

# Syringe Accessories

## Reproducibility (Chaney) Adapter

This adapter is built to adjust reproducible injections. It also prevents the plunger from bending. The adjustable stop prevents plunger damage. Easy to install in your laboratory. Available for syringes 700, 800, 1700 and 7000 series.



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## Reproducibility (Chaney) Adapter

### Ordering information

| Syringe series  | Part Number Chaney Adapter |
|-----------------|----------------------------|
| 700, 1700, 7000 | 14725                      |
| 800, 1800       | 32146                      |

## Syringe Guide

The Syringe Guide prevents the plunger from bending and also prevents pulling out of the plunger. Easy to install in your laboratory. Available for syringes 700, 1700 and 7000 series.



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## Syringe Guide

### Ordering information

| Syringe series | 0.5 - 5 $\mu$ l volume | 5 - 10 $\mu$ l volume | 25 - 500 $\mu$ l volume |
|----------------|------------------------|-----------------------|-------------------------|
| 700, 1700      |                        | 14806                 |                         |
| 700, 1700      |                        |                       | 14906                   |
| 7000           | 14906                  |                       |                         |

# Syringe Accessories

## Inert Gas Sampling Valve

Lever actuated on/off valve for storing and transporting samples in any GASTIGHT® TLL syringe. Pressure tested to 6 bar and autoclaveable. Bore diameter 1 mm. Kel-F hub or N needles can be attached to the valve.



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## Inert Gas Sampling Valve

### Ordering information

| Part Number | Description              |
|-------------|--------------------------|
| 86580       | Inert Gas Sampling Valve |

## Septum Adapter

Store and sample syringe contents through the Septum Adapter. Attaches to any TLL or LT syringe replaceable septum.



## Septum Adapter

### Ordering information

| Part Number | Description                               |
|-------------|---|
| 31335       | Septum Adapter TLL includes 12 septa      |
| 75810       | Replacement septa 7 mm diameter 12 pcs/pk |

For 250 µl and larger volumes syringes. Useable for SampleLock™ syringes. The larger port inner diameter of 1 mm allows sample spiking with a 701 N syringe. Provides connection to threaded fittings, tubings assemblies, tees and crosses.

## RN Adapters (Removable Adapters)



### Ordering information

| Part Number | Description                         |   |
|-------------|-------------------------------------|---|
| 35081       | Female Luer/Removable needle hub    |  |
| 35080       | Male Luer/Removable needle hub      |  |
| 35083       | Male Luer Lock/Removable needle hub |  |

# Syringe Accessories

## Syringe Rack

Safe keeping of HAMILTON syringes. The brushed stainless steel Syringe Rack keeps your workplace tidy. It is a clean and safe storage for your syringes. Storage up to 5 syringes from the series 700, 1700 and 7000 is possible. A lip on the plastic holder protects the syringe against accidental touching and falling down. The distance of the plastic holder prevents the syringe from getting in contact with the metal plate. The Syringe Rack is useable as free standing or wall model.



## Syringe Rack

### Ordering information

| Part Number | Description  |
|-------------|--------------|
| 204880      | Syringe Rack |

## Needle Cleaning Kit

If your HAMILTON syringes are kept clean, they will last longer. The HAMILTON Needle Cleaning Kit helps you to do so. It contains a powerful residue-free cleaning solution and a detailed description of the cleaning procedure for syringe and needles. Six fine tungsten wires with diameters from 0.076 mm to 0.306 mm are also included. With these wires you can clean plugged needles.



### Tech Tip - Clogged Needles

 For a partially clogged needle, flush the syringe with an appropriate solvent to solubilize the clog. For a completely clogged needle, do not attempt to clean by forcing the liquid or compressed air through the syringe. Excessive pressure will split the glass barrel. Alternatively, use the HAMILTON Needle Cleaning Kit. Start by using the cleaning wires to dislodge any foreign material. Then flush with the Cleaning Concentrate to further dissolve the clog. Once the clog is removed, rinse the syringe and needle thoroughly with deionized water. Wipe the exterior surfaces of the syringe barrel and needle dry with a lint-free tissue. Make sure that there is no residual cleaning agent in the syringe before using or storing the syringe.

