

# SLA5800 Series

Elastomer Sealed, Digital,  
General Purpose Thermal Mass Flow  
Meters & Controllers for Gases



Model SLA5850  
with EtherNet/IP™

The SLA5800 Series thermal mass flow meters and mass flow controllers have gained broad acceptance as the standard for accuracy, stability and reliability. These products have a wide flow measurement range and are suitable for a broad range of temperature and pressure conditions making them well suited for chemical and petrochemical research, laboratory, analytical, fuel cell and life science applications, among others.

Highlights of the SLA5800 Series include: industry leading long-term stability, accuracy backed by superior 17025 metrology systems and methods using calibration systems directly traceable to international standards, and a broad range of analog and digital I/O options to suit virtually any application. An independent diagnostic/service port permits users to set alarms and diagnostics, tune, troubleshoot or change flow conditions without removing the mass flow controller from service.

The SLA5800 Series provides a highly configurable platform based on a simple modular architecture. The feature set was carefully selected to enable drop-in replacement and upgrade of many brands of mass flow controllers. With the wide range of features and options available, the SLA5800 Series provides users with a single platform to support a broad range of applications.

Features	Benefits
Industry leading long-term sensor stability	Increased system uptime and reduced cost of ownership by reducing maintenance and eliminating periodic recipe adjustments and/or recalibrations
User accessible service port	Simplified installation, start-up, troubleshooting and access to diagnostics provides maximum uptime
Alarms and diagnostics	Ensures device is operating within user specified limits for high process yield and uptime
Superior valve technology	Minimum leak-by, wide turndown, fast response and superior corrosion resistant materials reduces overall gas panel cost and increases throughput
High accuracy traceable to international standards	Calibration by verified metrology systems ensures precise process gas flow control
Simple modular design	Easy-to-service elastomer sealed design provides for factory or field service maximizing uptime and reducing total cost of ownership
Adaptable mechanical configurations	Easily retrofit to existing systems

[View SLA5800  
Product Page](#)

**BROOKS**<sup>®</sup>  
INSTRUMENT

*Beyond Measure*

## Superior Thermal Flow Measurement Sensor

Brooks' sensor technology combines:

- Excellent signal to noise performance for good accuracy at low setpoints
- Superior long-term stability through enhanced sensor design manufacturing and extensive burn-in process
- Isothermal packaging to reduce sensitivity to external temperature changes

## Advanced Diagnostics

The mass flow controller remains the most complex and critical component in gas delivery systems. When dealing with highly toxic or corrosive gases, removing the mass flow controller to determine if it is faulty should be the last resort. In response to this, Brooks pioneered smarter mass flow controllers with embedded self-test routines and introduced an independent diagnostic/service port to provide the user with a simple interface, for troubleshooting without disturbing flow controller operation.

## Wide Flow Range

The SLA5800 Series covers an extremely broad range of flow rates. Model SLA5850 can have a full scale flow as low as 3 ccm. With a high turndown ratio of 100:1 for any full scale range from 1-50 lpm N2 equivalent and 50:1 (250:1 turndown for *Biotech* Options Packages up to 150 LPM) turndown for all other flow rates, accurate gas flow can be measured or controlled down to 0.06 ccm! Model SLA5853 can monitor or control gas flows up to 2500 lpm.

