

DS-PR-SLA5800-SLAMf-Series-RevB-PC-RT-eng January, 2017

SLA5810/20/40 SLAMf10/20 Series

Pressure Controller (Thermal Mass Flow)

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

Overview

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.

Product Description

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 and Benefits

Features	Benefits
Closed loop control	Eliminates droop & hysteresis associated with traditional mechanical spring diaphragm pressure regulators
User accessible service port	Simplified installation, start-up, troubleshooting and access to diagnostics provides maximum uptime
Wide pressure range capabilities	Ability to control up to 4500 psig, giving it one of the widest pressure ranges on the market today
Advanced diagnostics	Ensures device is operating within user specified limits for high process yield and maximum uptime
Superior valve technology	Minimum leak-by, maximum turndown, fast response reduces overall gas panel cost and increases throughput
Adaptable mechanical configurations	Easily retrofit to existing systems
Primary standard calibration systems	Ensures measurement accuracy is traceable to international standards
Simple modular design	Easy-to-service elastomer sealed design provides options for factory or field service maximizing uptime and reducing total cost of ownership
IP66/NEMA 4X rated enclosure	Weatherproof protection optional for "Hosedown" applications such as: Food, Beverage, Pharmaceutical & Biotech
Hazardous area approvals	Designed to operate in non-incendive (Division 2/Zone 2) environments





Model SLAMf10/20

Model SLA5810/20/40

Product Description

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 deviceprofiles 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 Control Mode	Flow Ranges N2 Eq. Ratings (lpm) Min. F.S. Max. F.S.		Minimum Full Scale Pressure Standard	Maximum Full Scale Pressure Standard	Pressure Equipment Directive (PED) Module H Category
SLA5810/SLAMf10	Downstream (Pressure Regulator)	0.003	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	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	50 10	10 psi 1500 psi	1500 psia/103 bara 4500 psia/310 bara	Sound Engineering Practices (SEP)

* Consult sales agent or Brooks Instrument for flow limitations < 10 psi F.S. pressure

Performance	SLA58510/20 & SLAMf10/20	SLA5840				
Pressure Accuracy (Including Linearity and Hysteresis)	\pm 0.25% of Transducer F.S., F.S. > 300 psia \pm 0.12% of Transducer F.S., F.S. \leq 300 psia	Dependent on Remote Pressure Transducer				
Flow Accuracy (N2 equivalent)	quivalent) 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					
Control Range	20:1 Typical - Ap	plication 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	$<\pm$ 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 S	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	n. 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) Co	nduit, M20 x 1.5 Conduit	N/A			
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 V	dc to +27 Vdc	From +11 Vdc to +25 Vdc			
Power Requirements Watts, Max.	Valve Orifice > 0 Valve Orifice ≤ 0	.032": 8.7 Watts .032": 5.2 Watts	Valve Orifice > $0.032''$: 10 Watts Valve Orifice $\leq 0.032''$: 7 Watts			
Voltage Set Point Input Specifications						
Nominal Range	0-5 Vdc, 1-5 V	N/A				
Full Range	(-0.5)-	N/A				
Absolute Max.	18 V (witho	N/A				
Input Impedence	>990	>990 kOhms				
Current Set Point Input Specifications						
Nominal Range	4-20 mA o	4-20 mA or 0-20 mA				
Full Range	0-22	N/A				
Absolute Max.	24 mA (with	24 mA (without damage)				
Input Impedence	100 (Dhms	N/A			
Flow Output (Voltage) Specifications						
Nominal Range	0-5 Vdc, 1-5 V	0-5 Vdc, 1-5 Vdc or 0-10 Vdc				
Full Range	(-1)-1	N/A				
Min Load Resistance	2 k0	2 kOhms				
Flow Output (Current) Specifications						
Nominal Range	0-20 mA o	r 4-20 mA	N/A			
Full Range	0-22	mA	N/A			
Max. Load	380 (Dhms	N/A			
Analog I/O Alarm Ouput*						
Туре	Open C	ollector	N/A			
Max. Closed (On) Current	25	mA	N/A			
Max. Open (Off) Leakage	1μ	1μΑ				
Max. Open (Off) Voltage	30	Vdc	N/A			
Analog I/O Valve Override Signal Specifica	tions**					
Floating/Unconnected	Instrument controls	s valve to command set point	N/A			
VOR < 0.3 Vdc	Valve	Closed	N/A			
0.3 Vdc < VOR < 4.8 Vdc	Unde	fined	N/A			
VOR > 4.8 Vdc	Valve	Open	N/A			
Input Impedence	60 k0	Dhms	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

