Description |
| MGP-Z | Compact Guided Cylinder, High Load, 12mm - 100mm Bore Size | Link to MGP Configurator on SMCusa.com |


PNEUMATIC ACTUATORS, STOPPER

|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm | |
|---|---|--|
| SMC Part Number | Description | Website |
| RSH | Stopper Cylinder, Heavy Duty, 20mm - 32mm Bore | Link to RSH Configurator on SMCusa.com |
| RS2H | Stopper Cylinder, Heavy Duty, 50mm - 80mm Bore | Link to RS2H Configuration on SMCusa.com |

PNEUMATIC ACTUATORS, POWER CLAMP

|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm | |
|---|--|---|
| SMC Part Number | Description | Website |
| CKZ3N50TF-*DPF-X3090 | Power Clamp, 50 Bore, 1/4 Inch - G Port, *15 - 135 Degree Opening Angles, Double Lug, P&F Switch Package, with Front Mount | Link to CKZ3N Configuration on SMCusa.com |
| CKZ3N63TF-*DPF-X3090 | Power Clamp, 63 Bore, 1/4 Inch - G Port, *15 - 135 Degree Opening Angles, Double Lug, P&F Switch Package, with Front Mount | Link to CKZ3N Configuration on SMCusa.com |
| CKZ2N80TF-*DP | Power Clamp, 80 Bore, 1/4 Inch - G Port, *15 - 135 Degree Opening Angles, Double Lug, P&F Switch Package | Link to CKZ2N Configuration on SMCusa.com |

PNEUMATIC ACTUATORS, CLAMPING

|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm | |
|---|---|--|
| SMC Part Number | Description | Website |
| CLK2PB50TF-50Y-B-P74SE-XC87 | Clamping Cylinder, Retraction Locking (holding clamped state), 19.5mm Wide Clevis, 50mm Bore, 50mm Stroke, 1/4 G Port | Link to CLK2P Configurator on SMCusa.com |


| | | |
|------------------------------|--|--|
| CLK2PB50TF-50Y-F-P74SE-XC87 | Clamping Cylinder, Extension Locking (holding unclamped state), 19.5mm Wide Clevis, 50mm Bore, 50mm Stroke, 1/4 G Port | Link to CLK2P Configurator on SMCusa.com |
| CLK2PB50TF-100Y-B-P74SE-XC87 | Clamping Cylinder, Retraction Locking (holding clamped state), 19.5mm Wide Clevis, 50mm Bore, 100mm Stroke, 1/4 G Port | Link to CLK2P Configurator on SMCusa.com |
| CLK2PB50TF-100Y-F-P74SE-XC87 | Clamping Cylinder, Extension Locking (holding unclamped state), 19.5mm Wide Clevis, 40mm Bore, 50mm Stroke, 1/4 G Port | Link to CLK2P Configurator on SMCusa.com |
| CLK2PB50TF-150Y-B-P74SE-XC87 | Clamping Cylinder, Retraction Locking (holding clamped state), 19.5mm Wide Clevis, 50mm Bore, 150mm Stroke, 1/4 G Port | Link to CLK2P Configurator on SMCusa.com |
| CLK2PB50TF-150Y-F-P74SE-XC87 | Clamping Cylinder, Extension Locking (holding unclamped state), 19.5mm Wide Clevis, 50mm Bore, 150mm Stroke, 1/4 G Port | Link to CLK2P Configurator on SMCusa.com |
| CLK2PB63TF-50Y-B-P74SE-XC87 | Clamping Cylinder, Retraction Locking (holding clamped state), 19.5mm Wide Clevis, 63mm Bore, 50mm Stroke, 1/4 G Port | Link to CLK2P Configurator on SMCusa.com |
| CLK2PB63TF-50Y-F-P74SE-XC87 | Clamping Cylinder, Extension Locking (holding unclamped state), 19.5mm Wide Clevis, 40mm Bore, 50mm Stroke, 1/4 G Port | Link to CLK2P Configurator on SMCusa.com |
| CLK2PB63TF-100Y-B-P74SE-XC87 | Clamping Cylinder, Retraction Locking (holding clamped state), 19.5mm Wide Clevis, 63mm Bore, 100mm Stroke, 1/4 G Port | Link to CLK2P Configurator on SMCusa.com |
| CLK2PB63TF-100Y-F-P74SE-XC87 | Clamping Cylinder, Extension Locking (holding unclamped state), 19.5mm Wide Clevis, 40mm Bore, 50mm Stroke, 1/4 G Port | Link to CLK2P Configurator on SMCusa.com |
| CLK2PB63TF-150Y-B-P74SE-XC87 | Clamping Cylinder, Retraction Locking (holding clamped state), 19.5mm Wide Clevis, 63mm Bore, 150mm Stroke, 1/4 G Port | Link to CLK2P Configurator on SMCusa.com |
| CLK2PB63TF-150Y-F-P74SE-XC87 | Cylinder, Clamping, Extension Locking (holding unclamped state), 19.5mm Wide Clevis, 63mm Bore, 150mm Stroke, 1/4 G Port | Link to CLK2P Configurator on SMCusa.com |
| CKP1B50TF-50YZ-P74SE | Clamping Cylinder, Non-Locking, 19.5mm Wide Clevis, 50mm Bore, 50mm Stroke, 1/4 G Port | Link to CKP1-Z Details on SMCworld.com |
| CKP1B50TF-100YZ-P74SE | Clamping Cylinder, Non-Locking, 19.5mm Wide Clevis, 50mm Bore, 100mm Stroke, 1/4 G Port | Link to CKP1-Z Details on SMCworld.com |
| CKP1B50TF-150YZ-P74SE | Clamping Cylinder, Non-Locking, 19.5mm Wide Clevis, 50mm Bore, 150mm Stroke, 1/4 G Port | Link to CKP1-Z Details on SMCworld.com |
| CKP1B63TF-50YZ-P74SE | Clamping Cylinder, Non-Locking, 19.5mm Wide Clevis, 63mm Bore, 50mm Stroke, 1/4 G Port | Link to CKP1-Z Details on SMCworld.com |
| CKP1B63TF-100YZ-P74SE | Clamping Cylinder, Non-Locking, 19.5mm Wide Clevis, 63mm Bore, 100mm Stroke, 1/4 G Port | Link to CKP1-Z Details on SMCworld.com |
| CKP1B63TF-150YZ-P74SE | Clamping Cylinder, Non-Locking, 19.5mm Wide Clevis, 63mm Bore, 150mm Stroke, 1/4 G Port | Link to CKP1-Z Details on SMCworld.com |
| C(L)KQP | Pin Clamp Cylinder, Built-in Strong Magnet | Link to CLKQP Configurator on SMCusa.com |

