



Single-use technology

## Thermo Scientific Fill Finish Solution

### Maximize drug product recovery

#### Keywords

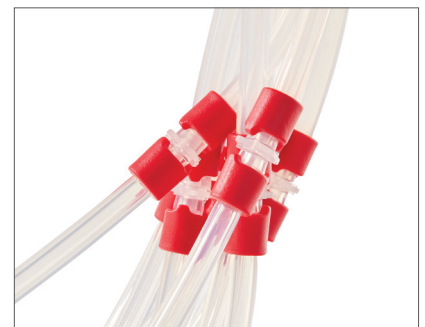
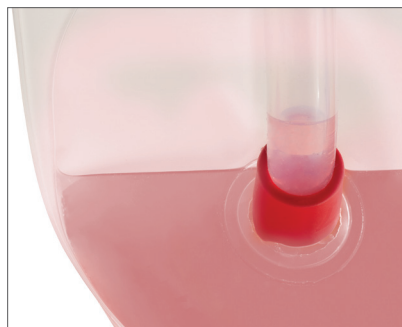
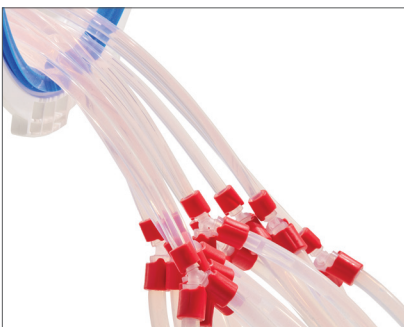
BioTitan, Labtainer Pro,  
 Bioprocess containers, Aegis film,  
 Aseptic filling, drug product

The Thermo Scientific™ Fill Finish Solution offers a complete, configurable solution for BioPharma and CDMOs looking to help maximize drug product recovery. With integrity assurance, exceptional lead times, and a range of easy-to-use, single-use consumables for compounding, sterile filtration, and aseptic filling applications, you can support a high product quality while optimizing your workflow. Customizable and engineered-to-order, the Thermo Scientific™ Fill Finish Solution provides an end-to-end solution to help meet your fill finish application needs.

#### Applications

Drug product final fill into containers such as prefilled syringe or vials for:

- Vaccine production
- Biologic production



## Key advantages

Designed with maximizing drug product recovery in mind, the Fill Finish Solution offers key features:

- **Exceptional lead times:** Standard and configurable product design options supported by our global manufacturing network for supply assurance
- **BioTitan™ Retention Device:** Consistent 360° seal reduces the risk of leaks and simplifies the set-up process
- **Labtainer Pro BioProcess Container:** Surge bag design provides optimal drainage and comes with 100% helium testing for integrity assurance
- **High-quality film:** Choose from leading single-use films, Aegis™ 5-14 film and CX5-14 film, which offer durable, puncture resistant film
- **Sustainability profile:** Reduction in packaging material, creating a more environmentally friendly product

## User benefits

- **100% helium tested surge bag:** Helps ensure product integrity, minimizing leakage from surge bag
- **Upgraded packaging:** Easy-peel tape on the shipping box and an easy-open polyethylene (PE) outer bag
- **Waste management:** Cardboard reduction up to 25% Improved outer polyethylene bag—manufactured in a controlled environment, resulting in cleaner packaging with less risk of particulates
- **Lot-based testing:** Implementation of lot-based bacterial endotoxin (BET) testing and particulate testing of Labtainer™ Pro BPC products performed according to USP <788> and USP <85> standards

## Product features

The Fill Finish product family provides configurable, single-use assemblies from a standard component catalog for drug product final fill application. Products include compounding assemblies, final filtration and filling needle assemblies.

