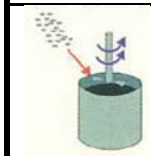
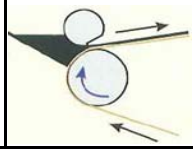
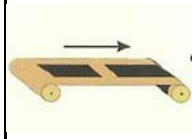
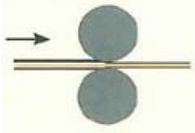
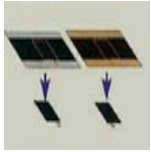
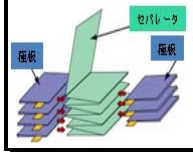
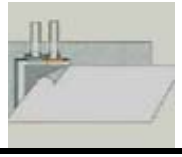
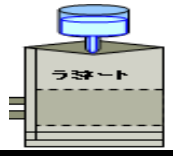
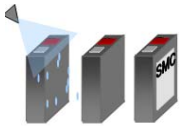
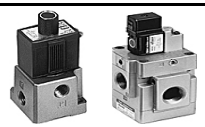
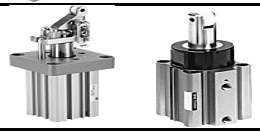
Manufacturing Processes					
1. Mixing	2. Coating	3. Drying	4. Calendering	5. Sliting	6. Punching
					
7. Lamination	8. Package	9. Liquid Injection	10. Sealing	11. Washing /Marking	12. Charge/Discharge and Inspection
					

SMC Prefix	Deinitions
90-	Material Restriction - Copper metal, nickel, zinc, stainless steel 316
91-	Material Restriction + Lub-retainer (Low Dew Point -40˚C)
91-XC4	Material Restriction + Lub-retainer (Low Dew Point -40˚C) + Heavy Duty Scraper (Dust Proofing)
92-	Material Restriction + Vacuum Port (Reduction of dust particles)
10-	Double Seal (Reduction of dust particles)
11-	Single Seal + Vacuum Port (Reduction of dust particles)
12-	Double Seal (Reduction of dust particles)
13-	Single Seal + Vacuum Port (Reduction of dust particles) (Guided & Rodless Product Series)
21- & 22-	Single Seal + Vacuum Port + Material Restriction (Copper, Fluorine, & Silicon-free)

Dry Room/Low Dew Point Processes	Manufacturing Processes 7, 8, 9, 10, 11

SMC Product Specification

	Product Series	Description	Standard	90-	91-	91-XC4	92-	10-	11-	12-	13-	21/ 22-
		Directional Control Valves										
	SV2000, 4000	5 port Solenoid Valve (Separate/Subplate)	•	•				•				
	VQ1000,2000	Separate Type Double Check Block	•	•								
	SV1000 - 4000	5 port Solenoid Valves & Manifolds	•									
	EX500	Serial Interface	•									
	EX600	Serial Interface	•									
	VP342,542	3 Port Solenoid Valve	•	•								
	VT317	3 Port Solenoid Valve	•	•								
	VG342	3 Port Solenoid Valve	•	•								
	VHK2	Finger Valve	•	•								
		Cylinders/Actuators										
	CJ2	Air Cylinder Double Acting Only	•	•				•	•			•
	CJ2W	Air Cylinder Double Rod	•					•	•			•
	CJ2RA	Air Cylinder Direct Mount	•					•	•			•
	CM2	Air Cylinder Standard	•					•	•			•
	CM2W	Air Cylinder Double Rod	•					•	•			•
	CM2R	Air Cylinder Direct Mount	•					•	•			•
	CBM2	Air Cylinder End Lock	•					•	•			•
	CM2X	Low Speed Cylinder-Round	•					•	•			
	CG1	Air Cylinder Standard	•					•	•			•
	CG1 N	Standard Double Acting Only	•	•	•	•						
	CG1W	Air Cylinder Double Rod	•					•	•			•
	CG1R	Air Cylinder Direct Mount	•					•	•			•
	CA2	Tie Rod Cylinder	•	•	•	•		•	•			•
	CDU	Free Mount Cylinder	•	•	•	•		•	•			•
	CDUK	Free Mount Cylinder-Non Rotating	•	•	•	•						
	CUJ	Mini Free Mount Cylinder	•					•	•			
	CQS	Compact Cylinder Double Acting Only	•	•	•	•		•	•			•
	CQS S	Acting Only	•	•	•							
	CQSX	Low Speed Compact Cylinder	•					•	•			

