

Mini-Reactor

Ordering Guide

Base Reactors: 25, 50, 100, and 150 ml



Ordering Guide:

Volume				Pressure Vessel						MagneDrive					Internal Accessories				External Accessories						
M	0	0	2	S	S	B	3	1	1	0	E	1	1	8	A	3	1	0	1	1	D	1	1	0	
Base Reactor				A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U	V		

Part Number Example: **M002SSB3110E118A31011D110** (example selections indicated in yellow below)

Base Reactor

Base Reactors	
M002	25ml Mini-Reactor
M005	50ml Mini-Reactor
M010	100ml Mini-Reactor
M015	150ml Mini-Reactor

Pressure Vessel

A - Vessel Material	
SS	316 Stainless Steel
HC	Hastelloy®1 C-276

B - Seal Material *	
B	Nitrile O-ring (Max. Temp. 250°F/121°C)
C	Ethylene-Propylene O-ring (Max. Temp. 300°F/149°C)
D	PTFE (PTFE Encapsulated FKM) (Max. Temp. 400°F / 204°C)
E	FKM (Max. Temp. 450°F /232°C)
F	Silicone (Max. Temp. 450°F /232°C)
G	Kalrez® 3 (Max. Temp. 600°F /315°C)
H	Chemraz® 4 (Max. Temp. 600°F /315°C)

C - Body Bottom Connection	
0	None (No Connection)
3	1/8" SpeedBite

D - Approvals Available	
0	None Required
1	ASME Code Stamp
2	CE Mark and PED
3	Canadian Registration

E - Stand	
0	None
1	Bench Top

F - Body Lift Mechanism	
0	None

MagneDrive® Agitator

G - MagneDrive® Agitator	
E	In-Line MagneDrive® III

H - Bearings	
1	Purebon 5
2	Fluoropolymer with Graphite Fiber 6

J - Speed Sensors	
0	None
1	General Purpose / Hall Effect

K - Motor	
8	DC 1/25 Hp
9	DC 1/10 Hp
F	Air, Manual Speed Adjust
G	Air, Electronic Speed Adjust

L - Impellers / Shaft / Baffles	
A	Dispersimax™ (6 blades)
B	Turbine (6 blades)
C	Axial-Up (4 blades)
D	Axial-Down (4 blades)
E	Hollow Shaft with Baffle
F	Solid Shaft with Baffle
G	Robinson-Mahoney Catalytic Internals

See Internal and External Accessories on reverse

- HASTELLOY® is a registered trademark of Haynes International Inc.
- Temperature limits are suggested. Actual performance will vary with chemical compatibility.
- Kalrez® is a registered trademark of DuPont Dow Elastomers.
- Chemraz® is a registered trademark of Greene, Tweed.
- Purebon® is a registered trademark of Morgan AM & T Inc.
- Fluoropolymer bearings have a maximum recommended service temperature of 500°F (260°C).
- When heating/cooling are selected, the reactor is supplied with process Type K Thermocouple and external Type K Thermocouple. When NO heating/cooling is selected, the reactor will be supplied with a plugged connection for the process thermocouple.

Standard Equipment Included

- * Temperature limits are suggested. Actual performance will vary.
- ** Choose either sample tube or blow pipe.
- + MROP= Maximum Recommended Operating Pressure
- MROP may be further reduced by temperature and number of cycles.



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Base Reactor				A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U	V	

Part Number Example: **M002SSB3110E118A31011D110** (example selections indicated in yellow below)

Internal Accessories

M - Liquid Sample **	
0	None, Plugged Connection
1	Sample Tube Only
2	Sample Tube with Manual Valve
3	Sample Port to Transducer
5	Sample Tube with Manual Valve and Filter

N - Blow Pipe **	
0	None, Plugged Connection
1	Blow Pipe Only
2	Blow Pipe with Manual Valve

O - Sparge Tube	
0	None

P - Cooling Coil	
0	None, Plugged Connection
1	Cooling Coil Only
2	Cooling Coil with Manual Valve
3	Cooling Coil with 120 Volt Solenoid Valve
4	Cooling Coil with 240 Volt Solenoid Valve

External Accessories

R - Vent Valve	
0	None, Plugged Connection
1	Vent with Manual Valve
4	BPR Digital Valve (120 VAC)
5	BPR Digital Valve (240 VAC)

S - Pressure Gauge/Transducer (M.R.O.P +)	
A	0-600 psi Gauge (450 psi) +
B	0-1,000 psi Gauge (750 psi) +
C	0-2,000 psi Gauge (1,500 psi) +
D	0-3,000 psi Gauge (2,250 psi) +
E	0-5,000 psi Gauge (2,500 psi) +
G	0-600 psi Gauge & 1kpsi Transducer (450 psi) +
H	0-1,000 psi Gauge & 1kpsi Transducer (750 psi) +
J	0-2,000 psi Gauge & 3kpsi Transducer (1,500 psi) +
K	0-3,000 psi Gauge & Transducer (2,250 psi) +
L	0-5,000 psi Gauge & Transducer (2,500 psi) +

T - Heating and Cooling ⁷	
0	None
1	120 VAC Furnace
2	220 VAC Furnace
3	Purgable Electric 120V
4	Purgable Electric 240V
5	Baffled Removable Jacket

U - Gas Inlet	
0	None, Plugged Connection
1	Gas Inlet Line with One (1) Manual Valve
3	FPR Digital Valve (120 VAC)
4	FPR Digital Valve (240 VAC)

V - Charging Valve	
0	None

WARNING

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Caution! Do not mix or interchange component parts or tubing with those of other manufacturers. Doing so is unsafe and will void warranty.

Caution! Parker Autoclave Engineers Valves, Fittings, and Tools are not designed to interface with common commercial instrument tubing and are designed to only connect with tubing manufactured to Parker Autoclave Engineers AES specifications. Failure to do so is unsafe and will void warranty.

Bulletin SR-OGMR

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