



# **GM GCCL and Approved Product Catalog**

Revision: 5.0, Date: 08/14/2025

[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 INFORMATION<sup>1</sup>

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

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


## RESOURCES

- Website: [www.smcusa.com](http://www.smcusa.com)
  - Secondary Battery Configurators, <https://www.smcusa.com/products/secondary-battery/>
- Global Website: [www.smcworld.com](http://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


<div></div> <p><i>*Representative Image</i></p>	Documentation: <a href="http://www.smccusa.com/gm">www.smccusa.com/gm</a> Standard product configurator/catalog: <a href="https://www.smccusa.com/products/airline-equipment/combination-units/ac-d~165150">https://www.smccusa.com/products/airline-equipment/combination-units/ac-d~165150</a>		
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/airline-equipment/filters/af-d~165156">https://www.smcusa.com/products/airline-equipment/filters/af-d~165156</a>		
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog: <a href="https://www.smcusa.com/products/airline-equipment/filters/afm-d~165159">https://www.smcusa.com/products/airline-equipment/filters/afm-d~165159</a>		
	<b>Mist Separator</b>		
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
<b>Maintenance Parts</b>			
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/airline-equipment/pressure-regulators/air-regulators/ar-d~165153">https://www.smcusa.com/products/airline-equipment/pressure-regulators/air-regulators/ar-d~165153</a>		
	<b>Regulator</b>		
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
<b>Precision Regulator</b>			
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
<b>Gauge</b>			
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/airline-equipment/lubricators/al-d~165165">https://www.smcusa.com/products/airline-equipment/lubricators/al-d~165165</a>		
	SMC Part Number	Description	GCCL # Common Code
AL30-F02-6-D	Lubricator, 1/4 Inch - G Thread, 55 CM <sup>3</sup> Oil Capacity, Nylon Bowl	31475	0499-0ADA
AL30-F03-6-D	Lubricator, 3/8 Inch - G Thread, 55 CM <sup>3</sup> Oil Capacity, Nylon Bowl	31476	0499-0AD6
AL40-F04-6-D	Lubricator, 1/2 Inch - G Thread, 135 CM <sup>3</sup> Oil Capacity, Nylon Bowl	31477	0499-0AD8
AL50-F06-6-D	Lubricator, 3/4 Inch - G Thread, 135 CM <sup>3</sup> Oil Capacity, Nylon Bowl	31478	0499-0AD7
AL60-F10-6-D	Lubricator, 1 Inch - G Thread, 135 CM <sup>3</sup> Oil Capacity, Nylon Bowl	31479	0499-0AD9
<b>Mainline</b>			
AL800-F14	Lubricator, 1 1/2 Inch - G thread, with Site Gauge & Drain Cock, Cap. 440cm <sup>3</sup>		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 <sup>3</sup>		049909L9


AL900-N20	Lubricator, 2 Inch -NPT thread, with Site Gauge & Drain Cock		
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#### AIR PREPARATION ASSEMBLY ACCESSORIES, VARIES


 <p><i>*Representative Image</i></p>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/airline-equipment/combination-units/ac-d/accessories-attachments~170607">https://www.smcusa.com/products/airline-equipment/combination-units/ac-d/accessories-attachments~170607</a>		
	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	

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

 <p><i>*Representative Image</i></p>	Documentation: <a href="http://www.smccusa.com/gm">www.smccusa.com/gm</a> Standard product configurator/catalog: <a href="https://www.smccusa.com/products/airline-equipment/soft-start-up-valve~158030">https://www.smccusa.com/products/airline-equipment/soft-start-up-valve~158030</a>		
	SMC Part Number	Description	GCCL # Common Code
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
AVA400-F04-A	Air Prep Accessory, Soft Start Valve, 1/2" G		31375