	Product Series	Description	Standard	90-	91-	91-XC4	92-	10-	11-	12-	13-	21/ 22-
	CQ2	Compact Cylinder Double Acting Only	•	•	•	•		•	•			•
	CQ2X	Low Speed Compact Cylinder	•					•	•			
	CXSJ	Dual Rod Cylinder w/ Ball Bearing Bushing	•						•	•		•
	CXS	Dual Rod Cylinder w/ Ball Bearing Bushing	•					•	•	•		•
	MGPM	Compact guide Cyl. Slide Bearing	•	•	•	•						
	MGPL	Compact guide Cyl. Ball Bushing Bearing	•	•	•	•				•	•	•
	MGGL	Guide Cylinder Ball Bushing Bearing	•	•	•	•						
	MY1B	Basic Rodless Cylinder	•	•	•							
	MY1H	Linear guide 1-axis Rodless Mech Jointed	•	•	•							
	MY2H	Linear guide 1-axis Rodless Mech Jointed	•	•	•							
	CY3B	Magnetically Jointed Rodless-Basic	•	•	•							
	CY3R(G)	Magnetically Jointed Rodless-Direct Mount	•	•	•					•		
	MXS	Air Slide Table Cross Roller Guide	•	•	•	•					•	•
	MXQ	Air Slide Table Recirculating Liniear Guide	•	•	•	•					•	•
	MXP	Air Slide Table	•	•	•	•			•			•
	MXJ	Air Slide Table	•	•	•	•			•			•
	MXPJ	Air Slide Table	•						•			•
	CDNG N	Cylinder with Lock Standard	•	•	•	•						
	CDNA N	Cylinder with Lock Standard	•	•	•	•						
	CDLQ	Compact Cylinder with Lock	•	•	•	•						
	RSDQ	Stopper Cylinder-Standard	•	•								
	RSH	Heavy Duty Stopper Cylinder	•	•								
	RS1H	Heavy Duty Stopper Cylinder	•	•								
		Rotary Actuator										
	CRA1	Rotary Actuator- Rack & Pinion	•						•			
	MSQB	Rotary Table-Rack & Pinion	•				•		•			•
	MSU	Vane Style Rotary	•									
	CRB	Vane Style Rotary	•									

	Product Series	Description	Standard	90-	91-	91-XC4	92-	10-	11-	12-	13-	21/ 22-
		Air Grippers	•									
	MHZJ2	Gripper with Dust Cover	•	•								
	MHZL2	Gripper-Long Stroke w/dust cover	•	•								
	MHL2	Gripper--Wide	•	•	•	•			•			•
	MHR2	Gripper 2 Finger	•						•			•
	MHR3	Gripper 3-Fingers	•						•			•
	MHS3	Gripper-- 3-Finger	•	•								
	MHS4	Gripper 4-Finger	•	•								
	MHZ2	Gripper 2-Finger	•						•			•
		Related Products										
	JA	Floating Joint-Standard	•	•								
	JB	Floating Joint-for Compact Cylinders	•	•								
	JS	Floating Joint-Stainless Steel	•	•								
	RB	Shock Absorber	•	•								
	RBC	Shock Absorber	•	•								
	D-M9BWSDPC-900	Auto Switch, 900 Series, **Compatible 90-**	•									
	D-M9BWVSDPC-900	Auto Switch, 900 Series, **Compatible 90-**	•									
	D-M9BWL-900	Auto Switch, 900 Series, **Compatible 90-**	•									
	D-M9BWVL-900	Auto Switch, 900 Series, **Compatible 90-**	•									
	D-A90L-900	Auto Switch, 900 Series, **Compatible 90-**	•									
	D-Y7BWL-900	Auto Switch, 900 Series, **Compatible 90-**	•									
	D-Y7BWVL-900	Auto Switch, 900 Series, **Compatible 90-**	•									
	D-Z80L-900	Auto Switch, 900 Series, **Compatible 90-**	•									
	D-***	Standard Autoswitches	•									
		Vacuum Equipment										
	ZQ	Space Saving Vacuum Ejector & Pump	•	•								
	ZZQ	Manifold unit for ZQ	•	•								
	ZH	Vacuum Ejector Body Ported	•	•								
	ZFC	Air Suction Filter w/ One Touch Fittings	•									
	ZPT	Vertical Vacuum Entry (w/o Buffer)	•	•								
	ZPT	Vertical Vacuum Entry (with Buffer)	•	•								
	ZP	Vacuum Pad	•	•								
	XT661	Cyclone Non Contact Vacuum Pad	•									

