



SilFlow™ - Improve Your GC Connectivity

SilFlow™ stainless steel micro-fluidic platform

- Chemically inert
- Low dead volume
- Superb operational stability
- Easy to install and leak free



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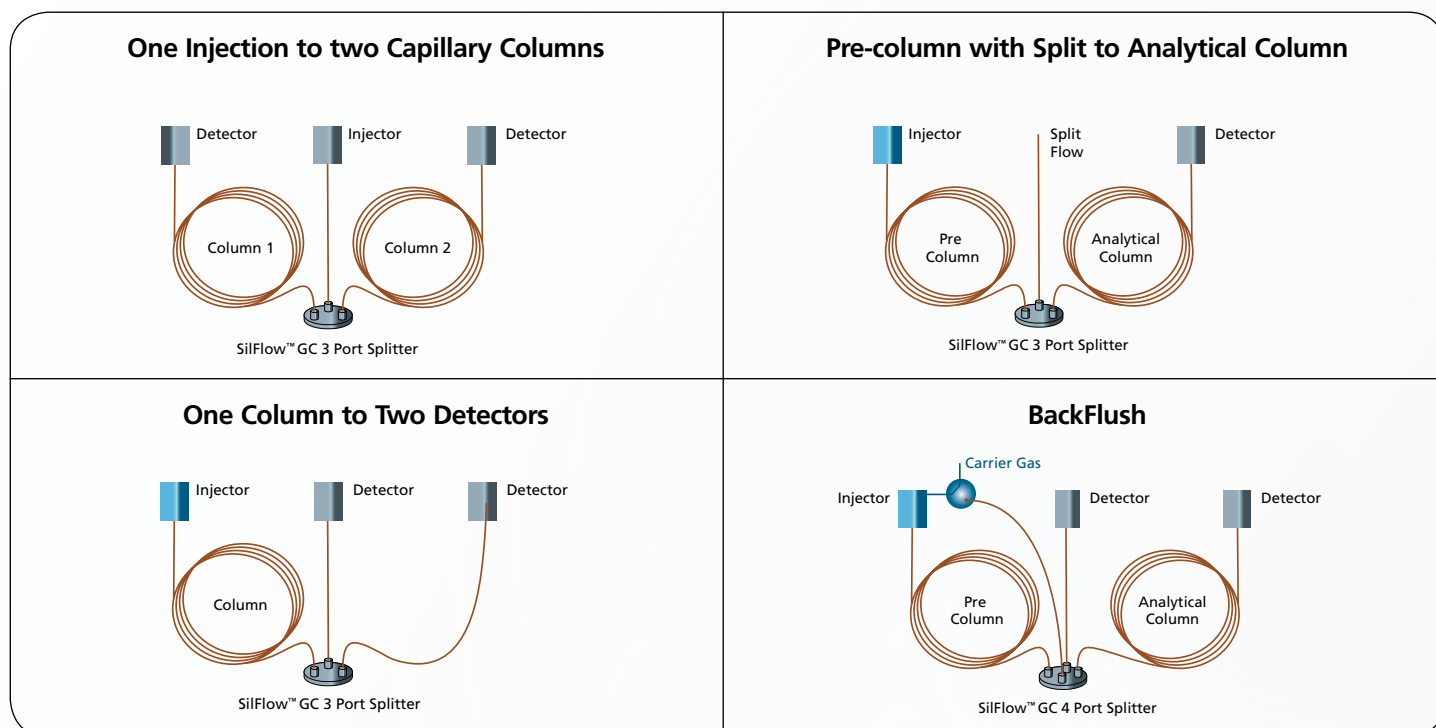
SilFlow™ Improves Your Gas Chromatography Connectivity

