GUIDANT

# Model CMAS-203
# Snap Action Float Operated
# Pneumatic Liquid Level Control

Bulletin SSIN009 Issue/Rev. 0.1 (8/17)

The **INVALCO Model CMAS-203** utilizes a stainless steel float and a pneumatic output for control of liquid level. An override feature permits adjustment of set points without disturbing process level.

## Features and Benefits

- Adjustable span to desired level detection point.
- Proven Micro Valve® unit provides long life and ease of maintenance.
- Operation override allows for the adjustment of set points without disturbing process level.
- Steel Body provides long life, reducing cost of ownership.

## Options

- NACE adaptable for use in harsh, corrosive service.
- Dual seal available.

## Specifications

**Float Size**
2” diameter x 10” long

**Float Material**
304 Stainless Steel

**Float Rod**
303 Stainless Steel

**Vessel Connection**
2” MNPT

**Working Pressure**
300 psig. Working pressure of controller is limited by collapse of float ball.

**Temperature Limits**
-20°F to 250°F

## Micro Valve® Specifications

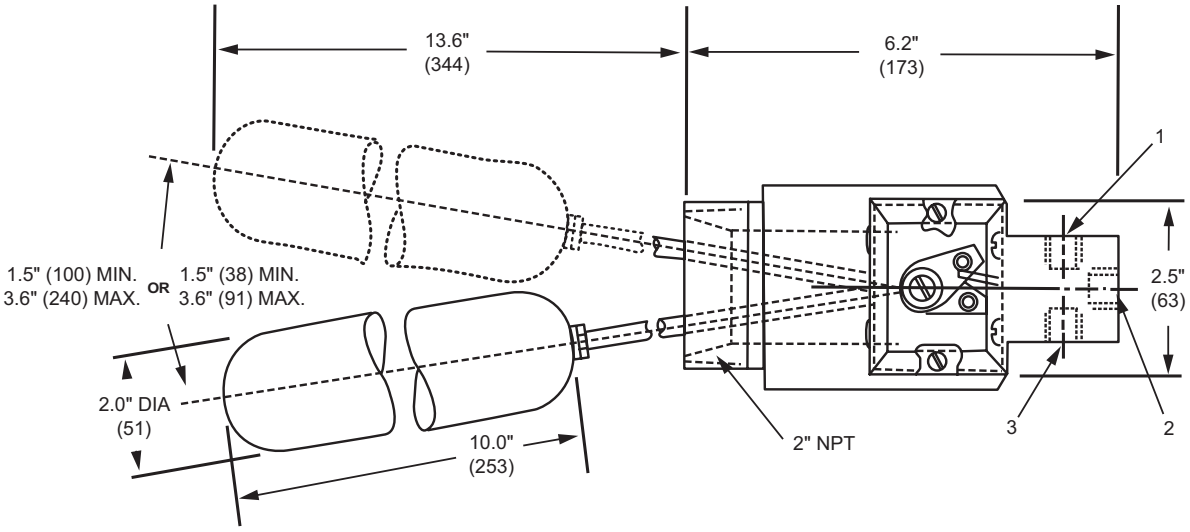
**Model**
316F1, three-way

**Ports**
1/4” FNPT

**Body Material**
Anodized Aluminum

**Orifice**
– Standard 1/16” (90 psi working pressure).
– 1/32" (250 psi working pressure).
– Consult factory for other working pressures.

