

# MICROSYRINGES

ILS  
Made in Germany





## Syringes for GC Autosampler

### 1. Agilent Technologies (HP) 7670/7671/7672

Glass Barrel: Borosilicate 3.3  
Precision: < ±1% of the volume

| Volume                                                | Needle<br>Tip Style<br>Length<br>O.D. | fixed<br>a<br>51 mm | removable<br>a<br>51 mm |
|-------------------------------------------------------|---------------------------------------|---------------------|-------------------------|
| <b>Flexible plunger</b>                               |                                       |                     |                         |
| 5 µl                                                  | 0.47 mm                               | 2160301             | 2160305                 |
| 10 µl                                                 | 0.47 mm                               | 2160401             | 2160405                 |
| <b>Special stainless steel plunger</b>                |                                       |                     |                         |
| 5 µl                                                  | 0.47 mm                               | 2100301             | 2100305                 |
| 10 µl                                                 | 0.47 mm                               | 2100401             | 2100405                 |
| <b>Special stainless steel plunger with PTFE-seal</b> |                                       |                     |                         |
| 10 µl                                                 | 0.47 mm                               | 2600401             | 2600405                 |

#### Six-Pack

Economic pack of 6 syringes,  
fixed needles, length 51 mm  
tip style "a"

Volume O.D.  
Special stainless steel plunger



## Syringes for GC Autosampler

### 2. Agilent Technologies (HP) 7673 - 7683

Glass Barrel: Borosilicate 3.3  
Precision: < ±1% of the volume

#### Fixed Needles (FN)

| Volume                                                | Tip Style<br>Length<br>O.D. | 42 mm   | 42 mm<br>Six-Pack* | 42 mm   | 42 mm<br>Six-Pack* | 42 mm   | 42 mm<br>Six-Pack* |
|-------------------------------------------------------|-----------------------------|---------|--------------------|---------|--------------------|---------|--------------------|
| <b>Zero dead volume (plunger in needle)</b>           |                             |         |                    |         |                    |         |                    |
| 0,5 µl                                                | 0,47mm                      | 2204051 | -                  | -       | -                  | -       | -                  |
| 0,5 µl                                                | 0,64mm                      | -       | -                  | -       | -                  | 2204052 | -                  |
| 1,0 µl                                                | 0,47 mm                     | 2204104 | -                  | -       | -                  | -       | -                  |
| 1,0 µl                                                | 0,64mm                      | -       | -                  | -       | -                  | 2204103 | -                  |
| <b>Flexible plunger - Hi-Res</b>                      |                             |         |                    |         |                    |         |                    |
| 5 µl                                                  | 0.47 mm                     | 2164303 | 2164313            | -       | -                  | -       | -                  |
| 10 µl                                                 | 0.47 mm                     | 2164403 | 2164413            | -       | -                  | -       | -                  |
| 5 µl                                                  | 0.47/0.64 mm                | -       | -                  | 2164304 | 2164314            | -       | -                  |
| 10 µl                                                 | 0.47/0.64 mm                | -       | -                  | 2164404 | 2164414            | -       | -                  |
| 5 µl                                                  | 0.64 mm                     | -       | -                  | -       | -                  | 2164305 | 2164315            |
| 10 µl                                                 | 0.64 mm                     | -       | -                  | -       | -                  | 2164405 | 2164415            |
| <b>Special stainless steel plunger</b>                |                             |         |                    |         |                    |         |                    |
| 5 µl                                                  | 0.47 mm                     | 2104303 | 2104313            | -       | -                  | -       | -                  |
| 10 µl                                                 | 0.47 mm                     | 2104403 | 2104413            | -       | -                  | -       | -                  |
| 5 µl                                                  | 0.47/0.64 mm                | -       | -                  | 2104304 | 2104314            | -       | -                  |
| 10 µl                                                 | 0.47/0.64 mm                | -       | -                  | 2104404 | 2104414            | -       | -                  |
| 5 µl                                                  | 0.64 mm                     | -       | -                  | -       | -                  | 2104305 | 2104315            |
| 10 µl                                                 | 0.64 mm                     | -       | -                  | -       | -                  | 2104405 | 2104415            |
| 25 µl                                                 | 0.64 mm                     | -       | -                  | -       | -                  | 2104505 | -                  |
| 50 µl                                                 | 0.64 mm                     | -       | -                  | -       | -                  | 2104605 | -                  |
| 100 µl                                                | 0.64 mm                     | -       | -                  | -       | -                  | 2104705 | -                  |
| <b>Special stainless steel plunger with PTFE-seal</b> |                             |         |                    |         |                    |         |                    |
| 5 µl                                                  | 0.47 mm                     | 2604303 | 2604313            | -       | -                  | -       | -                  |
| 10 µl                                                 | 0.47 mm                     | 2604403 | 2604413            | -       | -                  | -       | -                  |
| 5 µl                                                  | 0.47/0.64 mm                | -       | -                  | 2604304 | 2604314            | -       | -                  |
| 10 µl                                                 | 0.47/0.64 mm                | -       | -                  | 2604404 | 2604414            | -       | -                  |
| 5 µl                                                  | 0.64 mm                     | -       | -                  | -       | -                  | 2604305 | 2604315            |
| 10 µl                                                 | 0.64 mm                     | -       | -                  | -       | -                  | 2604405 | 2604415            |
| 25 µl                                                 | 0.64 mm                     | -       | -                  | -       | -                  | 2604505 | -                  |
| 50 µl                                                 | 0.64 mm                     | -       | -                  | -       | -                  | 2604605 | -                  |
| 100 µl                                                | 0.64 mm                     | -       | -                  | -       | -                  | 2604705 | -                  |

