

# AC-250 Diaphragm Meter

The standard for measuring a variety of hydrocarbon gases at pressures up to 10 PSIG and flow rates up to 250 cubic feet per hour

## Features

- Die-cast aluminum case
- Oil-impregnated, self-lubricating bushings
- Molded, convoluted diaphragms for smooth operation and long life
- Rigid, reinforced flag rods for positive alignment and sustained accuracy
- Graphite-filled phenolic valves to minimize wear
- Long-life, low friction, grommet seals
- Single coat polyester primer with high solids polyurethane top coat
- Security seals that indicate tampering

## Advantages

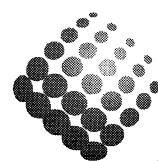
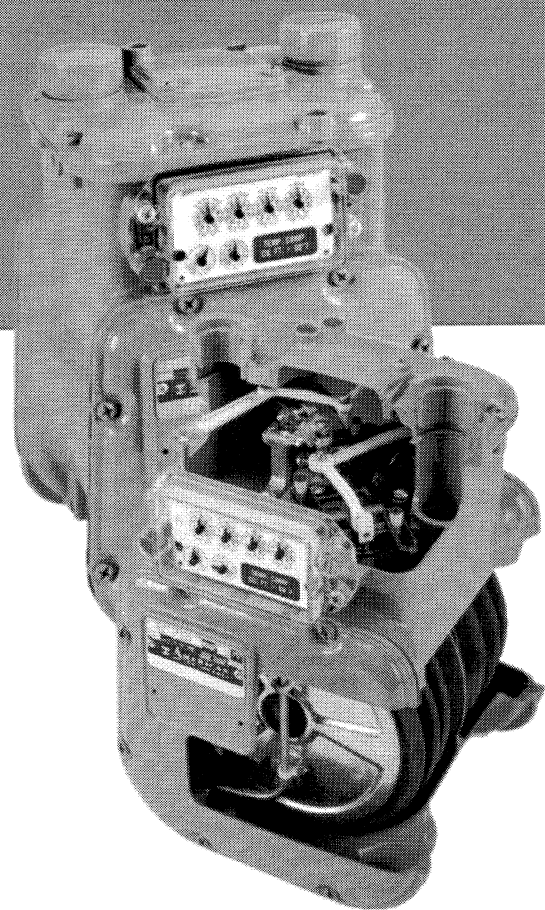
- Temperature compensation available from -30°F to 140°F (-34°C to 60°C)
- 250 SCFH (7.1 m<sup>3</sup>/h) (0.60 specific gravity gas) at 1/2-inch W.C. differential
- AMR/AMI compatibility
- Meets ANSI B109.1 specifications
- Measurement Canada accredited

## Applications

The Elster American Meter class AC-250 is the industry's most cost-effective gas meter for residential and small commercial applications. It is unequalled for accuracy retention and for life cycle maintenance economies.

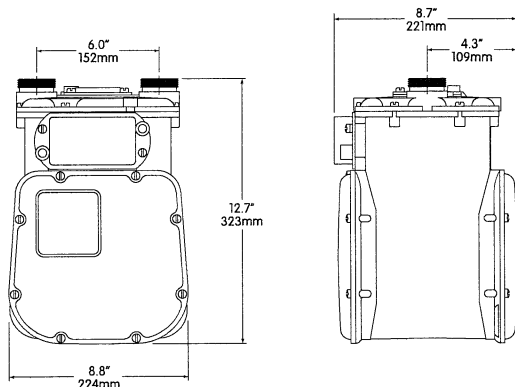
## Options

- Regular or Temperature Compensated
- Pointer or odometer index
- 1ft<sup>3</sup>, 2ft<sup>3</sup>, or 0.05m<sup>3</sup> drive
- 10 LT, 20 LT, 30 LT, and other connection sizes
- 5 or 10 PSIG (345 or 690 mbar) Maximum Allowable Operating Pressure (MAOP)
- Pressure compensating indexes
- Standard or UV protected index covers
- Meter bars
- Connection sets
- Remote Volume Pulsers



