Hydrophobic & Lipophobic Coating of Pins

All of the above pins can also be obtained with a hydrophobic/ lipophobic coating. Just adding an H to the above pin designates that pin as a hydrophobic/ lipophobic coated pin. These coated pins are very useful in handling solutions with proteins or lipids that may stick to naked stainless steel.

Hydrophobic Coated Standard length Pins used in Double Float Plate Replicators

Exposed pin length = 17 mm, overall pin length = 50.8 mm, pin diameter= 0.914 mm, delivery volume = ~120 nl, hydrophobic coated **NEW**	**FP4H**
Exposed pin length = 17 mm, overall pin length = 50.8 mm, pin diameter=0.787 mm, delivery volume = ~80 nl, hydrophobic coated	**FP3H**
Exposed pin length = 17 mm, overall pin length = 50.8 mm, pin diameter= 0.457 mm, delivery volume = ~20 nl, hydrophobic coated	**FP1H**
Exposed pin length = 17 mm, overall pin length = 50.8 mm, pin diameter=0.356 mm, delivery volume = ~10 nl, hydrophobic coated **NEW**	**FP8H**
Exposed pin length = 17 mm, overall pin length = 50.8 mm, pin diameter=0.229 mm, delivery volume = ~4 nl, hydrophobic coated	**FP9H**

Hydrophobic Coated short Pins used in Double Float Plate Replicators

Exposed pin length = 12 mm, overall pin length = 33 mm, pin diameter = 0.914 mm, delivery volume = ~120 nl, hydrophobic coated **NEW**	**FP4CBH**
Exposed pin length = 12 mm, overall pin length = 33 mm, pin diameter = 0.787 mm, delivery volume = ~80 nl, hydrophobic coated	**FP3CBH**
Exposed pin length = 12 mm, overall pin length = 33 mm, pin diameter = 0.457 mm, delivery volume = ~20 nl, hydrophobic coated	**FP1CBH**
Exposed pin length = 12 mm, overall pin length = 33 mm, pin diameter = 0.356 mm, delivery volume = ~10 nl, hydrophobic coated **NEW**	**FP8CBH**
Exposed pin length = 12 mm, overall pin length = 33 mm, pin diameter=0.229 mm, delivery volume = ~4 nl, hydrophobic coated	**FP9CBH**

Hydrophobic Coated Tall Pins used in Double Float Plate Replicators

Description	Code
Exposed pin length = 30 mm, overall pin length = 50.8 mm, pin diameter = 0.914 mm, delivery volume = ~120 nl, hydrophobic coated **NEW**	**FP4TH**
Exposed pin length = 30 mm, overall pin length = 50.8 mm, pin diameter = 0.787 mm, delivery volume = ~80 nl, hydrophobic coated **NEW**	**FP3TH**
Exposed pin length = 30 mm, overall pin length = 50.8 mm, pin diameter = 0.457 mm, delivery volume = ~20 nl, hydrophobic coated **NEW**	**FP1TH**
Exposed pin length = 30 mm, overall pin length = 50.8 mm, pin diameter = 0.356 mm, delivery volume = ~10 nl, hydrophobic coated **NEW**	**FP8TH**
Exposed pin length = 30 mm, overall pin length = 50.8 mm, pin diameter = 0.229 mm, delivery volume = ~4 nl, hydrophobic coated **NEW**	**FP9TH**

NEW
Hydrophobic coated 17 mm length pins for short tube solid Pins used in Double Float Plate Replicators

Description	Code
Exposed pin length = 17 mm, overall pin length = 38.1 mm, pin diameter = 0.914 mm, delivery volume = ~120 nl*, hydrophobic coated **NEW**	**FP4NH**
Exposed pin length = 17 mm, overall pin length = 38.1 mm, pin diameter = 0.787 mm, delivery volume = ~80 nl, hydrophobic coated **NEW**	**FP3NH**
Exposed pin length = 17 mm, overall pin length = 38.1 mm, pin diameter = 0.457 mm, delivery volume = ~20 nl, hydrophobic coated **NEW**	**FP1NH**
Exposed pin length = 17 mm, overall pin length = 38.1 mm, pin diameter = 0.356 mm, delivery volume = ~10 nl, hydrophobic coated **NEW**	**FP8NH**
Exposed pin length = 17 mm, overall pin length = 38.1 mm, pin diameter = 0.229 mm, delivery volume = ~4 nl, hydrophobic coated **NEW**	**FP9NH**

*The above delivery volumes for these pins are approximate values, the actual volumes delivered depend upon many controllable factors that will vary from one application to another. For example in liquid to liquid transfers the amount transferred will include the hanging drop on the bottom of the pin as well as the liquid on the sides of the pin. If the transfer was to a membrane then only the hanging drop would be transferred and not the liquid on the sides of the pin. If the transfer was to a dry plate then only about 35% of the hanging drop would be transferred to the dry plate and the rest would be on the pin. The division of the hanging drop would be determined by the surface tension of the pin and the surface tension of the dry plate. The speed of pin withdrawal can increase the volume transferred by 3 fold.