## DRIP LEGS, FAPP SERIES


 <p><i>*Representative Image</i></p>	Documentation: <a href="http://www.smccusa.com/gm">www.smccusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smccusa.com/products/fapp-pneumatic-drip-leg~175539">https://www.smccusa.com/products/fapp-pneumatic-drip-leg~175539</a>		
	<b>Powertrain Only</b>		
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/airline-equipment/silencers-exhaust-cleaners~127801">https://www.smcusa.com/products/airline-equipment/silencers-exhaust-cleaners~127801</a>		
	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

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

 <p><i>*Representative Image</i></p>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/vhs-d-pressure-relief-3-port-valve~170609">https://www.smcusa.com/products/vhs-d-pressure-relief-3-port-valve~170609</a>		
	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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a>	
	SMC Part Number	Description Website
VBA10A-F02	Booster Regulator, 1/4" - G Thread, 20 Bar / 290 PSI Max Output Pressure, 2:1 Boost Ratio ( <b>Propulsion Systems Only</b> )	<a href="#">Link to VBA Configurator on SMCusa.com</a>
VBA22A-F03	Booster Regulator, 3/8" - G Thread, 10 Bar / 145 PSI Max Output Pressure, 2:1 Boost Ratio ( <b>Propulsion Systems Only</b> )	<a href="#">Link to VBA Configurator on SMCusa.com</a>
VBA42A-F04	Booster Regulator, 1/2" - G Thread, 10 Bar / 145 PSI Max Output Pressure, 2:1 Boost Ratio ( <b>Propulsion Systems Only</b> )	<a href="#">Link to VBA Configurator on SMCusa.com</a>

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


## 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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/legacy/vqc/2000-series~28382">https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/legacy/vqc/2000-series~28382</a>		
	SMC Part Number	Description	GCCL # Common Code
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


 <i>*Representative Image</i>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/legacy/vqc/2000-series~28382">https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/legacy/vqc/2000-series~28382</a>		
	SMC Part Number	Description	GCCL # Common Code
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

 <p><i>*Representative Image</i></p>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> 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

 <p><i>*Representative Image</i></p>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/legacy/vqc/2000-series~28382">https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/legacy/vqc/2000-series~28382</a>		
	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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a>  Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265">https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265</a>		
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265">https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265</a>		
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

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

 <i>*Representative Image</i>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265">https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265</a>		
	<b>Discrete Input Valve Sub-Plate with M12 Connector</b>		
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265">https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265</a>		
	<b>VQC4000 Valves</b>		
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265">https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265</a>		
	<b>Accessories</b>		
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


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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265">https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/vqc-4000~133265</a>		
	<b>Manifolds</b>		
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a>	
SMC Part Number	Description	Website
VV5QC41-0403FSDOA	VQC4000 Base Manifold to be used with Profinet Modules (ordered separately), 4 Stations, 3/8" G Port ( <b>Propulsion Systems Only</b> )	<a href="#">Link to VV5QC41 Catalog on SMCusa.com</a>
VV5QC41-0803FSDOA	VQC4000 Base Manifold to be used with Profinet Modules (ordered separately), 8 Stations, 3/8" G Port ( <b>Propulsion Systems Only</b> )	<a href="#">Link to VV5QC41 Catalog on SMCusa.com</a>
VV5QC41-1203FSDOA	VQC4000 Base Manifold to be used with Profinet Modules (ordered separately), 12 Stations, 3/8" G Port ( <b>Propulsion Systems Only</b> )	<a href="#">Link to VV5QC41 Catalog on SMCusa.com</a>
VV5QC51-0403FSDOA	VQC5000 Base Manifold to be used with Profinet Modules (ordered separately), 4 Stations, 3/8" G Port ( <b>Propulsion Systems Only</b> )	<a href="#">Link to VV5QC41 Catalog on SMCusa.com</a>
VV5QC51-0803FSDOA	VQC5000 Base Manifold to be used with Profinet Modules (ordered separately), 8 Stations, 3/8" G Port ( <b>Propulsion Systems Only</b> )	<a href="#">Link to VV5QC41 Catalog on SMCusa.com</a>
VV5QC51-1203FSDOA	VQC5000 Base Manifold to be used with Profinet Modules (ordered separately), 12 Stations, 3/8" G Port ( <b>Propulsion Systems Only</b> )	<a href="#">Link to VV5QC41 Catalog on SMCusa.com</a>
VV5QC21-0403FSDOA	VQC2000 Base Manifold to be used with Profinet Modules (ordered separately), 4 Stations, 3/8" G Port ( <b>Propulsion Systems Only</b> )	<a href="#">Link to VV5QC41 Catalog on SMCusa.com</a>
VV5QC21-0803FSDOA	VQC2000 Base Manifold to be used with Profinet Modules (ordered separately), 8 Stations, 3/8" G Port ( <b>Propulsion Systems Only</b> )	<a href="#">Link to VV5QC41 Catalog on SMCusa.com</a>
VV5QC21-1203FSDOA	VQC2000 Base Manifold to be used with Profinet Modules (ordered separately), 12 Stations, 3/8" G Port ( <b>Propulsion Systems Only</b> )	<a href="#">Link to VV5QC41 Catalog on SMCusa.com</a>