Certifications - SLA58XX

			Applicable	
Mark	Agency	Certification	Standard	Details
		Class I, Div 2, Group A, B, C, D		
	UL	Class I, Zone 2, IIC T4	UL & CSA	
C THE US	(Recogonized)	Class II, Zone 22	Standards	E73889 Vol 3, Sec 4
		II 3 G Ex nA IIC T4 Gc	EN60079-0:2012	
(Ex)	ATEX		EN 60079-15:2010	KEMA 04ATEX 1118X
			IEC 60079-0.2011	
	IECEx		IEC 60079-15:2010	IECEx DEK 14.0072X
Pa				15-AV/4BO-0641
<u>S</u> s	KOSHA	Ex nA IIC T4		15-AV4BO-0640
CE	CE	EMC Directive 2014/30/EU Directive 2011/65/EU	EN:61326-1:2013	EMC RoHS

Certifications - SLAMfxx

Mark	Agency	Certification	Applicable Standard	Details
		Class I, Div 2, Group A, B, C, D		
– 1°	UL	Class I, Zone 2, IIC T4		
C 7 US	(Recogonized)	Class II, Zone 22 IP66	UL & CSA Standards	E73889 Vol 3, Sec 4
-		Class I, Div 2, Group A, B, C, D		
(III)		Class I, Zone 2, IIC T4		
	UL (Listed)	Class II, Zone 22 IP66	UL & CSA Standards	E73889 Vol 1, Sec 25
			EN 60079-0 : 2012 +	
		II 3 G Ex nA IIC T4 Gc	A11:2013	
		II 3 D Ex tc IIIC T 85 °C Dc	EN 60079-15 : 2010	
\overline{c}			EN 60079-31 : 2014	KEMA 04ATEX1290 X
(Ex)	ATEX	IP66		
			IEC 60079-0 : 2011 +	
		Ex nA IIC T4 Gc	Corr. 2012 + Cor. 2013	
		Ex to IIIC T 85 °C Dc	IEC 60079-15 : 2010	
			IEC 60079-31 : 2013	IEC KEM 07.0043X
	IECEx	IP66		
			The Ministry of	
			Employment and Labor	15-AV4BO-0638
		Ex nA IIC 14	Notice No. 2013-34	15-AV4BO-0639
Cs	KOOLIA		Article 34 of the Industrial	16-AV4BO-0328X
12	KUSHA	EX (D) A22 IP66 185°C	Safety and Health	16-AV4BO-0327X
(F	CE	EMC Directive 2014/30/EU	EN:61326-1:2013	EMC
		Directive 2011/65/EU		RoHS

Product Dimensions



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

1/4" NPT-

 1/4" NPT-F
 125.5

 3mm TUBE COMP.
 *127.8

 6mm TUBE COMP.
 *127.8

 10mm TUBE COMP.
 *123.8

 3/8"-1/2" VCR
 138.9

 3/8"-1/2" VCO
 128.8

· OVERALL LENGTH FINGER TIGHT

138.9 [5.47] 128.8 [5.07]

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4.4-

[.18]

H

-9.0

[.35]

-6

69.0-

[2.72]

Product Dimensions (continued)







Product Dimensions (continued)



Product Dimensions (continued)



