

Pressure Mass Flow Controllers

SLA5810/20/40 SLAMf10/20 Series

Elastomer Sealed, Digital, Upstream, Downstream,
and Remote Transducer Pressure Controllers



Model SLAMf10/20

Model SLA5810/20/40

The SLA Series pressure controllers and pressure controlling flowmeters have gained broad acceptance as the standard for accuracy, stability and reliability. These products have a wide pressure measurement and control range and are suitable for a broad range of operating conditions making them well suited for applications in thin film processes, chemical and petrochemical research, laboratory, analytical, fuel cell and life science among others.

Highlights of the SLA Series pressure controller product include: industry leading long term stability, accuracy backed by superior metrology systems and methods using primary flow 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 troubleshoot or change process conditions without removing the pressure controller from service. This product is also available with a NEMA 4X/IP66 approved enclosure, making it perfect for hosedown/washdown applications.

Based on the core control technology present in our industry-leading thermal mass flow controllers, Brooks' SLA Pressure Controllers are able to control the pressure of a gas based on a set point signal by replacing the thermal mass flow sensor with a pressure sensor. It utilizes closed-loop control, which eliminates the droop and hysteresis associated with traditional mechanical spring diaphragm pressure regulators. With the wide range of options and features available, the SLA Pressure Controller Series provides users with a single platform to support a broad range of applications.

Features

- Closed loop control
- User accessible service port
- Wide pressure range capabilities
- Advanced diagnostics
- Superior valve technology
- Adaptable mechanical configurations
- Primary standard calibration systems
- Simple modular design and reducing total cost of ownership
- IP66/NEMA 4X rated enclosure
- Hazardous area approvals

Benefits

- Eliminates droop & hysteresis associated with traditional mechanical spring diaphragm pressure regulators
- Simplified installation, start-up, troubleshooting and access to diagnostics provides maximum uptime
- Ability to control up to 4500 psig, giving it one of the widest pressure ranges on the market today
- Ensures device is operating within user specified limits for high process yield and maximum uptime
- Minimum leak-by, maximum turndown, fast response reduces overall gas panel cost and increases throughput
- Easily retrofit to existing systems
- Ensures measurement accuracy is traceable to international standards
- Easy-to-service elastomer sealed design provides options for factory or field service maximizing uptime
- Weatherproof protection optional for "Hosedown" applications such as: Food, Beverage, Pharmaceutical & Biotech
- Designed to operate in non-incendive (Division 2/Zone 2) environments

[View SLA5810/20/40
SLAMf10/20 Product Page](#)

BROOKS[®]
INSTRUMENT

Beyond Measure

Flexible Pressure Control Capabilities

Brooks' Pressure Controllers can be built for both upstream pressure control and downstream pressure control. These designations are determined by the location of the vessel where the pressure is being controlled. Our upstream pressure controllers can also be considered back pressure regulators, and our downstream pressure controllers can also be considered pressure regulators. In addition, a remote transducer configuration can be used to combine the benefits of pressure control and flow measurement.

Advanced Diagnostics

Pressure Controllers can be some of the most complex components in a gas delivery system, but they are typically critical to the tool's success. When dealing with highly toxic or corrosive gases, removing the pressure controller to determine if it is faulty should be the last resort. In response to this, Brooks pioneered smarter products with embedded self test routines and introduced an independent diagnostic/service port and software to provide the user with a simple interface, for troubleshooting without disturbing pressure controller operation.

Wide Pressure Range

The SLA Pressure Controller Series covers an extremely broad range of pressures. Brooks Pressure Controllers can control pressures ranging from sub-atmosphere all the way to 4500 psi (310 bar), giving it the widest pressure range on the market today! Even with major changes to the flowrate, Brooks Pressure Controllers are able to maintain stable pressure which keeps processes running smoothly and efficiently.

Broad Array of Communication Options

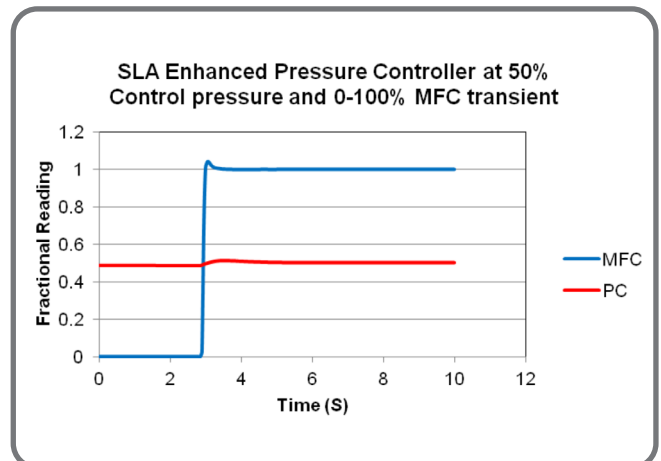
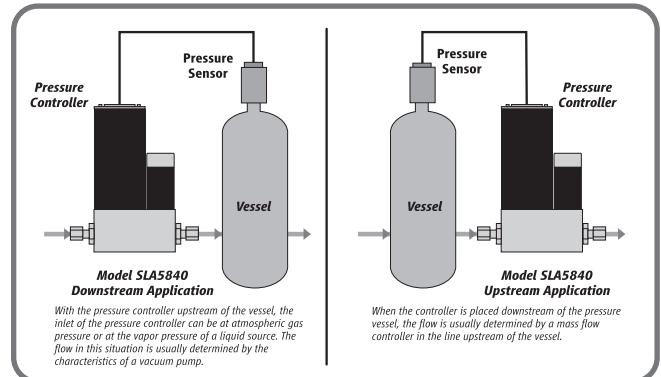
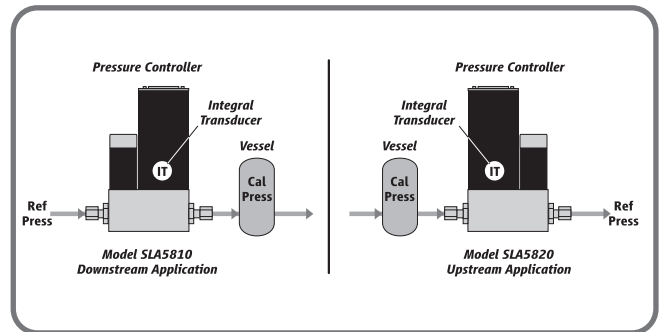
Brooks offers traditional analog options as well as RS-485 digital communications ("S-protocol", based on HART) Brooks also offers control interfaces via digital network protocols like DeviceNet (DeviceNet not available on SLAMf 10/20), a high speed (up to 500k baud) digital communication network, and Profibus. Brooks' communication capabilities and device-profiles have been certified by the ODVA (Open DeviceNet Vendor's Association) and the ITK (Interoperability Test Kit). Other network protocols are in development. Talk to your Brooks representative about your specific needs.