## Fast Response Performance

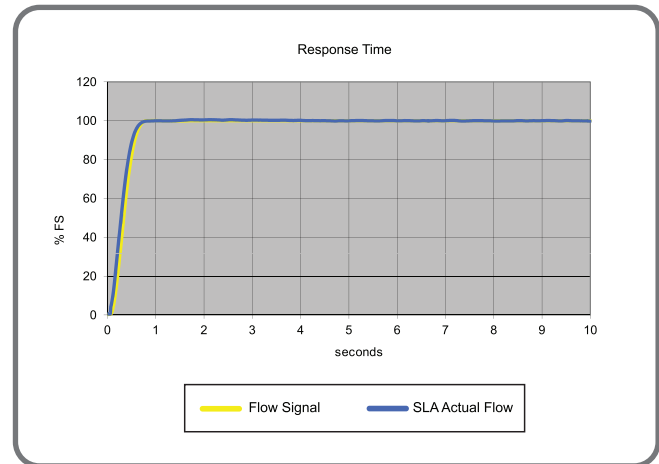
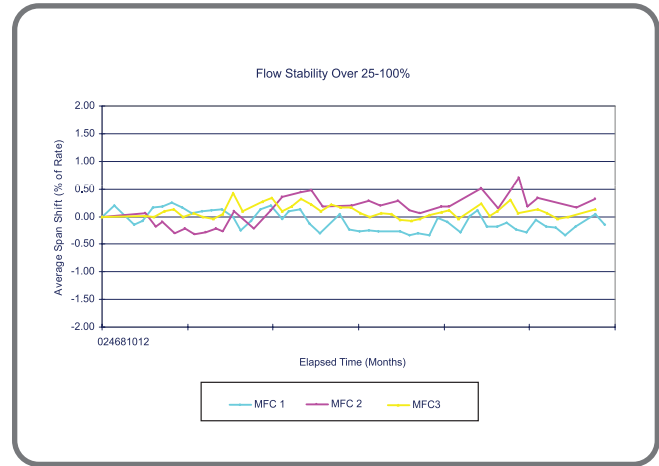
The all-digital electronics and superior mechanical configuration in the SLA5800 Series provide for ultra-fast response characteristics.

## Broad Array of Communication Options

Traditional 0-5 Vdc and 4-20mA analog options as well as RS485 digital communications are available ("S-protocol", based on HART). Control interfaces via digital network protocols including EtherNet/IP™, PROFINET, DeviceNet®, and Profibus® are also available. EtherNet/IP™ and PROFINET are a modern, high-speed digital protocol that permits multiple, additional diagnostics to provide MFC users with rich, real-time system information. DeviceNet® has been certified by the ODVA (Open DeviceNet Vendor's Association). EtherNET/IP™ and PROFINET are pending industry conformance certification.

## Multi-gas/Multi-range Capabilities

The SLA5800 Series multi-gas and multi-range capabilities reduce inventory. Storage and pre-programming of up to 6 gas calibrations easily permits users to switch between different gasses and ranges on a single device.



The diagram shows a single "BROOKS" SLA5800 Series MFC device on the left. To its right, an equals sign "=" is followed by six smaller MFC icons, each representing a different gas and flow range: 3.6L He, 3.6L Ar, 2.6L H2, 2.6L CO, 2.0L NH3, and 2.6L N2. Ellipses "..." follow the last icon, indicating further configurations. Below the icons, a caption reads: "Multi-gas/Multi-range capability allows your SLA5800 Series to be programmed for a variety of different gases and flow ranges".



## Electrical Specifications

Communication Protocol	RS485/Analog	Profibus <sup>®</sup>	DeviceNet™	EtherCAT™	EtherNet/IP™ & PROFINET
Electrical Connection	1 x 15-pin Male Sub-D, (A)	1 x 15-pin Male Sub-D/ 1 x 9-pin Female Sub-D	1 x M12 with threaded coupling nut (B)	1 x 5-pin M8 with threaded coupling nut 2 x RJ45	1 x 5-pin M8 with threaded coupling nut / 2 x RJ45
Analog I/O	0-5 V, 1-5 V, 0-10 V, 0-20 mA, 4-20 mA		N/A	0-5V	N/A
Power Max./Purge	From +13.5 Vdc to +27 Vdc		From +11 Vdc to +25 Vdc	From +13.5 Vdc to +27 Vdc	From +13.5 Vdc to +27 Vdc
Power Requirements Watts, Max.	Valve Orifice > 0.032": 8W Valve Orifice ≤ 0.032": 5W Without Valve: 2W		Valve Orifice > 0.032": 10W Valve Orifice ≤ 0.032": 7W Without Valve: 4W	Valve Orifice > 0.032": 8.5W Valve Orifice ≤ 0.032": 5.5W Without Valve: 2.5W	Valve Orifice > 0.032": 10W Valve Orifice ≤ 0.032": 7W Without Valve: 3W
Web-based Network Settings Interface	N/A		N/A	N/A	The Default Network Address is 192.168.100.1 EtherNet/IP: Default Network Configuration is DHCP PROFINET: The Default Name is "sla-mfc"

