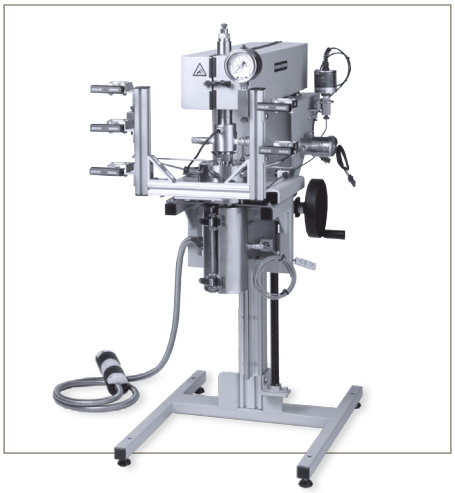
Bolted Closure

Stirred Reactors Ordering Guide

Stirred Reactor: 100, 300, 500, 1,000, 2,000, and 4,000 ml



Ordering Guide:

Model Code			
B	0	3	0
Volume			

Pressure Vessel						
S	S	B	0	0	1	1
A	A	B	C	D	E	F

MagneDrive® Agitator				
A	1	1	1	A
G	H	J	K	L

Internal Accessories			
1	1	0	1
M	N	O	P

External Accessories				
1	D	1	1	0
R	S	T	U	V

Part Number Example: **B030SSB0011A111A11011D110** (example selections indicated in yellow below)

Model Code

Volume	
010	100 ml Bolted Closure Reactor
030	300 ml Bolted Closure Reactor
050	500 ml Bolted Closure Reactor
100	1,000 ml Bolted Closure Reactor
200	2,000 ml Bolted Closure Reactor
400	4,000 ml Bolted Closure Reactor

Pressure Vessel

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

B - O-ring Seal Material	
A	Metal Gasket, 650°F/343°C (Vessel Material)[2]
B	Nitrile (Max. Temp. 250°F/121°C)[2]
C	Ethylene-Propylene (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]

C - Body Bottom Connection	
0	None (No Connection)
1	1/2" Port Manual valve (500 to 4,000 ml only, require floor stand)[4]
2	Flat Bottom Connection

D - Approvals Available [11]	
0	None Required
1	ASME Code Stamp
2	CE Mark Compliance
3	Canadian Registration

E - Stand	
0	None
1	Short Bench Top (100 & 300 ml only)
2	Tall Bench Top (100 ml to 1,000 ml only)
3	Floor (500 ml to 4,000 ml only)

F - Body Lift Mechanism	
0	None
1	Manual Jack
2	Manual Jack CE

MagneDrive® Agitator

G - MagneDrive® Agitator	
A	MAG075-01 Belt Driven
B	iMAG075 Inline
C	MAG075-02 Belt Driven
D	iMAG075 Inline with Dispersimax (for 100 ml only)
F	MAG075-01 Belt Driven with Dispersimax (for 100 ml only)
G	MAG075-02 Belt Driven with Dispersimax (for 100 ml only)
X	No MagneDrive® with opening plugged

H - Bearings	
0	None [5]
1	Purebon®[6] (Carbon Graphite)
2	Fluoropolymer with graphite fiber[7]
3	Purebon®[6] 3310

J - Speed Sensors	
0	None
1	General Purpose Hall Effect

K - Motors	
0	None
1	DC Variable Speed, 90 VDC, General Purpose
2	DC Variable Speed, 180 VDC, General Purpose
3	DC Variable Speed, 90 VDC, XP (Non-CE Mark)
4	DC Variable Speed, 180 VDC, XP (Non-CE Mark)
5	Air with Manual Speed Adjust
6	Air with Electronic Speed Adjust
7	AC Motor, XP CE Mark
C	Belt & Guard WITHOUT MOTOR
D	1/8 HP 0-130 VDC Variable Speed GP Inline
E	1/3 HP 0-130 VDC Variable Speed GP Inline
F	Air Motor - Manual Speed Adjust Inline
G	Air Motor - Electronic Speed Adjust Inline

L - Impellers / Shaft / Baffles	
A	AE Dispersimax™ (6 blades) with Baffle Bar
B	Turbine (6 blades) with Baffle Bar
C	Axial-Up (4 blades) with Baffle Bar
D	Axial-Down (4 blades) with Baffle Bar
X	None[5]

Internal Accessories

M - Liquid Sample	
0	None, Plugged Connection
1	Sample Tube Only
2	Sample Tube with Manual Valve
5	Sample Tube with Manual Valve and Filter

N - Blow Pipe [10]	
0	None, Plugged Connection
1	Blow Pipe Only
2	Blow Pipe with Manual Valve