Wash-down Enclosure

The SLAMf Series comes equipped with an IP66 / NEMA4X rated enclosure. This makes these instruments perfect for wash-down or outdoor environments. So no matter how harsh the surroundings, the SLAMf Series keeps the process under control.

Hazardous Area Approvals

Brooks SLA Pressure Controller products come with various levels of Hazardous Area Approvals. The SLA5800 Series Pressure Controllers are approved for Class I, Division 2/Zone 2 areas, while the SLAMf Series Pressure Controllers have enclosures that can be used in Class II & Class III, Division 2/Zone 2.



Product Specifications

Flow Ranges and Pressure Ratings:

Pressure Controller Model	Pressure Controller Model	Flow Ranges N2 Eq. Ratings		Minimum Full Scale Pressure	Maximum Full Scale Pressure	Pressure Equipment Directive (PED) Module H Category
		Min. F.S.	Max. F.S.	Standard	Standard	
SLA5810/SLAMf10	Downstream (Pressure Regulator)	0.003 0.1	50* 10	1 psi 1500 psi	1500 psia/103 bara 4500 psia/310 bara	Sound Engineering Practices (SEP)
SLA5820/SLAMf20	Upstream (Back Pressure Regulator)	0.003 0.1	50* 10	1 psi 1500 psi	1500 psia/103 bara 4500 psia/310 bara	Sound Engineering Practices (SEP)
SLA5840	Remote Transducer Upstream or Downstream	0.003 0.1	50 10	10 psi 1500 psi	1500 psia/103 bara 4500 psia/310 bara	Sound Engineering Practices (SEP)

* Please see sizing tool for flow limitations < 10 psi F.S. pressure

	SLA5810/20 & SLAMf10/20	SLA5840
PERFORMANCE		
Pressure Accuracy (Including Linearity and Hysteresis)	±0.25% of Transducer F.S., F.S. > 300 psia ±0.12% of Transducer F.S., F.S. ≤ 300 psia	Dependent on Remote Pressure Transducer
Flow Accuracy (N2 equivalent)	N/A	±0.9% of S.P. (20-100% F.S.) ±0.18% of F.S. (2-20% F.S., 1-20% F.S. from 1-50 lpm)
Control Range	20:1 Typical - Application specific	
Repeatability & Reproducibility	0.20% S.P.	
Linearity	Included in accuracy	
Response Time (Settling time within ±2% F.S. for 0-100% command step)	System dependent	<1 second
Zero Stability	< ± 0.001% F.S. per 30 days	Dependent on Remote Pressure Transducer
Temperature Coefficient	±0.1% of F.S. per °C	Dependent on Remote Pressure Transducer
Pressure Coefficient (Flow Measurement Only)	N/A	±0.03% per psi (0-200 psi N2)
Attitude Sensitivity	The accuracy of the Pressure Sensor is not attitude dependent	
RATINGS		
Operating Temperature Range	-14 to 65°C (7 to 149°F)**	
Transducer Pressure Ratings	15 psia/1.03 bara for < 15 psia full scale 15 psig/1.03 barg for < 15 psig full scale 100 psia/6.9 bara for < 100 psia full scale 100 psig/6.9 barg for 15-100 psig full scale 300 psia/20.7 bara for 100-300 psia full scale 300 psig/20.7 barg for 100-300 psig full scale 3000 psia/206.9 bara for 300-3000 psia full scale 4500 psia/310.3 bara for 3000-4500 psia full scale	Dependent on Remote Pressure Transducer
Leak Integrity (external)	1x10 ⁻⁹ atm. cc/sec He	
MECHANICAL		
Valve Type	Normally Closed, Normally Open	
Primary Wetted Materials	316L Stainless Steel, High Alloy Stainless Steel, Viton® fluoroelastomers. Optional Buna-N, Kalrez®, Teflon®/Kalrez®, and EPDM	
DIAGNOSTICS		
Status Lights	MFC Health, Network Status	
Alarms*	Sensor Output, Control Valve Output, Over Temperature, Power Surge/Sag, Network Interruption	
Diagnostic/Service Port	RS485 via 2.5 mm jack (Located under the top cover in SLAMf version)	

*Alarm modes are dependent on the communications interface. These are described in the corresponding digital communication interface manual.