### Compounding assembly:

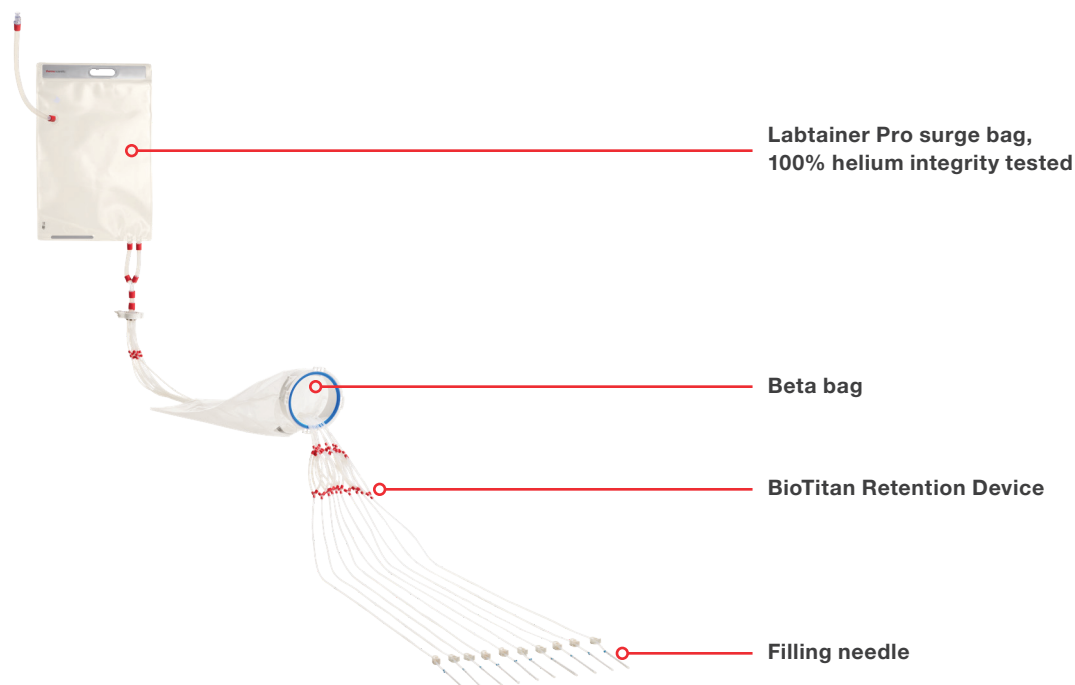
- Buffer to compounding BPC
- Compounding to holding BPC
- Bioburden reduction filter assembly