| | | |
|--------|--|---|
| C(L)KU | Pin Clamp Cylinder, w/Small Auto Switch Mounting, Plate Type | Link to CLKU Configurator on SMCusa.com |
| CKZT | Power Clamp Cylinder w/o Arm, 40~80 Bore | Link to CKZT Configurator on SMCusa.com |

SECONDARY BATTERY

Engineered for dry-room compatibility and chemical resistance, these products ensure precision, reliability, and long service life in demanding, particle-sensitive environments. SMC's solutions add value by enhancing productivity, maintaining strict quality standards, and supporting clean manufacturing processes essential for lithium-ion battery production.


PROPULSION BATTERY CELL SYSTEMS ONLY

| | | |
|---|--|---|
|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm General 25A Product Options: www.smcusa.com/products/secondary-battery | |
| | SMC Part Number | Description |
| 25A-SY | Directional Control Valves Required in Low Dew Point Environments, Copper Free, Zinc Free, to be used with Profisafe Module (ordered separately) (Propulsion Battery Systems Only) | Link to 25A-SY Configurator on SMCusa.com |

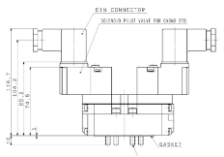
SENSORS AND INSTRUMENTATION

Industrial sensors and switches, sometimes referred to as transducers, installed in the factory automation space can provide essential machine feedback. They can monitor On/Off status, confirm operation within an optimal range, or measure real time operation e.g. pressure or flow.


PRESSURE SWITCH, IS SERIES

| | | | |
|---|---|-------------|-----------|
|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/ise70-71-3-screen-display-digital-pressure-switch-for-air~166300 | | |
| | SMC Part Number | Description | GCCL # |
| ISE70-F02-L2 | Pressure Switch, IO-Link Switch Output 1 + Two Digital Outputs, 0 - 1 .0 MPa, 1/4 Inch G female Thread | 21995 | 0821-PH0N |
| IS10-01-6L | Pressure Switch, 0 - 1 .0 MPa, Two Outputs, 1/8" Inch G female Thread | 21996 | 0821PR0Y |

TIME DELAY MODULE

|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm | | |
|---|---|--|--|
| SMC Part Number | Description | Website | |
| EVST-6-FG-S-3ZRMO-CEI00006 | Electro-Pneumatic Air Supply Module, for Purging Air with an Adjustable Timer and Automatic Closing Function (Propulsion Systems Only) | www.smcusa.com/gm > Sensors & Instrumentation | |

DIGITAL GAP SENSORS

|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm | | |
|---|--|--|--|
| SMC Part Number | Description | Website | |
| ISA3 | Digital Gap Sensor (Part Seated Sensor, Air Catch Sensor) (Propulsion Systems Only) | www.smcusa.com/gm > Sensors & Instrumentation | |


VACUUM

Vacuum generators and suction cups are integral to industrial automation pick and place systems as a gripping solution. Supporting products include vacuum filters, regulators, and vacuum sensors.