### RS485/Analog

### Profibus<sup>®</sup>

#### FLOW INPUT (VOLTAGE) SPECIFICATIONS

Nominal Range	0-5 Vdc, 1-5 Vdc or 0-10 Vdc
Full Range	(-0.5) -11 Vdc
Absolute Max.	18 V (without damage)
Input Impedence	>990 kOhms
Required Max. Sink Current	0.002 mA

#### FLOW INPUT (CURRENT) SPECIFICATIONS

Nominal Range	4-20 mA or 0-20 mA
Full Range	0-22 mA
Absolute Max.	24 mA (without damage)
Input Impedence	100 Ohms

#### FLOW OUTPUT (VOLTAGE) SPECIFICATIONS

Nominal Range	0-5 Vdc, 1-5 Vdc or 0-10 Vdc
Full Range	(-1)-11 Vdc
Min Load Resistance	2 kOhms

#### FLOW OUTPUT (CURRENT) SPECIFICATIONS

Nominal Range	0-20 mA or 4-20 mA
Full Range	0-24.6 mA (@ 0-20 mA); 3.8-24.6 mA (@ 4-20 mA)
Max. Load	380 Ohms (for supply voltage: < 16 Vdc)

#### ANALOG I/O ALARM OUTPUT\*

Type	Open Collector
Max. Closed (On) Current	25 mA
Max. Open (Off) Leakage	1 μA
Max. Open (Off) Voltage	30 Vdc

#### ANALOG I/O VALVE OVERRIDE SIGNAL SPECIFICATIONS\*\*

Floating/Unconnected	Instrument controls valve to command set point
VOR < 0.3 Vdc	Valve Closed
1 Vdc < VOR < 4 Vdc	Valve Normal
VOR > 4.8 Vdc	Valve Open
Input Impedence	800 kOhms
Absolute Max. Input	(-25 Vdc) < VOR < 25 Vdc (without damage)

\*The Alarm Output is an open collector or "contact type" that is CLOSED (on) whenever an alarm is active. The Alarm Output may be set to indicate any one of various alarm conditions.

\*\* The Valve Override Signal (VOR) is implemented as an analog input which measures the voltage at the input and controls the valve based upon the measured reading as shown in this section.

## SLA5800 Series *Biotech*

Efficiency and simplicity combine to improve bioprocessing performance with the new SLA5800 Series *Biotech* MFC. It incorporates several features created specifically to help streamline MFC purchasing, improve process gas control, enhance flexibility and satisfy regulatory requirements.

To serve the unique requirements of your bioprocesses, Brooks Instrument has created two SLA5800 Series *Biotech* options packages, built on the proven performance of the bioprocess-leading SLA5800 Series MFC .

As noted in the ordering instructions, all options are combined into packages with convenient ordering codes, eliminating the need to order options individually.

### SLA5800 Series *Biotech* Options Packages

#### Performance Package - Model Code S

Includes multiple performance enhancements reducing cost of operation

High Turndown Ratio

Reduces number of MFCs needed to control wide flow ranges

Enhanced Control Valve

Extremely low leak rate can eliminate need for redundant valves

Enhanced Sensor Design

Clean welded construction meets industry standards for cleanliness

Pre-calibrated Multi-Gas Pages<sup>1</sup>

Air, CO<sub>2</sub>, N<sub>2</sub> & O<sub>2</sub> : gas pages can be changed in situ to reduce the variety of spare instruments kept in stock

#### Premium Package - Model Code T

*Performance Package Features plus:*

Includes premium materials and associated certificates tailored to industry requirements

Class VI Elastomers

FDA/USP Class VI and ADI Free O-Rings and Valve Seats<sup>2</sup>  
(Certificate Included)

Certifications

Materials of Construction (wetted path)  
2.1 Material Cert<sup>3</sup>  
ICC Calibration Traceability

<sup>1</sup> CO<sub>2</sub> Actual Gas Calibration available for SLA5850/60 & SLA5851/61. Use Model Code U for Performance Package, and Model Code V for Premium package.