## Syringes for GC Autosampler

### Agilent Technologies (HP) 7673 - 7683, 6850

#### A-Syringe<sup>TM</sup>

- Longer lifetime
- Gastight, with static PTFE-Seal topping the glass barrel
- Straight guided plunger

Glass Barrel: Borosilicate 3.3  
Precision: < ±1% of the volume

#### Fixed Needles(FN)

| Volume                                 | Tip Style<br>Length<br>O.D. | 42 mm   | 42 mm<br>Six-Pack* | 42 mm   | 42 mm<br>Six-Pack* | 42 mm   | 42 mm<br>Six-Pack* |
|----------------------------------------|-----------------------------|---------|--------------------|---------|--------------------|---------|--------------------|
| <b>Flexible plunger - Hi-Res</b>       |                             |         |                    |         |                    |         |                    |
| 5 µl                                   | 0.47 mm                     | 2164333 | 2164336            | -       | -                  | -       | -                  |
| 10 µl                                  | 0.47 mm                     | 2164433 | 2164436            | -       | -                  | -       | -                  |
| 5 µl                                   | 0.47/0.64 mm                | -       | -                  | 2164337 | 2164338            | -       | -                  |
| 10 µl                                  | 0.47/0.64 mm                | -       | -                  | 2164434 | 2164438            | -       | -                  |
| 5 µl                                   | 0.64 mm                     | -       | -                  | -       | -                  | 2164339 | 2164340            |
| 10 µl                                  | 0.64 mm                     | -       | -                  | -       | -                  | 2164435 | 2164437            |
| <b>Special stainless steel plunger</b> |                             |         |                    |         |                    |         |                    |
| 5 µl                                   | 0.47 mm                     | 2104333 | 2104337            | -       | -                  | -       | -                  |
| 10 µl                                  | 0.47 mm                     | 2104433 | 2104437            | -       | -                  | -       | -                  |
| 5 µl                                   | 0.47/0.64 mm                | -       | -                  | 2104334 | 2104338            | -       | -                  |
| 10 µl                                  | 0.47/0.64 mm                | -       | -                  | 2104434 | 2104438            | -       | -                  |
| 5 µl                                   | 0.64 mm                     | -       | -                  | -       | -                  | 2104335 | 2104336            |
| 10 µl                                  | 0.64 mm                     | -       | -                  | -       | -                  | 2104435 | 2104436            |