## Needle Cleaning Kit

| Ordering information | Description                                     | Content                           |
|----------------------|---|-----------------------------------|
| 76620                |   | Syringe cleaning kit              |
|                      | <b>Cleaning Wires (178 mm length) 10 pcs/pk</b> | <b>Use to clean needle gauges</b> |
| 18306                | 0.076 mm O.D.                                   | 23s, 26s, 31-33                   |
| 18300                | 0.089 mm O.D.                                   | 26s, 31-33                        |
| 18301                | 0.126 mm O.D.                                   | 22s, 25s, 28-30                   |
| 18302                | 0.167 mm O.D.                                   | 27                                |
| 18303                | 0.207 mm O.D.                                   | 24-26                             |
| 18304                | 0.306 mm O.D.                                   | 22, 23 and larger                 |
| 18311                | Cleaning Concentrate 500 ml                     | Not included in Cleaning Kit      |

# Needles

## Removable Needles

RN needles are made of stainless steel. The needles are available for syringes in volumes from 5 µl to 100 µl and from 250 µl up to 10 ml syringes. RN needles are available in a range from gauge 19 to gauge 34. All standard RN needles are delivered in 51 mm needle length. The RN ferrule is contained in the RN pack. RN needles are sold in packages of six pieces. From HAMILTON you can order your custom made needle according to your specification (SN).



**Tech Tip**  
 Burrs, rough edges at the needle opening and a rough needle surface can be removed by gently rubbing with a fine emery cloth or fine carborundum paper. Make sure to thoroughly rinse and dry the needle before using.

**Economical Tip**  
 By use of a non standard needle order a RN syringe without needle and separate a six pack of your preferred RN or customized RN needle.

### RN Fused Silica Needles for Syringe Volume of 5 µl to 10 µl

| Gauge   | O.D. X I.D. [mm] | Needle length | Point style 3 |
|---------|------------------|---------------|---------------|
| FS 0.17 | 0.17 x 0.08      | 100 mm        | 200285        |
| FS 0.23 | 0.23 x 0.08      | 100 mm        | 200295        |

### RN PEEK Needles for Syringe Volume of 250 µl to 10 ml

| Gauge | O.D. X I.D. [mm] | Point style 2 | Point style 3 | Point style 5 | Custom made Point style 5 | Custom made Point style 2, 3, 4 |
|-------|------------------|---------------|---------------|---------------|---------------------------|---------------------------------|
| PEEK  | 1.52 x 0.76      |               | 8650-01       |               |                           |                                 |

## RN Needle for Syringe Volume 2.5 µl to 100 µl

| Gauge | O.D. X I.D.<br>[mm] | Point style 2 | Point style 3 | Point style 5 | Custom made<br>Point style<br>5, AS | Custom made<br>Point style<br>2, 3, 4 |
|-------|---------------------|---------------|---------------|---------------|-------------------------------------|---------------------------------------|
| 34    | 0.16 x 0.06         |               |               |               |                                     | 207434                                |
| 33    | 0.21 x 0.11         |               | 7762-06       |               |                                     | 7803-05                               |
| 32    | 0.24 x 0.11         |               | 7762-05       |               |                                     | 7803-04                               |
| 31    | 0.31 x 0.13         |               | 7762-04       |               |                                     | 7803-03                               |
| 30    | 0.31 x 0.16         |               | 7762-03       |               |                                     | 7803-07                               |
| 29    | 0.34 x 0.18         |               |               |               |                                     | 7803-06                               |
| 28    | 0.36 x 0.18         |               | 7762-02       |               |                                     | 7803-02                               |
| 27    | 0.41 x 0.21         |               | 7762-01       |               |                                     | 7803-01                               |
| 26s   | 0.47 x 0.13         | 7758-02       | 7768-01       | 7784-07       | 7731-02 <sup>1</sup>                | 7804-04                               |
| 26    | 0.46 x 0.26         | 7758-04       | 7768-02       | 7784-08       | 7731-01 <sup>1</sup>                | 7804-03                               |
| 25s   | 0.52 x 0.15         |               |               |               | 7731-06 <sup>1</sup>                | 7804-10                               |
| 25    | 0.51 x 0.26         |               |               |               | 7731-05 <sup>1</sup>                | 7804-05                               |
| 24    | 0.57 x 0.31         |               |               |               | 7731-09 <sup>1</sup>                | 7804-08                               |
| 23s   | 0.64 x 0.09         |               |               |               | 7731-08 <sup>1</sup>                | 7804-09                               |
| 23    | 0.64 x 0.34         |               |               |               | 7731-07 <sup>1</sup>                | 7804-07                               |
| 22s   | 0.72 x 0.15         | 7758-03       | 7770-01       | 7784-05       | 7731-04 <sup>1</sup>                | 7804-02                               |
| 22    | 0.72 x 0.41         | 7758-01       | 7770-02       | 7784-06       | 7731-03 <sup>1</sup>                | 7804-01                               |
| 21    | 0.82 x 0.51         |               |               |               | 7731-11 <sup>1</sup>                | 7804-12                               |
| 20    | 0.91 x 0.60         |               |               |               | 7731-10 <sup>1</sup>                | 7804-11                               |
| 19    | 1.07 x 0.69         |               |               |               |                                     | 207419                                |
| 18    | 1.27 x 0.84         |               |               |               |                                     | 7804-06                               |