### Filtration assembly:

- PUPSIT
- Double sterilization filter assembly

### Filling assembly:

- Beta bag
- Drug surge bag
- Tubing assembly
- Filling needle



**Table 1. Filter options.**

Part No.	Filter description
SV21270.01	FILTER: MEISSNER, PP/PVDF, 0.2um, 1/4" SHB X 1/4" SHB
SV20062.06	FILTER: MILLIPORE, PC/PVDF, 0.22um, 1 1/2" SF X 9/16" HB
SV20292.02	FILTER: MILLIPORE, PC/PVDF, 0.22um, 1/4" SHB X 1/4" SHB
SV20560.02	FILTER: MILLIPORE, PC/PVDF, 0.22um, 1/4" SHB X 1/4" SHB
SV20062.01	FILTER: MILLIPORE, PC/PVDF, 0.22um, 9/16" HB X 9/16" HB
SV20681.03	FILTER: MILLIPORE, PC/PVDF, 0.22um, 9/16" HB X 9/16" HB
SV21414.01	FILTER: MILLIPORE, PET/PES, 0.2um, 1/4" SHB X 1/4" SHB
SV20696.02	FILTER: MILLIPORE, PP, 0.2um, 1/2" SHB X 1/2" SHB
SV21198.22	FILTER: MILLIPORE, PP/PES, 0.2um, 1 1/2" SF X 9/16" HB
SV21198.18	FILTER: MILLIPORE, PP/PES, 0.2um, 1 1/2" SF X 9/16" HB
SV20685.01	FILTER: MILLIPORE, PP/PVDF, 0.1um, 9/16" HB X 9/16" HB
SV20686.01	FILTER: MILLIPORE, PP/PVDF, 0.22um 9/16" HB X 9/16" HB
SUT30148.01	FILTER: MILLIPORE, PP/PVDF, 0.22um, 1 1/2" SF X 1/2" HB
SUT30148.02	FILTER: MILLIPORE, PP/PVDF, 0.22um, 1 1/2" SF X 1/2" HB
SUT30148.03	FILTER: MILLIPORE, PP/PVDF, 0.22um, 1 1/2" SF X 1/2" HB
SV20685.04	FILTER: MILLIPORE, PP/PVDF, 0.22um, 1 1/2" SF X 9/16" HB
SV20686.02	FILTER: MILLIPORE, PP/PVDF, 0.22um, 1 1/2" SF X 9/16" HB
SV20685.03	FILTER: MILLIPORE, PP/PVDF, 0.22um, 9/16" HB X 9/16" HB
SV20707.04	FILTER: PALL, PP/PES, 0.2um, 3/4" SF X 1/4"-1/2" SHB
SV20734.01	FILTER: PALL, PP/PVDF, 0.2um, 3/4" SF X 3/4" SF
SV20518.02	FILTER: PALL, PP/PVDF, 0.2um, 1/4"-1/2" SHB X 1/4"-1/2" SHB
SV21288.63	FILTER: SARTORIUS, PP/PES, 0.2um, 1/2" HB X 1/2" HB

**Table 2. Tubing options.**

Part No.	Tubing description
SV20791.08	TUBING: PHARMA 50, SILICONE, 1/4" ID X 1/2" OD X 1/8" WALL
SV21060.04	TUBING: PHARMA 65, SILICONE, 1/4" ID X 3/8" OD X 1/16" WALL
SV21060.58	TUBING: PHARMA 65, SILICONE, 2/17" ID X 17/72" OD X 1/17" WALL
SV20791.10	TUBING: PHARMA-50, SILICONE, 1/2" ID X 3/4" OD X 1/8" WALL
SV20791.02	TUBING: PHARMA-50, SILICONE, 1/8" ID X 1/4" OD X 1/16" WALL
SV20791.09	TUBING: PHARMA-50, SILICONE, 3/8" ID X 5/8" OD X 1/8" WALL
SUT30120.14	TUBING: PHARMA-APT, SILICONE, 0.5" ID X 0.75" OD X 0.125" WALL
SV20682.17	TUBING: PUMPSIL, SILICONE, 1/2" ID X 3/4" OD X 1/8" WALL
SV20019.10	TUBING: SILICONE, 1/2" ID X 3/4" OD X 1/8" WALL
SV20019.07	TUBING: SILICONE, 1/4" ID X 7/16" OD X 3/32" WALL
SV20019.02	TUBING: SILICONE, 1/8" ID X 1/4" OD X 1/16" WALL
SV20019.09	TUBING: SILICONE, 3/8" ID X 5/8" OD X 1/8" WALL
SV20348.02	TUBING: STHT-R, BRAIDED SILICONE, 0.250" ID X 0.515" OD X 0.133" WALL
SV20348.03	TUBING: STHT-R, BRAIDED SILICONE, 0.375" ID X 0.687" OD X 0.156" WALL
SV20348.04	TUBING: STHT-R, BRAIDED SILICONE, 0.500" ID X 0.847" OD X 0.174" WALL
SV21678.10	TUBING: TPE, 1/2" ID X 3/4" OD X 1/8" WALL
SV21678.08	TUBING: TPE, 1/4" ID X 1/2" OD X 1/8" WALL
SV21678.02	TUBING: TPE, 1/8" ID X 1/4" OD X 1/16" WALL
SV21678.09	TUBING: TPE, 3/8" ID X 5/8" OD X 1/8" WALL
SV21585.04	TUBING: TRELLEBORG, BRAIDED SILICONE, 1/2" ID X .800" OD X .150" WALL
SV21585.02	TUBING: TRELLEBORG, BRAIDED SILICONE, 1/4" ID X .520" OD X .135" WALL