<sup>2</sup> All Class VI Viton elastomers are also compliant to 21CFR177.2600 (Title 21 – Food & Drugs, Chapter I - FDA)

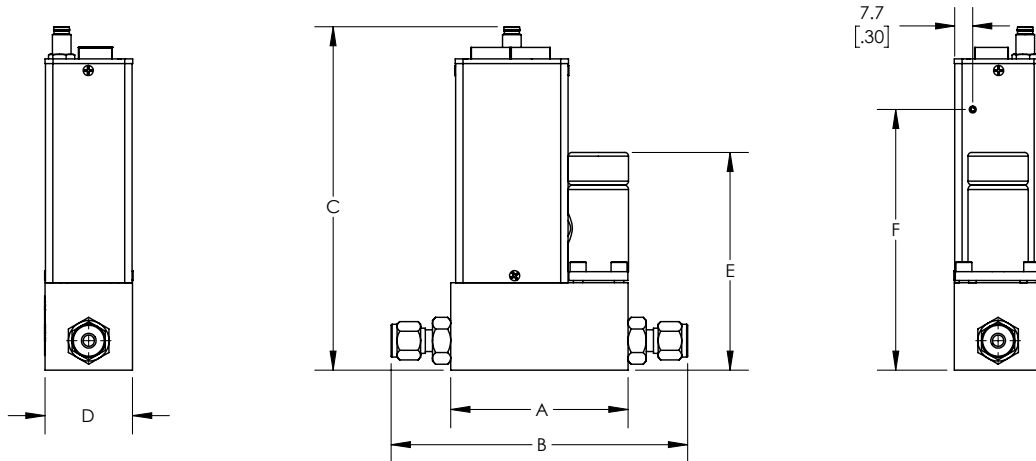
<sup>3</sup> 3.1 Material Certs for pressure boundary components available as an option on Premium Package.

Note: All Communications protocols listed in the Electrical Specification Table, above, are available with any Biotech Option

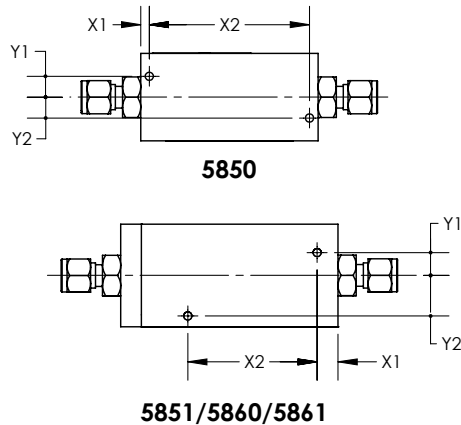
Learn More About  
the SLA5800 Series *Biotech*



## SLA5850/SLA5851/SLA5860/SLA5861



FITTINGS - DIMENSION "B"				
FITTING	50	51**	60	61**
	mm / inch	mm / inch	mm / inch	mm / inch
9/16"-18 UNF	N/A	93.5 / 3.68	N/A	80.0 / 3.15
1/8" Tube COMP.	123.1 / 4.85	N/A	105.3 / 4.15	N/A
1/4" Tube COMP.*	127.7 / 5.03	144.8 / 5.7	109.9 / 4.33	131.3 / 5.17
3/8" Tube COMP.*	130.7 / 5.15	147.9 / 5.82	112.9 / 4.45	134.4 / 5.29
1/2" Tube COMP.*	N/A	N/A	117 / 4.61	138.4 / 5.45
1/4" VCO	116 / 4.56	141.3 / 5.56	98.2 / 3.87	119.6 / 4.71
3/8"-1/2" VCO	127.2 / 5.01	144.3 / 5.68	N/A	N/A
1/4" NPT-F	118.5 / 4.67	133.2 / 5.24	98.8 / 3.89	122.2 / 4.81
3mm Tube COMP.*	122.2 / 4.81	135.7 / 5.34	104.4 / 4.11	N/A
6mm Tube COMP.*	127.8 / 5.03	144.9 / 5.71	110 / 4.33	131.3 / 5.17
10mm Tube COMP.*	131.1 / 5.16	148.3 / 5.84	113.5 / 4.47	134.9 / 5.31
1/4" VCR	124.1 / 4.89	141.3 / 5.56	106.3 / 4.19	127.8 / 5.03
3/8"-1/2" VCR	131.7 / 5.19	148.9 / 5.86	113.9 / 4.48	N/A
1/4" RC (BSP)	116.6 / 4.59	133.7 / 5.27	98.8 / 3.89	120.2 / 4.73
1/2" SANITARY	140.5 / 5.53	157.5 / 6.2	122.7 / 4.83	144.0 / 5.67
3/4" SANITARY	140.5 / 5.53	157.5 / 6.2	122.7 / 4.83	144.0 / 5.67