O - Sparge Tube [10]	
0	None, Plugged Connection
1	Sparge Tube Only
2	Sparge Tube with Manual Valve

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

NOTES:

1. HASTELLOY® is a registered trademark of Haynes International Inc.
2. Temperature limits are suggested. Actual performance will vary with chemical compatibility.
3. Kalrez® is a registered trademark of DuPont.
4. The drain valve is a "Flush" design (no dead volume) that extends approximately 8.25" (210 mm) below the vessel.
5. Use this option only if X (No MagneDrive®) is selected as the model of MagneDrive® agitator
6. Purebon® is a registered trademark of Morgan AM&T.
7. Fluoropolymer bearings have a maximum recommended service temperature of 500°F (260°C).
8. MROP may be further reduced by temperature and number of cycles.
9. When heating/cooling is selected, the reactor is supplied with a process Type K Thermocouple and Thermowell, and an external Type K Thermocouple. When no heating/cooling is selected, the reactor will be supplied with a plugged connection for the process thermocouple.
10. In 100 & 300 ml size either a Blow Pipe or a Sparge Tube is available, but not both.
11. Consult factory for pricing and rating of code vessels.

External Accessories

R - Vent Valve	
0	None, Plugged Connection
1	Vent with Manual Valve
2	High Volume Vent with Solenoid Valve (120 Volt)
3	High Volume Vent with Solenoid Valve (240 Volt)
4	BPR Digital (120 Volt)
5	BPR Digital (240 Volt)
7	BPR Digital with High Volume Vent 120 VAC Solenoid
8	BPR Digital with High Volume Vent 240 VAC Solenoid

S - Pressure Gauge/Transducer (MROP = Max. Recommended Operating Pressure)	
A	600 psi Gauge Only (450 psi MROP)[8]
B	1,000 psi Gauge Only (750 psi MROP)[8]
C	2,000 psi Gauge Only (1,500 psi MROP)[8]
D	3,000 psi Gauge Only (2,250 psi MROP)[8]
E	5,000 psi Gauge Only (3,750 psi MROP)[8]
F	7,500 psi Gauge Only (4,700 psi MROP)[8]
G	600 psi Gauge/1 ksi Transducer (450 psi MROP)[8]
H	1,000 psi Gauge/1 ksi Transducer (750 psi MROP)[8]
J	2,000 psi Gauge/3 ksi Transducer (1,500 psi MROP)[8]
K	3,000 psi Gauge/3 ksi Transducer (2,250 psi MROP)[8]
L	5,000 psi Gauge/5 ksi Transducer (3,750 psi MROP)[8]
M	7,500 psi Gauge/10 ksi Transducer (4,700 psi MROP)[8]
N	600 psi Gauge/1 ksi IS Transducer (450 psi MROP)[8]
P	1,000 psi Gauge/1 ksi IS Transducer (750 psi MROP)[8]
Q	2,000 psi Gauge/3 ksi IS Transducer (1,500 psi MROP)[8]
R	3,000 psi Gauge/3 ksi IS Transducer (2,250 psi MROP)[8]
S	5,000 psi Gauge/5 ksi IS Transducer (3,750 psi MROP)[8]
T	7,500 psi Gauge/10 ksi IS Transducer (4,700 psi MROP)[8]

T - Heating and Cooling [9]	
0	None
1	Electric 120 VAC, Single Phase
2	Electric 240 VAC, Single Phase
3	120 VAC, Purgeable Furnace
4	240 VAC, Purgable Furnace
5	Baffled Removable Jacket, 1/4" FNPT Connections 450°F (232°C) Maximum

U - Gas Inlet	
0	None, Plugged Connection
1	Gas Inlet Line with One (1) Manual Valve
2	Gas Inlet Line with Two (2) Manual Valve (Shared Connection)
3	Forward Pressure Regulation (FPR) - Digital 120VAC
4	Forward Pressure Regulation (FPR) - Digital 240 VAC

V - Charging Valve	
0	None, Plugged Connection
1	3/8" Manual Charging Valve
2	Manual Valve with 8cc Charging Cartridge
3	Manual Valve with 20cc Charging Cartridge
4	Reflux Condenser

06-0039SE November2015

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, Systems, 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.

Instrumentation Products Division
Autoclave Engineers Operation
8325 Hessinger Drive
Erie, PA 16509-4679
Tel: 814 860 5700 • Fax: 814 860 5718
www.AutoclaveEngineers.com

Bulletin SR-OG-BC

ENGINEERING YOUR SUCCESS.