Introducing the Latest Chromatography Solution from SGE - SilFlow™

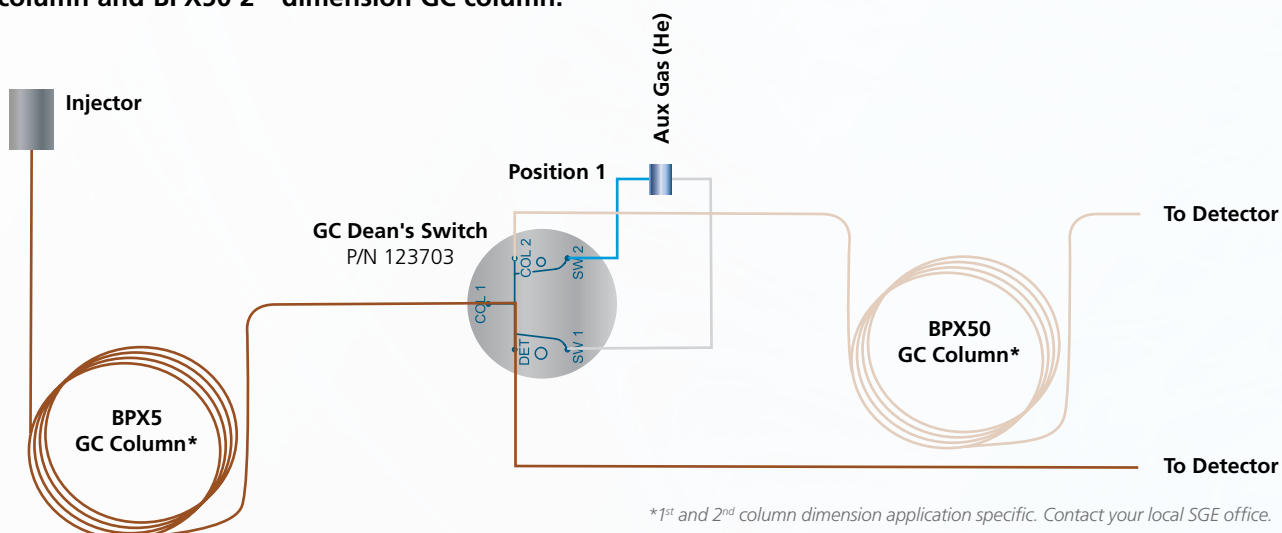
SGE understands today's chromatographers need to move from tubing based flow systems to planar microchannel systems to deliver flexible chromatography solutions. SilFlow™ is an innovation in design and fabrication resulting in a highly efficient and reliable micro fluidic platform that **improves your GC connectivity** to enable maximum chromatography performance.

SGE introduces SilFlow™ microchannel device (MCD) options for 3 port GC splitters (allowing flow splitting options with three different configurations), 4 port GC splitters (offering similar configuration flexibility as the 3 port solution) and a Dean's switch MCD, perfect for multidimensional analyses.

Some suggested application configurations for use with SGE's SilFlow™ splitters:

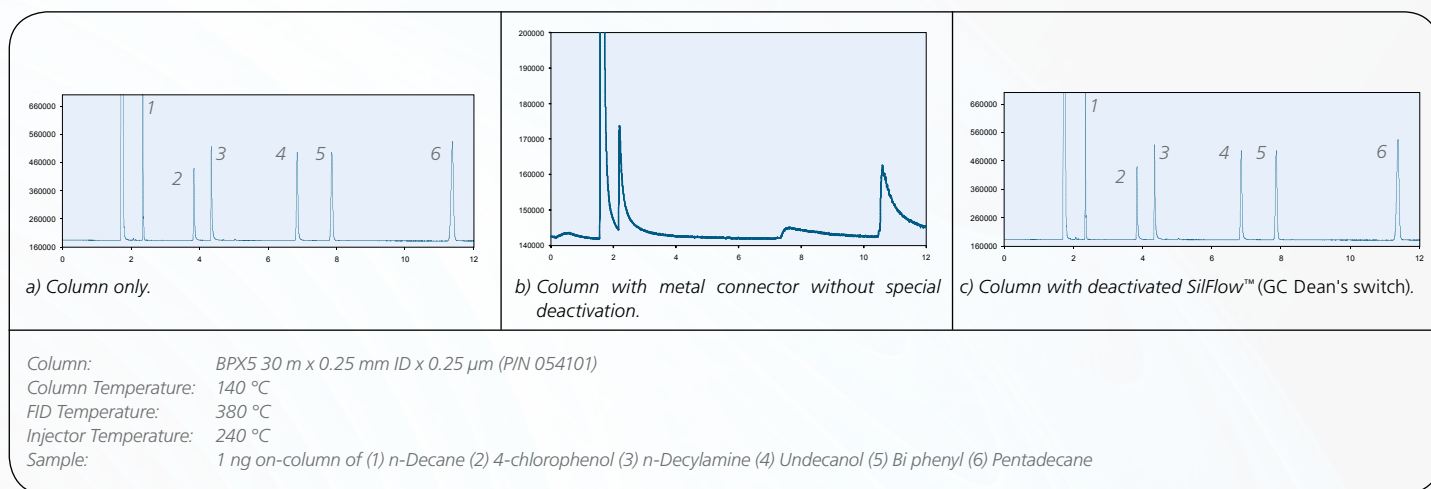


SilFlow™ GC Dean's switch connected with BPX5 (Phenyl Polysilphenylene Siloxane) 1st dimension GC column and BPX50 2nd dimension GC column.



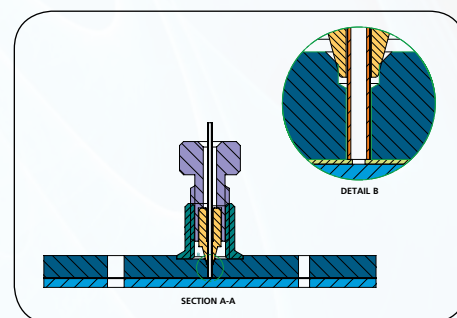
Chemically Inert

- Enabled by SGE's expertise in surface chemistry, SilFlow™ features chemically deactivated stainless steel channels avoiding active sites experienced with conventional connections.
- SilFlow™ can be incorporated into your system without impacting your chromatography.