**Hazardous area certifications have a temperature range limitation of 0-65°C.

Electrical Specifications





Communication Protocol	RS485	Profibus®	DeviceNet® ***
Electrical Connection (SLA58xx)	1 x 15-pin Male Sub-D, (A)	1 x 15-pin Male Sub-D 1 x 9-pin Female Sub-D	1 M12 with threaded coupling nut (B)
Electrical Connection (SLAMf)	PG11 Cable Gland, 1/2" NPT (F) Conduit, M20 x 1.5 Conduit		
Analog I/O	0-5 V, 1-5 V, 0-10 V, 0-20 mA, 4-20 mA		N/A
Power Max./Purge	From +13.5 Vdc to +27 Vdc		From +11 Vdc to +25 Vdc
Power Requirements Watts, Max.	Valve Orifice > 0.032": 8.7 Watts Valve Orifice ≤ 0.032": 5.2 Watts		Valve Orifice > 0.032": 10 Watts Valve Orifice ≤ 0.032": 7 Watts
VOLTAGE SET POINT INPUT SPECIFICATIONS			
Nominal Range	0-5 Vdc, 1-5 Vdc or 0-10 Vdc		N/A
Full Range	(-0.5)-11 Vdc		N/A
Absolute Max.	18 V (without damage)		N/A
Input Impedence	>990 kOhms		N/A
CURRENT SET POINT INPUT SPECIFICATIONS			
Nominal Range	4-20 mA or 0-20 mA		N/A
Full Range	0-22 mA		N/A
Absolute Max.	24 mA (without damage)		N/A
Input Impedence	100 Ohms		N/A
FLOW OUTPUT (VOLTAGE) SPECIFICATIONS			
Nominal Range	0-5 Vdc, 1-5 Vdc or 0-10 Vdc		N/A
Full Range	(-1)-11 Vdc		N/A
Min Load Resistance	2 kOhms		N/A
FLOW OUTPUT (CURRENT) SPECIFICATIONS			
Nominal Range	0-20 mA or 4-20 mA		N/A
Full Range	0-22 mA		N/A
Max. Load	380 Ohms		N/A
ANALOG I/O ALARM OUTPUT*			
Type	Open Collector		N/A
Max. Closed (On) Current	25 mA		N/A
Max. Open (Off) Leakage	1μA		N/A
Max. Open (Off) Voltage	30 Vdc		N/A
ANALOG I/O VALVE OVERRIDE SIGNAL SPECIFICATIONS**			
Floating/Unconnected	Instrument controls valve to command set point		N/A
VOR < 0.3 Vdc	Valve Closed		N/A
0.3 Vdc < VOR < 4.8 Vdc	Undefined		N/A
VOR > 4.8 Vdc	Valve Open		N/A
Input Impedence	60 kOhms		N/A
Absolute Max. Input	(-25 Vdc) < VOR < 25 Vdc (without damage)		N/A

*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.

*** Available on SLA5810/20/40 only.

Certifications - SLA58XX

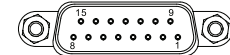
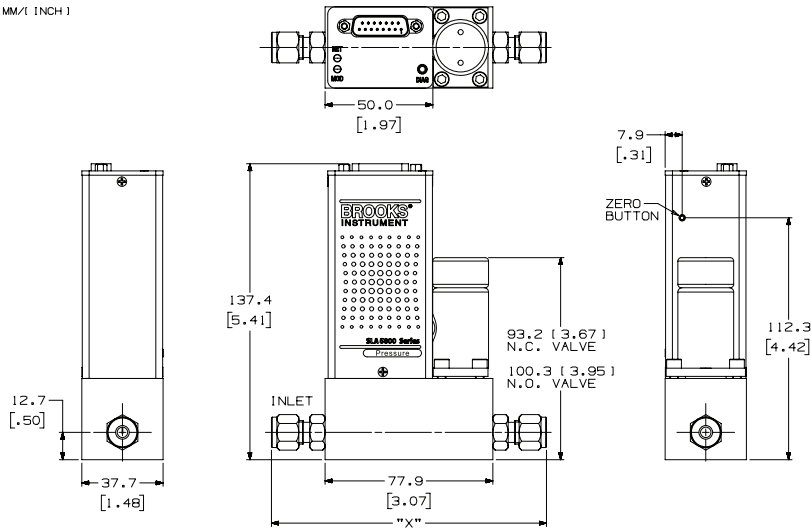
Mark	Agency	Certification	Applicable Standard	Details
	UL (Recognized)	Class I, Div 2, Group A, B, C, D Class I, Zone 2, IIC T4 Class II, Zone 22	UL & CSA Standards	E73889 Vol 3, Sec 4
	ATEX	II 3 G Ex nA IIC T4 Gc	EN60079-0:2012 EN 60079-15:2010	KEMA 04ATEX 1118X
	IECEX	II 3 G Ex nA IIC T4 Gc	IEC 60079-0:2011 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