## Syringes for GC Autosampler

### Agilent Technologies (HP) 7673 - 7683

Glass Barrel: Borosilicate 3.3  
Precision: < ±1% of the volume

#### Removable Needles (RN)

| Volume                                                | Tip Style<br>Length<br>O.D. | 42 mm   | 42 mm   | 42 mm   |
|-------------------------------------------------------|-----------------------------|---------|---------|---------|
| <b>Flexible plunger - Hi-Res</b>                      |                             |         |         |         |
| 5 µl                                                  | 0.47 mm                     | 2164307 | -       | -       |
| 10 µl                                                 | 0.47 mm                     | 2164407 | -       | -       |
| 5 µl                                                  | 0.47/0.64 mm                | -       | 2164308 | -       |
| 10 µl                                                 | 0.47/0.64 mm                | -       | 2164408 | -       |
| 5 µl                                                  | 0.64 mm                     | -       | -       | 2164309 |
| 10 µl                                                 | 0.64 mm                     | -       | -       | 2164409 |
| <b>Special stainless steel plunger</b>                |                             |         |         |         |
| 5 µl                                                  | 0.47 mm                     | 2104307 | -       | -       |
| 10 µl                                                 | 0.47 mm                     | 2104407 | -       | -       |
| 5 µl                                                  | 0.47/0.64 mm                | -       | 2104308 | -       |
| 10 µl                                                 | 0.47/0.64 mm                | -       | 2104408 | -       |
| 5 µl                                                  | 0.64 mm                     | -       | -       | 2104309 |
| 10 µl                                                 | 0.64 mm                     | -       | -       | 2104409 |
| <b>Special stainless steel plunger with PTFE-seal</b> |                             |         |         |         |
| 5 µl                                                  | 0.47 mm                     | 2604307 | -       | -       |
| 10 µl                                                 | 0.47 mm                     | 2604407 | -       | -       |
| 5 µl                                                  | 0.47/0.64 mm                | -       | 2604308 | -       |
| 10 µl                                                 | 0.47/0.64 mm                | -       | 2604408 | -       |
| 5 µl                                                  | 0.64 mm                     | -       | -       | 2604309 |