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# AC-250 Diaphragm Meter Weight = 12 lbs



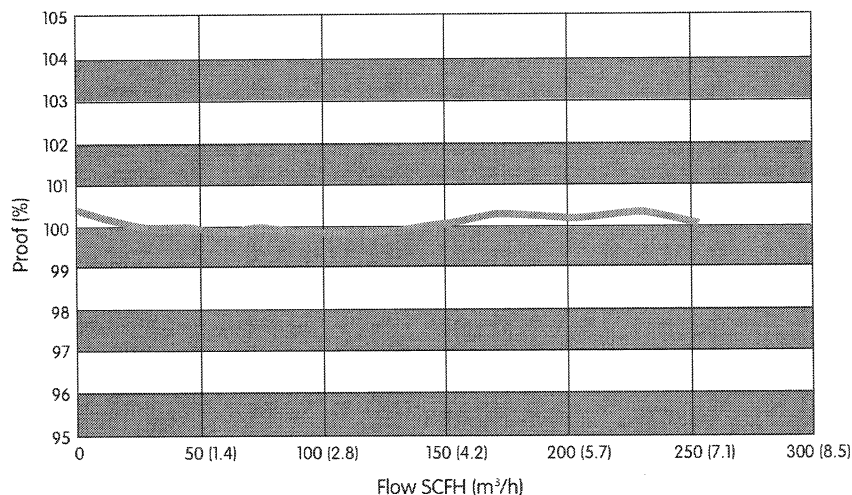
## Capacities (0.60 specific gravity gas)

Line Pressure PSIG (mbar)	Differential Inches W.C. (mbar)	SCFH (m³/h)
0.25 (17)	1/2 (1.2)	250 <sup>1,2</sup> (7.1)
1 (69)	2 (5)	583 (16.5)
2 (138)	2 (5)	600 (17.0)
5 (345)	2 (5)	656 (18.8)
10 (690)	2 (5)	742 (21.0)

1 - Propane - 158 SCFH (4.5 m³/h)

2 - Butane - 138 SCFH (3.9 m³/h)

## AC-250 Proof Curve



## About Elster Group

A world leader in advanced metering infrastructure, integrated metering, and utilization solutions to the gas, electricity and water industries. Elster's metering and system solutions reflect over 170 years of knowledge and experience in measuring precious resources and energy.

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EAM-DS3535.6-EN-P - November 2008  
Supersedes EAM-DS3535.5-EN-P

# AC-630 Diaphragm Meter

Designed to meter a variety of gases for large residential/commercial/small industrial applications at pressures up to 25 PSIG and flow rates to 630 SCFH at 1/2" W.C. differential pressure

## Features

- Die-cast aluminum case
- Oil-impregnated, self-lubricating bushings
- Molded, convoluted diaphragms for smooth operation and long life
- Rigid, reinforced flag rods for positive alignment and sustained accuracy
- Graphite-filled phenolic valves to minimize wear
- Long-life, low friction, grommet seals
- Single coat polyester primer with high solids polyurethane top coat
- Security seals that indicate tampering