## Dimensions

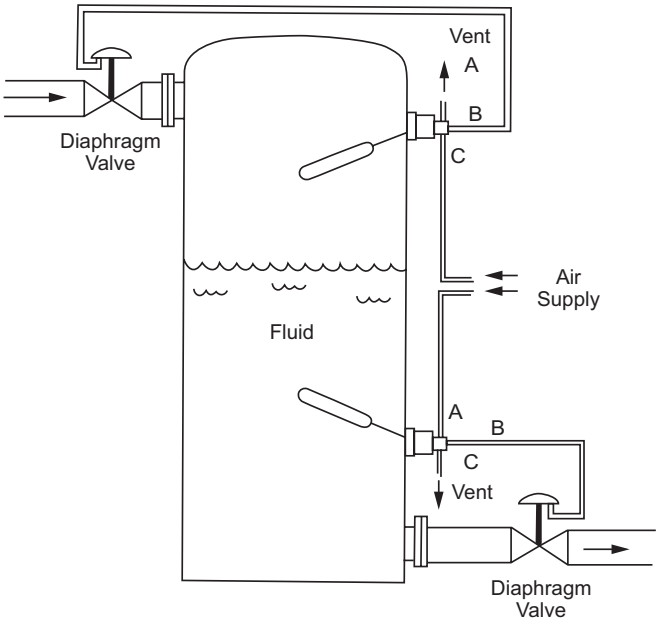


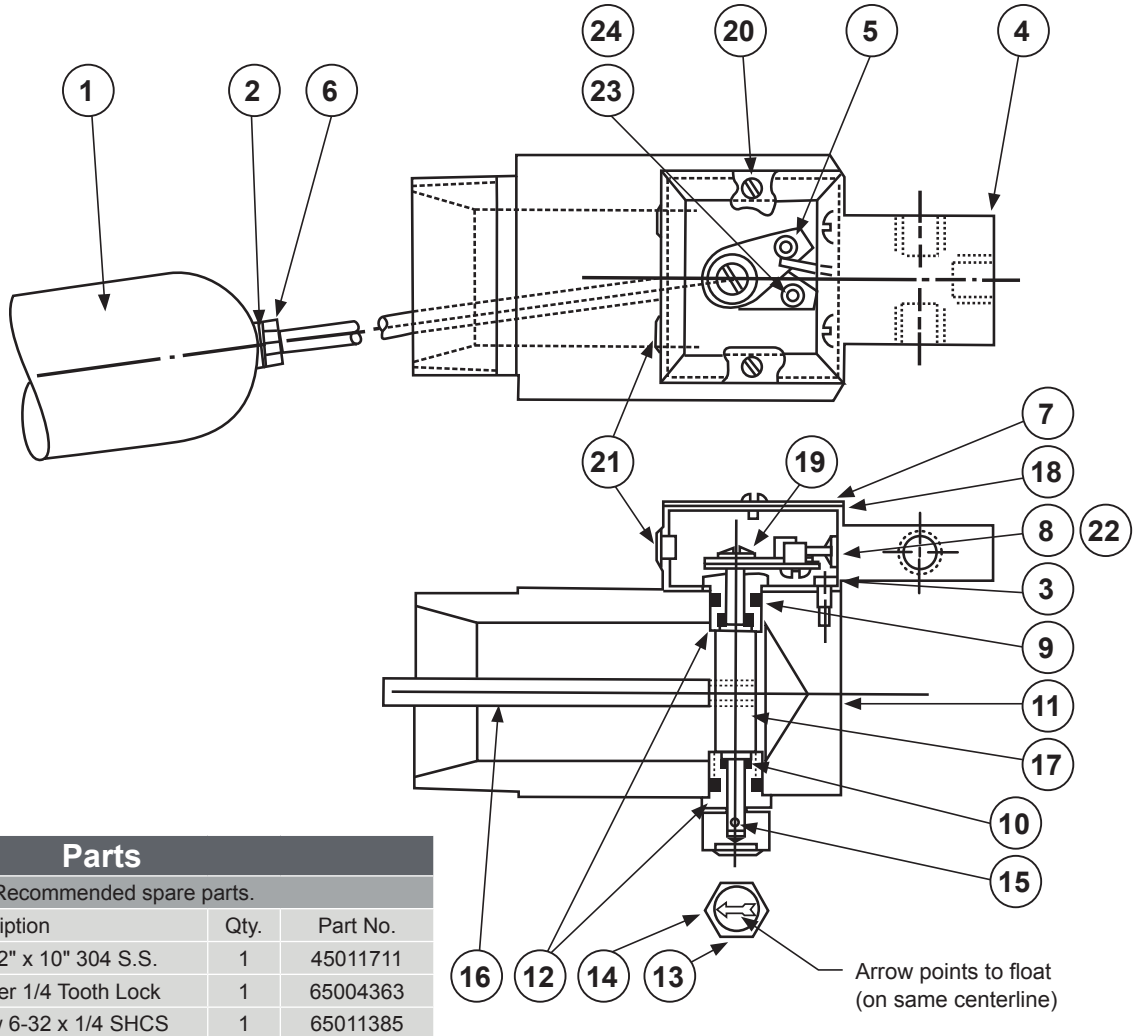

**Dimensions** – Inches to the nearest tenth (millimeters to the nearest whole mm), each independently dimensioned from engineering drawings.

## Three-way Micro Valve Operation

| With Float Level at Low Level | With Float Level at High Level |
|---|---|
| Port 1 Closed to 2 | Port 1 Open to 2 |
| Port 2 Common | Port 2 Common |
| Port 3 Open to 2 | Port 3 Closed to 2 |

## Model CMAS-203 Typical Installation






| Parts | | | | |
|---|---|---|---|---|
| **Parts Key:** | | * Recommended spare parts. | | |
| Item | Notes | Description | Qty. | Part No. |
| 1 | * | Float 2" x 10" 304 S.S. | 1 | 45011711 |
| 2 | | Washer 1/4 Tooth Lock | 1 | 65004363 |
| 3 | | Screw 6-32 x 1/4 SHCS | 1 | 65011385 |
| 4 | * | Micro Valve 316F1-B | 1 | 87000214 |
| 5 | | Arm Assembly | 2 | 79107142 |
| 6 | | Nut 1/4-20 Hex | 1 | 65002175 |
| 7 | | Cover | 1 | 45013435 |
| 8 | | Screw 10-32 x 1/4 SHCS | 2 | 65005945 |
| 9 | * | O-Ring BUN-110-90 | 2 | 67101532 |
| 10 | * | O-Ring BUN-010-90 | 2 | 67101327 |
| 11 | | Body, 2" NPT (CMAS-203) | 1 | 45013463 |
| 12 | | Stuffing Box | 2 | 45013459 |
| 13 | | Position Indicator | 1 | 45013437 |
| 14 | | Operation Check Knob | 1 | 45013460 |
| 15 | | Roll Pin | 1 | 79006139 |
| 16 | | Float Rod | 1 | 45231080 |
| 17 | | Shaft | 1 | 45013458 |
| 18 | | Housing | 1 | 45013461 |
| 19 | | Screw 10-32 x 1/4 BHMS | 1 | 65007905 |
| 20 | | Screw 8-32 x 1/4 BHMS | 2 | 65007856 |
| 21 | | Hole Plug | 2 | 46015996 |
| 22 | | Washer #10 Lock | 2 | 65006945 |
| 23 | | Spacer | 2 | 46002529 |
| 24 | | Screw 8-32 x 5/16 BHMS | 2 | 65007858 |

## Ordering information

To Order: Specify part number and catalog model number.

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| Catalog Model Number | Nominal Connection Size & Type | Materials | | Part Number |
|---|---|---|---|---|
| | | Body | Float | |
| CMAS-203 | 2" NPT | Steel | 304 S.S. | 80003006 |

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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