## Syringes for GC Autosampler

### 3. LEAP Technologies, CTC, Carlo Erba, Finsons

Glass Barrel: Borosilicate 3.3  
Precision: < ±1% of the volume

CTC A200 S/ A200 SE/ A800/ GC PAL/ Combi PAL

| Volume                                         | Glass barrel O.D. mm | Series Gauge | Needle Tip Style Length O.D. mm | fixed a 51 mm | fixed c 51 mm | fixed c 80 mm | fixed c 51 mm 6-Pack |
|------------------------------------------------|----------------------|--------------|---------------------------------|---------------|---------------|---------------|----------------------|
| Zero dead volume (plunger in needle)           |                      |              |                                 |               |               |               |                      |
| 1.2 µl                                         | 6.5                  | T            | 26P                             | 0.47          | -             | 2220001       | -                    |
| Flexible plunger - Hi-Res                      |                      |              |                                 |               |               |               |                      |
| 5 µl                                           | 6.5                  | N            | 26s                             | 0.47          | 2166301       | -             | -                    |
| 10 µl                                          | 6.5                  | N            | 26s                             | 0.47          | 2166401       | -             | -                    |
| 10 µl                                          | 6.5                  | A            | 26s                             | 0.47          | 2166402       | -             | 2166434              |
| Special stainless steel plunger                |                      |              |                                 |               |               |               |                      |
| 5 µl                                           | 6.5                  | N            | 26s                             | 0.47          | 2106301       | 2106302       | -                    |
| 5 µl                                           | 6.5                  | A            | 26s                             | 0.47          | 2106334       | 2106333       | 2106337              |
| 5 µl                                           | 6.5                  | A            | 23s                             | 0.64          | -             | 2106335       | 2106338              |
| 10 µl                                          | 6.5                  | N            | 26s                             | 0.47          | 2106401       | 2106416       | 2106425              |
| 10 µl                                          | 6.5                  | A            | 26s                             | 0.47          | 2106439       | 2106433       | 2106436              |
| 10 µl                                          | 6.5                  | N            | 23s                             | 0.64          | 2106422       | 2106403       | 2106419              |
| 10 µl                                          | 6.5                  | A            | 23s                             | 0.64          | -             | 2106451       | 2106449              |
| 10 µl                                          | 6.5                  | N            | 22s                             | 0.72          | -             | -             | 2106415              |
| Special stainless steel plunger with PTFE-seal |                      |              |                                 |               |               |               |                      |
| 10 µl                                          | 6.5                  | H            | 26s                             | 0.47          | 2606401       | 2606407       | -                    |
| 10 µl                                          | 6.5                  | H            | 23s                             | 0.64          | 2606409       | 2606403       | 2606406              |
| 25 µl                                          | 6.5                  | H            | 26s                             | 0.47          | -             | 2620506       | -                    |
| 25 µl                                          | 6.5                  | H            | 23s                             | 0.64          | -             | 2620503       | 2620512              |
| 50 µl                                          | 6.5                  | H            | 26s                             | 0.47          | -             | 2620606       | -                    |
| 50 µl                                          | 6.5                  | H            | 23s                             | 0.64          | -             | 2620603       | 2620612              |
| 100 µl                                         | 6.5                  | H            | 26s                             | 0.47          | -             | 2620706       | -                    |
| 100 µl                                         | 6.5                  | H            | 23s                             | 0.64          | -             | 2620703       | 2620712              |
| 250 µl                                         | 7.8                  | H            | 26s                             | 0.47          | -             | 2620803       | -                    |
| 250 µl                                         | 6.5                  | H            | 23                              | 0.64          | -             | 2620809       | 2620812              |
| 500 µl                                         | 7.8                  | H            | 26s                             | 0.47          | -             | 2620903       | -                    |
| 500 µl                                         | 6.5                  | H            | 23                              | 0.64          | -             | 2620909       | 2620906              |

## Syringes for GC Autosampler

### 4. Shimadzu AOC 14/17/20

Glass Barrel: Borosilicate 3.3  
Precision: < ±1% of the volume

AOC 14/17/20

| Series                                         | Needle Tip Style Length | fixed a 42 mm | 6-Pack a 42 mm | fixed c 42 mm | 6-Pack c 42 mm | removable a 42 mm | removable c 42 mm |
|------------------------------------------------|-------------------------|---------------|----------------|---------------|----------------|-------------------|-------------------|
| Volume O.D.                                    |                         |               |                |               |                |                   |                   |
| Flexible plunger - Hi-Res                      |                         |               |                |               |                |                   |                   |
| 5 µl                                           | N 0.47 mm               | 2165301       | -              | -             | -              | 2165307           | -                 |
| 5 µl                                           | A 0.47 mm               | -             | -              | 2165320       | 2165340        | -                 | -                 |
| 5 µl                                           | N 0.64 mm               | 2165302       | -              | 2165304       | -              | -                 | -                 |
| 10 µl                                          | N 0.47 mm               | 2165401       | -              | -             | -              | 2165407           | -                 |
| 10 µl                                          | A 0.47 mm               | 2165417       | -              | -             | -              | -                 | -                 |
| 10 µl                                          | N 0.64 mm               | 2165402       | -              | -             | -              | 2165408           | -                 |
| 10 µl                                          | A 0.64 mm               | 2165418       | -              | 2165421       | -              | -                 | -                 |
| Special stainless steel plunger                |                         |               |                |               |                |                   |                   |
| 5 µl                                           | N 0.47 mm               | 2105301       | -              | 2105303       | -              | 2105307           | -                 |
| 5 µl                                           | A 0.47 mm               | 2105317       | 2105336        | 2105319       | 2105338        | -                 | -                 |
| 5 µl                                           | N 0.64 mm               | 2105302       | -              | 2105304       | -              | 2105308           | -                 |
| 5 µl                                           | A 0.64 mm               | 2105318       | 2105337        | 2105321       | 2105339        | -                 | -                 |
| 10 µl                                          | N 0.47 mm               | 2105401       | -              | 2105403       | -              | 2105407           | 2105409           |
| 10 µl                                          | A 0.47 mm               | 2105417       | 2105436        | 2105419       | 2105438        | 2105427           | 2105429           |
| 10 µl                                          | N 0.64 mm               | 2105402       | 2105412        | 2105404       | 2105414        | 2105408           | 2105410           |
| 10 µl                                          | A 0.64 mm               | 2105418       | 2105437        | 2105421       | 2105439        | 2105428           | 2105430           |
| Special stainless steel plunger with PTFE-seal |                         |               |                |               |                |                   |                   |
| 10 µl                                          | H 0.47 mm               | 2605401       | -              | 2605403       | -              | 2605407           | -                 |
| 10 µl                                          | H 0.64 mm               | 2605402       | -              | 2605404       | -              | 2605408           | 2605410           |