Model Code

I. Bask Model Numbers Start Link Advantage III. Practage / Finish Specifications Standard Elastomer Series III. Function 1 Downstream Pressure Controller V. Gas or Range 0 3 arm 3:0 [mm] IV. Gas or Range 0 3 cm - 3:0 [mm] V. Digital Lito Communication (SLAStare Pressure Controller) A None (select applicable analog 100) V. Digital Lito Communication (SLAStare Pressure Controllers) A None (select applicable analog 100) V. Digital Lito Communication (SLAStare Pressure Controllers) A None (select applicable analog 100) V. Digital Lito Communication (SLAStare Controllers) A None (select applicable analog 100) V. Digital Lito Communication (SLAStare Controllers) A None (select applicable analog 100) V. Digital Lito Communication (SLAStare Controllers) A None (select applicable analog 100) V. Digital Lito Communication (SLAStare Controllers) A None (select applicable analog 100) V. Digital Lito Communication (SLAStare Contrecollers) A None (select applica	Code [Description	Code Option	Option Description
II. Package / Finish Specifications Sendard Elastomer Series III. Function 1 Downstream Pressure Controller III. Function 1 Downstream Pressure Controller IV. Gas or Range 0 3 cm - 50 lpm IV. Giptal I/O Communication (GLASbar Pressure Controller) A None (selet applicable stating I/O) IV. Digital I/O Communication (GLASbar Pressure Controller) A None (selet applicable stating I/O) IV. Digital I/O Communication (GLASbar Pressure Controller) A None (selet applicable stating I/O) IV. Digital I/O Communication (GLASbar Pressure Controller) A None (selet applicable stating I/O) IV. Digital I/O Communication (GLASbar Pressure Controller) A None (selet applicable stating I/O) IV. Mechanical Connection A None (selet applicable stating I/O) IV. Mechanical Connection A None (selet applicable stating I/O) IV. Mechanical Connection A None (selet applicable stating I/O) IV. Mechanical Connection A None (selet applicable stating I/O) <th>Ι.</th> <th>Base Model Numbers</th> <th>SLA</th> <th>Smart Link Advantage</th>	Ι.	Base Model Numbers	SLA	Smart Link Advantage
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III. Function 1 Deventment Pressure Controller 2 Uptram Pressure Controller 4 Remote Transducer Pressure Controller (SLASSex only) IV. Gisa or Range 0 3 cm - 30 jm 1 V Digital IVO Communication (SLASSex Pressure Controllers) A None (select applicable analog IVO) V Digital IVO Communication (SLAMax Pressure Controllers) A None (select applicable analog IVO) V Digital IVO Communication (SLAMax Pressure Controllers) A None (select applicable analog IVO) V Digital IVO Communication (SLAMax Pressure Controllers) A None (select applicable analog IVO) VI. Mechanical Connection A None (select applicable analog IVO) VI. Mechanical Connection IA Winbut adapters, 9745" - 18 UNF III JAY Tible Compression III IIII IIII JAY Tible Compression IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		5 1	MF	Standard Elastomer Series (NEMA 4X/IP66 Housing)
Instrume 2 Upstram Pressure Controller 4 Remote Inanducer Pressure Controller (SLA58x only) IV. Gas or Range 0 3 ccm - 50 lpm V. Digital I/O Communication (SLA58x Pressure Controllers) A None (cellect applicable analog I/O) P Pertotion Construction (Only on SLA5810220/40) P V. Digital I/O Communication (SLA58x Pressure Controllers) A None (select applicable analog I/O) V. Digital I/O Communication (SLA58x Pressure Controllers) A None (select applicable analog I/O) V. Digital I/O Communication (SLA58x Pressure Controllers) A None (select applicable analog I/O) V. Digital I/O Communication (SLA58x Pressure Controllers) A None (select applicable analog I/O) V. Digital I/O Communication (SLA58x Pressure Controllers) A None (select applicable analog I/O) V. Digital I/O Communication (SLA58x Pressure Controllers) A None (select applicable analog I/O) V. Digital I/O Communication (SLA58x Pressure Controllers) A None (select applicable analog I/O) V. Mechanical Connection IA Nithe Compression III	III.	Function	1	Downstream Pressure Controller