SMC suction cups are modular allowing for custom configuration of a multitude of sizes, shapes, materials, and mounting adapters. Options include non-marking types, FDA compliant, various cup shapes, ball-joint connections, and buffers to ensure a perfect fit for every application.


SMC's array of vacuum generators, also referred to as ejectors, have variations that include single ejector unit, manifold, inline, and generator/cup in one.

FIELD BUS VACUUM MANIFOLD

|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/zzkj-vacuum-unit-manifold-type-vacuum-generator-for-fieldbus-system~168739 | | |
|---|---|--------|-------------|
| SMC Part Number | Description | GCCL # | Common Code |
| ZZKJ04-01-DUA00180 | Vacuum Manifold, Ethernet/IP, 4 Stations, 1 Vacuum Ejector | | |

| | | | |
|--------------------|---|--|--|
| ZZKJ04-02-DUA00180 | Vacuum Manifold, Ethernet/IP, 4 Stations, 2 Vacuum Ejectors | | |
| ZZKJ04-03-DUA00180 | Vacuum Manifold, Ethernet/IP, 4 Stations, 3 Vacuum Ejectors | | |
| ZZKJ08-04-DUA00180 | Vacuum Manifold, Ethernet/IP, 8 Stations, 4 Vacuum Ejectors | | |
| ZZKJ08-05-DUA00180 | Vacuum Manifold, Ethernet/IP, 8 Stations, 5 Vacuum Ejectors | | |
| ZZKJ08-06-DUA00180 | Vacuum Manifold, Ethernet/IP, 8 Stations, 6 Vacuum Ejectors | | |
| ZZKJ08-07-DUA00180 | Vacuum Manifold, Ethernet/IP, 8 Stations, 7 Vacuum Ejectors | | |
| ZZKJ12-08-DUA00180 | Vacuum Manifold, Ethernet/IP, 12 Stations, 8 Vacuum Ejectors | | |
| ZZKJ12-09-DUA00180 | Vacuum Manifold, Ethernet/IP, 12 Stations, 9 Vacuum Ejectors | | |
| ZZKJ12-10-DUA00180 | Vacuum Manifold, Ethernet/IP, 12 Stations, 10 Vacuum Ejectors | | |
| ZZKJ12-11-DUA00180 | Vacuum Manifold, Ethernet/IP, 12 Stations, 11 Vacuum Ejectors | | |
| ZZKJ16-12-DUA00180 | Vacuum Manifold, Ethernet/IP, 16 Stations, 12 Vacuum Ejectors | | |
| ZZKJ16-13-DUA00180 | Vacuum Manifold, Ethernet/IP, 16 Stations, 13 Vacuum Ejectors | | |
| ZZKJ16-14-DUA00180 | Vacuum Manifold, Ethernet/IP, 16 Stations, 14 Vacuum Ejectors | | |
| ZZKJ16-15-DUA00180 | Vacuum Manifold, Ethernet/IP, 16 Stations, 15 Vacuum Ejectors | | |

VACUUM


| | | | |
|---|---|-------------|--------------------|
|  <i>*Representative Image</i> | Documentation: www.smcusa.com/gm Standard product configurator/catalog: Link to Vacuum Cups on SMCusa.com | | |
| | SMC Part Number | Description | GCCL # Common Code |
| ZFC74-B | Vacuum, Air Suction Filter, with Push-In Fittings for 6 mm Tube, with Bracket | 31451 | 03397JPR |
| ZH15DSA-08-10-10 | Vacuum Ejector. Body Ported, with Push-In Fittings for Tube. 8 mm Supply, 10 mm Vacuum Port, 10 mm Exhaust | 31559 | 0293016P |
| ZH18DSA-10-12-12 | Vacuum Ejector. Body ported, with Push-In Fittings for Tube. 10 mm Supply, 12 mm Vacuum Port, 12 mm Exhaust | 31551 | 0293016R |
| ZPT100HBN-A16 | Vacuum Pad, 100 mm Diameter, M16 x 1.5 Port, NBR (Propulsion Systems Only) | 31552 | 024121DP |
| ZPT125HBN-A16 | Vacuum Pad, 125 mm Diameter, M16 x 1.5 Port, NBR (Propulsion Systems Only) | 31553 | 024121DY |