## Syringes for GC Autosampler

### 5. Perkin Elmer

Glass Barrel: Borosilicate 3.3  
Precision: < ±1% of the volume

AS 100/AS 2000, AS 3000 GC Autosystems

| Volume                                         | Needle Tip Style Length O.D. | fixed c 70 mm |
|------------------------------------------------|------------------------------|---------------|
| Special stainless steel plunger                |                              |               |
| 5 µl                                           | 0.47 mm                      | 2108302       |
| 5 µl                                           | 0.63 mm                      | 2108303       |
| Special stainless steel plunger with PTFE-seal |                              |               |
| 5 µl                                           | 0.47 mm                      | 2608302       |
| 5 µl                                           | 0.63 mm                      | 2608303       |

## Syringes for GC Headspace Sampling

### ThermoQuest, Thermo Finnigan, CTC, LEAP, DANI ALS

Glass Barrel: Borosilicate 3.3  
Precision: < ±1% of the volume

ThermoQuest OC 516/ HS 250/ HS 500

CTC PAL

Glass Barrel: with hole

| Volume                                         | Needle Tip Style Length O.D. | fixed d 51 mm | fixed d 56 mm | without |
|------------------------------------------------|------------------------------|---------------|---------------|---------|
| Special stainless steel plunger with PTFE-seal |                              |               |               |         |
| 1.0 ml                                         | 0.47 mm                      | -             | 2620014       | -       |
| 2.5 ml                                         | 0.47 mm                      | -             | 2620034       | -       |
| 5.0 ml                                         | 0.47 mm                      | 2620040       | 2620051       | -       |
| 1.0 ml                                         | 0.64 mm                      | -             | 2620012       | -       |
| 2.5 ml                                         | 0.64 mm                      | -             | 2620032       | -       |
| 5.0 ml                                         | 0.64 mm                      | -             | 2620050       | -       |
| 1.0 ml                                         | 0.72 mm                      | -             | 2620013       | -       |
| 2.5 ml                                         | 0.72 mm                      | 2620024       | 2620023       | 2620028 |
| 5.0 ml                                         | 0.72 mm                      | -             | 2620049       | -       |

ALS 104, ALS 3841

| Volume                                 | Needle Tip Style Length O.D. | fixed d 51 mm | removable d 51 mm |
|----------------------------------------|------------------------------|---------------|-------------------|
| Special stainless steel with PTFE-seal |                              |               |                   |
| 10 µl                                  | 0.64 mm                      | 2607404       | 2607408           |
| Special stainless steel plunger        |                              |               |                   |
| 10 µl                                  | 0.64 mm                      | 2107404       | 2107408           |



## HPLC Syringes

### 1. Most Common Valves

Rheodyne, Varian, Shimadzu, Knauer, Hewlett Packard/Agilent, Beckmann, Valco VISF-2 and Altex valve injectors