4 Remote Transducer Pressure Controller (SLASBax only) IV. Gas or Range 0 3 ccm - 30 lpm V Digital I/O Communication (SLASBax Pressure Controllers) A None (select applicable analog I/O) V Digital I/O Communication (SLAMax Pressure Controllers) A None (select applicable analog I/O) V Digital I/O Communication (SLAMax Pressure Controllers) A None (select applicable analog I/O) V Digital I/O Communication (SLAMax Pressure Controllers) A None (select applicable analog I/O) V Digital I/O Communication (SLAMax Pressure Controllers) A None (select applicable analog I/O) V Digital I/O Communication (SLAMax Pressure Controllers) A None (select applicable analog I/O) V Digital I/O Communication (SLAMax Pressure Controllers) A None (select applicable analog I/O) V Nechanical Connection IA Without adgree, P/I G X and(I/O) V Nechanical Connection IA Without adgree, P/I G X and(I/O) II JA# III JA# Two Compression III JA# Two Compression multine JA# Two Compression multine			2	Upstream Pressure Controller
IV. Gas or Range 0 3 ccm - 50 lpm V. Gigital I/O Communication (SLASBX, Pressure Controllers) A None Celerct applicable analog I/O P Profibus (2x, ub-D) E Respective Controllers) A V. Digital I/O Communication (SLAMox Pressure Controllers) A None Celerct applicable analog I/O V. Digital I/O Communication (SLAMox Pressure Controllers) A None Celerct applicable analog I/O V. Digital I/O Communication (SLAMox Pressure Controllers) A None Celerct applicable analog I/O V. Digital I/O Communication (SLAMox Pressure Controllers) A None Celerct applicable analog I/O V. Mechanical Connection I.A Without adapters, 916" - 180 UKF I.A Without adapters, 916" - 180 UKF I.A I.B I.JA" tube compression I.B I.B I.JA" tube compression I.B I.JA" Tube compression I.B I.JA" tube compression withiter I.B I.JA" Tube compression withiter I.B I.JA" Tube compression withiter I.B I.JA" Tube compression withiter I.B			4	Remote Transducer Pressure Controller (SLA58xx only)
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V. Digital I/O Communication (SIAM/xx Pressure Controllers) A None (select applicable analog I/O) P Profibus (5-pin female A12, A20 x 1.5 conduit) R R Profibus (5-pin female A12, D2' NFC (0) conduit) S BS485 (celt applicable analog I/O) VI. Mechanical Connection 1A Without adapters, 9/16" - 18 UWF 1B 1D 1A" tube compression 1C 10" fue compression 1D 36" tube compression 1L 14" VCR 1B 14" VCR 1D 36" tube compression wfilter 1D 36" tube compression wfilter </th <td></td> <td></td> <td>S</td> <td>RS485 (select applicable analog I/O)</td>			S	RS485 (select applicable analog I/O)
V. Upifal UP Communication (SIAMixe Pressure Controllers) P P Profibus (5: pin female M12, PC011 cable gland) P T Profibus (5: pin female M12, PC011 cable gland) P T Profibus (5: pin female M12, PC011 cable gland) P VI. Mechanical Connection IA Withor adapters, 97126* - 18 UNF IB 1/4" tube compression IC 10 30" tube compression IC 10" tube compression IC 10" tube compression IL 1/4" VC0 IC IA" WTC IH 1/4" tube compression IL 10" tube compression IL 1/4" VC0 IL 10" tube compression IL 1/4" VC0 IL 11" tube compression IL 1/4" VC0 IL 14" tube compression IL 1/4" tube compression wfilter IL 14" tube compression wfilter IL 1/4" tube compression wfilter IL 13" tube compression wfilter IL 1/4" tube compression wfilter IL 30" 1/2" VCR wfilter IL 1/4"				
(Stands Presole Contours) F Profibus (S-pin female Miz, PG11 cable gland) I Profibus (S-pin female Miz, PG11 cable gland) I Profibus (S-pin female Miz, PG11 cable gland) VI. Mechanical Connection IA Without adopters, PJ15" - 18 UNF IA IB U/4" tobe compression IC 1/4" tobe compression IC 1/4" tobe compression IE 1/4" VCR IA Without adopters, PJ16" - 18 UNF IA Vithout adopters, PJ16" - 18 UNF IA Vithout adopters, PJ16" - 18 UNF IA Vithout adopters, PJ16" - 18 UNF IA Vito CO IG 1/4" VCR IA 3/6" 1/2" VCR <td>۷.</td> <td>Digital I/O Communication</td> <td>A</td> <td>None (select applicable analog I/U) Profibure (E min formale M12, M20 y 1, E conduite)</td>	۷.	Digital I/O Communication	A	None (select applicable analog I/U) Profibure (E min formale M12, M20 y 1, E conduite)