| | | | |
|--------------|--|-------|----------|
| ZPT16BN-B5 | Vacuum Pad, 16 mm Diameter, Bellows, M5 x 0.8 Port, NBR (Propulsion Systems Only) | 31554 | 024121F0 |
| ZPT32BN-B5 | Vacuum Pad, 32 mm Diameter, Bellows, M5 x 0.8 Port, NBR (Propulsion Systems Only) | 31555 | 024121F1 |
| ZPT40HBN-A14 | Vacuum Pad, 40 mm Diameter, Bellows, M14 x 1 Port, NBR (Propulsion Systems Only) | 31556 | 024121F2 |
| ZPT50HBN-A14 | Vacuum Pad, 50 mm Diameter, Bellows, M14 x 1 Port, NBR (Propulsion Systems Only) | 31557 | 024121F3 |
| ZPT80HBN-A16 | Vacuum Pad, 80 mm Diameter, Bellows, M16 x 1.5 Port, NBR (Propulsion Systems Only) | 31558 | 0241214X |

FLOW CONTROLS AND CONNECTORS

Speed controllers have the capability to adjust flow to applications with built-in options of integrated check valves, meter-in/meter-out dual flow control, accurate flow indicators and more. Tamper-proof abilities also ensure protected speed measures to the application.


AIR CONTROLS, VARIES

| | | | |
|--|---|-------------|--------------------|
|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/connectors/check-valve~160893 | | |
| | SMC Part Number | Description | GCCL # Common Code |
| AK2000-F01 | Valve, Check 1/8 Inch - G Thread | 31363 | 08890P9Y |
| AK2000-F02 | Valve, Check 1/4 Inch - G Thread | 31364 | 08890K06 |
| AK4000-F03 | Valve, Check 3/8 Inch - G Thread | 31365 | 08890K5W |
| AK4000-F04 | Valve, Check 1/2 Inch - G Thread | 31360 | 08890PA0 |
| AK6000-F06 | Valve, Check 3/4 Inch - G Thread | 31361 | 08890LGM |
| AK6000-F10 | Valve, Check 1 Inch - G Thread | 31362 | 08890LGN |
| AKH08-00 | Check Valve with One touch Fitting for 8 mm Tubing | 31366 | 08890MAL |
| AKH10-00 | Check Valve with One touch Fitting for 10 mm Tubing | 31368 | 08890T8L |
| AQ2000-F01 | Valve, Quick Exhaust, Diaphragm TYP, 1/8 Inch - G Thread | 31343 | 08890P9V |
| AQ3000-F02 | Valve, Quick Exhaust, Diaphragm TYP, 1/4 Inch - G Thread | 31344 | 08890P9W |
| AQ3000-F03 | Valve, Quick Exhaust, Diaphragm TYP, 3/8 Inch - G Thread | 31340 | 08890NGA |
| AQ5000-F04 | Valve, Quick Exhaust, Diaphragm TYP, 1/2 Inch - G Thread | 31341 | 08890KNP |
| AQ5000-F06 | Valve, Quick Exhaust, Diaphragm TYP, 3/4 Inch - G Thread | 31342 | 08890P9X |