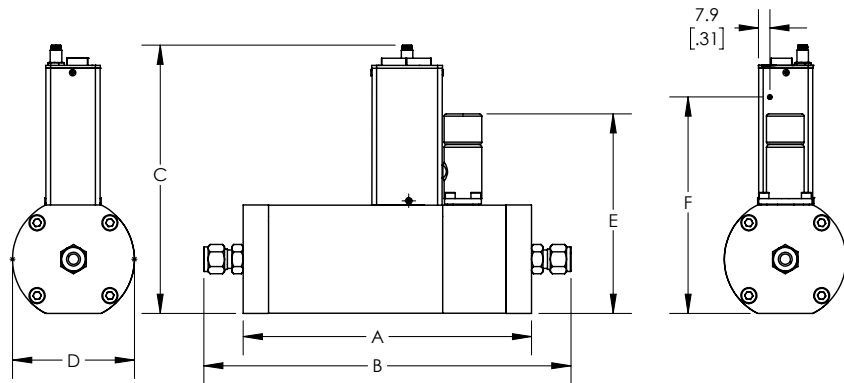
MOUNTING HOLES				
Model	X1	X2	Y1	Y2
	mm / inch	mm / inch	mm / inch	mm / inch
5850	3.7 / .14	69.0 / 2.72	9.0 / .35	9.0 / .35
5851	9.0 / .35	55.7 / 2.19	9.9 / .39	17.4 / .68
5860	9.1 / .36	40.4 / 1.59	10.2 / .40	10.2 / .40
5861	11.7 / .46	39.4 / 1.55	17.3 / .68	17.3 / .68

\*OVERALL LENGTH FINGER TIGHT

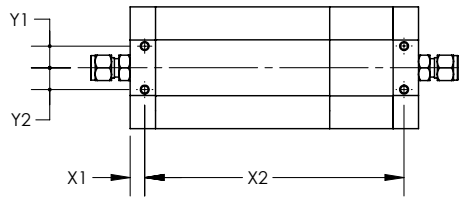
\*\*DEVICES WITH 5848 INLET FILTER WILL BE 2" OR 1.42" LONGER

ELECTRO/MECHANICAL DIMENSIONS												
Model	A	C						D	E			F
		Analog RS485	Profibus	DeviceNet	EtherCat	ProfiNet/EtherNet	Foundation Fieldbus		N.C	N.O.	NO VALVE	
		mm / inch	mm / inch	mm / inch	mm / inch	mm / inch	mm / inch		mm / inch	mm / inch	mm / inch	
5850	76.4/3.01	137.4/5.41	137.4/5.41	134.1/5.28	148.0/5.83	148.0/5.83	148.0/5.83	37.7/1.48	93.2/3.67	100.3/3.95	45.7/1.80	112.3/4.42
5851	93.5/3.68	143.9/5.66	143.9/5.66	140.5/5.53	154.4/6.08	154.4/6.08	154.4/6.08	44.2/1.74	100.3/3.95	107.8/4.24	52.1/2.05	118.8/4.68
5860	58.6/2.31	137.4/5.41	137.4/5.41	134.1/5.28	148.0/5.83	148.0/5.83	148.0/5.83	37.7/1.48	N/A	N/A	N/A	112.3/4.42
5861	80.0/3.15	143.9/5.66	143.9/5.66	140.5/5.53	154.4/6.08	154.4/6.08	154.4/6.08	44.2/1.74	N/A	N/A	N/A	118.8/4.68