#### BODY PORTED VALVES, VFS SERIES

 <i>*Representative Image</i>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/legacy/vfs~28042">https://www.smcusa.com/products/directional-control-valves/4-5-port-pilot-solenoid-valve/legacy/vfs~28042</a>		
	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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/directional-control-valves/3-port-pilot-solenoid/syj-27284">https://www.smcusa.com/products/directional-control-valves/3-port-pilot-solenoid/syj-27284</a>		
	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

 <p><i>*Representative Image</i></p>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a>		
	SMC Part Number	Description	GCCL
EX260-SEN1-X194	Ethernet I/P Module	30091	<a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> > <a href="#">Valves and Controls</a>
EX250-SDN1-X122	DeviceNet Module with Quick Connect Function Option and Mini Connectors	30090	<a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> > <a href="#">Valves and Controls</a>
EX260-SPN1	Profinet Module with 32 Outputs ( <b>Propulsion Systems Only</b> )		<a href="#">Link to EX260 Configurator on SMCusa.com</a>
EX260-SPN3	Profinet Module with 16 Outputs ( <b>Propulsion Systems Only</b> )		<a href="#">Link to EX260 Configurator on SMCusa.com</a>
EX260-FPS1	Profisafe Module ( <b>Propulsion Battery Cell Systems Only</b> )		<a href="#">Link to EX260 Configurator on SMCusa.com</a>




# MANUAL VALVES, VARIES SERIES

 <p><i>*Representative Image</i></p>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/directional-control-valves/mechanical-hand-operated-valve~28728">https://www.smcusa.com/products/directional-control-valves/mechanical-hand-operated-valve~28728</a>		
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
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

 <p><i>*Representative Image</i></p>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/directional-control-valves/mechanical-hand-operated-valve/vr~28660">https://www.smcusa.com/products/directional-control-valves/mechanical-hand-operated-valve/vr~28660</a>		
	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
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a>	
	SMC Part Number	Website
C96S	ISO 15552 Tie Rod Cylinder, 32-100mm Bore	<a href="#">Link to C96S Configurator on SMCusa.com</a>
C96S	ISO 15552 Tie Rod Cylinder, 125mm Bore	<a href="#">Link to C96S Configuration on SMCusa.com</a>
C95S	ISO 6431 Tie Rod Cylinder, Large Bore, 125mm - 320mm Bore	<a href="#">Link to C95S Configurator on SMCusa.com</a>