Low Dead Volume Connections

- Conventional graphite or Vespel® ferrules cannot be used with the SilFlow™ MCD as the dimensional stability is not adequate and there is a risk of contaminating the channels.
- SilTite™ FingerTite metal ferrules result in a reliable zero dead volume connection, giving you optimized peak shapes.



Fused silica to SilFlow™ connection system using SilTite™ FingerTite metal ferrule.

Superb Operational Stability

SilFlow™ Technical Specifications:

- Pressure Capability - The SilFlow™ system can be operated at pressures greater than 25,000 psi (170,000 kPa).
- Thermal Lag - SilFlow™ tracks oven temperature up to 20 °C/min. The design of SilFlow™ alleviates cold spots and sample condensation.
- Maximum Temperature - No practical temperature limit. Limited only by the temperature rating of the GC column being used - ≤ 420 °C.

Easy to Install and Leak Free

- SilFlow™ kits incorporate SilTite™ FingerTite fittings that are easy to set up and can be tightened using finger force to achieve a perfect, reliable seal, even for the most sensitive MS systems – no wrenches required!



SilFlow™ Kit Contents

- SilFlow™ microchannel device (MCD)
- SilTite™ FingerTite tool
- Mounting bracket
- Appropriately sized ferrules, nuts and blanking ferrules for set up



SilFlow™ GC 3 Port Splitter



SilFlow™ GC 4 Port Splitter



GC Dean's Switch

Description	Tubing Dimensions				Pack Size	Part No.
	Port A	Port B	Port C	Port D		
SilFlow™ GC 3 Port Splitter						
GC Kit (1.1)	1.1 mm OD	0.25/0.32 mm ID	0.25/0.32 mm ID	–	Kit	123720
GC Kit (0.53)	0.53 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	–	Kit	123721
GC Kit (0.25/0.32)	0.25/0.32 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	–	Kit	123722
GC MCD (1.1)	1.1 mm OD	0.25/0.32 mm ID	0.25/0.32 mm ID	–	1	123723
GC MCD (0.53)	0.53 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	–	1	123724
GC MCD (0.25/0.32)	0.25/0.32 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	–	1	123725
SilFlow™ GC 4 Port Splitter						
GC Kit (1.1)	1.1 mm OD	0.25/0.32 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	Kit	123730
GC Kit (0.53)	0.53 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	Kit	123731
GC Kit (0.25/0.32)	0.25/0.32 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	Kit	123732
GC MCD (1.1)	1.1 mm OD	0.25/0.32 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	1	123733
GC MCD (0.53)	0.53 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	1	123734
GC MCD (0.25/0.32)	0.25/0.32 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	0.25/0.32 mm ID	1	123735
SilFlow™ GC Dean's Switch						
GC Kit	–	–	–	–	Kit	123703
GC MCD	–	–	–	–	1	123726
SilFlow™ Replacement Parts						
SilFlow™ Nuts	–	–	–	–	10	123704
SilFlow™ Ferrules 0.4 mm ID	–	–	–	–	10	123706
SilFlow™ Ferrules 0.5 mm ID	–	–	–	–	10	123707
SilFlow™ Ferrules 0.8 mm ID	–	–	–	–	10	123709
SilTite™ FingerTite Tool	–	–	–	–	1	123717

SilFlow™ technology is broadly applicable to many areas in multidimensional and comprehensive chromatography – the applications are endless. SGE can create custom micro fluidic systems to improve your specific connectivity requirements. Contact your local SGE office today to discuss your SilFlow™ system needs.

Improve Your GC Connectivity.

AUSTRALIA & PACIFIC REGION

SGE Analytical Science Pty Ltd
Toll Free: 1800 800 167
Tel: +61 (0) 3 9837 4200
Fax: +61 (0) 3 9874 5672
Email: support@sge.com

CHINA

SGE Shanghai Representative Office
Tel: +86 21 6407 9382
Fax: +86 21 6407 9386
Email: china@sge.com

MIDDLE EAST

SGE Gulf
Tel: +971 6 557 3341
Fax: +971 6 557 3541
Email: gulfsupport@sge.com

EUROPE

SGE Europe Ltd
European Head Office
Toll Free: 00800 2790 8999
Toll Free Fax: 00800 2626 2609
Tel: +44 1908 568 844
Fax: +44 1908 566 790
Tel France: +33 1 69 29 80 90
Fax France: +33 1 69 29 09 25
Tel Germany: +49 (0) 6155 / 60746 0
Fax Germany: +49 (0) 6155 / 60746 50
Email: europe@sge.com

INDIA

SGE Laboratory Accessories Pvt Ltd
Tel: +91 22 24715896
Fax: +91 22 24716592
Email: sgeindia@vsnl.com

UNITED STATES OF AMERICA

SGE Incorporated
Toll Free: (800) 945 6154
Tel: +1 512 837 7190
Fax: +1 512 836 9159
Email: usa@sge.com

JAPAN

SGE Japan Inc
Tel: +81 45 222 2885
Fax: +81 45 222 2887
Email: japan@sge.com

 **SGE Analytical Science**
www.sge.com