| | | | |
|---------------------|--|-------|----------|
| AS2000-F01 | Flow Control, Inline Type 1/8 Inch - G Female Thread Both Ends | 31281 | 08890KNR |
| AS3000-F02 | Flow Control, Inline Type 1/4 Inch - G Female Thread Both Ends | 31282 | 08890KNT |
| AS3000-F03 | Flow Control, Inline Type 3/8 Inch - G Female Thread Both Ends | 31283 | 08890K62 |
| AS4000-F04 | Flow Control, Inline Type 1/2 Inch - G Female Thread Both Ends | 31280 | 08890K64 |
| AS500-F06 | Flow Control, Inline Type 3/4 Inch - G Female Thread Both Ends | 31284 | 08890LK7 |
| AS600-F10 | Flow Control, Inline Type 1 Inch - G Female Thread Both Ends | 31285 | 08890P9N |
| AS800-F12 | Flow Control, Inline Type 1 1/4 Inch - G Female Thread Both Ends | 31286 | 08890P9P |
| AS900-F14 | Flow Control, Inline Type 1-1/2 Inch - G Female Thread Both Ends | 31287 | 08890RL7 |
| AS900-F20 | Flow Control, Inline Type 2 Inch - G Female Thread Both Ends | 31288 | 08890P9T |
| ASP430F-F02-08S | Pilot Operated Check Valve, Plus Flow Control. 1/4 Inch G Male, and One touch Fitting for 8 mm Tube. No Manual Pressure Relief. for Manual Pressure Relief Use 30311 | 30114 | 08890K04 |
| ASP430F-U02-08-X352 | Pilot Operated Check Valve, Plus Flow Control, Plus Pressure Relief. 1/4 Inch Unifit (for G, NPT, Rc ports) Male to Cylinder, 8 mm One touch Fitting to Valve, 1/4 Inch G for Pilot Air | 30311 | 08890LVJ |
| ASP530F-U03-10-X352 | Pilot Operated Check Valve, Plus Flow Control, Plus Pressure Relief. 3/8 Inch Unifit (for G, NPT, Rc ports) Male to Cylinder, 10 mm One touch Fitting to Valve, 3/8 Inch G for Pilot Air | 30312 | 08890LVG |
| ASP630F-U04-12-X352 | Pilot Operated Check Valve, Plus Flow Control, Plus Pressure Relief. 1/2 Inch Unifit (for G, NPT, Rc ports) Male to Cylinder, 12 mm One touch Fitting to Valve, 1/2 Inch G for Pilot Air | 30313 | 08890LVH |
| ASP530F-F03-08S | Pilot Operated Check Valve, Plus Flow Control. 3/8 Inch G Male, and One touch Fitting for 8 mm Tube No Manual Pressure Relief. for Manual Pressure Relief Use 30312 or 30318 | 30115 | 08890T8M |
| ASP630F-F04-10S | Pilot Operated Check Valve, Plus Flow Control. 1/2 Inch G Male, and One touch Fitting for 10 mm Tube No Manual Pressure Relief. for Manual Pressure Relief Use 30313 or 30319 | 30116 | 08890T8N |
| ASS300-F03 | Valve, Slow Start, Meter Out, 3/8 Inch- G Thread, (Meter-In Flow Upon Initial System Pressurization, Meter-Out Flow Thereafter) | 31370 | 08890PA1 |
| ASS500-F04 | Valve, Slow Start, Meter Out, 1/2 Inch- G Thread, (Meter-In Flow Upon Initial System Pressurization, Meter-Out Flow Thereafter) | 31371 | 08890PA2 |
| ASS500-F06 | Valve, Slow Start, Meter Out, 3/4 Inch - G Thread, (Meter-In Flow Upon Initial System Pressurization, Meter-Out Flow Thereafter) | 31372 | 08890PA3 |
| ASS600-F10 | Valve, Slow Start, Meter Out, 1 Inch - G Thread, (Meter-In Flow Upon Initial System Pressurization, Meter-Out Flow Thereafter) | 31373 | 08890PA4 |
| VR51-C06B | Safety, Anti Tie Down, Push-In Fittings for 6 mm Tube | 31367 | 08890TC7 |
| WI500-06 | Water Flow Indicator, 3/4 Inch PT Thread | 31403 | 043115N6 |
| XTO-1239-F02 | Valve, Pilot Operated Check, 1/4 - G Ports, 1/4 - G Pilot Port, Operating Pressure 28.5-140 PSI | 30111 | 08890PP4 |
| XTO-1239-F03 | Valve, Pilot Operated Check, 3/8 - G Ports, 1/4 - G Pilot Port, Operating Pressure 28.5-140 PSI | 30112 | 08890PP5 |

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|--------------|---|-------|----------|
| XTO-1239-F04 | Valve, Pilot Operated Check, 1/2 - G ports, 1/4 - G Pilot Port, Operating Pressure 28.5-140 PSI | 30113 | 08890PP3 |
|--------------|---|-------|----------|