Certifications - SLAMfxx

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 IP66	UL & CSA Standards	E73889 Vol 3, Sec 4
	UL (Listed)	Class I, Div 2, Group A, B, C, D Class I, Zone 2, IIC T4 Class II, Zone 22 IP66	UL & CSA Standards	E73889 Vol 1, Sec 25
	ATEX	II 3 G Ex nA IIC T4 Gc II 3 D Ex tc IIIC T 85 °C Dc IP66	EN 60079-0 : 2012 + A11 : 2013 EN 60079-15 : 2010 EN 60079-31 : 2014	KEMA 04ATEX1290 X
	IECEX	Ex nA IIC T4 Gc Ex tc IIIC T 85 °C Dc IP66	IEC 60079-0 : 2011 + Corr. 2012 + Cor. 2013 IEC 60079-15 : 2010 IEC 60079-31 : 2013	IEC KEM 07.0043X
	KOSHA	Ex nA IIC T4 Ex tD A22 IP66 T85°C	The Ministry of Employment and Labor Notice No. 2013-34 Article 34 of the Industrial Safety and Health	15-AV4BO-0638 15-AV4BO-0639 16-AV4BO-0328X 16-AV4BO-0327X
	CE	EMC Directive 2014/30/EU Directive 2011/65/EU	EN:61326-1:2013	EMC RoHS

SLA5810/20, Thru-Flow, RS485

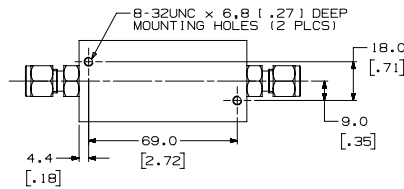
MM/1 INCH 1



15-PIN SUB-D MALE CONNECTOR	
PIN #	FUNCTION
1	SETPOINT COMMON
2	PRESSURE OUTPUT (0-5V, 1-5V)
3	ALARM OUT
4	PRESSURE OUTPUT (0-20 mA, 4-20 mA)
5	POWER SUPPLY (13.5-27V)
6	NOT CONNECTED
7	SETPOINT INPUT (0-20mA, 4-20mA)
8	SETPOINT INPUT (0-5V, 1-5V)
9	POWER COMMON
10	PRESSURE OUT COMMON
11	NOT CONNECTED
12	VALVE OVERRIDE INPUT
13	AUX INPUT (0-5V, 0-10V)
14	RS-485, B (-), INPUT/OUTPUT
15	RS-485, A (+), INPUT/OUTPUT

FITTING	X" DIMENSION
1/8" TUBE COMP.	*122.7 [4.83]
1/4" TUBE COMP.	*127.8 [5.03]
3/8" TUBE COMP.	*130.8 [5.15]
1/4" VCR	124.0 [4.88]
1/4" VCO	117.6 [4.63]
1/4" NPT-F	125.5 [4.94]
3mm TUBE COMP.	*127.8 [5.03]
6mm TUBE COMP.	*127.8 [5.03]
10mm TUBE COMP.	*131.3 [5.17]
3/8"-1/2" VCR	138.9 [5.47]
3/8"-1/2" VCO	128.8 [5.07]

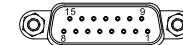
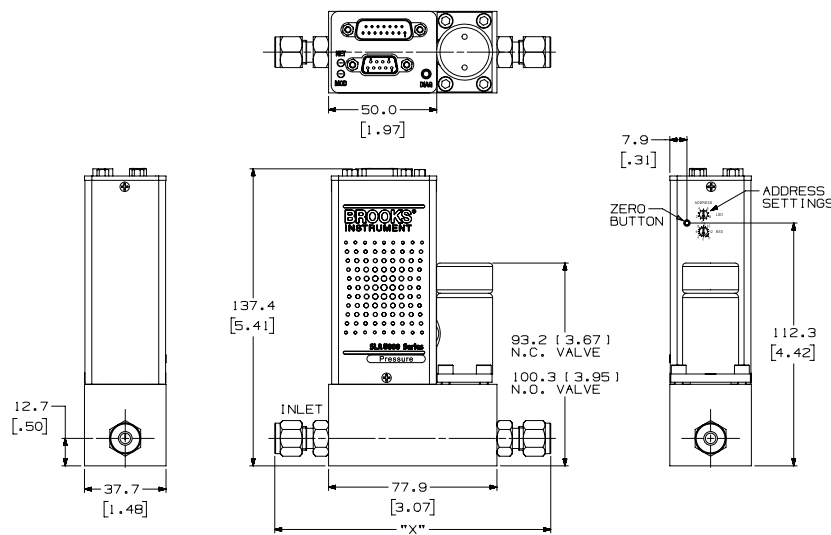
• OVERALL LENGTH FINGER TIGHT



Note : Aux. Input only used for Remote Transducer Pressure Controllers.

SLA5810/20, Thru-Flow, Profibus

MM/1 INCH 1



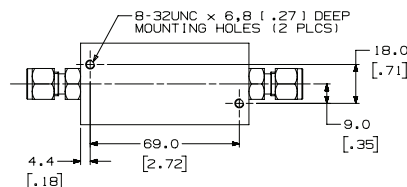
15-PIN SUB-D MALE CONNECTOR	
PIN #	FUNCTION
1	SETPOINT COMMON
2	PRESSURE OUTPUT (0-5V, 1-5V, 0-10V)
3	ALARM OUT
4	PRESSURE OUTPUT (0-20mA, 4-20mA)
5	POWER SUPPLY (13.5-27V)
6	NOT CONNECTED
7	SETPOINT INPUT (0-20mA, 4-20mA)
8	SETPOINT INPUT (0-5V, 1-5V, 0-10V)
9	POWER COMMON
10	PRESSURE OUT COMMON
11	NOT CONNECTED
12	VALVE OVERRIDE INPUT
13	AUX INPUT (0-5V, 0-10V)
14	NOT CONNECTED
15	NOT CONNECTED