## RN Needle for Syringe Volume 250 µl to 10 ml

| Gauge | O.D. X I.D.<br>[mm] | Point style 2 | Point style 3 | Point style 5 | Custom made<br>Point style<br>5, AS | Custom made<br>Point style<br>2, 3, 4 |
|-------|---------------------|---------------|---------------|---------------|-------------------------------------|---------------------------------------|
| 26s   | 0.47 x 0.13         | 7779-02       | 7780-01       | 7784-03       | 7732-04 <sup>1</sup>                | 7806-04                               |
| 26    | 0.46 x 0.26         | 7779-04       | 7780-02       | 7784-04       | 7732-03 <sup>1</sup>                | 7806-03                               |
| 25s   | 0.52 x 0.15         |               |               |               | 7732-09 <sup>1</sup>                | 7806-09                               |
| 25    | 0.51 x 0.26         |               |               |               | 7732-05 <sup>1</sup>                | 7806-07                               |
| 24    | 0.57 x 0.31         |               |               |               | 7732-07 <sup>1</sup>                | 7806-06                               |
| 23s   | 0.64 x 0.09         |               |               |               | 7732-08 <sup>1</sup>                | 7806-08                               |
| 23    | 0.64 x 0.34         |               |               |               | 7732-06 <sup>1</sup>                | 7806-05                               |
| 22s   | 0.72 x 0.15         | 7779-03       | 7780-03       | 7784-01       | 7732-02 <sup>1</sup>                | 7806-02                               |
| 22    | 0.72 x 0.41         | 7779-01       | 7780-04       | 7784-02       | 7732-01 <sup>1</sup>                | 7806-01                               |
| 21    | 0.82 x 0.51         |               |               |               | 7732-11 <sup>1</sup>                | 7806-11                               |
| 20    | 1.07 x 0.69         |               |               |               | 7732-10 <sup>1</sup>                | 7806-10                               |

<sup>1</sup> Available as point style AS

# Needles

## Metal (N) Hub Needles

The N needles (metal hub) are available in a convenient six pack. The needles are available with a wide variety of point style. Standard needles are delivered with a needle length of 51 mm. Custom made needles are available up to a length of max 1000 mm. The metal hub is made of brass and nickel plated. The needle material quality is SST 304 (DIN1.4301). SST tubing without hub can also be ordered.



Metal Hub Needles

| Gauge | O.D. X I.D.<br>[mm] | Point style 2 | Point style 3 | Point style 5 | Custom made<br>Point style<br>5, AS | Custom made<br>Point style<br>2, 3, 4 |
|-------|---------------------|---------------|---------------|---------------|-------------------------------------|---------------------------------------|
| 33    | 0.21 x 0.11         |               |               |               |                                     | 7747-01                               |
| 32    | 0.24 x 0.11         |               |               |               |                                     | 7747-02                               |
| 31    | 0.26 x 0.13         |               |               |               |                                     | 7748-17                               |
| 30    | 0.31 x 0.16         |               |               |               |                                     | 7748-16                               |
| 29    | 0.34 x 0.18         |               |               |               |                                     | 7748-15                               |
| 28    | 0.36 x 0.18         |               |               |               |                                     | 7748-14                               |
| 27    | 0.41 x 0.21         |               |               |               |                                     | 7748-13                               |
| 26s   | 0.47 x 0.13         | 90039         | 91039         | 7729-01       | 7751-19 <sup>1</sup>                | 7748-19                               |
| 26    | 0.46 x 0.26         | 90026         | 91026         | 7729-03       | 7751-17 <sup>1</sup>                | 7748-12                               |
| 25s   | 0.52 x 0.15         |               |               |               | 7751-21 <sup>1</sup>                | 7748-21                               |
| 25    | 0.51 x 0.26         | 90025         | 91025         | 7729-04       | 7751-16 <sup>1</sup>                | 7748-11                               |
| 24    | 0.57 x 0.31         | 90024         | 91024         | 7729-05       | 7751-15 <sup>1</sup>                | 7748-10                               |
| 23s   | 0.64 x 0.09         |               |               |               | 7751-20 <sup>1</sup>                | 7748-20                               |
| 23    | 0.64 x 0.34         | 90023         | 91023         | 7729-06       | 7751-14 <sup>1</sup>                | 7748-09                               |
| 22s   | 0.72 x 0.15         | 90038         | 91038         | 7729-02       | 7751-18 <sup>1</sup>                | 7748-18                               |
| 22    | 0.72 x 0.41         | 90022         | 91022         | 7729-07       | 7751-13 <sup>1</sup>                | 7748-08                               |
| 21    | 0.82 x 0.51         | 90021         | 91021         | 7729-08       | 7751-12                             | 7748-07                               |
| 20    | 0.91 x 0.60         | 90020         | 91020         | 7729-09       | 7751-11                             | 7748-06                               |
| 19    | 1.07 x 0.69         |               |               |               | 7751-10                             | 7748-05                               |
| 18    | 1.27 x 0.84         |               |               |               | 7751-09                             | 7748-04                               |
| 17    | 1.47 x 1.07         |               |               |               | 7751-08                             | 7748-03                               |
| 16    | 1.65 x 1.19         |               |               |               | 7751-07                             | 7748-02                               |
| 15    | 1.83 x 1.37         |               |               |               | 7751-06                             | 7748-01                               |
| 14    | 2.11 x 1.60         |               |               |               | 7751-05                             | 7749-05                               |
| 13    | 2.41 x 1.80         |               |               |               | 7751-04                             | 7749-04                               |
| 12    | 2.77 x 2.16         |               |               |               | 7751-03                             | 7749-03                               |
| 11    | 3.05 x 2.39         |               |               |               | 7751-02                             | 7749-02                               |
| 10    | 3.40 x 2.69         |               |               |               | 7751-01                             | 7749-01                               |