FLOW CONTROLS (ELBOW), AS SERIES

| | | | |
|---|---|-------------|--------------------|
|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog/CAD: https://www.smcusa.com/products/connectors/speed-controllers~22159 | | |
| | SMC Part Number | Description | GCCL # Common Code |
| AS2000-F02 | Flow Control, Inline Type, 1/4 Inch - G Female Thread Both Ends | | |
| AS2201F-01-23SD | Flow Control, 90 Degree Elbow, Meter Out, R 1/8 Port, 3.2 O.D Tube, 1/8 Inch - 1/4 Inch Body | 31258 | 08890WVA |
| AS2201F-02-04SD | Flow Control, 90 Degree Elbow, Meter Out, R 1/4 Port, 4 O.D Tube, 1/8 Inch - 1/4 Inch Body | 31259 | 08890WVF |
| AS2201F-G01-06W2D | Flow Control, 90 Deg, Meter Out, 1/8 Inch G Male, 6mm Tube, Flame Resistant Composite | 31225 | 08890RJ4 |
| AS2201F-G01-08W2D | Flow Control, 90 Deg, Meter Out, 1/8 Inch G male, 8mm Tube, Flame Resistant Composite | 31226 | 08890RJ5 |
| AS2201F-G01-10W2D | Flow Control, 90 Deg, Meter Out, 1/8 Inch G Male, 10mm Tube, Flame Resistant Composite | 31227 | 08890RJ6 |
| AS2201F-G02-06W2D | Flow Control, 90 Deg, Meter Out, 1/4 Inch G Male, 6mm Tube, Flame Resistant Composite | 31228 | 08891PNT |
| AS2201F-G02-08W2D | Flow Control, 90 Deg, Meter Out, 1/4 Inch G Male, 8mm Tube, Flame Resistant Composite | 31229 | 08891H4R |
| AS2201F-G02-10W2D | Flow Control, 90 Deg, Meter Out, 1/4 Inch G Male, 10mm Tube, Flame Resistant Composite | 31230 | 08891H4V |
| AS2200-G01-X396 | Flow Control, 90 Deg, Meter Out, 1/8 Inch G Male and Female, Metal Body | 31253 | 08890RK5 |
| AS2200-G02-X396 | Flow Control, 90 Deg, Meter Out, 1/4 Inch G Male and Female, Metal Body | 31250 | 08890RK2 |
| AS2210-G01-X396 | Flow Control, 90 Deg, Meter In, 1/8 Inch G Male and Female, Metal Body | 31257 | 08890RK9 |
| AS2210-G02-X396 | Flow Control, 90 Deg, Meter In, 1/4 Inch G Male and Female, Metal Body | 31254 | 08890RK6 |
| AS2211F-G01-06W2D | Flow Control, 90 Deg, Meter In, 1/8 Inch G Male, 6mm Tube, Flame Resistant Composite | 31237 | |
| AS2211F-G01-08W2D | Flow Control, 90 Deg, Meter In, 1/8 Inch G Male, 8mm Tube, Flame Resistant Composite | 31238 | 08890RJM |

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|---------------------|---|-------|----------|
| AS2211F-G01-10W2D | Flow Control, 90 Deg, Meter In, 1/8 Inch G Male, 10mm Tube, Flame Resistant Composite | 31239 | |
| AS2211F-G02-06W2D | Flow Control, 90 Deg, Meter In, 1/4 Inch G Male, 6mm Tube, Flame Resistant Composite | 31240 | |
| AS2211F-G02-08W2D | Flow Control, 90 Deg, Meter In, 1/4 Inch G Male, 8mm Tube, Flame Resistant Composite | 31241 | |
| AS2211F-G02-10W2D | Flow Control, 90 Deg, Meter In, 1/4 Inch G Male, 10mm Tube, Flame Resistant Composite | 31242 | |
| AS2301F-01-23SD | Flow Control, Universal Elbow, Meter Out, R 1/8 Port, 3.2 O.D Tube, 1/8 Inch - 1/4 Inch Body | 31263 | 08890WVK |
| AS2301F-02-04SD | Flow Control, Universal Elbow, Meter Out, R 1/4 Port, 4 O.D Tube, 1/8 Inch - 1/4 Inch Body | 31264 | 08890WVL |
| AS3200-G03-X396 | Flow Control, 90 Deg, Meter Out, 3/8 Inch G Male and Female, Metal Body | 31251 | 08890RK3 |
| AS3201F-02-06SD | Flow Control, 90 Degree Elbow, Meter Out, R 1/4 Port, 6 O.D Tube, 3/8 Inch Body | 31260 | 08890WVG |
| AS3201F-03-08SD | Flow Control, 90 Degree Elbow, Meter Out, R 3/8 Port, 8 O.D Tube, 3/8 Inch Body | 31261 | 08890WVH |
| AS3201F-G03-08W2D | Flow Control, 90 Deg, Meter Out, 3/8 Inch G Male, 8mm Tube, Flame Resistant Composite | 31232 | 08891H51 |
| ASP330F-U01-06-X352 | Pilot Operated Check Valve, Plus Flow Control, Plus Pressure Relief. 1/8 Inch Unifit (for G, NPT, Rc ports) Male to Cylinder, 6 mm One Touch Fitting to Valve, 1/8 Inch G For Pilot Air | 30310 | |
| AS3201F-G03-10W2D | Flow Control, 90 Deg, Meter Out, 3/8 Inch G Male, 10mm Tube, Flame Resistant Composite | 31233 | 08891KAX |
| AS3201F-G03-12W2D | Flow Control, 90 Deg, Meter Out, 3/8 Inch G Male, 12mm Tube, Flame Resistant Composite | 31234 | 08890RJH |
| AS3210-G03-X396 | Flow Control, 90 Deg, Meter In, 3/8 Inch G Male and Female, Metal Body | 31255 | 08890RK7 |
| AS3211F-G03-08W2D | Flow Control, 90 Deg, Meter In, 3/8 Inch G Male, 8mm Tube, Flame Resistant Composite | 31244 | |
| AS3211F-G03-10W2D | Flow Control, 90 Deg, Meter In, 3/8 Inch G Male, 10mm Tube, Flame Resistant Composite | 31245 | |
| AS3211F-G03-12W2D | Flow Control, 90 Deg, Meter In, 3/8 Inch G Male, 12mm Tube, Flame Resistant Composite | 31246 | |
| AS3301F-02-06SD | Flow Control, Universal Elbow, Meter Out, R 1/4 Port, 6 O.D Tube, 3/8 Inch Body | 31265 | 08890WVM |
| AS3301F-03-08SD | Flow Control, Universal Elbow, Meter Out, R 3/8 Port, 8 O.D Tube, 3/8 Inch Body | 31266 | 08890WVN |
| AS4200-G04-X396 | Flow Control, 90 Deg, Meter Out, 1/2 Inch G Male and Female, Metal Body | 31252 | 08890RK4 |
| AS4201F-04-10SD | Flow Control, 90 Degree Elbow, Meter Out, R 1/2 Port, 10 O.D Tube, 1/2 Inch Body | 31262 | 08890WVJ |

