Vertical Sidearm Fittings,
Gas Delivery and Venting

Gas Handling Fittings, Vertical Sidearm Flasks

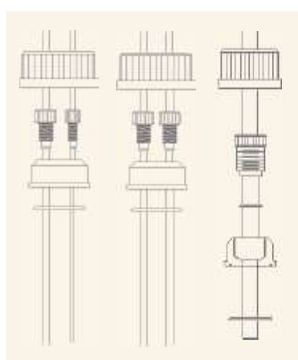
- ▶ Used to provide gases into larger spinner flasks with vertical sidearms
- ▶ Fittings are comprised of a PET insert with a fluorocarbon O-ring and a polypropylene sealing cap
- ▶ Gas filters are PTFE, 0.2 µm porosity
- ▶ The 316 stainless steel tubes are held in place by modified polyphenylene oxide thermoplastic nuts with integrated ferrules
- ▶ The fittings are completely autoclavable

Cat. No.	Description	Dimension	Qty/Cs
4519-100	Sidearm fitting, gas delivery	1/8" inlet	1
4519-102	Sidearm fitting, gas delivery	1/4" inlet	1
4519-104	Sidearm fitting, delivery and vent	1/8" and 1/4"	1
4519-106	Sidearm fitting, vent cap, 0.2 µm	50 mm filter	1
4519-177	Sidearm fitting, vent cap, 0.2 µm, sanitary	50 mm filter	1

Media Handling Fittings, Vertical Sidearm Flasks

- ▶ Used to introduce medium aseptically into large spinner flasks with vertical sidearms
- ▶ Fittings are comprised of a PET insert with a fluorocarbon O-ring and a polypropylene sealing cap
- ▶ Gas filters are PTFE, 0.2 µm porosity
- ▶ The 316 stainless steel tubes are held in place by modified polyphenylene oxide thermoplastic nuts with integrated ferrules
- ▶ The fittings are completely autoclavable

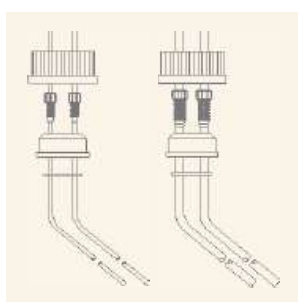
Cat. No.	Description	Fits Flask Size	Tubing O.D. (inches)	Qty/ Case
4519-112	Sidearm fitting, dual, media handling	8L, 15L	1/8"	1
4519-114	Sidearm fitting, dual, media handling	36L	1/8"	1
4519-116	Sidearm fitting, dual, media handling	8L, 15L	1/4"	1
4519-118	Sidearm fitting, dual, media handling	36L	1/4"	1
4519-120	Sidearm fitting, combo, media handling	8L, 15L	1/8", 1/4"	1
4519-122	Sidearm fitting, combo, media handling	36L	1/8", 1/4"	1
4519-124	Sidearm fitting, single, media handling	8L, 15L	1/2"	1
4519-126	Sidearm fitting, single, media handling	36L	1/2"	1
4519-176	Sidearm fitting, dual, media handling, EPDM	8L, 15L	1/4"	1

Vertical Sidearm Fittings,
Media Handling

Gas or Media Handling Fittings, Angled Sidearm Flasks, Dual Style

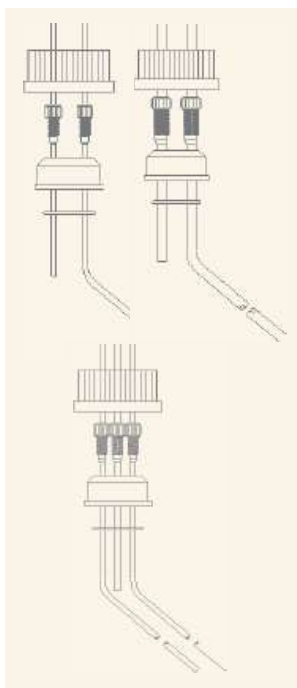
- ▶ Dual angled sidearm fittings can be used for aseptically transferring medium into or out of angled sidearm spinner flasks or for sparging the medium with gases
- ▶ Fittings are comprised of a PET insert with a fluorocarbon O-ring and a polypropylene sealing cap
- ▶ Two 316 stainless steel tubes which extend to the bottom of the flask, are held in place by modified polyphenylene oxide thermoplastic nuts with integrated ferrules
- ▶ The fittings are completely autoclavable

Cat. No.	Description	Flask Size	Tubing O.D. (inches)	Qty/ Case
4519-150	SA fitting, dual	1L	1/8"	1
4519-151	SA fitting, dual	3L	1/8"	1
4519-152	SA fitting, dual	6L	1/8"	1
4519-153	SA fitting, dual	8L	1/8"	1
4519-173	SA fitting, dual	1L	1/8", 1/4"	1
4519-121	SA fitting, dual	8L	1/8", 1/4"	1
4519-174	Sidearm fitting, dual	500 mL	1/8" angled to 125 mL level, 1/4"	1
4519-154	Sidearm fitting, dual	1L	1/4"	1
4519-155	Sidearm fitting, dual	3L	1/4"	1
4519-156	Sidearm fitting, dual	6L	1/4"	1
4519-157	Sidearm fitting, dual	8L	1/4"	1
4519-170	Sidearm fitting, dual	15L	1/4"	1



