

Mini-Reactor

Ordering Guide

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



Ordering Guide:

Model Code				Pressure Vessel							MagneDrive® Agitator					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
Volume				A	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)

Model Code

Volume	
002	25ml Mini-Reactor
005	50ml Mini-Reactor
010	100ml Mini-Reactor
015	150ml Mini-Reactor

Pressure Vessel

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

B - Seal Material	
B	Nitrile O-ring (Max. Temp. 250°F/121°C) ²
C	Ethylene-Propylene O-ring (Max. Temp. 300°F/149°C) ²
D	PTFE (PTFE Encapsulated FKM) (Max. Temp. 400°F / 204°C) ²
E	FKM (Max. Temp. 450°F /232°C) ²
F	Silicone (Max. Temp. 450°F /232°C) ²
G	FFKM (Kalrez®) ³ (Max. Temp. 500°F /260°C) ²
H	Chemraz® ⁴ (Max. Temp. 600°F /315°C) ²

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



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Internal Accessories

M - Liquid Sample ⁹	
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 ⁹	
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

Notes:

- 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.
- Chemraz® is a registered trademark of Greene, Tweed.
- Purebon® is a registered trademark of Morgan AM&T.
- 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.
- MROP= Maximum Recommended Operating Pressure
MROP may be further reduced by temperature and number of cycles.
- Choose either sample tube or blow pipe.

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) ⁸	
A	0-600 psi Gauge (450 psi) ⁸
B	0-1,000 psi Gauge (750 psi) ⁸
C	0-2,000 psi Gauge (1,500 psi) ⁸
D	0-3,000 psi Gauge (2,250 psi) ⁸
E	0-5,000 psi Gauge (2,470 psi) ⁸
G	0-600 psi Gauge/1ksi Transducer (450 psi) ⁸
H	0-1,000 psi Gauge/1ksi Transducer (750 psi) ⁸
J	0-2,000 psi Gauge/3ksi Transducer (1,500 psi) ⁸
K	0-3,000 psi Gauge/3ksi Transducer (2,250 psi) ⁸
L	0-5,000 psi Gauge/5ksi Transducer (2,470 psi) ⁸

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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