Glass Barrel: Borosilicate 3.3  
Precision: < ±1% of the volume

| Volume                                                | Needle Tip Style Length O.D. | fixed b 51 mm | removable b 51 mm | TLL Luer Lock |
|-------------------------------------------------------|------------------------------|---------------|-------------------|---------------|
| <b>Flexible plunger</b>                               |                              |               |                   |               |
| 5 µl                                                  | 0.72 mm                      | 2161302       | 2161306           | -             |
| 10 µl                                                 | 0.72 mm                      | 2161402       | 2161406           | -             |
| <b>Special stainless steel plunger</b>                |                              |               |                   |               |
| 5 µl                                                  | 0.72 mm                      | 2101302       | 2101306           | -             |
| 10 µl                                                 | 0.72 mm                      | 2101402       | 2101406           | -             |
| 25 µl                                                 | 0.72 mm                      | 2101502       | 2101506           | -             |
| 50 µl                                                 | 0.72 mm                      | 2101602       | 2101606           | 2101609       |
| 100 µl                                                | 0.72 mm                      | 2101702       | 2101706           | 2101709       |
| 250 µl                                                | 0.72 mm                      | 2101802       | 2101806           | 2101809       |
| 500 µl                                                | 0.72 mm                      | 2101902       | 2101906           | 2101909       |
| <b>Special stainless steel plunger with PTFE-seal</b> |                              |               |                   |               |
| 5 µl                                                  | 0.72 mm                      | 2601302       | 2601306           | -             |
| 10 µl                                                 | 0.72 mm                      | 2601402       | 2601406           | -             |
| 25 µl                                                 | 0.72 mm                      | 2601502       | 2601506           | -             |
| 50 µl                                                 | 0.72 mm                      | 2601602       | 2601606           | 2601609       |
| 100 µl                                                | 0.72 mm                      | 2601702       | 2601706           | 2601709       |
| 250 µl                                                | 0.72 mm                      | 2601802       | 2601806           | 2601809       |
| 500 µl                                                | 0.72 mm                      | 2601902       | 2601906           | 2601909       |



## HPLC Syringes

### 2. Waters Valves

Glass Barrel: Borosilicate 3.3  
Precision: < ±1% of the volume

| Volume                                                      | Needle Tip Style Length O.D. | fixed b 50 mm | removable b 50 mm | TLL Luer Lock |
|-------------------------------------------------------------|------------------------------|---------------|-------------------|---------------|
| <b>Flexible plunger</b>                                     |                              |               |                   |               |
| 5 µl                                                        | 0.50 mm                      | 2162302       | 2162306           | -             |
| 10 µl                                                       | 0.50 mm                      | 2162402       | 2162406           | -             |
| <b>Special stainless steel plunger</b>                      |                              |               |                   |               |
| 5 µl                                                        | 0.50 mm                      | 2102302       | 2102306           | -             |
| 10 µl                                                       | 0.50 mm                      | 2102402       | 2102406           | -             |
| 25 µl                                                       | 0.50 mm                      | 2102502       | 2102506           | -             |
| 50 µl                                                       | 0.50 mm                      | 2102602       | 2102606           | 2102609       |
| 100 µl                                                      | 0.50 mm                      | 2102702       | 2102706           | 2102709       |
| 250 µl                                                      | 0.50 mm                      | 2102802       | 2102806           | 2102809       |
| 500 µl                                                      | 0.50 mm                      | 2102902       | 2102906           | 2102909       |
| <b>Special stainless steel plunger with PTFE-seal</b>       |                              |               |                   |               |
| 10 µl                                                       | 0.50 mm                      | 2602402       | 2602406           | -             |
| 25 µl                                                       | 0.50 mm                      | 2602502       | 2602506           | -             |
| 50 µl                                                       | 0.50 mm                      | 2602602       | 2602606           | 2602609       |
| 100 µl                                                      | 0.50 mm                      | 2602702       | 2602706           | 2602709       |
| 250 µl                                                      | 0.50 mm                      | 2602802       | 2602806           | 2602809       |
| 500 µl                                                      | 0.50 mm                      | 2602902       | 2602906           | 2602909       |
| 1.0 ml                                                      | 0.50 mm                      | 2602006       | 2602007           | 2602003       |
| 2.5 ml                                                      | 0.50 mm                      | 2602026       | -                 | -             |
| <b>Special stainless steel plunger with extended handle</b> |                              |               |                   |               |
| 5 µl                                                        | 0.50 mm                      | -             | 2502304           | -             |
| 10 µl                                                       | 0.50 mm                      | -             | 2502404           | -             |
| 25 µl                                                       | 0.50 mm                      | -             | 2502504           | -             |
| 50 µl                                                       | 0.50 mm                      | -             | 2502604           | -             |
| 100 µl                                                      | 0.50 mm                      | -             | 2502704           | -             |