9-PIN SUB-D FEMALE CONNECTOR	
PIN #	FUNCTION
1	NOT CONNECTED
2	NOT CONNECTED
3	RXD/TXD - B - red wire
4	NOT CONNECTED
5	GROUND
6	+5Vdc
7	NOT CONNECTED
8	RXD/TXD - A - green wire
9	NOT CONNECTED

FITTING	X" DIMENSION
1/8" TUBE COMP.	*122.7 [4.83]
1/4" TUBE COMP.	*127.8 [5.03]
3/8" TUBE COMP.	*130.8 [5.15]
1/4" VCR	124.0 [4.88]
1/4" VCO	117.6 [4.63]
1/4" NPT-F	125.5 [4.94]
3mm TUBE COMP.	*127.8 [5.03]
6mm TUBE COMP.	*127.8 [5.03]
10mm TUBE COMP.	*131.3 [5.17]
3/8"-1/2" VCR	138.9 [5.47]
3/8"-1/2" VCO	128.8 [5.07]

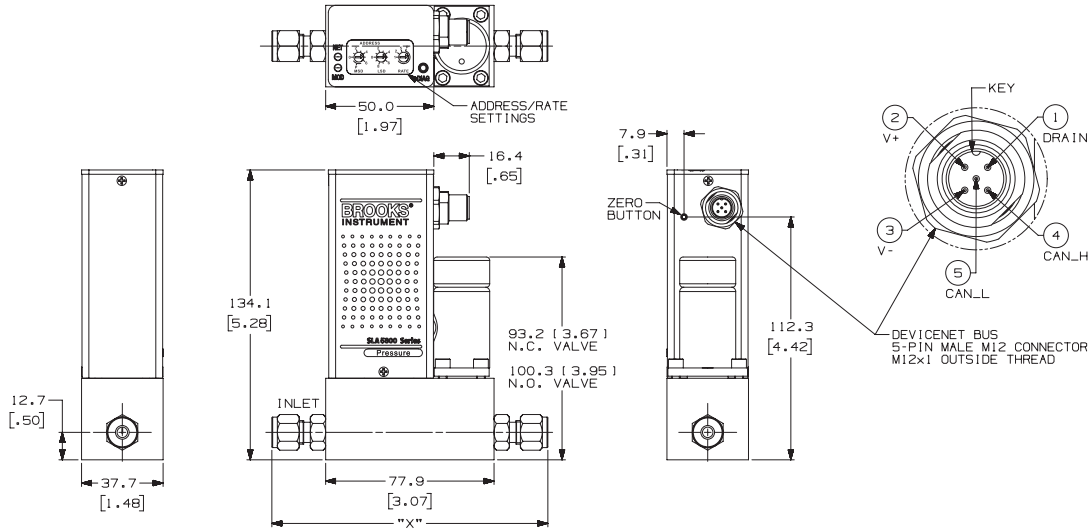
• OVERALL LENGTH FINGER TIGHT



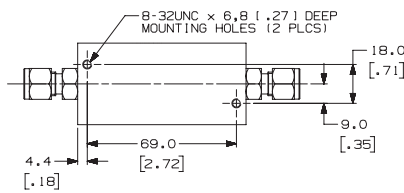
Note : Aux. Input only used for Remote Transducer Pressure Controllers.

SLA5810/20, Thru-Flow, DeviceNet

MM/1 INCH



FITTING	X" DIMENSION
1/8" TUBE COMP.	*122.7 [4.83]
1/4" TUBE COMP.	*127.8 [5.03]
3/8" TUBE COMP.	*130.8 [5.15]
1/4" VCR	124.0 [4.88]
1/4" VCO	117.6 [4.63]
1/4" NPT-F	125.5 [4.94]
3mm TUBE COMP.	*127.8 [5.03]
6mm TUBE COMP.	*127.8 [5.03]
10mm TUBE COMP.	*131.3 [5.17]
3/8"-1/2" VCR	138.9 [5.47]
3/8"-1/2" VCO	128.8 [5.07]

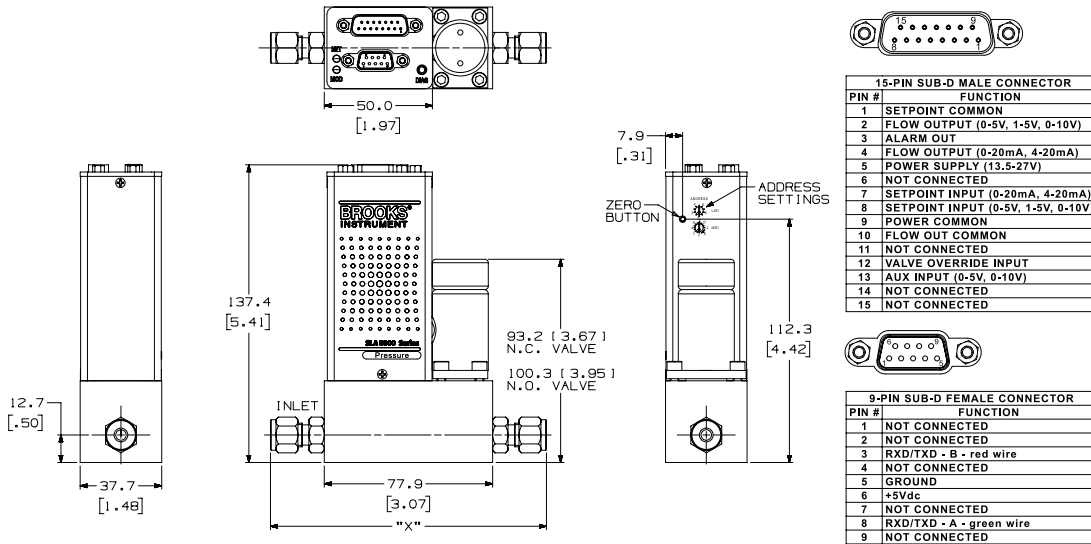


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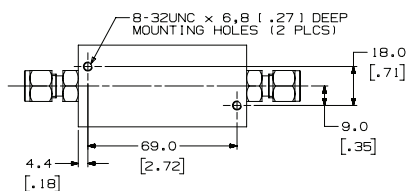
• OVERALL LENGTH FINGER TIGHT