## Advantages

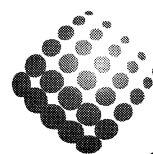
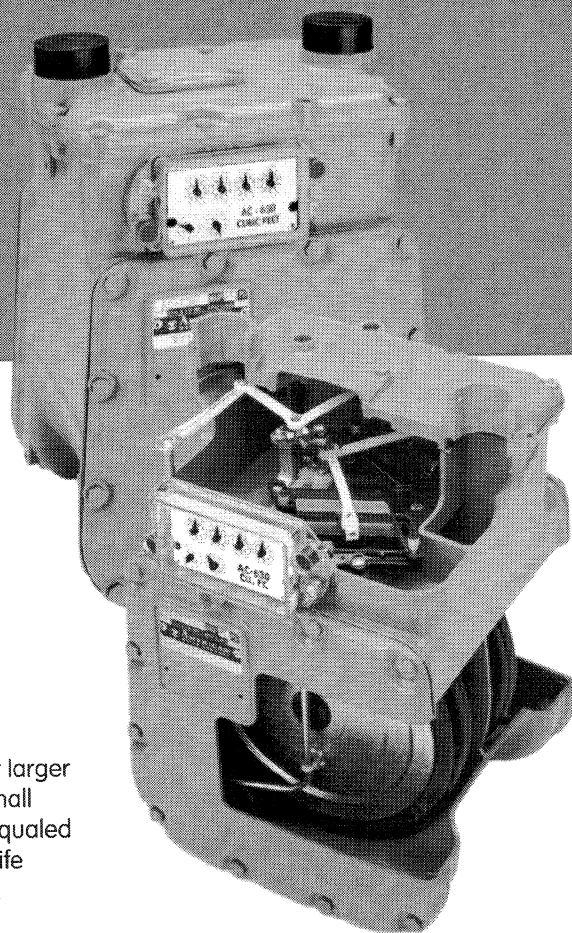
- Temperature compensation available from -30°F to 140°F (-34°C to 60°C)
- 630 SCFH (17.8 m<sup>3</sup>/h) (0.60 specific gravity gas) at 1/2-inch W.C. differential
- AMI/AMR compatibility
- Meets ANSI B109.2 specifications
- Measurement Canada accredited

## Applications

The AC-630 is ideally suited for larger residential, commercial and small industrial installations. It is unequaled for accuracy retention and for life cycle maintenance economies.

## Options

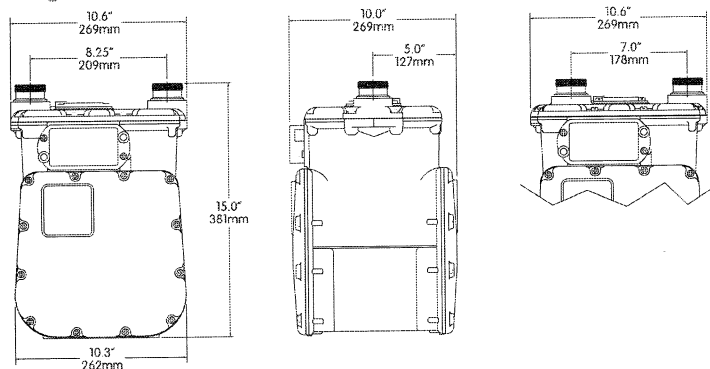
- Regular or Temperature Compensated
- Pointer or odometer index
- 2ft<sup>3</sup> or 0.05m<sup>3</sup> drive
- 20 LT, 30 LT, 45 LT and other connection sizes
- 25 PSIG (1724 mBar) Maximum Allowable Operating Pressure (MAOP)
- Pressure compensating indexes
- Standard or UV protected index covers
- Meter bars
- Connection sets
- Remote Volume Pulsers
- 7" or 8.25" center-to-center connections