**Table 3. Fastener and fitting options.**

Part No.	Description	Type	Material
SV20030.12	FASTENER: CABLE TIE, BEADED, 10"	10" Beaded CT	
SV20031.02	CLAMP: POLYESTER, SNAPPER CLAMP, 3/16" - 3/8"	Snapper Clamp	POLYESTER
SV20031.03	CLAMP: POLYESTER, SNAPPER CLAMP, 1/2" - 3/4"	Snapper Clamp	POLYESTER
SV20189.04	FITTING: SILICONE, SANITARY FLANGE GASKET, 1 1/2"	SF Gasket	SILICONE
SV20189.06	FITTING: SILICONE, SANITARY FLANGE GASKET, 3/4"	Mini SF Gasket	SILICONE
SV20189.07	FITTING: SILICONE, SANITARY FLANGE GASKET, 3"	XL SF Gasket	SILICONE
SV20271.01	FITTING: NEEDLE FREE VALVE PORT, SMARTSITE	Smartsite	
SV20420.01	CLAMP: NYLON, SANITARY FLANGE SCREW CLAMP, 1 1/2"	SF Screw Clamp	NYLON
SV20420.02	CLAMP: NYLON, SANITARY FLANGE SCREW CLAMP, 3/4"	Mini SF Screw Clamp	NYLON
SV20420.03	CLAMP: NYLON, SANITARY FLANGE SCREW CLAMP, 3"	XL SF Screw Clamp	NYLON
SV20420.12	CLAMP: NYLON, SANITARY FLANGE PHARMALOK, 1 1/2"	Pharmalok SF	NYLON
SV20420.13	CLAMP: NYLON, SANITARY FLANGE PHARMALOK, 3/4"	Pharmalok Mini SF	NYLON
SV20421.02	FITTING: PC, FEMALE LUER LOCK, 1/8"	Female Luer Lock	PC
SV20503.01	FITTING: PP, END PLUG, 1/8"	End Plug	PP
SV20503.04	FITTING: PP, END PLUG, 1/4"	End Plug	PP
SV20503.07	FITTING: PP, END PLUG, 3/8"	End Plug	PP
SV20504.01	FITTING: PP, T CONN., 1/8"	T-Connect	PP
SV20504.02	FITTING: PP, T CONN., 1/4"	T-Connect	PP
SV20504.04	FITTING: PP, T CONN., 1/2"	T-Connect	PP
SV20504.24	FITTING: PP, T CONN., 1/2" X 1/2" X 1/4"	T-Connect	PP
SV20504.25	FITTING: PP, T CONN., 1/2" X 1/2" X 3/8"	T-Connect	PP
SV20505.03	FITTING: PP, STRAIGHT CONN., 1/4" X 1/8"	Straight Connect	PP
SV20505.07	FITTING: PP, STRAIGHT CONN., 1/2"	Straight Connect	PP
SV20505.11	FITTING: PP, STRAIGHT CONN., 3/8" X 1/4"	Straight Connect	PP
SV20505.12	FITTING: PP, STRAIGHT CONN., 1/2" X 1/4"	Straight Connect	PP
SV20505.13	FITTING: PP, STRAIGHT CONN., 1/2" X 3/8"	Straight Connect	PP
SV20507.01	FITTING: PP, MALE LUER LOCK, 1/8"	Male Luer Lock	PP
SV20507.02	FITTING: PP, FEMALE LUER LOCK, 1/8"	Female Luer Lock	PP
SV20613.01	FITTING: PC, STEMLESS MALE LUER CAP	Male Luer Cap	PC
SV20650.02	FITTING: PP, CROSS CONN., 1/8"	Cross Connect	PP
SV20650.06	FITTING: PP, CROSS CONN., 1/2"	Cross Connect	PP
SV20664.01	CLAMP: NYLON/PSU, HEAVY DUTY CLAMP, 3/16" - 1/2" ID WITH 0.085" - 0.200" WALL	Heavy Duty Clamp	NYLON/PSU
SV20710.02	FITTING: PSU, MALE LYNX S2S, 1/2"	Male Lynx S2S	PSU
SV20739.02	CLAMP: PP, PUREFIT TC CLAMP, 3/8" - 3/4"OD	Purfit SF Clamp	PP
SV20826.11	FITTING: PC, PENDOTECH, PRESSURE SENSOR PRESS-N-050-B, 1/2"	Pendotech Pressure Sensor	PC
SV20826.12	FITTING: PC, PENDOTECH, PRESSURE SENSOR PRESS-N-050-30, 1/2"	Pendotech Pressure Sensor	PC

