



# SERFILCO®

Chemical resistant pumps & filters engineered for industry

BULLETIN  
P-412\_D  
10/21/20  
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## SMART DRUM PUMP BATCH CONTROL SYSTEM



**CHEMICAL PACKAGING / PLATING  
WASTE WATER TREATMENT  
CHEMICAL MANUFACTURING  
SEMI-CONDUCTOR  
PHARMACEUTICAL / AGRICULTURE**

### Dispenses liquids:

- safely
- accurately – preset volume
- easily
  - push to start
  - shuts off automatically

SERFILCO Smart Pumps are engineered to control, measure and dispense any volume of liquid from drums, IBCs, tanks and any large storage vessel. They can be used in any industry where batching, chemical packaging or dilution is required to be accurate and efficient.

### OPERATIONS

Simply enter the desired volume of liquid with directional arrows. Press ENTER and the SERFILCO Smart Pump Batch Control System engages the motor, dispenses the required volume, then stops the motor to complete the process. Motor speed control is also included to dispense at the desired flow rate.

### FEATURES

- Measure flow rate and volume
- Turbine Paddle Wheel design
- Multiple languages
- Measures: gallon, liters, cubic meters, milliliters, imperial gallons
- Resettable, Totalizer
- +/- .05% accuracy of reading

### TECHNICAL SPECIFICATIONS

|                               |   |
|-------------------------------|---|
| <b>Available Wetted Parts</b> | Polypropylene & PVDF  |
| <b>Motor Drive</b>            | Open Drip (IP44) or TEFC (IP55)(110v or 230v)                       |
| <b>Discharge Fitting</b>      | 1" (25mm) Hose Barb   |
| <b>Pumping Principle</b>      | Centrifugal   |
| <b>Flow Capacity</b>          | 25 GPM (95 LPM)   |
| <b>Maximum Capacity</b>       | 300 cps / mPAS  |
| <b>Paddle Wheel Materials</b> | PVDF & Ceramic  |
| <b>Immersion Length</b>       | 27" (700mm), 39" (1000mm), 47" (1200mm), 60" (1500mm), 72" (1800mm) |



\*SYSTEM INCLUDES 1 EACH: SERFILCO drum pump Smart Motor, pump tube and batch controller with all necessary connections.

## 110-120V/1/50-60

### Variable Speed Batch Control Systems

| SYSTEM<br>MODEL NUMBER   | MOTOR | PUMP TUBE<br>MATERIAL - LENGTH                 | METER,<br>WETTED COMPONENTS | PRICE<br>CODE NO.                                   |
|--|-------|--|-----------------------------|---|
| BC-ODP-PP-27<br>BC-ODP-PP-39<br>BC-ODP-PP-47<br>BC-ODP-PP-60<br>BC-ODP-PP-72 | ODP   | PP-27"<br>PP-39"<br>PP-47"<br>PP-60"<br>PP-72" | PP, Halar, ceramic          | 52-0400<br>52-0401<br>52-0402<br>52-0403<br>52-0404 |
| BC-ENC-PP-27<br>BC-ENC-PP-39<br>BC-ENC-PP-47<br>BC-ENC-PP-60<br>BC-ENC-PP-72 | TEFC  | PP-27"<br>PP-39"<br>PP-47"<br>PP-60"<br>PP-72" | PP, Halar, ceramic          | 52-0405<br>52-0406<br>52-0407<br>52-0408<br>52-0409 |
| BC-ODP-KY-27<br>BC-ODP-KY-39<br>BC-ODP-KY-47                                 | ODP   | PVDF-27"<br>PVDF-39"<br>PVDF-47"               | PVDF, Halar, ceramic        | 52-0410<br>52-0411<br>52-0412                       |
| BC-ENC-KY-27<br>BC-ENC-KY-39<br>BC-ENC-KY-47                                 | TEFC  | PVDF-27"<br>PVDF-39"<br>PVDF-47"               | PVDF, Halar, ceramic        | 52-0413<br>52-0414<br>52-0415                       |

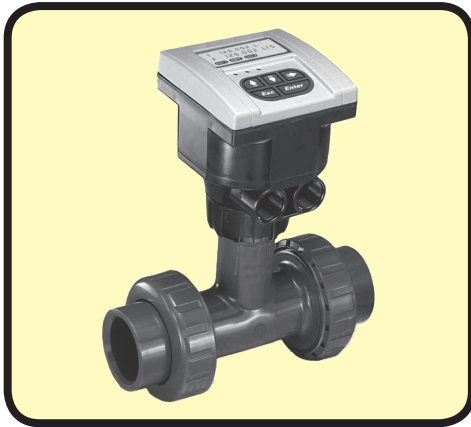
## 220-240V/1/50-60

### Variable Speed Batch Control Systems

| SYSTEM<br>MODEL NUMBER  | MOTOR | PUMP TUBE<br>MATERIAL - LENGTH                 | METER,<br>WETTED COMPONENTS | PRICE<br>CODE NO.                                   |
|---|-------|--|-----------------------------|---|
| BC2-ODP-PP-27<br>BC2-ODP-PP-39<br>BC2-ODP-PP-47<br>BC2-ODP-PP-60<br>BC2-ODP-PP-72 | ODP   | PP-27"<br>PP-39"<br>PP-47"<br>PP-60"<br>PP-72" | PP, Halar, ceramic          | 52-0416<br>52-0417<br>52-0418<br>52-0419<br>52-0420 |
| BC2-ENC-PP-27<br>BC2-ENC-PP-39<br>BC2-ENC-PP-47<br>BC2-ENC-PP-60<br>BC2-ENC-PP-72 | TEFC  | PP-27"<br>PP-39"<br>PP-47"<br>PP-60"<br>PP-72" | PP, Halar, ceramic          | 52-0421<br>52-0422<br>52-0423<br>52-0424<br>52-0425 |
| BC2-ODP-KY-27<br>BC2-ODP-KY-39<br>BC2-ODP-KY-47                                   | ODP   | PVDF-27"<br>PVDF-39"<br>PVDF-47"               | PVDF, Halar, ceramic        | 52-0426<br>52-0427<br>52-0428                       |
| BC-ENC-KY-27<br>BC-ENC-KY-39<br>BC-ENC-KY-47                                      | TEFC  | PVDF-27"<br>PVDF-39"<br>PVDF-47"               | PVDF, Halar, ceramic        | 52-0429<br>52-0430<br>52-0431                       |