### PNEUMATIC ACTUATORS, ROUND BODY

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


## PNEUMATIC ACTUATORS, LOCKING CYLINDERS

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

## PNEUMATIC ACTUATORS, RODLESS


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

## PNEUMATIC ACTUATORS, COMPACT


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

CQ2B-Z	Compact Cylinder, Large Bore, Short Stroke, 125mm - 200mm Bore	<a href="#">Link to CQ2 Configurator on SMCusa.com</a>
CDQ2*P	Compact Cylinder, High Magnetic Field Design, 50mm - 80mm Bore	<a href="#">Link to CQ2 Configurator on SMCusa.com</a>
C55	ISO 21287 Compact Cylinder, Short Stroke, 20mm - 100mm Bore	<a href="#">Link to C55 Configurator on SMCusa.com</a>

## PNEUMATIC ACTUATORS, ROTARY

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

## PNEUMATIC ACTUATORS, GUIDED


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

## PNEUMATIC ACTUATORS, STOPPER


 <i>*Representative Image</i>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a>	
	SMC Part Number	Website

RSH	Stopper Cylinder, Heavy Duty, 20mm - 32mm Bore	<a href="#">Link to RSH Configurator on SMCusa.com</a>
RS2H	Stopper Cylinder, Heavy Duty, 50mm - 80mm Bore	<a href="#">Link to RS2H Configuration on SMCusa.com</a>

## PNEUMATIC ACTUATORS, POWER CLAMP

 <i>*Representative Image</i>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a>	
	SMC Part Number	Description
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	<a href="#">Link to CKZ3N Configuration on SMCusa.com</a>
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	<a href="#">Link to CKZ3N Configuration on SMCusa.com</a>
CKZ2N80TF-*DP	Power Clamp, 80 Bore, 1/4 Inch - G Port, *15 - 135 Degree Opening Angles, Double Lug, P&F Switch Package	<a href="#">Link to CKZ2N Configuration on SMCusa.com</a>

## PNEUMATIC ACTUATORS, CLAMPING


 <i>*Representative Image</i>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a>	
	SMC Part Number	Description
CLK2PB50TF-50Y-B-P74SE-XC87	Clamping Cylinder, Retraction Locking (holding clamped state), 19.5mm Wide Clevis, 50mm Bore, 50mm Stroke, 1/4 G Port	<a href="#">Link to CLK2P Configurator on SMCusa.com</a>
CLK2PB50TF-50Y-F-P74SE-XC87	Clamping Cylinder, Extension Locking (holding unclamped state), 19.5mm Wide Clevis, 50mm Bore, 50mm Stroke, 1/4 G Port	<a href="#">Link to CLK2P Configurator on SMCusa.com</a>
CLK2PB50TF-100Y-B-P74SE-XC87	Clamping Cylinder, Retraction Locking (holding clamped state), 19.5mm Wide Clevis, 50mm Bore, 100mm Stroke, 1/4 G Port	<a href="#">Link to CLK2P Configurator on SMCusa.com</a>
CLK2PB50TF-100Y-F-P74SE-XC87	Clamping Cylinder, Extension Locking (holding unclamped state), 19.5mm Wide Clevis, 40mm Bore, 50mm Stroke, 1/4 G Port	<a href="#">Link to CLK2P Configurator on SMCusa.com</a>