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## AC-630 Diaphragm Meter

Weight = 21 lbs

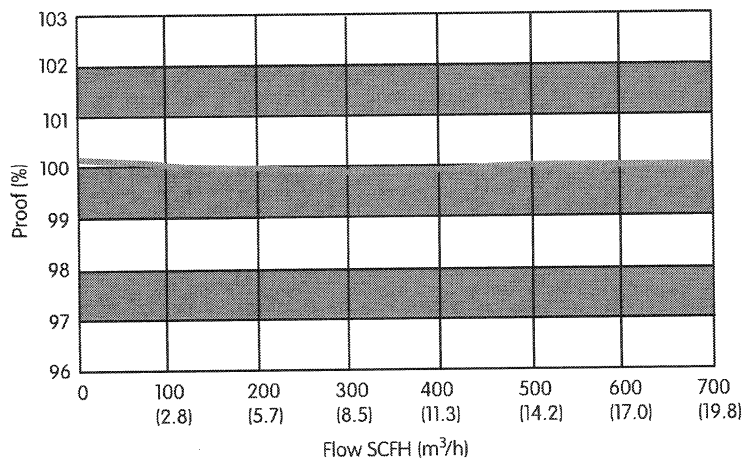


### Capacities (0.60 specific gravity gas)

Line Pressure PSIG (mbar)	Differential Inches W.C. (mbar)	SCFH (m <sup>3</sup> /h)
0.25 (17)	1/2 (1.2)	630 <sup>1,2</sup> (17.8)
0.25 (17)	2 (5)	1320 (37.4)
1 (69)	2 (5)	1340 (37.9)
2 (138)	2 (5)	1390 (39.4)
5 (345)	2 (5)	1515 (42.9)
10 (690)	2 (5)	1710 (48.4)
15 (1035)	2 (5)	1890 (53.5)
20 (1380)	2 (5)	2010 (56.9)
25 (1724)	2 (5)	2160 (61.2)

1 - Propane - 397 cfh (11.2 m<sup>3</sup>/h)  
2 - Butane - 347 cfh (9.8 m<sup>3</sup>/h)

### AC-630 Proof Curve



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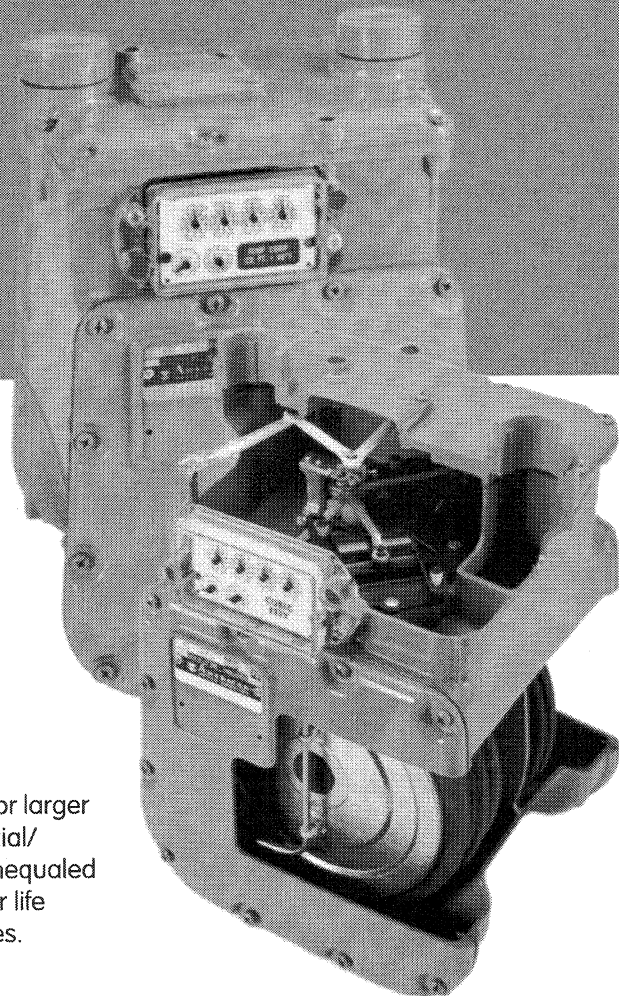
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EAM-DS3550.7-EN-P - November 2008  
Supersedes EAM-DS3550.6-EN-P



# AL-425 Diaphragm Meter



Designed to meter a variety of gases for large residential/small commercial applications at pressures up to 25 PSIG and flow rates to 425 SCFH at 1/2" W.C. differential pressure