Dual Angled Sidearm Fittings

Gas or Media Handling Fittings, Angled Sidearm Flasks, Combination Style

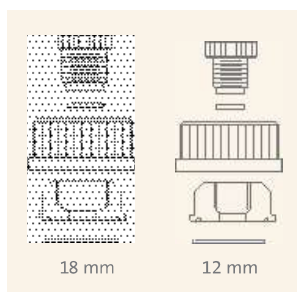


Combination and Triple Angled Sidearm Fittings

- ▶ Used to aseptically transfer medium, sparge the cell culture medium directly or add gases to the head space above the cell culture medium
- ▶ Fittings are comprised of a PET insert with a fluorocarbon O-ring and a polypropylene sealing cap
- ▶ One or two 316 stainless steel tubes extend to the bottom of the flask; the other is a shorter 6" length
- ▶ Both tubes are held in place by modified polyphenylene oxide thermoplastic nuts with integrated ferrules
- ▶ The fittings are completely autoclavable

Cat. No.	Description	Flask Size	Tubing O.D. (inches)	Qty/Case
4519-158	Sidearm fitting, combination	1L	1/8"	1
4519-159	Sidearm fitting, combination	3L	1/8"	1
4519-160	Sidearm fitting, combination	6L	1/8"	1
4519-161	Sidearm fitting, combination	8L	1/8"	1
4519-162	Sidearm fitting, combination	1L	1/4"	1
4519-163	Sidearm fitting, combination	3L	1/4"	1
4519-164	Sidearm fitting, combination	6L	1/4"	1
4519-165	Sidearm fitting, combination	8L	1/4"	1
4519-171	Sidearm fitting, combination	15L	1/4"	1
4519-166	Sidearm fitting, combination, triple	1L	1/8"	1
4519-167	Sidearm fitting, combination, triple	3L	1/8"	1
4519-168	Sidearm fitting, combination, triple	6L	1/8"	1
4519-169	Sidearm fitting, combination, triple	8L	1/8"	1

Fittings for Insertion Probes, Vertical Sidearm Flasks



Sidearm Fittings for Sensors

- ▶ Used to secure pH, O₂, or temperature sensors in large spinner flasks with vertical sidearms
- ▶ Fittings are comprised of a PET insert with a fluorocarbon O-ring and a polypropylene sealing cap
- ▶ The 316 sensors are held in place by modified polyphenylene oxide thermoplastic nuts with integrated ferrules
- ▶ The fittings are completely autoclavable

Cat. No.	Description	Sensor O.D. (mm)	Qty/Cs
4519-108	Sidearm fitting, sensor, O ₂ probes	12	1
4519-128	Sidearm fitting, sensor, temperature probes	12	1
4519-110	Sidearm fitting, sensor, pH probes	12	1
4519-172	Sidearm fitting, sensor, pH or O ₂	18	1

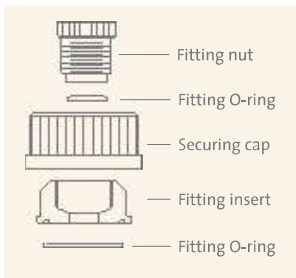
Impeller Assembly for Magnetically-Driven Bioreactor



Impeller Assembly

Stainless steel impeller shaft with modified impeller blade for use with probes to create a small bioreactor.

Cat. No.	Description	Qty/Cs
402648	Impeller assembly, stainless steel, dual bearing, modified for probes, 3L	1
402649	Impeller assembly, stainless steel, dual bearing, modified for probes, 6L	1
401392	Impeller assembly, stainless steel, dual bearing, modified for probes, 8L	1
401661	Impeller assembly, stainless steel, dual bearing, modified for probes, 15L	1
402650	Impeller assembly, stainless steel, dual bearing, modified for probes, 36L	1



Cap Assembly for Magnetically-Driven Bioreactor

Cap assembly for small bioreactor with various fitting arrangements.

Cat. No.	Description	Qty/Cs
402579	Cap assembly, 120 mm, Glass Filled PBT, 3 (3/8"), 1 (1/4") fittings	1
402576	Cap assembly, 120 mm, Glass Filled PBT, 2 (12 mm), 2 (1/4") fittings	1
402577	Cap assembly, 120 mm, Glass Filled PBT, 2 (12 mm), 2 (1/4"), 1 (3/8") fittings	1

Spare Parts for Sidearm Fittings

Corning Cat. No.	Description	Qty/Cs
Securing Caps		
1395-32LTC	Cap, solid, 32 mm, orange	1
1395-45LTC	Cap, solid, 45 mm, orange	1
1395-45LTR	Drip ring, 45 mm, clear	1
1395-45LTMC	Cap, vented, securing, 45 mm, .22 PTFE, grey	10



Direct Drive Motor

Direct Drive Motors

- ▶ High torque, low rpm stirrer designed to maintain constant low speed
- ▶ Gearhead stirrer delivers 14.5 in-lbs of torque
- ▶ Maximum speed is 350 rpm
- ▶ Weight of motor is 9 lbs (4.1kg)
- ▶ Available with 120VAC 60Hz or 230VAC 50Hz

Cat. No.	Description	Qty/Cs
400640	120VAC, 60 Hz Motor	1
402645	230VAC, 50 Hz Motor	1



Direct Drive Shaft/Cap Assembly

Direct Drive Shaft/Cap Assemblies

- ▶ For 8L, 15L, or 36L paddle assemblies
- ▶ Used on all series 4510 and 4512 Spinner flasks

Cat. No.	Description	Qty/Cs
402614	For 100 mm Neck flasks	1
400649	For 120 mm Neck flasks	1



Direct Drive Paddle Assembly

Direct Drive Paddle Assemblies

- ▶ For series 4510, 4512, and 4514 Spinner flasks when coupled to a direct drive motor
- ▶ Paddle assemblies will couple to 100 mm and 120 mm cap assemblies

Cat. No.	Description	Qty/Cs
4515-8L	Paddle assembly only for 8L flask	1
4515-15L	Paddle assembly only for 15L flask	1
4515-36L	Paddle assembly only for 36L flask	1