SLA5853/SLA5863



FITTING CONFIGURATIONS



FLANGE CONFIGURATIONS

"B" Dimension		
FITTING	53	63
	mm / inch	mm / inch
9/16"-18 UNF	199/7.8	155/6.1
1-1/16" - 12 UN	199/7.8	155/6.1
1-5/16" - 12UN	199/7.8	155/6.1
3/8" TUBE COMP.*	253/10	209/8.2
1/2" TUBE COMP.*	267/10.5	223/8.8
3/4" TUBE COMP.*	267/10.5	223/8.8
1" TUBE COMP.*	274/10.8	232/9.1
3/8"-1/2" VCO	249/9.8	206/8.1
3/4" VCO	257/10.1	213/8.4
1" VCO	259/10.2	216/8.5
1/2" NPT	199/7.8	155/6.1
1" NPT	199/7.8	155/6.1
1-1/2" NPT	199/7.8	155/6.1
12mm TUBE COMP.*	N/A	219/8.62
3/8"-1/2" VCR	257/10.1	213/8.4
3/4" VCR	279/11	236/9.3
1" VCR	285/11.2	241/9.5
1/2" RC (BSP)	199/7.8	155/6.1
1" RC (BSP)	199/7.8	155/6.1
1/2" SANITARY	262.6/10.34	220/8.64
3/4" SANITARY	262.6/10.34	220/8.64
1" SANITARY	262.6/10.34	220/8.64
ANSI 1/2" 150#	299/11.8	256/10.1
ANSI 1/2" 300#	299/11.8	256/10.1
ANSI 1" 150#	299/11.8	256/10.1
ANSI 1" 300#	299/11.8	256/10.1
ANSI 1.5" 150#	299/11.8	256/10.1
ANSI 1.5" 300#	299/11.8	256/10.1
ANSI 2" 150#	299/11.8	256/10.1
ANSI 2" 300#	299/11.8	256/10.1
DIN DN15 PN40	299/11.8	256/10.1
DIN DN25 PN40	299/11.8	256/10.1
DIN DN40 PN40	299/11.8	256/10.1

MOUNTING HOLES				
Model	X1	X2	Y1	Y2
	mm / inch	mm / inch	mm / inch	mm / inch
5853	10.0/.39	178.8/7.04	15.0/.59	15.0/.59
5863	10.0/.39	135.0/5.32	15.0/.59	15.0/.59

\*OVERALL LENGTH FINGER TIGHT

ELECTRO/MECHANICAL DIMENSIONS										
Model	A	C						D	E	F
		Analog RS485	Profibus	DeviceNet	EtherCat	ProfiNet/EtherNet	Foundation Fieldbus			
		mm / inch	mm / inch	mm / inch	mm / inch	mm / inch	mm / inch			
5853	199.0/7.8	174.3/6.86	174.3/6.86	171.0/6.73	184.9/7.28	184.9/7.28	184.9/7.28	84.0/3.31	137.0/5.4	149.2/5.87
5863	155.0/6.1	174.3/6.86	174.3/6.86	171.0/6.73	184.9/7.28	184.9/7.28	184.9/7.28	84.0/3.31	N/A	149.2/5.87