N Indias Use primere Mails 2.12* WFI (6) conduit) I Profilus (5: pri female Mails 2.12* WFI (6) conduit) Stabs celect applicable analog IVO VI. Mechanical Connection IA Without cadpters, 91/2* - 18 UNF IB 14* Tube compression ID 38' Tube compression ID 38' Tube compression ID 38' Tube compression IA Without compression IA 38' Tube compression wfilter IA 14' We compression wfilter IA 14'' We compression wfilter IA 14'' We compression wfilter IA 14'' We wfilter <td></td> <td>(SLAMIXX Pressure Controllers)</td> <td>P D</td> <td>Profibus (5-pin female M12, M20 X 1.5 Conduit) Profibus (5-pin female M12, M20 X 1.5 Conduit)</td>		(SLAMIXX Pressure Controllers)	P D	Profibus (5-pin female M12, M20 X 1.5 Conduit) Profibus (5-pin female M12, M20 X 1.5 Conduit)
S R5485 (elect applicable analog I/O) VI. Mechanical Connection 1A Without adapters, 9/16" - 18 UNF 1B 1/4" Uble compression 10 10 1C 1/8" tube compression 10 1G 1/4" VCR 11 11 1F 1/4" VCR 11 11 1B 1/4" VCR 11 11 1B 1/4" VCR 11 11 1G 1/4" VCR 11 30" 1/2" VCR 1H 6mm tube compression 11 30" 1/2" VCR 1H 30" 1/2" VCR 11 30" 1/2" VCR 1X 1/4" WP 11 1/4" NPT 1H 6mm tube compression wfilter 11 1/4" VCR 1Y 3mm tube compression wfilter 11 1/4" VCR wfilter 11 1/4" VCR wfilter 11 1/4" VCR wfilter 11 3/4" 1/2" VCR wfilter 11 3/4" 1/2" VCR wfilter 11 3/4" 1/2" VCR wfilter 11 3/4" 1/2" VCR wfilter 11 <td></td> <td></td> <td>T</td> <td>Profibus (5-pin female M12, 1/2" NPT (F) conduit)</td>			T	Profibus (5-pin female M12, 1/2" NPT (F) conduit)
VI. Mechanical Connection IA Without adapters, 9/16* - 18 UNF 18 1/4" tube compression 10 38" tube compression 10 38" tube compression 10 38" tube compression 11 14" tube compression 11 11 11 14" VCR 11 11 11 10m tube compression 11 38" tu2" VCR 11 38" tu2" VCR 11 11 11 38" tu2" VCR 11 11 11 38" tu2" VCR 11 11 11 114" tube compression wfilter 11 11 11 114" tube compression wfilter 11 11 11 11 114" tube compression wfilter			S	RS485 (select applicable analog I/O)
Vit. Michael and Start Strate Vitable Compression 10 1/8 1/4" tube compression 11 1/8" tube compression 11 1/4" VCR 11 1/4" VCO 11 1/4" VCO 11 1/4" VCO 11 1/4" VCO 12 1/4" VCO 13 10mn tube compression 11 3/8" 1/2" VCR 11 3/8" 1/2" VCO 12 1/4" NPT 13 3/8" 1/2" VCO 14 5/8" 1/2" VCO 15 1/4" tube compression 16 1/4" tube compression 17 1/4" KC (GSP) 18 1/4" tube compression wfilter 19 3/8" 1/2" VCV witter 11 1/4" Tube compression wfilter 11 1/4" Tube compression wfilter 11 1/4" Tube compression wfilter 11 1/4" NPT witter 11 1/4" NPT witter 11 1/4" NC (GSP) witter 11 1/4" NC (GSP) witter	M	Machanical Connection	1.0	Without adaptors 0/1/" 10 LINE
VII. O-ring Material A Viton VII. Valve Seat A Viton VII. Valve Seat A Viton VIII. Valve Seat B Vitanally closed High Pressure VIII. Valve Seat B Vitanally closed High Pressure VIII. Valve Type 1 Normally closed High Pressure VIII. Valve Type 1 Normally closed High Pressure VIII. Valve Type 1 Normally closed High Pressure	vi.	Mechanical connection	1R	1/4'' tube compression
10 3/8" tube compression 1E 1/4" VCR 1F 1/4" VCO 1G 1/4" VC 1H 6/mt tube compression 11 10mm tube compression 11 3/8".1/2" VCR 1M 3/8".1/2" VCR 11 1/4" tube compression wfilter 11 1/4" tube compression wfilter 11 1/4" tube compression wfilter 11 3/8".1/2" VCQ wfilter 11 1/4" tube compression wfilter 11 3/8".1/2" VCQ wfilter 11 1/4" KC (USP) wfilter			10	1/8" tube compression
1E 1/4" VCR 1F 1/4" VCR 1G 1/4" NPT 1G 1/4" NPT 1H 6mm tube compression 1 10mm tube compression 11 3/8"-12" VCR 11 3/8"-12" VCR 11 3/8"-12" VCR 11 3/8"-12" VCR 11 1/4" RC (BSP) 11 1/4" Tube compression wfilter 12 1/4" RC (BSP) 11 3/8" tube compression wfilter 12 1/4" VCR wfilter 13 1/4" VCR wfilter 14 6mm tube compression wfilter 11 3/8" tube compression wfilter 11 1/4" VCR wfilter 11 3/8" TuP VCR wfilter 11 3/8" TuP VCQ wfilter 11 1/4" KC (BSP) wfilter 11			1D	3/8" tube compression