**Table 3. Fastener and fitting options.**

Part No.	Description	Type	Material
SV20826.13	FITTING: PC, PENDOTECH, PRESSURE SENSOR PRESS-N-050-60, 1/2"	Pendotech Pressure Sensor	PC
SV20826.21	FITTING: PC, PENDOTECH, PRESSURE SENSOR, PRESS-N-025-30, 1/4"	Pendotech Pressure Sensor	PC
SV20849.01	FITTING: SS, STRAIGHT CONN., 1/8" X 1/8"	Straight Connect	SS
SV21011.02	FITTING: PP, 3/4" SANITARY FLANGE, 1/4"	Mini SF	PP
SV21011.03	FITTING: PP, 3/4" SANITARY FLANGE, 3/8"	Mini SF	PP
SV21011.04	FITTING: PP, 3/4" SANITARY FLANGE, 1/2"	Mini SF	PP
SV21011.08	FITTING: PP, 1 1/2" SANITARY FLANGE, 3/8"	SF	PP
SV21011.09	FITTING: PP, 1 1/2" SANITARY FLANGE, 1/2"	SF	PP
SV21011.14	FITTING: PP, 1 1/2" SANITARY FLANGE CAP	SF Cap	PP
SV21011.15	FITTING: PP, 3/4" SANITARY FLANGE CAP	Mini SF Cap	PP
SV21012.11	FITTING: HDPE, 3/4" SF X 1/4" HB, W/ GASKET STERILENZ	STERILENZ II W/ Gasket	HDPE
SV21012.13	FITTING: HDPE, 3/4" SF X 1/2" HB, W/ GASKET STERILENZ	STERILENZ II W/ Gasket	HDPE
SV21012.16	FITTING: HDPE, 1 1/2" SF X 1/2" HB, W/ GASKET STERILENZ	STERILENZ II W/ Gasket	HDPE
SV21184.04	FITTING: BLACK EPDM, O-RING, 13/16" ID X 15/16" OD X 1/16" WIDTH	BLACK O-RING	EPDM
SV21289.01	FITTING: PC, ASEPTIQUIK G, 1/4"	ASEPTIQUIK G	PC
SV21289.03	FITTING: PC, ASEPTIQUIK G, 1/2"	ASEPTIQUIK G	PC
SV21453.01	FASTENER: NYLON, PHARMALOK TUBE CLAMP, 1/2" TO 7/8" ID TUBING (1/8" OR GREATER WALL)	Pharmalok Clamp	NYLON
SV21453.03	FASTENER: NYLON, PHARMALOK TUBE CLAMP, 1/2" OD TUBING MAX (1/32" TO 3/32" WALL)	Pharmalok Clamp	NYLON
SV21469.01	FITTING: PC, SANITARY FLANGE CAP, 3"	XL SF Cap	PC
SV21487.01	FITTING: SILICONE TEMPERATURE PROBE & SAMPLING INSERT FOR 1" PORT	Temperature Probe	SILICONE
SV2A038.02	CLAMP: NOVASEAL CRIMP, 3/8" ID X 5/8" OD	Novaseal	
SV2A038.04	CLAMP: NOVASEAL CRIMP, 3MM ID X 6MM OD	Novaseal	
SV50031	POLYBAG: PE, RE-SEALABLE POLYBAG	Extra polybag	