CLK2PB50TF-150Y-B-P74SE-XC87	Clamping Cylinder, Retraction Locking (holding clamped state), 19.5mm Wide Clevis, 50mm Bore, 150mm Stroke, 1/4 G Port	<a href="#">Link to CLK2P Configurator on SMCusa.com</a>
CLK2PB50TF-150Y-F-P74SE-XC87	Clamping Cylinder, Extension Locking (holding unclamped state), 19.5mm Wide Clevis, 50mm Bore, 150mm Stroke, 1/4 G Port	<a href="#">Link to CLK2P Configurator on SMCusa.com</a>
CLK2PB63TF-50Y-B-P74SE-XC87	Clamping Cylinder, Retraction Locking (holding clamped state), 19.5mm Wide Clevis, 63mm Bore, 50mm Stroke, 1/4 G Port	<a href="#">Link to CLK2P Configurator on SMCusa.com</a>
CLK2PB63TF-50Y-F-P74SE-XC87	Clamping Cylinder, Extension Locking (holding unclamped state), 19.5mm Wide Clevis, 40mm Bore, 50mm Stroke, 1/4 G Port	<a href="#">Link to CLK2P Configurator on SMCusa.com</a>
CLK2PB63TF-100Y-B-P74SE-XC87	Clamping Cylinder, Retraction Locking (holding clamped state), 19.5mm Wide Clevis, 63mm Bore, 100mm Stroke, 1/4 G Port	<a href="#">Link to CLK2P Configurator on SMCusa.com</a>
CLK2PB63TF-100Y-F-P74SE-XC87	Clamping Cylinder, Extension Locking (holding unclamped state), 19.5mm Wide Clevis, 40mm Bore, 50mm Stroke, 1/4 G Port	<a href="#">Link to CLK2P Configurator on SMCusa.com</a>
CLK2PB63TF-150Y-B-P74SE-XC87	Clamping Cylinder, Retraction Locking (holding clamped state), 19.5mm Wide Clevis, 63mm Bore, 150mm Stroke, 1/4 G Port	<a href="#">Link to CLK2P Configurator on SMCusa.com</a>
CLK2PB63TF-150Y-F-P74SE-XC87	Cylinder, Clamping, Extension Locking (holding unclamped state), 19.5mm Wide Clevis, 63mm Bore, 150mm Stroke, 1/4 G Port	<a href="#">Link to CLK2P Configurator on SMCusa.com</a>
CKP1B50TF-50YZ-P74SE	Clamping Cylinder, Non-Locking, 19.5mm Wide Clevis, 50mm Bore, 50mm Stroke, 1/4 G Port	<a href="#">Link to CKP1-Z Details on SMCworld.com</a>
CKP1B50TF-100YZ-P74SE	Clamping Cylinder, Non-Locking, 19.5mm Wide Clevis, 50mm Bore, 100mm Stroke, 1/4 G Port	<a href="#">Link to CKP1-Z Details on SMCworld.com</a>
CKP1B50TF-150YZ-P74SE	Clamping Cylinder, Non-Locking, 19.5mm Wide Clevis, 50mm Bore, 150mm Stroke, 1/4 G Port	<a href="#">Link to CKP1-Z Details on SMCworld.com</a>
CKP1B63TF-50YZ-P74SE	Clamping Cylinder, Non-Locking, 19.5mm Wide Clevis, 63mm Bore, 50mm Stroke, 1/4 G Port	<a href="#">Link to CKP1-Z Details on SMCworld.com</a>
CKP1B63TF-100YZ-P74SE	Clamping Cylinder, Non-Locking, 19.5mm Wide Clevis, 63mm Bore, 100mm Stroke, 1/4 G Port	<a href="#">Link to CKP1-Z Details on SMCworld.com</a>
CKP1B63TF-150YZ-P74SE	Clamping Cylinder, Non-Locking, 19.5mm Wide Clevis, 63mm Bore, 150mm Stroke, 1/4 G Port	<a href="#">Link to CKP1-Z Details on SMCworld.com</a>
C(L)KQP	Pin Clamp Cylinder, Built-in Strong Magnet	<a href="#">Link to CLKQP Configurator on SMCusa.com</a>
C(L)KU	Pin Clamp Cylinder, w/Small Auto Switch Mounting, Plate Type	<a href="#">Link to CLKU Configurator on SMCusa.com</a>
CKZT	Power Clamp Cylinder w/o Arm, 40~80 Bore	<a href="#">Link to CKZT Configurator on SMCusa.com</a>