## HPLC Syringes

### 3. Valco VISF-1 Valves

Glass Barrel: Borosilicate 3.3  
Precision: < ±1% of the volume

| Volume                                                | Needle Tip Style Length O.D. | fixed b 19 mm | removable b 19 mm | TLL Luer Lock |
|-------------------------------------------------------|------------------------------|---------------|-------------------|---------------|
| <b>Flexible plunger</b>                               |                              |               |                   |               |
| 5 µl                                                  | 0.72 mm                      | 2163303       | 2163307           | -             |
| 10 µl                                                 | 0.72 mm                      | 2163403       | 2163407           | -             |
| <b>Special stainless steel plunger</b>                |                              |               |                   |               |
| 5 µl                                                  | 0.72 mm                      | 2103303       | 2103307           | -             |
| 10 µl                                                 | 0.72 mm                      | 2103403       | 2103407           | -             |
| 25 µl                                                 | 0.72 mm                      | 2103503       | 2103507           | -             |
| 50 µl                                                 | 0.72 mm                      | 2103603       | 2103607           | 2103609       |
| 100 µl                                                | 0.72 mm                      | 2103703       | 2103707           | 2103709       |
| 250 µl                                                | 0.72 mm                      | 2103803       | 2103807           | 2103809       |
| 500 µl                                                | 0.72 mm                      | 2103903       | 2103907           | 2103909       |
| <b>Special stainless steel plunger with PTFE-seal</b> |                              |               |                   |               |
| 10 µl                                                 | 0.72 mm                      | 2603403       | 2603407           | -             |
| 25 µl                                                 | 0.72 mm                      | 2603503       | 2603507           | -             |
| 50 µl                                                 | 0.72 mm                      | 2603603       | 2603607           | 2603609       |
| 100 µl                                                | 0.72 mm                      | 2603703       | 2603707           | 2603709       |
| 250 µl                                                | 0.72 mm                      | 2603803       | 2603807           | 2603809       |
| 500 µl                                                | 0.72 mm                      | 2603903       | 2603907           | 2603909       |



## HPLC Syringes for Autosampler

### 1. Gynkotek Dionex Gina, Agilent (HP) 1090A, Hitachi, VWR

Plunger: Special stainless steel plunger with PTFE-seal

Glass Barrel: Borosilicate 3.3  
Precision: < ±1% of the volume

| Volume | Needle Tip Style Length Series | removable a 51 mm O.D. |         |
|--------|--------------------------------|------------------------|---------|
| 25 µl  | H                              | 0.72 mm                | 2606505 |
| 250 µl | H                              | 0.72 mm                | 2606805 |

### Hewlett Packard 1090A/Agilent

| Volume | Series | Front Fitting |         |
|--------|--------|---------------|---------|
| 25 µl  | H      | ¼"-32UNEF     | 2606500 |
| 250 µl | H      | ¼"-32UNEF     | 2606800 |

### Hitachi L-7200/L-7250/L-2200/AS2000/AS42000

#### VWR LaChrom® Elite

| Volume           | Series | Front Fitting |         |
|------------------|--------|---------------|---------|
| <b>PTFE-seal</b> |        |               |         |
| 100 µl           | H      | M10x1         | 2611712 |
| 500 µl           | H      | M10x1         | 2611912 |
| 1.0 ml           | H      | M10x1         | 2611012 |
| 2.5 ml           | H      | M10x1         | 2611032 |

#### PTFE-black-seal

| Volume | Series | Front Fitting |         |
|--------|--------|---------------|---------|
| 100 µl | H      | M10x1         | 2611715 |
| 500 µl | H      | M10x1         | 2611915 |
| 1.0 ml | H      | M10x1         | 2611015 |
| 2.5 ml | H      | M10x1         | 2611035 |