IF 1/4" VC0 16 1/4" APT 1H 6mm tube compression 1J 10mm tube compression 11 3/8"-12" VC0 1M 3/8"-12" VC0 1M 3/8"-12" VC0 1M 3/8"-12" VC0 1M 3/8"-12" VC0 11 1/4" for (SpP) 11 1/4" for (SpP) 11 1/4" fube compression 11 1/4" fube compression wfilter 11 1/4" fube compression wfilter 11 1/4" fube compression wfilter 11 1/4" VC0 wfilter 11 1/4" NPT wfilter 11 1/4" NPT wfilter 11 1/4" NPT wfilter 11 1/4" NPT wfilter 11 3/8"-12" VC0 wfilter 11 1/4" NPT wfilte			1E	1/4" VCR
1G 14" NPT 1H 6mm tube compression 1] 10mm tube compression 1L 3/8"-1/2" V CR 1M 3/8"-1/2" V CQ 1P 1/2" tube compression 1T 1/4" RC (BSP) 1Y 3mm tube compression wfilter C1 1/8" tube compression wfilter C1 1/8" tube compression wfilter 01 3/8" tube compression wfilter 13%" tube compression wfilter 11 1/4" VCR wfilter 11 1/4" VCR wfilter 11 1/4" VCR wfilter 11 1/4" VCR wfilter 11 1/4" NPT wfilter 11 1/4" NPT wfilter 11 3/8"-1/2" VCR wfilter 11 1/4" RC (BSP) wfilter 11 1/4" RC (BSP wfilter			1F	1/4" VCO
IH 6mm tube compression 11 3/8"-1/2" VCR 11 3/8"-1/2" VCO 12 10m tube compression 11 3/8"-1/2" VCO 12 11 14 3/8"-1/2" VCO 19 1/2" tube compression 11 1/4" RC (SSP) 11 1/4" KC (SSP) 11 1/4" KC (SSP) 11 1/4" KC (SSP) 12 1/8" tube compression wfilter 11 3/8" tube compression wfilter 11 3/8" tube compression wfilter 11 1/4" VCW wfilter 11 1/4" VCW wfilter 11 1/4" KC (SSP) wfilter 11 1/4" RC (SSP) wfilter			1G	1/4" NPT
1 10mm tube compression 1 3/8"-1/2" VCR 1M 3/8"-1/2" VCR 1P 1/2" tube compression 1T 1/4" RC (6SP) 1Y 3mm tube compression wfilter 11 1/4" VCR wfilter 11 1/4" VCR wfilter 11 1/4" VCR wfilter 11 3/8" tube compression wfilter 11 1/4" VCR wfilter 11 3/8"-1/2" VCC owfilter 11 3/8"-1/2" VCG wfilter 11 3/8"-1/2" VCO wfilter 11 3/8"-1/2" VCO wfilter 11 1/4" RC (8SP) w/filter 11 3/8"-1/2" VCO wfilter 11 1/4" RC (8SP) w/filter			1H	6mm tube compression
III 5/8 -1/2 VCK IIV 3/8 -1/2 VCO IP 1/2" tube compression II 1/4" RC (BSP) IY 3mm tube compression wfilter II 1/4" RC (BSP) IY 3mm tube compression wfilter II 1/4" tube compression wfilter III 1/4" VCQ wfilter II 1/4" VCQ wfilter II 1/4" VCQ wfilter III 0mm tube compression wfilter III 10mm tube compression wfilter III 10mm tube compression wfilter III 3/8"-1/2" VCQ wfilter MII 3/8"-1/2" VCQ wfilter MIII 3/8"-1/2" VCQ wfilter III 1/4" RC (BSP) wfi			1]	10mm tube compression
VII. 0-ring Material A Viton VII. Value Seat B Viton VII. Value Seat B Viton K Value Seat S Viton K Viton Kaluez Viton K S Viton Kaluez K Viton Kaluez Kaluez K Viton Kaluez Kaluez K Viton Kaluez Kaluez Kaluez K Viton Kaluez Kaluez Kaluez K Viton Kaluez Kaluez Kaluez			14	3/8 -1/2 VCR
VII. 0-ring Material A Viton VIII. Volve Seat B Viton VIII. Valve Seat B Viton Vit			1P	1/2'' tube compression
IV 3mm tube compression B1 1/4" tube compression wfilter C1 1/8" tube compression wfilter D1 3/8" tube compression wfilter E1 1/4" VCR wfilter F1 1/4" VCR wfilter G1 1/4" NPT wfilter H1 6mm tube compression wfilter I1 3/8"-1/2" VCR wfilter M1 3/8"-1/2" VCR wfilter M1 3/8"-1/2" VCR wfilter M1 3/8"-1/2" VCR wfilter Y1 3mm tube compression wfilter Y1 3mm tub			11	1/4" RC (BSP)
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 G1 1/4" VCR w/filter H1 6mm tube compression w/filter I1 3/8" 1/2" VCR w/filter M1 3/8" 1/2" VCR w/filter P1 1/2" tube compression w/filter P1 1/2" tube compression w/filter Y1 3mm tube compression w/filter D Kalrez			1Y	3mm tube compression
C1 1/8" tube compression w/filter D1 3/8" tube compression w/filter E1 1/4" VCR w/filter F1 1/4" VCR w/filter G1 1/4" VCR w/filter G1 1/4" VCR w/filter G1 1/4" VCR w/filter G1 1/4" NPT w/filter G1 1/4" NPT w/filter G1 1/4" NPT w/filter J1 10mm tube compression w/filter J1 3/8"-1/2" VCR w/filter M1 3/8"-1/2" VCR w/filter P1 1/2" tube compression w/filter T1 1/4" RC (85P) w/filter P1 1/2" tube compression w/filter T1 1/4" RC (85P) w/filter Y1 3mm tube compression w/filter T1 1/4" RC (85P) w/filter Y1 3mm tube compression w/filter D Kalrez E EPDM			B1	1/4" tube compression w/filter
