

Bolted Closure Stirred Reactor Ordering Guide

| Volume | Pressure Vessel | MagneDrive | Internal Accessories | External Accessories |
|-------------|-----------------------------|------------------|----------------------|----------------------|
| --- | A B C D E F | G H J K L | M N O P Q | R S T U V W |
| | (Select from options below) | (See reverse) | (See reverse) | |
| B = Std | 100 ml - "010" | 500 ml - "050" | 2,000 ml - "200" | |
| H = Hi Temp | 300 ml - "030" | 1000 ml - "100" | 4,000 ml - "400" | |

Please see drawing 40A-9359 for additional options not shown below.

Pressure Vessel

A Vessel Material:

- SS - 316 Stainless Steel
- HC - Hastelloy C-276

B Seal Materials:

- A - Metal Gasket, 650° F (343° C)*
(Vessel Material - The only choice for Hi-Temp)
- B - Buna-N O-ring, 250° F (121° C)*
- C - EPR O-ring, 300° F (149° C)*
- D - PTFE O-ring, 400° F (204° C)*
- E - Viton^{®1} O-ring, 450° F (232° C)*
- F - Silicone O-ring, 400° F (204° C)*
- G - Kalrez^{®1} O-ring, 500° F (260° C)*

C Flush Valve:

- 0 - None
- 1 - 1/2" Port Manual Valve
(1,000 ml to 4,000 ml only, requires floor stand)
- 2 - Flat Bottom Connection

D Approvals Available:

- 0 - None
- 1 - ASME Code Stamp
- 2 - CE Mark Compliance
- 3 - Canadian CRN

E Stand:

- 0 - None
- 1 - Short Bench Top (100 ml & 300 ml only)
- 2 - Tall Bench Top (300 ml to 1,000 ml only)
- 3 - Floor (1000 ml to 4,000 ml only)

F Body Lift Mechanism:

- 0 - None
- 1 - Manual Jack Short/Long BC
- 2 - Manual Jack CE Short/Long BC

MagneDrive[®] Agitator

G Models:

- X - None
- A - MAG075-01 Belt Driven
- C - MAG075-02 Belt Driven

H Bearings:

- 0 - None
- 1 - Purebon² (Carbon Graphite)
- 2 - FPGF

J Speed Sensors:

- 0 - None
- 1 - General Purpose
- 2 - Intrinsically Safe (IS Barrier not provided)

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

L Impellers:

- A - AE Dispersimax (6 blade) with Baffle Bar
- B - Turbine (4 blade) with Baffle Bar
- C - Axial Up (4 blade) with Baffle Bar
- D - Axial Down (4 blade) with Baffle Bar

*Temperature limits are suggested. Actual performance will vary with chemical compatibility.



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Volume Pressure Vessel MagneDrive Internal Accessories External Accessories
B _ _ _ --- **A B C D E F** --- **G H J K L** --- **M N O P Q** --- **R S T U V W**
(See reverse) (See reverse) (Select from options below)

Internal Accessories

M Liquid Sample:

- 0 - None, (Plugged Connection)
- 1 - Sample Tube Only
- 2 - Tube with Manual Valve

N Blow Pipe**:

- 0 - None, (Plugged Connection)
- 1 - Blow Pipe Only
- 2 - Blow Pipe with Manual Valve

O Sparge Tube**:

- 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" Solenoid Valve (120V)
- 4 - Cooling Coil with 1/4" Solenoid Valve (240V)

Q Process Thermocouple:

- 0 - None, (Plugged Connection)
- 1 - Thermowell Only
- 2 - Thermowell with Type "K"
- 3 - Thermowell with Type "J"

! WARNING !

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

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Division of Snap-tite, Inc.

8325 Hessinger Drive
Erie, Pennsylvania 16509-4679 USA
PH: 814-860-5700 FAX: 814-860-5811
e-mail: aeclave_sales@snap-tite.com
www.autoclaveengineers.com



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External Accessories

R Vent Valve:

- 0 - None, (Plugged Connection)
- 1 - Vent with Manual Valve

S Pressure Gage/Transducer:

(Dictates Max. Recommended Operating Pressure "MROP")

- A - 600 psi Gage Only, (450 psi MROP)+
- B - 1,000 psi Gage Only, (750 psi MROP)+
- C - 2,000 psi Gage Only, (1,500 psi MROP)+
- D - 3,000 psi Gage Only, (2,250 psi MROP)+
- E - 5,000 psi Gage Only, (3,870 psi MROP)+
- F - 7,500 psi Gage Only, (4,740 psi MROP)+
- G - 600 psi Gage/Transducer, (450 psi MROP)+
- H - 1,000 psi Gage/Transducer, (750 psi MROP)+
- J - 2,000 psi Gage/Transducer, (1,500 psi MROP)+
- K - 3,000 psi Gage/Transducer, (2,250 psi MROP)+
- L - 5,000 psi Gage/Transducer, (3,870 psi MROP)+
- M - 7,500 psi Gage/Transducer, (4,740 psi MROP)+
- N - 600 psi Gage/I.S. Transducer, (450 psi MROP)+
- P - 1,000 psi Gage/I.S. Transducer, (750 psi MROP)+
- Q - 2,000 psi Gage/I.S. Transducer, (1,500 psi MROP)+
- R - 3,000 psi Gage/I.S. Transducer, (2,250 psi MROP)+
- S - 5,000 psi Gage/I.S. Transducer, (3,870 psi MROP)+
- T - 7,500 psi Gage/I.S. Transducer, (4,740 psi MROP)+

T Heating & Cooling:

- 0 - None
- 1 - Electric 120 VAC, Single Phase
- 2 - Electric 240 VAC, Single Phase
- 5 - Baffled Removable Jacket, 1/4" FNPT Connections, 450° F (232° C) Max. *

U Gas Inlet:

- 0 - None, (Plugged Connection)
- 1 - Gas Inlet Line with One (1) Manual Valve
- 2 - Gas Inlet Line with Two (2) Manual Valves (Shared Connection)

V Charging Valve:

- 0 - None, (Plugged Connection)
- 1 - 3/8" Manual Charging Valve

W External Thermocouple:

- 0 - None
- 1 - Type "K"
- 2 - Type "J"

IMPORTANT NOTES:

*Temperature limits are suggested. Actual performance will vary.

**In 100 ml and 300 ml size, a Blow Pipe or a Sparge Tube is available, but not both.

+MROP may be further reduced by temperature and number of cycles