**Table 4. Beta bag options.\***

Part No.	Description	Size	Flange
SUT30048.01	Single-use DPTE-Beta Bag	30 L	190 mm
SUT21566	Aseptic Transfer Single-Use Bag	15 L	110 mm

\*More options will be added

**Table 5. Surge bag options.**

Part No.	Description	Size	Film
SUT21897	Labtainer Pro Surge Bag with 3/8 & 1/4 face ports	5 L	Aegis 5-14
SUT21896	Labtainer Pro Surge Bag with 1/4 face port	5 L	Aegis 5-14

**Table 6. Needle options.**

Part No.	Description	Inner diameter	Material
SV21217.01	Syntegon PreVAS single-use filling needle	1.2 mm	Stainless Steel
SV21217.02	Syntegon PreVAS single-use filling needle	1.6 mm	Stainless Steel
SV21217.03	Syntegon PreVAS single-use filling needle	2.1 mm	Stainless Steel
SV21217.04	Syntegon PreVAS single-use filling needle	3.0 mm	Stainless Steel
SV21217.05	Syntegon PreVAS single-use filling needle	3.8 mm	Stainless Steel
SV21217.06	Syntegon PreVAS single-use filling needle	4.6 mm	Stainless Steel
SV21217.07	Syntegon PreVAS single-use filling needle	5.5 mm	Stainless Steel
SV2A094.02	Allegro filling needle	1.6 mm	PEEK
SV2A094.01	Allegro filling needle	0.8mm	PEEK
SUT30073.01	IMA Filling Needle (MPA/OVLK)	1.0 mm	Stainless Steel
SUT30073.02	IMA Filling Needle (MPA/OVLK)	3.0 mm	Stainless Steel
SUT30091.01	Oneshot Single-Use IMA Filler Needle with Spool Hub	1.0mm	Stainless Steel
SUT30091.02	Oneshot Single-Use IMA Filler Needle with Spool Hub	3.0mm	Stainless Steel
SUT30091.03	Oneshot Single-Use IMA Filler Needle with Spool Hub	5.0mm	Stainless Steel
SUT30091.04	Oneshot Single-Use IMA Filler Needle with Spool Hub	1.5mm	Stainless Steel
SUT30091.05	Oneshot Single-Use IMA Filler Needle with Spool Hub	0.8mm	Stainless Steel
SUT30091.06	Oneshot Single-Use IMA Filler Needle with Spool Hub	4.0mm	Stainless Steel
SUT30091.11	Oneshot Single-Use IMA Filler Needle with Spool Hub	1.6mm	Stainless Steel
SUT30091.12	Oneshot Single-Use IMA Filler Needle with Spool Hub	2.0mm	Stainless Steel
SUT30091.13	Oneshot Single-Use IMA Filler Needle with Spool Hub	2.1mm	Stainless Steel
SUT30091.14	Oneshot Single-Use IMA Filler Needle with Spool Hub	2.5mm	Stainless Steel
SUT30091.15	Oneshot Single-Use IMA Filler Needle with Spool Hub	3.2mm	Stainless Steel
SUT30091.16	Oneshot Single-Use IMA Filler Needle with Spool Hub	3.4mm	Stainless Steel
SUT30091.17	Oneshot Single-Use IMA Filler Needle with Spool Hub	3.5mm	Stainless Steel
SUT30091.18	Oneshot Single-Use IMA Filler Needle with Spool Hub	4.4mm	Stainless Steel
SUT30091.19	Oneshot Single-Use IMA Filler Needle with Spool Hub	4.8mm	Stainless Steel
SUT30106.01	OneShot™ 316 L SS Inova Filler Needle	1.1 mm	Stainless Steel
SUT30106.02	OneShot™ 316L SS Inova Filler Needle w/ 8 mm Hub	2.1mm	Stainless Steel
SUT30106.03	OneShot™ 316L SS Inova Filler Needle w/ 8 mm Hub	3.0mm	Stainless Steel
SUT30106.04	OneShot™ 316L SS Inova Filler Needle w/ 8 mm Hub	2.5mm	Stainless Steel
SUT30106.05	OneShot™ 316L SS Inova Filler Needle w/ 8 mm Hub	4.0mm	Stainless Steel