<sup>1</sup> Available as point style AS

## Kel-F® (KF) Hub Needles

The KF needles (Kel-F® hub) are available in a convenient six pack. The needles are available with a wide variety of point style. Standard needles are delivered with a needle length of 51 mm. Custom made needles are available up to a length of max 1000 mm. The needle material quality is SST 304 (DIN1.4301).



Kel-F® Hub Needles

| Gauge | O.D. X I.D.<br>[mm] | Point style 2 | Point style 3 | Point style 5 | Custom made<br>Point style<br>5, AS | Custom made<br>Point style<br>2, 3, 4 |
|-------|---------------------|---------------|---------------|---------------|-------------------------------------|---------------------------------------|
| 31    | 0.26 x 0.13         |               |               |               |                                     | 7750-22                               |
| 30    | 0.31 x 0.16         |               |               |               |                                     | 7750-21                               |
| 29    | 0.34 x 0.18         |               |               |               |                                     | 7750-20                               |
| 28    | 0.36 x 0.18         |               |               |               |                                     | 7750-19                               |
| 27    | 0.41 x 0.21         |               |               |               |                                     | 7750-18                               |
| 26s   | 0.47 x 0.13         | 90139         | 90539         | 7746-12       | 7752-19 <sup>1</sup>                | 7750-24                               |
| 26    | 0.46 x 0.26         | 90126         | 90533         | 7746-10       | 7752-17 <sup>1</sup>                | 7750-17                               |
| 25s   | 0.52 x 0.15         |               |               |               | 7752-21 <sup>1</sup>                | 7750-26                               |
| 25    | 0.51 x 0.26         | 90125         | 90525         | 7746-09       | 7752-16 <sup>1</sup>                | 7750-16                               |
| 24    | 0.57 x 0.31         | 90124         | 90524         | 7746-08       | 7752-15                             | 7750-15                               |
| 23s   | 0.64 x 0.09         |               |               |               | 7752-20                             | 7750-25                               |
| 23    | 0.64 x 0.34         | 90123         | 90523         | 7746-07       | 7752-14 <sup>1</sup>                | 7750-14                               |
| 22s   | 0.72 x 0.15         | 90138         | 90534         | 7746-11       | 7752-18 <sup>1</sup>                | 7750-23                               |
| 22    | 0.72 x 0.41         | 90122         | 90134         | 7746-06       | 7752-13 <sup>1</sup>                | 7750-13                               |
| 21    | 0.82 x 0.51         | 90121         | 90521         | 7746-05       | 7752-12                             | 7750-12                               |
| 20    | 0.91 x 0.60         | 90120         | 90520         | 7746-04       | 7752-11                             | 7750-11                               |
| 19    | 1.07 x 0.69         |               |               |               | 7752-10                             | 7750-10                               |
| 18    | 1.27 x 0.84         |               |               | 7746-03       | 7752-09                             | 7750-09                               |
| 17    | 1.47 x 1.07         |               |               | 7746-02       | 7752-08                             | 7750-08                               |
| 16    | 1.65 x 1.19         |               |               | 7746-01       | 7752-07                             | 7750-07                               |
| 15    | 1.83 x 1.37         |               |               |               | 7752-06                             | 7750-06                               |
| 14    | 2.11 x 1.60         |               |               |               | 7752-05                             | 7750-05                               |
| 13    | 2.41 x 1.80         |               |               |               | 7752-04                             | 7750-04                               |
| 12    | 2.77 x 2.16         |               |               |               | 7752-03                             | 7750-03                               |
| 11    | 3.05 x 2.39         |               |               |               | 7752-02                             | 7750-02                               |
| 10    | 3.40 x 2.69         |               |               |               | 7752-01                             | 7750-01                               |

<sup>1</sup> Available as point style AS