



**Autoclave
Engineers** 

Parker Autoclave Engineers
Providing Tools for Research and Industry

Cone Closure Tubing Reactors

At a Glance

Volumes:	1.81 ml - 5.43 ml
MAWP:	48,450-60,000 psi @ 72°F 3340-4137 bar @ 22°C
Material of Construction:	316 SS

Principle of Operation

Parker Autoclave Engineers offers a 3/16" I.D. series of convenient, versatile and economical micro-reactors. Each are assembled from standard, readily available Parker Autoclave Engineers High Pressure tubing nipples and connection components. Applicable to many low-volume laboratory reaction studies, they provide the proven reliability of Parker Autoclave Engineers coned-and-threaded connections.

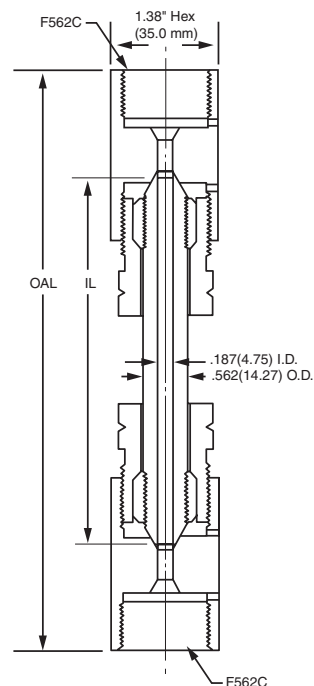
Series CC — SS60 Tubing Reactors

- Type 316 SS tubing body with Type 316 SS couplings collars and glands.
- Accepts standard 9/16" (14.3 mm) Parker Autoclave Engineers High Pressure Connection Components
- Includes plug and gland on each end. (Not shown)
- Rated per ANSI / ASME B31.3

Specifications and Part Numbers

Complete Assembly	CC.181SS60		CC.271SS60		CC.362SS60		CC.452SS60		CC.543SS60	
Drawing Number	10A-2489		10A-2489		10A-2489		10A-2489		10A-2489	
Nominal Capacity	1.81 ml		2.71 ml		3.62 ml		4.52 ml		5.43 ml	
Dimensions: Inches (mm)	IL	OAL	IL	OAL	IL	OAL	IL	OAL	IL	OAL
	4.00	6.75	6.00	8.75	8.00	10.75	10.00	12.75	12.00	14.75
	(102)	(171)	(152)	(222)	(203)	(273)	(254)	(324)	(305)	(375)

Temperature	Maximum Operating Pressure
-20 to 100° F (-29° - 38° C)	60,000 psi (4137 bar)
200° F (93° C)	56,800 psi (3916 bar)
400° F (204° C)	51,650 psi (3561 bar)
600° F (316° C)	51,000 psi (3516 bar)
800° F (427° C)	48,450 psi (3340 bar)



Pressure Vessels





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At a Glance

Volumes: 5.03 ml - 15.1 ml
MAWP: 16,150-20,000 psi @ 72°F
1130-1379 bar @ 22°C
Material of Construction: 316 SS

Principle of Operation

Parker Autoclave Engineers offers a 5/16" I.D. series of convenient, versatile and economical micro-reactors. Each are assembled from standard, readily available Parker Autoclave Engineers SlimLine Medium Pressure tubing nipples and connection components. Applicable to many low-volume laboratory reaction studies, they provide the proven reliability of Parker Autoclave Engineers coned-and-threaded connections.

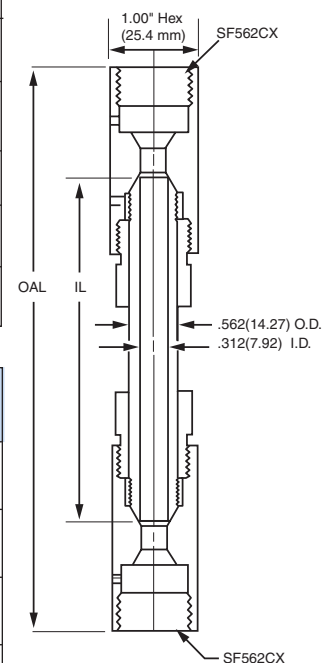
Series CC _ _ _ SS20 Tubing Reactors

- Type 316 SS tubing body with Type 316 SS couplings collars and glands.
- Accepts standard 9/16" (14.3 mm) Parker Autoclave Engineers SlimLine connections.
- Includes plug and gland on each end.
- Rated per ANSI/ASME B31.3

Specifications and Part Numbers

Complete Assembly	CC.503SS20		CC.754SS20		CC1.01SS20		CC1.25SS20		CC1.51SS20	
Drawing Number	10A-2490		10A-2490		10A-2490		10A-2490		10A-24909	
Nominal Capacity	5.03 ml		7.54 ml		10.1 ml		12.5 ml		15.1 ml	
Dimensions: Inches (mm)	IL	OAL	IL	OAL	IL	OAL	IL	OAL	IL	OAL
	4.00	6.50	6.00	8.50	8.00	10.50	10.00	12.50	12.00	14.50
	(102)	(165)	(152)	(216)	(203)	(267)	(254)	(318)	(305)	(368)

Temperature	Maximum Operating Pressure
-20 to 100° F (-29 – 38° C)	20,000 psi (1379 bar)
200° F (93° C)	18,950 psi (1306 bar)
400° F (204° C)	17,200 psi (1185 bar)
600° F (316° C)	17,000 psi (1172 bar)
800° F (427° C)	16,150 psi (1113 bar)