## Features

- Die-cast aluminum case
- Oil-impregnated, self-lubricating bushings
- Molded, convoluted diaphragms for smooth operation and long life
- Rigid, reinforced flag rods for positive alignment and sustained accuracy
- Graphite-filled phenolic valves to minimize wear
- Long-life, low friction, grommet seals
- Single coat polyester primer with high solids polyurethane top coat
- Security seals that indicate tampering

## Advantages

- Temperature compensation available from -30°F to 140°F (-34°C to 60°C)
- 425 SCFH (12.0 m<sup>3</sup>/h) (0.60 specific gravity gas) at 1/2-inch W.C. differential
- AMI/AMR compatibility
- Meets ANSI B109.1 specifications
- Measurement Canada accredited

## Applications

The AL-425 is ideally suited for larger residential or small commercial/industrial installations. It is unequalled for accuracy retention and for life cycle maintenance economies.

## Options

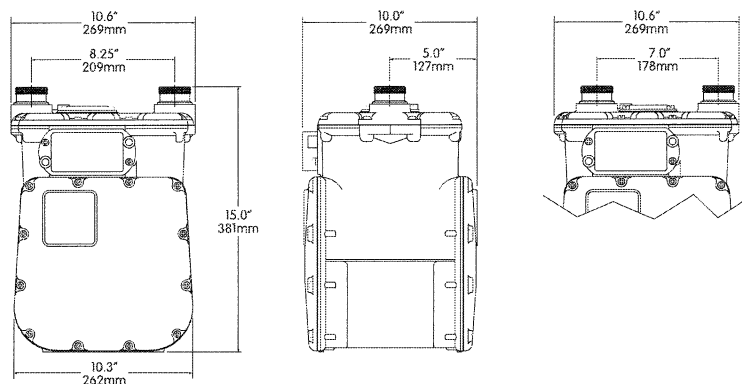
- Regular or Temperature Compensated
- Pointer or odometer index
- 2ft<sup>3</sup> or 0.05m<sup>3</sup> drive
- 20 LT, 30 LT, 45 LT and other connection sizes
- 10 or 25 PSIG (690 or 1724 mBar) Maximum Allowable Operating Pressure (MAOP)
- Pressure compensating indexes
- Standard or UV protected index covers
- Meter bars
- Connection sets
- Remote Volume Pulsers
- 7" or 8.25" center-to-center connections



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## AL-425 Diaphragm Meter

Weight = 21 lbs



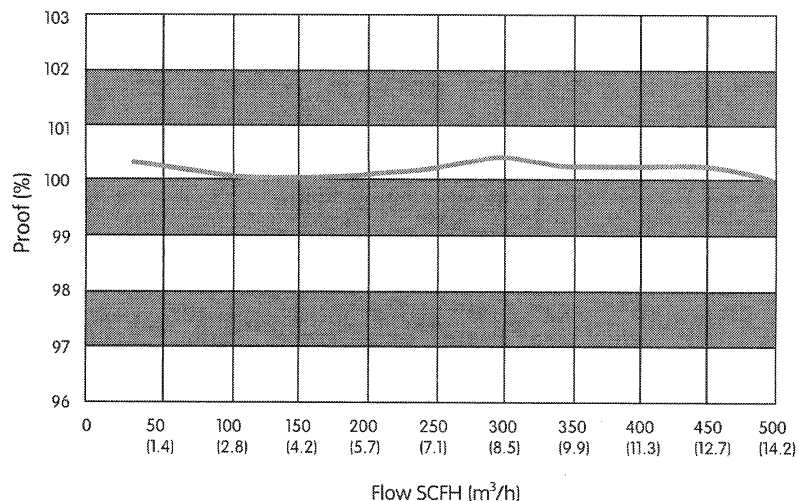
### Capacities (0.60 specific gravity gas)