SLA5840, Thru-Flow, Profibus

MM/1 INCH



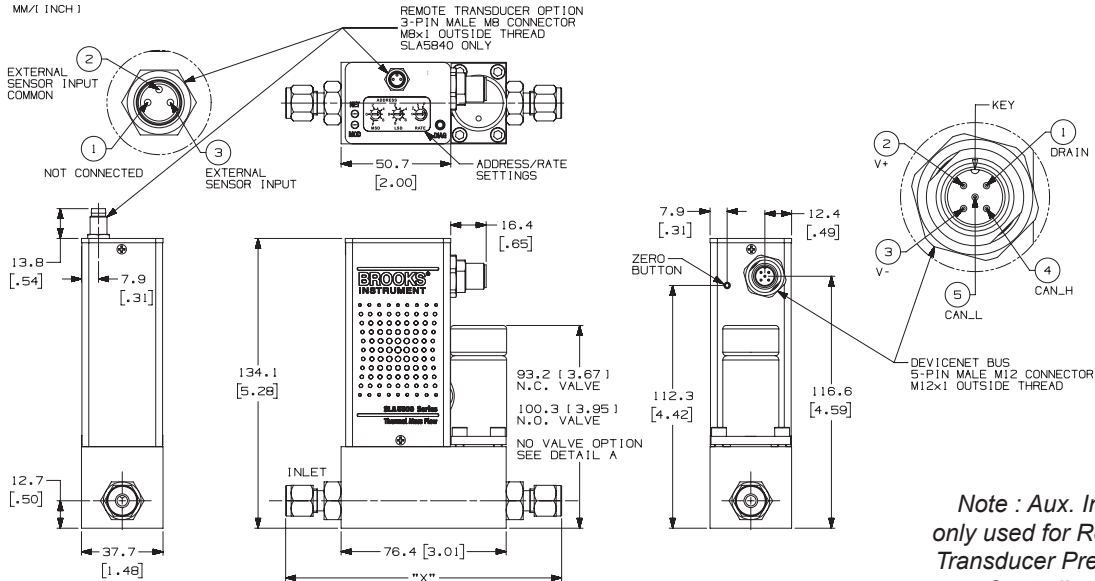
FITTING	X" DIMENSION
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1/4" TUBE COMP.	*127.8 [5.03]
3/8" TUBE COMP.	*130.8 [5.15]
1/4" VCR	124.0 [4.88]
1/4" VCO	117.6 [4.63]
1/4" NPT-F	125.5 [4.94]
3mm TUBE COMP.	*127.8 [5.03]
6mm TUBE COMP.	*127.8 [5.03]
10mm TUBE COMP.	*131.3 [5.17]
3/8"-1/2" VCR	138.9 [5.47]
3/8"-1/2" VCO	128.8 [5.07]



Note : Aux. Input only used for Remote Transducer Pressure Controllers.

• OVERALL LENGTH FINGER TIGHT

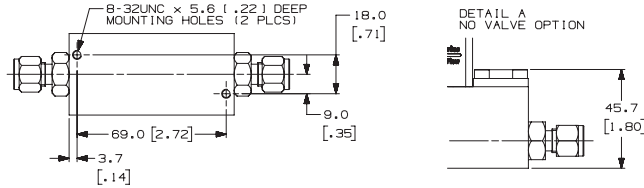
SLA5840, Thru-Flow, DeviceNet



Note : Aux. Input only used for Remote Transducer Pressure Controllers.

FITTING	"X" DIMENSION
1/8" TUBE COMP.	*123.1 [4.85]
1/4" TUBE COMP.	*127.7 [5.03]
3/8" TUBE COMP.	*130.7 [5.15]
1/2" TUBE COMP.	*134.8 [5.31]
1/4" VCR	124.1 [4.89]
1/4" VCO	116.0 [4.56]
1/4" NPT-F	118.5 [4.67]
3mm TUBE COMP.	*122.2 [4.81]
6mm TUBE COMP.	*127.8 [5.03]
10mm TUBE COMP.	*131.1 [5.16]
3/8"-1/2" VCR	131.7 [5.19]
3/8"-1/2" VCO	127.2 [5.01]
1/4" RC (BSP)	116.6 [4.59]

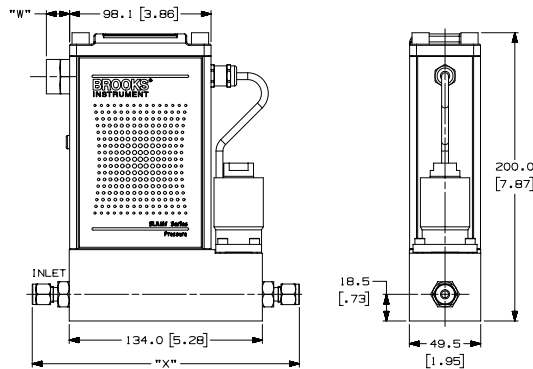
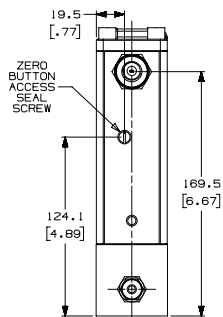
* OVERALL LENGTH FINGER TIGHT