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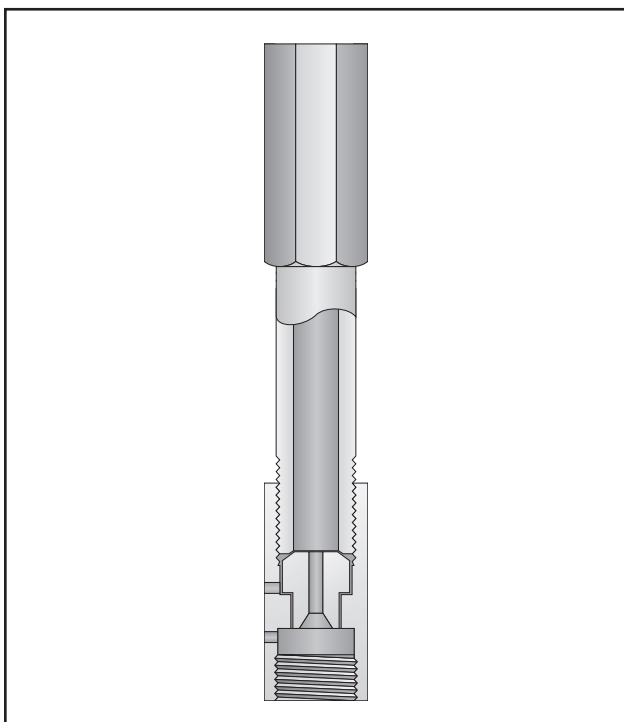
Cone Closure Tubing Reactors

At a Glance

Volumes:	9.85 ml - 45.5 ml
MAWP:	16,800-20,000 psi @ 72°F 1158-1379 bar @ 22°C
Material of Construction:	316 SS

Principle of Operation

Parker Autoclave Engineers offers a 7/16" I.D. series of convenient, versatile and economical micro-reactors. Each are assembled from custom manufactured tubing, nipples and standard connection components. Applicable to many low-volume laboratory reaction studies, they provide the proven reliability of Parker Autoclave Engineers coned-and-threaded connections.



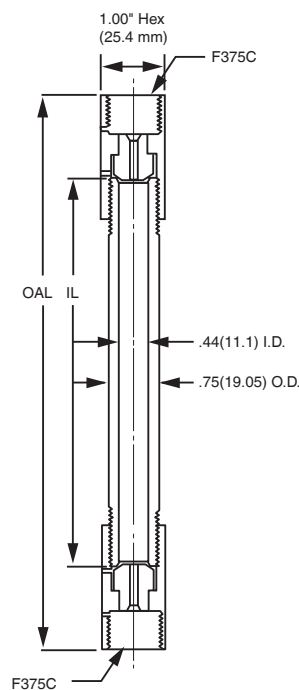
Series CC_ _ _ SS20 Tubing Reactors

- Type 316 SS tubing body, couplings and covers.
- Accepts standard 3/8" (9.53 mm) Parker Autoclave Engineers High Pressure connections.
- Includes plug and gland on each end.
- Rated per ANSI/ASME B31.3

Specifications and Part Numbers

Complete Assembly	CC.985SS20		CC1.96SS20		CC2.94SS20		CC3.92SS20		CC4.55SS20	
Drawing Number	10A-2447		10A-2447		10A-2447		10A-2447		10A-2447	
Nominal Capacity	9.85 ml		19.6 ml		29.4 ml		39.2 ml		45.5 ml	
Dimensions: Inches (mm)	IL	OAL	IL	OAL	IL	OAL	IL	OAL	IL	OAL
	3.88	6.56	7.88	10.56	11.88	14.56	15.88	18.56	18.38	21.06
	(99)	(167)	(200)	(268)	(302)	(370)	(403)	(471)	(467)	(535)

Temperature	Maximum Operating Pressure
-20 to 100° F (-29° - 38° C)	20,000 psi (1379 bar)
200° F (93° C)	20,000 psi (1379 bar)
400° F (204° C)	19,250 psi (1327 bar)
600° F (316° C)	18,200 psi (1254 bar)
800° F (427° C)	16,800 psi (1158 bar)



Pressure Vessels



Ordering Guide

CC	.503	SS	20
Cone Closure	Capacity in ml x 10	Stainless Steel (316) XX - other materials available (consult factory)	Operating Pressure in psi (bar) @ room temperature
	.181 - 1.81 ml		
	.271 - 2.71 ml		
	.362 - 3.62 ml		
	.452 - 4.52 ml		
	.503 - 5.03 ml		20 - 20,000 (1379)
	.543 - 5.43 ml		60 - 60,000 (4138)
	.754 - 7.54 ml		
	1.01 - 10.1 ml		
	1.25 - 12.5 ml		
	1.51 - 15.1 ml		
	.985 - 9.85 ml		
	1.96 - 19.6 ml		
	2.94 - 29.4 ml		
	3.92 - 39.2 ml		
	4.55 - 45.5 ml		

Supporting Information

Controls: (See Instrumentation Selection of this catalog) (IN-SG)
Valves, Fittings & Tubing: (See VFT Catalog)

Features & Other Available Options

- Connections can be adapted to different sizes
- Other materials of construction available
- Furnaces
- Special lengths up to 22' available
- Contact factory to discuss your special requirements

WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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