Line Pressure PSIG (mbar)	Differential Inches W.C. (mbar)	SCFH (m <sup>3</sup> /h)
0.25 (17)	1/2 (1.2)	425 <sup>1/2</sup> (12.0)
0.25 (17)	2 (5)	898 (25.4)
1 (69)	2 (5)	920 (26.1)
2 (138)	2 (5)	955 (27.0)
5 (345)	2 (5)	1038 (29.4)
10 (690)	2 (5)	1154 (32.7)
15 (1035)	2 (5)	1269 (35.9)
20 (1380)	2 (5)	1367 (38.7)
25 (1724)	2 (5)	1462 (41.4)

1 - Propane - 268 cfh (7.6 m<sup>3</sup>/h)

2 - Butane - 234 cfh (6.6 m<sup>3</sup>/h)

### AL-425 Proof Curve



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EAM-DS3520.5-EN-P - November 2008  
Supersedes EAM-DS3520.4-EN-P

# AL-1000 Diaphragm Meter

Elster American Meter's aluminumcase meters are designed to provide positive displacement accuracy for industrial or commercial loads.

## Features

- Die-cast aluminumcase
- Oil-impregnated, self-lubricating bushings
- Molded, convoluted diaphragms for smooth operation and long life
- Rigid, reinforced flag rods for positive alignment and sustained accuracy
- Graphite-filled phenolic valves to minimize wear
- Long-life, low friction, grommet seals
- Single coat polyester primer with high solids polyurethane top coat
- Security seals that indicate tampering

## Advantages

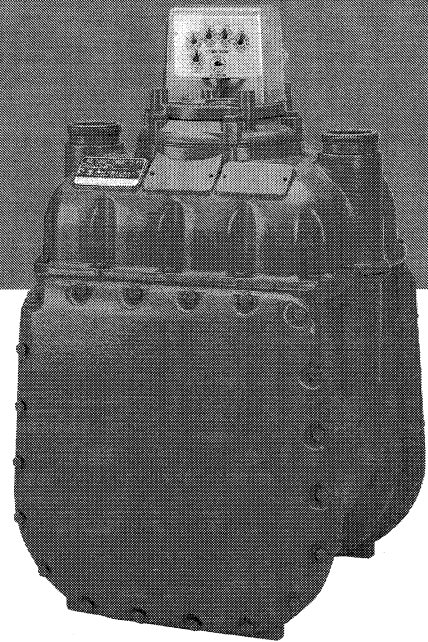
- AMR/AMI Compatibility
- Temperature Compensation available from -30°F to 140°F (-34°C to 60°C)
- Meets ANSI B109.2 specifications
- Measurement Canada accredited
- 1000 SCFH (28.3m<sup>3</sup>/h) (0.60 specific gravity gas) at ½-inch W.C. differential

## Applications

The AL-1000 meter is ideally suited for commercial and industrial installations. It is unequalled for accuracy retention and for life cycle maintenance economies.

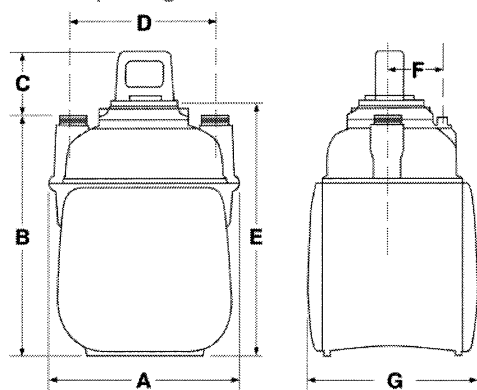
## Options

- Regular or Temperature Compensated
- Pointer or odometer index
- 5ft<sup>3</sup>, 10ft<sup>3</sup>, or 0.1m<sup>3</sup> drive
- 30LT, 45LT, 60LT, 100LT, 1-1 ½" NPT and other connection sizes
- Pressure compensating indexes
- Standard or UV protected index covers
- Remote volume pulsers
- Connection sets
- 25 or 100PSIG (170 or 6895 mbar) Maximum Allowable Operating Pressure (MAOP)