SLAMf10/20, Thru-Flow, RS485

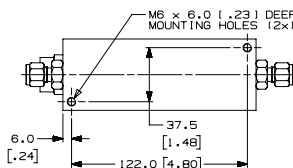
MM/1 INCH

CABLE CONNECTOR	"W" DIMENSION
CABLE GLAND 0.20 [5.1] TO 0.39 [9.9] DIA.	28.6 [1.12]
CABLE 1/2" NPT-F CONDUIT	16.5 [0.65]
M20x1.5 (F) CONDUIT	12.5 [0.49]

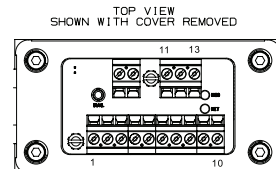


FITTING	"X" DIMENSION
1/8" TUBE COMP.	*180.7 [7.12]
1/4" TUBE COMP.	*185.3 [7.30]
3/8" TUBE COMP.	*188.4 [7.42]
1/2" TUBE COMP.	*192.4 [7.58]
1/4" VCR	181.8 [7.16]
1/4" VCO	173.6 [6.84]
1/4" NPT-F	176.2 [6.94]
6mm TUBE COMP.	*185.4 [7.30]
10mm TUBE COMP.	*188.8 [7.43]
3/8"-1/2" VCR	189.4 [7.46]
3/8"-1/2" VCO	184.8 [7.28]
1/4" RC-F (BSP)	174.2 [6.86]

* OVERALL LENGTH FINGER TIGHT



Note : Aux. Input only used for Remote Transducer Pressure Controllers.



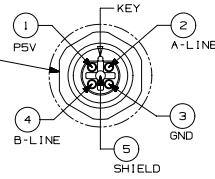
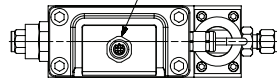
TERMINAL	FUNCTION
1	SETPOINT COMMON
2	PRESSURE OUTPUT (0-5V, 1-5V)
3	ALARM OUT
4	PRESSURE OUTPUT (0-20mA, 4-20mA)
5	POWER SUPPLY (13.5-27V)
6	SETPOINT INPUT (0-20mA, 4-20mA)
7	SETPOINT INPUT (0-5V, 1-5V)
8	POWER COMMON
9	PRESSURE OUT COMMON
10	VALVE OVERRIDE INPUT
11	AUX INPUT (0-5V, 0-10V)
12	RS-485_B (-) INPUT/OUTPUT
13	RS-485_A (+) INPUT/OUTPUT

SLAMf10/20, Thru-Flow, Profibus

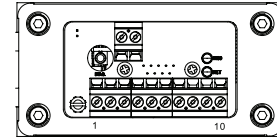
MM/(INCH)

CABLE CONNECTOR CABLE GLAND 0.20 [5.1] TO 0.39 [9.9] DIA. CABLE	"W" DIMENSION
1/2" NPT-F CONDUIT	16.5 [0.65]
M20x1.5 (F) CONDUIT	12.5 [0.49]

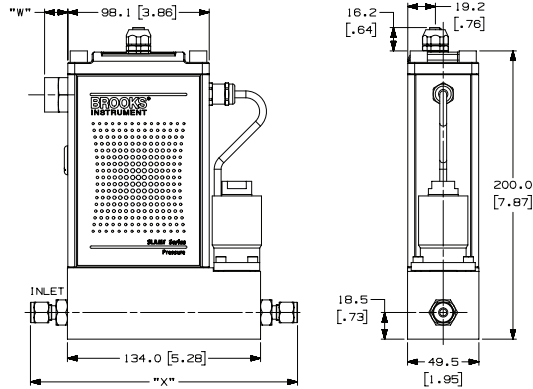
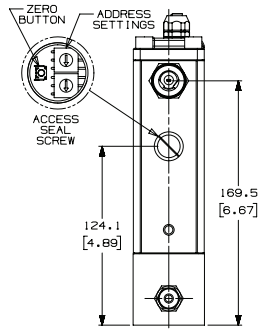
PROFIBUS M12 CONNECTOR
5-PIN FEMALE
M12x1 INTERNAL THREAD
ORIENTATION OF KEY NOT FIXED



TOP VIEW
SHOWN WITH COVER REMOVED

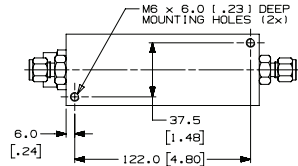


TERMINAL	FUNCTION
1	POWER SUPPLY (13.5-27V)
2	VALVE OVERRIDE INPUT
3	POWER COMMON
4	AUX COMMON
5	AUX INPUT (0-5V, 0-10V)
TERMINAL PROFIBUS M12 CONNECTOR WIRES TO TERMINALS 6-10	
6	P5V (BROWN)
7	RXD/TXD - B-LINE (RED)
8	GROUND (BLUE)
9	RXD/TXD - A-LINE (GREEN)
10	SHIELD (GRAY)



FITTING	"X" DIMENSION
1/8" TUBE COMP.	*180.7 [7.12]
1/4" TUBE COMP.	*185.3 [7.30]
3/8" TUBE COMP.	*188.4 [7.42]
1/2" TUBE COMP.	*192.4 [7.58]
1/4" VCR	181.8 [7.16]
1/4" VCO	173.6 [6.84]
1/4" NPT-F	176.2 [6.94]
6mm TUBE COMP.	*185.4 [7.30]
10mm TUBE COMP.	*188.8 [7.43]
3/8"-1/2" VCR	189.4 [7.46]
3/8"-1/2" VCO	184.8 [7.28]
1/4" RC-F (BSP)	174.2 [6.86]

* OVERALL LENGTH FINGER TIGHT



Note : Aux. Input only used for Remote Transducer Pressure Controllers.