Access our library of CAD Drawings



Code Description	Code Option	Option Description	
I. Base Model Numbers	SLA		
II. Package / Finish Specifications	58	Standard Elastomer Series	
III. Function	5	Mass Flow Controller	
	6	Mass Flow Meter	
IV. Gas or Range	0	3 ccm - 50 lpm	
	1	20 - 100 lpm	
	3	100 - 2500 lpm	
V. Digital I/O Communication	A	None (select applicable analog I/O)	
	D	DeviceNet I/O (with 5-pin micro connector)	
	E	EtherCAT I/O (with 5-pin Nano-change connector)	
	P	Profibus (2x sub-D)	
	S	RS485 (select applicable analog I/O)	
	7	EtherNET/IP™ I/O (with 5 Pin Nano-change M8 Connector)	
	8	PROFINET (with 5 Pin Nano-change M8 Connector)	
VI. Mechanical Connection (Body size 0 & 1 only)	1A	Without adapters, 9/16" - 18 UNF	
	1B	1/4" tube compression	
	1C	1/8" tube compression	
	1D	3/8" tube compression	
	1E	1/4" VCR	
	1F	1/4" VCO	
	1G	1/4" NPT	
	1H	6mm tube compression	
	1J	10mm tube compression	
	1L	3/8"-1/2" VCR	
	1M	3/8"-1/2" VCO	
	1P	1/2" tube compression	
	1S	Elastomer downport	
	1T	1/4" RC (BSP)	
	1Y	3mm tube compression	
	B1	1/4" tube compression w/Filter	
	C1	1/8" tube compression w/Filter	
	D1	3/8" tube compression w/Filter	
	E1	1/4" VCR w/Filter	
	F1	1/4" VCO w/Filter	
	G1	1/4" NPT w/Filter	
	H1	6mm tube compression w/Filter	
	J1	10mm tube compression w/Filter	
	L1	3/8"-1/2" VCR w/Filter	
	M1	3/8"-1/2" VCO w/Filter	
	P1	1/2" tube compression w/Filter	
	T1	1/4" RC (BSP) w/Filter	
	Y1	3mm tube compression w/Filter	
	5A <sup>1</sup>	9/16-18 X 1/2" Sanitary	
	5B <sup>1</sup>	9/16 -48 X 3/4" Sanitary	
	VI. Mechanical Connection (Body size 3 only)	2A	Without adapters, 9/16" - 18 UNF
		2B	1-1/16"-12 SAE/MS
		2C	3/8" tube compression
2D		1/2" tube compression	
2E		3/4" tube compression	
2F		1" tube compression	
2G		1/2" NPT (F)	
2H		1" NPT (F)	
2J		1-1/2" NPT (F)	
2K		1/2" VCO	
2L		3/4" VCO	
2M		1/2" VCR	
2N		1/2" RC (BSP)	
2P		1" RC (BSP)	
2R		1-5/16"-12 SAE/MS	
2S		1" VCO	
2T		3/4" VCR	
2U		1" VCR	
3A		DIN DN15 PN40 Flange	
3B		DIN DN25 PN40 Flange	
3C		DIN DN40 PN40 Flange	
3D		DIN DN50 PN40 Flange	
5C <sup>1</sup>		1 1/16-12 X 1/2" Sanitary	
5D <sup>1</sup>		1 1/16-12 X 3/4" Sanitary	
5E <sup>1</sup>		1 1/16-12 X 1" Sanitary	

Code Description	Code Option	Option Description
VI. Mechanical Connection (Body size 3 only)	3E	ANSI 1/2" 150# RF Flange
	3F	ANSI 1/2" 300# RF Flange
	3G	ANSI 1" 150# RF Flange
	3H	ANSI 1" 300# RF Flange
	3J	ANSI 1-1/2" 150# RF Flange
	3K	ANSI 1-1/2" 300# RF Flange
	3L	ANSI 2" 150# RF Flange
VII. O-ring Material	A	Viton
	B	Buna
	C	PTFE
	D	Kalrez
	E	EPDM
	J	FDA/USP Class VI and ADI Free - Viton/FKM <sup>2</sup>
	L	FDA/USP Class VI - EPDM
VIII. Valve Seat	A	None (Sensor only)
	B	Viton (for body size 3, diaphragm material = PTFE)
	C	Buna (for body size 3, diaphragm material = PTFE)
	D	Kalrez (for body size 3, diaphragm material = PTFE)
	E	EPDM (for body size 3, diaphragm material = PTFE)
	F	PTFE
	G	Metal (for body size 3, diaphragm material = PTFE)
IX. Valve Type	0	None (Sensor only)
	1	Normally closed
	2	Normally closed (Pressure diff. >30 psig (2 bar))
	3	Normally closed (Pressure diff. <30 psig (2 bar))
	4	Normally closed - high pressure
	5	Normally open
X. Analog I/O Communications	A	None - Digital Communications only
	B	0-5 Volt 0-5 Volt 15-pin D-conn
	C	4-20 mA 4-20 mA 15-pin D-conn
	L	1-5 Volt 1-5 Volt 15-pin D-conn
	M	0-20 mA 0-20 mA 15-pin D-conn
	0	0-10 Volt 0-10 Volt 15-pin D-conn
	1	0-5 Volt 4-20 mA 15-pin D-conn
	2	0-5 Volt 0-20 mA 15-pin D-conn
	3	4-20 mA 0-5 Volt 15-pin D-conn
	4	0-20 mA 0-5 Volt 15-pin D-conn
9	0-10 Volt 0-5 Volt 15-pin D-conn	
XI. Power Supply Inputs	1	+15 Vdc
	2	24 Vdc
XII. Output Enhancements	A	Standard response
	S	Biotech Performance Package
	T	Biotech Premium Package
	U	Performance Package with CO2 Calibration <sup>3</sup>
XIII. Certification	1	Safe Area
	2	For Zone 2 ATEX/IECEX
	4	Div. 2/Zone 2 UL Recognized