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|-------------------|--|-------|----------|
| AS4201F-G04-10W2D | Flow Control, 90 Deg, Meter Out, 1/2 Inch G Male, 10mm Tube, Flame Resistant Composite | 31235 | 08891VAT |
| AS4201F-G04-12W2D | Flow Control, 90 Deg, Meter Out, 1/2 Inch G Male, 12mm Tube, Flame Resistant Composite | 31236 | 08891K11 |
| AS4210-G04-X396 | Flow Control, 90 Deg, Meter In, 1/2 Inch G Male and Female, Metal Body | 31256 | 08890RK8 |
| AS4211F-G04-10W2D | Flow Control, 90 Deg, Meter In, 1/2 Inch G Male, 10mm Tube, Flame Resistant Composite | 31247 | |
| AS4211F-G04-12W2D | Flow Control, 90 Deg, Meter In, 1/2 Inch G Male, 12mm Tube, Flame Resistant Composite | 31248 | |
| AS4301F-04-10SD | Flow Control, Universal Elbow, Meter Out, R 1/2 Port, 10 O.D Tube, 1/2 Inch Body | 31267 | 08890WVP |

TUBING

Tubing comes in a variety of material types to accommodate for various media through the connectors. Some material types include polyurethane, fluororesin, polyolefin, flame resistant, water resistant and polyethylene. Varying materials prevent corrosion, damage from high temperatures and hydrolysis.


Tubing is available in sizes of 1/8", 5/32", 3/16", 1/4", 5/16", 3/8" and 1/2". Metric tubing sizes of 3.2, 4, 6, 8, 10, 12 and 16 mm are also available.

Per GCCL 32854: All Tubing Shall be SMC

Weld Areas Should Utilize TRBU Series


General Assembly and Paint Areas Should Utilize TU Series

WELD RESISTANT TUBING, VARIES


| | | | |
|---|---|-------------|----------|
|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog: https://www.smcusa.com/products/connectors/tubing~22059 | | |
| | SMC Part Number | Description | GCCL # |
| TRBU Series | | | |
| TRBU0604BU-20 | Tubing, double layer polyurethane, flame resistant, 6mm, blue, 20m | | 08805960 |
| TRBU0604BU-100 | Tubing, double layer polyurethane, flame resistant, 6mm, blue, 100m | | |
| TRBU0604W-20 | Tubing, double layer polyurethane, flame resistant, 6mm, white, 20m | | 08805963 |
| TRBU0604W-100 | Tubing, double layer polyurethane, flame resistant, 6mm, white, 100m | | |
| TRBU0805BU-20 | Tubing, double layer polyurethane, flame resistant, 8mm, blue, 20m | | 08805938 |
| TRBU0805BU-100 | Tubing, double layer polyurethane, flame resistant, 8mm, blue, 100m | | |