**Table 6. Needle options.**

Part No.	Description	Inner diameter	Material
SUT30106.06	OneShot™ 316L SS Inova Filler Needle w/ 8 mm Hub	5.0mm	Stainless Steel
SUT30106.07	OneShot™ 316L SS Inova Filler Needle w/ 8 mm Hub	3.2mm	Stainless Steel
SUT30106.08	OneShot™ 316L SS Inova Filler Needle w/ 8 mm Hub	1.6mm	Stainless Steel
SUT30106.09	OneShot™ 316L SS Inova Filler Needle w/ 13 mm Hub	1.6mm	Stainless Steel
SUT30106.10	OneShot™ 316L SS Inova Filler Needle w/ 13 mm Hub	2.1mm	Stainless Steel
SUT30106.11	OneShot™ 316L SS Inova Filler Needle w/ 13 mm Hub	3.0mm	Stainless Steel
SUT30106.12	OneShot™ 316L SS Inova Filler Needle w/ 13 mm Hub	3.2mm	Stainless Steel
SUT30106.13	OneShot™ 316L SS Inova Filler Needle w/ 13 mm Hub	5.0mm	Stainless Steel
SUT30106.14	OneShot™ 316L SS Inova Filler Needle w/ 8 mm Hub	1.5mm	Stainless Steel
SUT30106.15	OneShot™ 316L SS Inova Filler Needle w/ 13 mm Hub	3.5mm	Stainless Steel
SUT30106.16	OneShot™ 316L SS Inova Filler Needle w/ 13 mm Hub	4.8mm	Stainless Steel
SUT30106.22	OneShot™ 316L SS Inova Filler Needle w/ 8 mm Hub	2.0mm	Stainless Steel
SUT30106.23	OneShot™ 316L SS Inova Filler Needle w/ 8 mm Hub	3.4mm	Stainless Steel
SUT30106.24	OneShot™ 316L SS Inova Filler Needle w/ 8 mm Hub	3.5mm	Stainless Steel
SUT30106.25	OneShot™ 316L SS Inova Filler Needle w/ 8 mm Hub	4.4mm	Stainless Steel
SUT30106.26	OneShot™ 316L SS Inova Filler Needle w/ 8 mm Hub	4.8mm	Stainless Steel
SUT30106.34	OneShot™ 316L SS Inova Filler Needle w/ 13 mm Hub	1.5mm	Stainless Steel
SUT30106.35	OneShot™ 316L SS Inova Filler Needle w/ 13 mm Hub	2.0mm	Stainless Steel
SUT30106.36	OneShot™ 316L SS Inova Filler Needle w/ 13 mm Hub	2.5mm	Stainless Steel
SUT30106.37	OneShot™ 316L SS Inova Filler Needle w/ 13 mm Hub	3.4mm	Stainless Steel
SUT30106.38	OneShot™ 316L SS Inova Filler Needle w/ 13 mm Hub	4.0mm	Stainless Steel

 Learn more at [thermofisher.com/fillfinishsolution](https://thermofisher.com/fillfinishsolution)

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