Sample Standard Model Code

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII
SLA	58	5	0	A	1A	A	B	1	B	1	A	1





<sup>1</sup> Sanitary Fittings Model Code 5A, 5B, 5C, 5D and 5E are limited to 500 PSI Maximum Pressure

<sup>2</sup> Material is compliant to 21CFR177.2600 (Title 21 – Food & Drugs, Chapter I - FDA)

<sup>3</sup> CO2 Actual Gas Calibration available for SLA5850/60 & SLA5851/61

Request a Quote

## Product Approvals Overview

Mark	Agency	Certification	Applicable Standard	Details
	UL (Recognized)	Class I, Div 2, Group A, B, C, D Class I, Zone 2, IIC T4 Class II, Zone 22 Enclosure: Type 1/IP40	UL & CSA Standards	E73889 Vol 3, Sec 4
	ATEX	II 3 G Ex nA IIC T4 Gc	EN60079-0:2012 EN 60079-15:2010	KEMA 04ATEX 1118X
	IECEX	II 3 G Ex nA IIC T4 Gc	IEC 60079-0:2011 IEC 60079-15:2010	IECEX DEK 14.0072X
	KOSHA	Ex nA IIC T4		15-AV4BO-0641 15-AV4BO-0640
	CE	EMC Directive 2014/30/EU Directive 2011/65/EU	EN:61326-1:2013	EMC RoHS

ATEX/IECEX Special Conditions: please see Certification section of the SLA5800 Installation & Operations Manual

## Additional Certification and Service Options

<b>Material Compliance Certifications</b>
Material Certificate 2.1
Material Certificate 3.1
Declaration of Compliance 2.1 - O-ring USP Class VI / ADI Free
Declaration of Compliance 2.1 - Elastomer USP Class VI / ADI Free
Declaration of Compliance 2.1 - Elastomer Cure Date/ Shelf Life
Declaration of Compliance 2.1 - Surface Roughness
<b>Metrology Certifications</b>
Declaration of Compliance 2.1 - Calibration
Inspection Certificate 3.1 - NIST Calibration
Declaration of Compliance 3.1 - International Certificate of Calibration
ISO 17025 Certification
<b>Additional Services and Certifications</b>
Certificate of Compliance 2.1
Declaration of Compliance 2.1 - Oxygen Cleaning Service
Declaration of Compliance 2.2 - Pressure Test
KHK Certification
CRN Certification
Certificate of Origin

## Service and Support

Brooks is committed to assuring all of our customers receive the ideal flow solution for their application, along with outstanding service and support to back it up. We operate first class repair facilities located around the world to provide rapid response and support. Each location utilizes primary standard calibration equipment to ensure accuracy and reliability for repairs and recalibration and is certified by our local Weights and Measures Authorities and traceable to the relevant International Standards.

Visit [www.BrooksInstrument.com](http://www.BrooksInstrument.com) to locate the service location nearest to you.

### START-UP SERVICE AND IN-SITU CALIBRATION

Brooks Instrument can provide start-up service prior to operation when required. For some process applications, where ISO-9001 Quality Certification is important, it is mandatory to verify and/or (re)calibrate the products periodically. In many cases this service can be provided under in-situ conditions, and the results will be traceable to the relevant international quality standards.

### CUSTOMER SEMINARS AND TRAINING

Brooks Instrument can provide customer seminars and dedicated training to engineers, end users, and maintenance persons. Please contact your nearest sales representative for more details. Due to Brooks Instrument's commitment to continuous improvement of our products, all specifications are subject to change without notice.

### TRADEMARKS

Brooks .....Brooks Instrument, LLC  
All other trademarks are the property of their respective owners.

DS-TMF-SLA5800-Series-RevB-MFC-eng/2021-6



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INSTRUMENT  
*Beyond Measure*