01 $3/8^{\circ}$ tube compression w/filterE1 $1/4^{\circ}$ VCR w/filterF1 $1/4^{\circ}$ VCR w/filterG1 $1/4^{\circ}$ NPT w/filterH16mm tube compression w/filterJ110mm tube compression w/filterI1 $3/8^{\circ}$ T/2" VCR w/filterP1 $1/2^{\circ}$ tube compression w/filterT1 $1/4^{\circ}$ RC (SP) w/filterP1 $1/2^{\circ}$ tube compression w/filterT1 $1/4^{\circ}$ RC (SP) w/filterP1 $1/2^{\circ}$ tube compression w/filterT1 $1/4^{\circ}$ RC (SP) w/filterY13 mm tube compression w/filterY19 mm tube compression w/filterU10 KalrezEEPDMDKalrezEEPDMFPTFEGMetal (SLA5810/20/40 Only)IX. Valve Type1 Normally closed (≤ 1500 psi)SNormally closed (≤ 1500 psi)SNormally closed (≤ 1500 psi)			C1	1/8" tube compression w/filter
E1 $1/4^{-}$ VCR wiftlerF1 $1/4^{-}$ VCR wiftlerG1 $1/4^{-}$ NPT wiftlerH16mm tube compression wiftlerJ110mm tube compression wiftlerJ1 $3/8^{-}$ - $1/2^{-}$ VCR wiftlerM1 $3/8^{-}$ - $1/2^{-}$ VCR wiftlerM1 $3/8^{-}$ - $1/2^{-}$ VCR wiftlerVII.0-ring MaterialAVitonBBunaCPTFEDKalrezEEPDMJFDA/USP Class VI - VitonLFDA/USP Class VI - EPDMVII.Valve SeatBVitonCBunaDKalrezEEPDMJFDA/USP Class VI - EPDMVII.Valve SeatBVitonCBunaDKalrezEEPDMJFDA/USP Class VI - EPDMVIII.Valve SeatBVitonCBunaDKalrezEEPDMGMetal (SLA5810/20/40 Only)IX.Valve Type1Normally closed (\leq 1500 psi)5Normally closed (\leq 1500 psi)5Normally closed High Pressure (1500 - 4500 psi)			D1	3/8" tube compression w/filter
Image: Pice of the second se			E1	1/4" VCR w/hiter
VII. O-ring MaterialBVitonVII. O-ring MaterialAVitonVII. Valve SeatBVitonVII. Valve SeatBVitonVII. Valve SeatBVitonVII. Valve SeatCPTFEDKarezEEPDMCBVitonVII. Valve SeatCPTFEDKarezEEDKalrezEEDKalrezEEDKalrezEEDKalrezEEDKalrezEFDA/USP Class VI - VitonLFDA/USP Class VI - EPDMVIII. Valve SeatBVitonCSunaCDKalrezEEPDMFPTFEOKalrezEFPDMFPTFEDKalrezEFPDMFPTFEDKalrezEFPDMFPTFEGMetal (SLAS810/20/40 Only)SNormally closed (≤ 1500 psi)SNormally closed High Presure (1500 - 4500 psi)SNormally closed High Presure (1500 nsi)			F1 61	1/4 VCO W/Tilter
Image: State			H1	1/4 NFT Witter
I1 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 YI 3mm tube compression w/filter YI 3mm tube compression w/filter VII. O-ring Material A Viton B B Buna C PTFE D Kalrez E EPDM I FDA/USP Class VI - Viton L FDA/USP Class VI - Viton L FDA/USP Class VI - EPDM VIII. Valve Seat B Viton C F PTFE G Metal (SLA5810/20/40 Only) IX. Valve Type 1 Normally closed (< 1500 psi) S Normally closed High Pressure (1500 - 4500 psi)			11	10mm tube compression 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 B Buna C PTFE D Kalrez E EPDM J FDA/USP Class VI - Viton L FDA/USP Class VI - EPDM VIII. Valve Seat B Kalrez E E EPDM G Buna D Kalrez E EPDM I FDA/USP Class VI - EPDM VIII. Valve Seat B Viton C Buna D Kalrez E E EPDM F PTFE G Metal (SLA5810/20/40 Only) IX. Valve Type 1 Normally closed (< 1500 psi) 4 Normally closed (< 1500 psi) 5 Normally closed (< 1500 psi)			L1	3/8"-1/2" VCR 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 B Buna C PTFE D Kalrez E EPDM I FDA/USP Class VI - Viton L FDA/USP Class VI - EPDM VIII. Valve Seat B VIII. Valve Seat Viton C Buna D Kalrez E EPDM F PTFE G Metal (SLA5810/20/40 Only) IX. Valve Type 1 Normally closed (< 1500 psi) A Normally closed High Pressure (1500 - 4500 psi) S Normally closed (< 1500 psi)			M1	3/8"-1/2" VCO w/filter
T1 1/4" RC (BSP) w/filter Y1 3mm tube compression w/filter VII. O-ring Material A VI. O-ring Material A VI. O-ring Material A VII. O-ring Material A VII. O-ring Material A VII. O-ring Material B 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 D Kalrez E EPDM D Kalrez E EPDM G Material Metal (SLA5810/20/40 Only) IX. Valve Type 1 Normally closed High Pressure (1500 - 4500 psi) S Normally cone (SIA5810/20 Only) (< 1500 psi)			P1	1/2" tube compression w/filter
VII. O-ring Material A Viton B Buna C PTFE D Kalrez E EPDM I FDA/USP Class VI - Viton I FDA/USP Class VI - EPDM VIII. Valve Seat B Viton C Buna C Buna VIII. Valve Seat B Viton C Buna C Buna D Kalrez Kalrez C G Metal (SLAS810/20/40 Only) C Buna I Normally closed (< 1500 psi) A Normally closed High Pressure (1500 - 4500 psi) X. Valve Type 1 Normally closed High Pressure (1500 - 4500 psi) S			T1	1/4" RC (BSP) 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			Y1	3mm tube compression w/filter