## 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


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



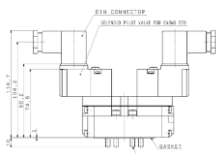
## SENSORS AND INSTRUMENTATION

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

 <p><i>*Representative Image</i></p>	Documentation: <a href="http://www.smccusa.com/gm">www.smccusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smccusa.com/products/ise70-71-3-screen-display-digital-pressure-switch-for-air~166300">https://www.smccusa.com/products/ise70-71-3-screen-display-digital-pressure-switch-for-air~166300</a>		
SMC Part Number	Description	GCCL #	Common Code
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: <a href="http://www.smccusa.com/gm">www.smccusa.com/gm</a>	
SMC Part Number	Description	Website
EVS7-6-FG-S-3ZRM0-CEI00006	Electro-Pneumatic Air Supply Module, for Purging Air with an Adjustable Timer and Automatic Closing Function ( <b>Propulsion Systems Only</b> )	<a href="http://www.smccusa.com/gm">www.smccusa.com/gm</a> > Sensors & Instrumentation

### DIGITAL GAP SENSORS

 <p><i>*Representative Image</i></p>	Documentation: <a href="http://www.smccusa.com/gm">www.smccusa.com/gm</a>	
SMC Part Number	Description	Website
ISA3	Digital Gap Sensor (Part Seated Sensor, Air Catch Sensor) ( <b>Propulsion Systems Only</b> )	<a href="http://www.smccusa.com/gm">www.smccusa.com/gm</a> > 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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/zzkj-vacuum-unit-manifold-type-vacuum-generator-for-fieldbus-system~168739">https://www.smcusa.com/products/zzkj-vacuum-unit-manifold-type-vacuum-generator-for-fieldbus-system~168739</a>		
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

 <p><i>*Representative Image</i></p>	Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog: <a href="#">Link to Vacuum Cups on SMCusa.com</a>		
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/connectors/check-valve~160893">https://www.smcusa.com/products/connectors/check-valve~160893</a>		
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
AS5000-F06	Flow Control, Inline Type 3/4 Inch - G Female Thread Both Ends	31284	08890LK7
AS6000-F10	Flow Control, Inline Type 1 Inch - G Female Thread Both Ends	31285	08890P9N
AS8000-F12	Flow Control, Inline Type 1 1/4 Inch - G Female Thread Both Ends	31286	08890P9P
AS9000-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
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>	<p>Documentation: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a></p> <p>Standard product configurator/catalog/CAD: <a href="https://www.smcusa.com/products/connectors/speed-controllers-22159">https://www.smcusa.com/products/connectors/speed-controllers-22159</a></p>		
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
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
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog: <a href="https://www.smcusa.com/products/connectors/tubing~22059">https://www.smcusa.com/products/connectors/tubing~22059</a>		
	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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog: <a href="https://www.smcusa.com/products/connectors/accessories/tks~41545">https://www.smcusa.com/products/connectors/accessories/tks~41545</a>		
	SMC Part Number	Description	GCCL #
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog: <a href="https://www.smcusa.com/products/connectors/accessories/tk~21895">https://www.smcusa.com/products/connectors/accessories/tk~21895</a>		
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog: <a href="https://www.smcusa.com/products/kr-c1-one-touch-fitting-spatter-cover~21986">https://www.smcusa.com/products/kr-c1-one-touch-fitting-spatter-cover~21986</a>		
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: <a href="http://www.smcusa.com/gm">www.smcusa.com/gm</a> Standard product configurator/catalog: <a href="https://www.smcusa.com/products/connectors/fittings~21907">https://www.smcusa.com/products/connectors/fittings~21907</a>	
SMC Part Number	Description	Website
KQ2 Series	Standard One-Touch Fittings	<a href="#">Link to KQ2 Configuration on SMCusa.com</a>
KR Series	Flame Resistant Fittings	<a href="#">Link to KR Configuration on SMCusa.com</a>
KDM, KRM Series	Manifold Fittings	<a href="#">Link to Manifold Fitting Configuration on SMCusa.com</a>
KEB Series	One-Touch Fitting with Residual Pressure Relief Valve (P/N KEB06, KEB08, KEB12, KEB16-X435)	<a href="#">Link to KEB Configuration on SMCusa.com</a>
KQB2 Series	Metal Fittings	<a href="#">Link to KQB2 Series on SMCusa.com</a>

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