## MODEL F200 BATTERY POWERED DIGITAL FLOW METER / TOTALIZER



SERFILCO Model F200 Digital Flow Meters utilize proven paddle wheel design for greater accuracy when measuring low to medium viscosity liquids. The separate flow chamber and removable electronic module provide maximum chemical resistance to meet the toughest applications. Nema 4 (IP65) enclosure. Measuring range 2-200 GPM (7.5 - 757 LPM). Temperature range 32°F - 217°F (0°C - 100°C).

### FLOW METER KITS

Flow meter and flow chamber with discharge nozzle and 1" hose barb inlet.

### FLOW METERS

Flow meter and flow chamber with 1" hose barb inlet & outlet.

- Measure flow rate and volume with resettable totalizer.
- Two line Alphanumeric Display Shows Flow Rate & Total Flow Together
- Menu – guided user friendly operating system allows for customized setting. Equipped with EE Prom electronics.
- $\pm 0.61\%$  Full Scale



### FLOW METERS KITS

| MODEL NO.  | WETTED MATERIALS       | PRICE CODE NO. |
|------------|------------------------|----------------|
| F200PP-KIT | PP, Halar, ceramic     | 52-0160        |
| F200KY-KIT | PVDF, Halar, ceramic   | 52-0161        |
| F200SS-KIT | 316 SS, Halar, ceramic | 52-0162        |



### FLOW METERS

| MODEL NO. | WETTED MATERIALS       | PRICE CODE NO. |
|-----------|------------------------|----------------|
| F200PP-B  | PP, Halar, ceramic     | 52-0170        |
| F200KY-B  | PVDF, Halar, ceramic   | 52-0171        |
| F200SS-B  | 316 SS, Halar, ceramic | 52-0172        |

## BATTERY POWERED ELECTRONIC FLOW METER



- Self-contained microprocessor with LCD readout
- $\pm 1.5\%$  accuracy,  $\pm 0.3\%$  repeatability
- Measures flow rate and total flow separately  
Consult Sales Dept. for other registers.
- 316 stainless steel, nylon or PVDF
- Factory calibrated: 3 - 50 U.S. GPM or 10 - 190 LPM

SERFILCO Electronic Digital Flow Meters combine microprocessor technology with rugged and accurate turbine flow sensor design. Power is supplied by 2 lithium batteries (included) that provide an average 2,000 hours of intermittent use. LCD display automatically turns on when flow starts and off four minutes after flow ceases. Standard connection is 1" NPT. All electronics are enclosed under splash-tight gasketed acrylic cover. Pressure drop 2 psig @ 30 GPM (1.4 BAR @ 114 LPM) and 5 psig @ 50 GPM (3.5 BAR @ 190 LPM). Dimensions: 4" x 2.5" x 2" (10.2 x 6.4 x 5.1 cm)

| MODEL NO. | WETTED MATERIALS                         | PRICE CODE NO. |
|-----------|--|----------------|
| DMSS-1    | Stainless steel, PVDF, ferrite, ceramic  | 52-0998 G      |
| DMN-1     | Nylon, ferrite, ceramic, stainless steel | 52-0999 G      |
| DMKY-1    | PVDF, ceramic                            | 52-0994 G      |

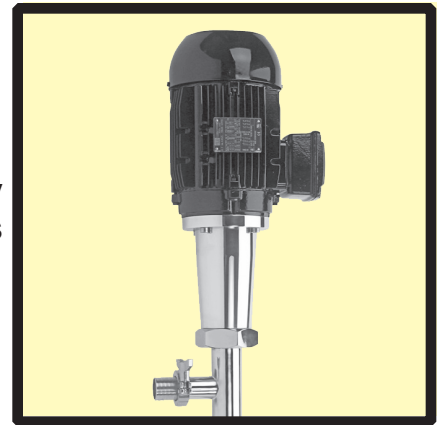
For LPM calibration change **G** to **L** in Price Code Number



**SERFILCO®** offers a complete product line of pumps for fast, safe and convenient transfer and dispensing of liquids.



**SERFILCO®** Smart Drum Pump  
Batch and flow control systems.



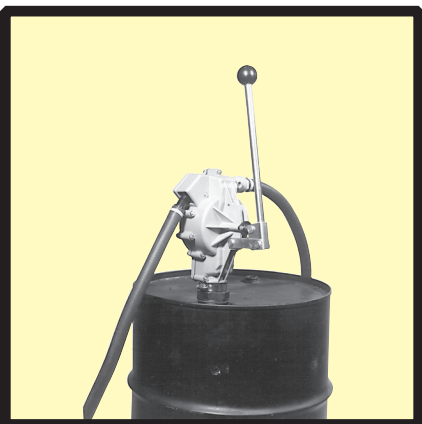
**SERFILCO®** High Viscosity  
Drum Pumps



**SERFILCO®** Series 'DP' Drum Pumps



**SERFILCO®** Barrel and Container  
Pumps



**SERFILCO®** Series 'HP'  
Hand Dispensing Pump