Access our library of
CAD Drawings

Code Description	Code Option	Option Description
I. Base Model Numbers	SLA	Smart Link Advantage
II. Package / Finish Specifications	58	Standard Elastomer Series
	MF	Standard Elastomer Series (NEMA 4X/IP66 Housing)
III. Function	1	Downstream Pressure Controller
	2	Upstream Pressure Controller
	4	Remote Transducer Pressure Controller (SLA58xx only)
IV. Gas or Range	0	3 ccm - 50 lpm
V. Digital I/O Communication (SLA58xx Pressure Controllers)	A	None (select applicable analog I/O)
	D	DeviceNet I/O (with 5-pin micro connector) (Only on SLA5810/20/40)
	P	Profibus (2x sub-D)
	S	RS485 (select applicable analog I/O)
V. Digital I/O Communication (SLAMfxx Pressure Controllers)	A	None (select applicable analog I/O)
	P	Profibus (5-pin female M12, M20 x 1.5 conduit)
	R	Profibus (5-pin female M12, PG11 cable gland)
	T	Profibus (5-pin female M12, 1/2" NPT (F) conduit)
	S	RS485 (select applicable analog I/O)
VI. Mechanical Connection	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
	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
VII. O-ring Material	A	Viton
	B	Buna
	C	PTFE
	D	Kalrez
	E	EPDM
	J	FDA/USP Class VI - Viton
	L	FDA/USP Class VI - EPDM
VIII. Valve Seat	B	Viton
	C	Buna
	D	Kalrez
	E	EPDM
	F	PTFE
	G	Metal (SLA5810/20/40 Only)
	IX. Valve Type	1
4		Normally closed High Pressure (1500 - 4500 psi)
5		Normally open (SLA5810/20 Only) (\leq 1500 psi)

Code Description	Code Option	Option Description
X. Analog I/O Communications (SLA58xx Pressure Controllers)	A	None - Digital Communications only
	B	0-5 Volt 0-5 Volt
	C	4-20 mA 4-20 mA
	L	1-5 Volt 1-5 Volt
	M	0-20 mA 0-20 mA
	0	0-10 Volt 0-10 Volt
	1	0-5 Volt 4-20 mA
	2	0-5 Volt 0-20 mA
	3	4-20 mA 0-5 Volt
	4	0-20 mA 0-5 Volt
X. Analog I/O Communications (SLAMfxx Pressure Controllers)	A	None - Digital Communications only
	E	4-20 mA 0-5 Volt PG11 Gland
	F	0-5 Volt 0-5 Volt PG11 Gland
	G	4-20 mA 4-20 mA PG11 Gland
	H	0-5 Volt 4-20 mA PG11 Gland
	I	0-5 Volt 0-20 mA PG11 Gland
	J	0-5 Volt 0-5 Volt 1/2" NPT (F) Conduit
	K	4-20 mA 4-20 mA 1/2" NPT (F) Conduit
	N	0-5 Volt 4-20 mA M20 x 1.5 Conduit
	O	0-5 Volt 0-20 mA M20 x 1.5 Conduit
	P	4-20 mA 0-5 Volt M20 x 1.5 Conduit
	Q	0-20 mA 0-5 Volt M20 x 1.5 Conduit
	R	1-5 Volt 1-5 Volt PG11 Gland
	S	0-20 mA 0-20 mA PG11 Gland
	T	1-5 Volt 1-5 Volt 1/2" NPT (F) Conduit
	U	0-20 mA 0-20 mA 1/2" NPT (F) Conduit
	V	0-5 Volt 0-5 Volt M20 x 1.5 Conduit
	W	1-5 Volt 1-5 Volt M20 x 1.5 Conduit
	X	0-20 mA 0-20 mA M20 x 1.5 Conduit
	Y	4-20 mA 4-20 mA M20 x 1.5 Conduit
	Z	0-20 mA 0-5 Volt PG11 Gland
5	0-5 Volt 4-20 mA 1/2" NPT (F) Conduit	
6	0-5 Volt 0-20 mA 1/2" NPT (F) Conduit	
7	4-20 mA 0-5 Volt 1/2" NPT (F) Conduit	
8	0-20 mA 0-5 Volt 1/2" NPT (F) Conduit	
XI. Power Supply Inputs	1	+15 Vdc
	2	24 Vdc
XII. Output Enhancements	A	Standard response
XIII. Certification	1	Safe Area
	2	For Zone II Atex/IECEX

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

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Global Headquarters

Brooks Instrument

407 West Vine Street
Hatfield, PA
19440-0903 USA

Toll-Free (USA): 888-554-FLOW
T: 215-362-3500

BrooksAM@BrooksInstrument.com

A list of all Brooks Instrument locations and contact details can be found at www.BrooksInstrument.com

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