| | | | |
|----------------|---|--|----------|
| TRBU0805W-20 | Tubing, double layer polyurethane, flame resistant, 8mm, white, 20m | | 08805967 |
| TRBU0805W-100 | Tubing, double layer polyurethane, flame resistant, 8mm, white, 100m | | |
| TRBU1065BU-20 | Tubing, double layer polyurethane, flame resistant, 10mm, blue 20m | | 0880596A |
| TRBU1065BU-100 | Tubing, double layer polyurethane, flame resistant, 10mm, blue 100m | | 0880593W |
| TRBU1065W-20 | Tubing, double layer polyurethane, flame resistant, 10mm, white, 20m | | 0880596H |
| TRBU1065W-100 | Tubing, double layer polyurethane, flame resistant, 10mm, white, 100m | | 0880593X |
| TRBU1208BU-20 | Tubing, double layer polyurethane, flame resistant, 12mm, blue 20m | | 0880596L |
| TRBU1208BU-100 | Tubing, double layer polyurethane, flame resistant, 12mm, blue 100m | | 088059R5 |
| TRBU1208W-20 | Tubing, double layer polyurethane, flame resistant, 12mm, white, 20m | | 0880596P |
| TRBU1208W-100 | Tubing, double layer polyurethane, flame resistant, 12mm, white, 100m | | |
| IN-241 Series | | | |
| IN-241-2300BU | Tubing, soft nylon, flame resistant, 16mm, blue, 100m | | 088058F4 |
| IN-241-2300W | Tubing, soft nylon, flame resistant, 16mm, white, 100m | | 088058F9 |


TUBE SKIVERS

| | | | |
|---|---|-------------|--------------------|
|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog: https://www.smcusa.com/products/connectors/accessories/tks~41545 | | |
| | SMC Part Number | Description | GCCL # Common Code |
| TKS Series | | | |
| TKS-06 | Tubing, Double Layer Skiving Tool, 6mm | | 1129014V |
| TKS-08 | Tubing, Double Layer Skiving tool, 8mm | | 1129018N |
| TKS-10 | Tubing, Double Layer Skiving tool, 10mm | | 1129026F |
| TKS-12 | Tubing, Double Layer Skiving tool, 12mm | | 112902GP |

TUBE CUTTERS

|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog: https://www.smcusa.com/products/connectors/accessories/tk~21895 | | |
|---|---|--------|-------------|
| SMC Part Number | Description | GCCL # | Common Code |
| TK Series | | | |
| TK-1 | Tubing, Tube Cutter, 13mm or Less OD | | 0245292V |
| TK-2 | Tubing, Tube Cutter, 18mm or Less OD | | 024529D4 |
| TK-3 | Tubing, Tube Cutter, 12mm or Less OD | | 0245239R |

WELD SPATTER COVERS

|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog: https://www.smcusa.com/products/kr-c1-one-touch-fitting-spatter-cover~21986 | | |
|---|---|--------|-------------|
| SMC Part Number | Description | GCCL # | Common Code |
| KR Series | | | |
| KR-06C-X1807 | Weld spatter cover for 6mm tube, PVC | | |
| KR-08C-X1807 | Weld spatter cover for 8mm tube, PVC | | 0227-6RNR |
| KR-10C-X1807 | Weld spatter cover for 10mm tube, PVC | | |
| KR-12C-X1807 | Weld spatter cover for 12mm tube, PVC | | |
| KR-16C-X232 | Weld spatter cover for 16mm tube, PVC | | 02276853 |
| KR-06C | Weld spatter cover for 6mm tube, RUBBER | | 022766WT |
| KR-08C | Weld spatter cover for 8mm tube, RUBBER | | 022765M8 |
| KR-10C | Weld spatter cover for 10mm tube, RUBBER | | 02276A54 |
| KR-12C | Weld spatter cover for 12mm tube, RUBBER | | 022768TH |

FITTINGS

The large collection of one-touch, quick connect fittings and connectors can be used in general applications or can be used in special environments. Various configuration types are available to optimize flow through a diverse range of systems including flame-resistance or anti-static applications.


Per GCCL 32474: All Fittings to be SMC

Weld Area Requires KR Series Fittings

General Assembly and Paint Require KQ2 Series Fittings

Global Propulsion Requires KQB2 Metal Fittings

FITTINGS

|  <p><i>*Representative Image</i></p> | Documentation: www.smcusa.com/gm Standard product configurator/catalog: https://www.smcusa.com/products/connectors/fittings~21907 | |
|---|---|--|
| SMC Part Number | Description | Website |
| KQ2 Series | Standard One-Touch Fittings | Link to KQ2 Configuration on SMCusa.com |
| KR Series | Flame Resistant Fittings | Link to KR Configuration on SMCusa.com |
| KDM, KRM Series | Manifold Fittings | Link to Manifold Fitting Configuration on SMCusa.com |
| KEB Series | One-Touch Fitting with Residual Pressure Relief Valve (P/N KEB06, KEB08, KEB12, KEB16-X435) | Link to KEB Configuration on SMCusa.com |
| KQB2 Series | Metal Fittings | Link to KQB2 Series on SMCusa.com |

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