	Product Series	Description	Standard	90-	91-	91-XC4	92-	10-	11-	12-	13-	21/ 22-
		Air Preparation Equipment/Pressure Control/Air Nozzles										
	IDG50L to 100L	Membrane Air Dryer	•	•				•				
	AFF4C to 22C,37B,75B	Main Line Filter	•	•				•				
	AM250 to 550C,650,850	Mist Separator	•	•				•				
	AMD250C,550C,650,850	Micro Mist Separator	•	•				•				
	AF30 to 60	Air Filter	•	•				•				•
	AFM30,40	Mist Separator	•	•				•				•
	AFD30,40	Micro Mist Separator	•	•				•				•
	AR25K to 60K	Regulator with Backflow Function	•	•				•				•
	AW30-60	Filter Regulator	•					•				•
	AW30K to 60K	Filter Regulator w/ Backflow Function	•	•				•				•
	Y30,30T,Y40,40T	Modular Connection Bracket	•	•								
	IR1000 to 3000	Precision Regulator	•	•								
	ITV2000	Electro-Pneumatic Regulator	•	•								
	CB-97XH	Residual Pressure Indicator	•	•								
	SFD100	Clean Air Filter	•	•								
	SFD200	Clean Air Filter	•	•								
	AMP220,320,420	Exhaust Cleaner for Clean Rooms	•	•								
	AMP420-06 -T-X1	Exhaust Cleaner for Clean Rooms	•	•								
	KN	Air Nozzles	•									
	LLB	Clean Air Module	•									
		Static Removal										
	IZ	Ionizers	•									
		Detection Switches										
	ZSE40/ISE40	High Precision Digital Pressure Switch	•	•				•				
	ISE50	General Purpose High Precision Switch	•	•				•				
	PFM	2-Color Display Digital Flow Switch	•	•								
	PF2W	Digital Flow Switch for Water	•	•								

	Product Series	Description	Standard	90-	91-	91-XC4	92-	10-	11-	12-	13-	21/ 22-
		Electric Actuators										
	EMY2	Electric Rodless Actuator	•									
	LES	Electric Slide Table Actuator	•									
	LEHZ	Electric Gripper -Vertical Style	•									
	LEHF	Electric Gripper - Horizontal Style	•									
	LEY	Electric Rod Style Actuator	•									
	LEF	Electric Rodless Style Actuator	•									
	LECP6	Electric Actuator Controller	•									
		Fluid Control										
	PAF3000, 5000	Non Metallic Pump/Double Acting Pump	•									
	LVN	Fluoropolymer Needle Valve	•									
	LVQ	Air Oper. Chemical Valve/Non Metallic Ext	•									
	LVR	Liquid Pressure Regulator	•									
	LTV	E/P Regulator for Fluid Control	•									
	LFU	Ultra Sonic Wave Flow Meter	•									
	LVF	Digital Flow Rate Adjustment Valve	•									
	TL/TIL	Fluoropolymer Inch/Metric Tubing	•									
	LQ3	Fluoropolymer Fittings	•									
		Temperature Control										
	HR	Thermo Cooler/Chilers	•									
		High Vacuum										
	XL	High Vacuum Angle Valves	•									
	XM	Stainless Steel High Vacuum Angle Valve	•									
	XVD	Smooth Vent Valve	•									
	XG	Slit & Door Vavle	•									
		Fittings/Tubing/Flow Controls										
	KQ2	One Touch Fittings	•									
	KPQ, KPG	Clean One Touch Fittings	•									•
	KJ	Minature One Touch Fittings	•					•				
	TIUB/TU	Polyurethane Inch/Metric Tubing	•					•				
	AS, AS - FPQ, FPG	Speed Control	•									•
	AK, AKH4-12	Check Valve	•	•								
	AQ, AQ240F, 340F	Flow Control	•	•								