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 D Kalrez E EPDM F PTFE G Metal (SLA5810/20/40 Only) IX. Valve Type 1 Normally closed (< 1500 psi)	VII.	O-ring Material	A	Viton
CPTFEDKalrezEEPDMJFDA/USP Class VI - VitonLFDA/USP Class VI - EPDMVIII. Valve SeatBVitonCBunaDKalrezEEPDMFPTFEGMetal (SLA5810/20/40 Only)IX. Valve Type1Normally closed ($\leq 1500 \text{ psi}$)5Normally open (SLA5810/20 Only) ($\leq 1500 \text{ nsi}$)			В	Buna
D Kairez E EPDM J FDA/USP Class VI - Viton L FDA/USP Class VI - EPDM VIII. Valve Seat B VIII. Valve Seat B VIII. Valve Seat C Buna D Kairez E E EPDM F PTFE G Metal (SLA5810/20/40 Only) IX. Valve Type 1 Normally closed (≤ 1500 psi) 5 Normally open (SLA5810/20 Only) (≤ 1500 psi)			<u> </u>	PTFE
Image: End of the product of the pr			D	Kalrez
J FDA/USP Class VI - KION L FDA/USP Class VI - EPDM VIII. Valve Seat B C Buna D Kalrez E EPDM F PTFE G Metal (SLA5810/20/40 Only) IX. Valve Type 1 Normally closed (≤ 1500 psi) 4 Normally closed High Pressure (1500 - 4500 psi) 5 Normally open (SLA5810/20 Only) (≤ 1500 psi)			1	EPDW EDA/LISP Class VI - Viton
VIII. Valve Seat B Viton C Buna D Kalrez E EPDM F PTFE G Metal (SLA5810/20/40 Only) IX. Valve Type 1 Normally closed (≤ 1500 psi) 4 Normally closed High Pressure (1500 - 4500 psi) 5 Normally open (SLA5810/20 Only) (< 1500 psi)			L	FDA/USP Class VI - VION
B Viton C Buna D Kalrez E EPDM F PTFE G Metal (SLA5810/20/40 Only) IX. Valve Type 1 Normally closed (≤ 1500 psi) 4 Normally closed High Pressure (1500 - 4500 psi) 5 Normally open (SLA5810/20 Only) (≤ 1500 psi)			-	
C Duild D Kalrez E EPDM F PTFE G Metal (SLA5810/20/40 Only) IX. Valve Type 1 A Normally closed (≤ 1500 psi) 4 Normally closed High Pressure (1500 - 4500 psi) 5 Normally open (SLA5810/20 Only) (< 1500 psi)	VIII.	valve Seat	В	
E EPDM F PTFE G Metal (SLA5810/20/40 Only) IX. Valve Type 1 Normally closed (≤ 1500 psi) 4 Normally closed High Pressure (1500 - 4500 psi) 5 Normally open (SLA5810/20 Only) (≤ 1500 psi)				Kalrez
F PTFE G Metal (SLA5810/20/40 Only) IX. Valve Type 1 Normally closed (≤ 1500 psi) 4 Normally closed High Pressure (1500 - 4500 psi) 5 Normally open (SLA5810/20 Only) (≤ 1500 psi)			E	EPDM
G Metal (SLA5810/20/40 Only) IX. Valve Type 1 Normally closed (≤ 1500 psi) 4 Normally closed High Pressure (1500 - 4500 psi) 5 Normally open (SLA5810/20 Only) (< 1500 psi)			F	PTFE
IX. Valve Type 1 Normally closed (≤ 1500 psi) 4 Normally closed High Pressure (1500 - 4500 psi) 5 5 Normally open (\$[A5810/20 Only]) (≤ 1500 psi)			G	Metal (SLA5810/20/40 Only)
4 Normally closed (> 1500 psi) 5 Normally open (\$145810/20 Only) (< 1500 psi)	IY	Valve Type	1	Normally closed (< 1500 psi)
5 Normally open (\$1,45810/20 Only) (< 1500 nsi)	1.	valve Type	4	Normally closed Variable Vari
			5	Normally open (SLA5810/20 Only) (\leq 1500 psi)

Model Code (continued)

Code [Description	Code Option	Option Desc	ription		
Х.	Analog I/O	A	None - Digit	al Communicati	ons only	
	Communications	В	0-5 Volt	0-5 Volt		
	(SLA58xx Pressure Controllers)	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		
		9	0-10 Volt	0-5 Volt		
Х.	Analog I/O	A	None - Digit	al Communicati	ons only	
	Communications	E	4-20 mA	0-5 Volt	PG11 Gland	
	(SLAMfxx Pressure Controllers)	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	
]	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	
		0	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 res	ponse		
XIII.	Certification	1	Safe Area			
		2	For Zone II A	tex/IECEx		

Sample Standard Model Code

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

Brooks 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 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.

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Votre contact Brooks Instrument : Serv'Instrumentation Z.I Broteau Nord 69540 Irigny France Tél : +33 (0)4 78 51 47 50 Fax : +33 (0)4 78 51 59 96 Email : <u>e-serv@servinstrumentation.fr</u> Web : <u>www.servinstrumentation.fr</u>

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