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## AL-1000 Diaphragm Meter



Dimensions - Inches (mm)

MAOP (psig)	A	B	C	D	E	F	G	Weight (lbs.)	Connections
25	14.12 (359)	18.50 (470)	4.81 (122)	11.00 (279)	19.12 (486)	4.38 (111)	13.25 (337)	54	1-1/2"-45 LT 1-1/2" NPT (F)
25	14.12 (359)	19.25 (489)	4.06 (103)	11.00 (279)	19.12 (486)	4.38 (111)	13.25 (337)	54	2"-100 LT
25	14.12 (359)	20.25 (514)	3.06 (78)	11.00 (279)	19.12 (486)	4.38 (111)	13.25 (337)	54	#5 Sprague
100	14.62 (372)	18.75 (476)	5.19 (132)	11.00 (279)	19.75 (502)	4.38 (111)	16.62 (422)	78	1-1/2" NPT (F)

## Capacities (0.60 specific gravity gas)

Line Pressure PSIG (mbar)	Differential Inches W.C. (mbar)	SCFH (m³/h)
0.25 (17)	1/2 (1.2)	1000 (28.3)
0.25 (17)	2 (5)	2200 (62.3)
5 (345)	2 (5)	2700 (76.5)
10 (690)	2 (5)	3400 (96.3)
15 (1035)	2 (5)	3700 (104.8)
20 (1379)	2 (5)	4100 (116.1)
25 (1724)	2 (5)	4600 (130.3)
30 <sup>1</sup> (2069)	2 (5)	5000 (141.6)
50 <sup>1</sup> (3447)	2 (5)	6600 (186.9)
75 <sup>1</sup> (5171)	2 (5)	8400 (237.9)
100 <sup>1</sup> (6895)	2 (5)	10100 (286.0)

<sup>1</sup> - 100 psig model only

## About Elster Group

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EAM-DS3815-EN-P - September 2009



# AL-800 Diaphragm Meter

Elster American Meter's aluminumcase meters are designed to provide positive displacement accuracy for industrial or commercial loads.

## Features

- Die-cast aluminumcase
- Oil-impregnated, self-lubricating bushings
- Molded, convoluted diaphragms for smooth operation and long life
- Rigid, reinforced flag rods for positive alignment and sustained accuracy
- Graphite-filled phenolic valves to minimize wear
- Long-life, low friction, grommet seals
- Single coat polyester primer with high solids polyurethane top coat
- Security seals that indicate tampering

## Advantages

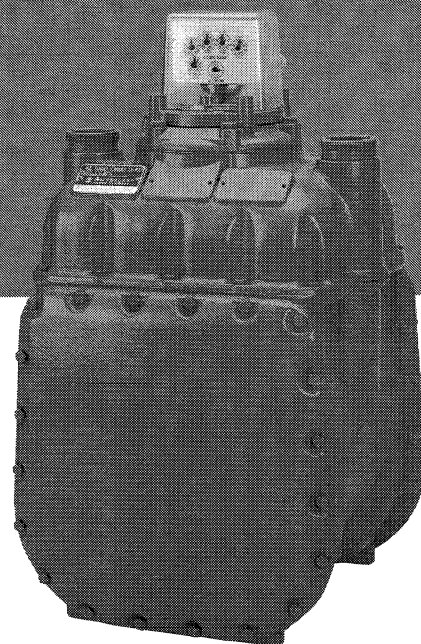
- AMR/AMI Compatibility
- Temperature Compensation available from -30°F to 140°F (-34°C to 60°C)
- Meets ANSI B109.2 specifications
- Measurement Canada accredited
- 800 SCFH (22.7m<sup>3</sup>/h) (0.60 specific gravity gas) at ½-inch W.C. differential

## Applications

The AL-800 meter is ideally suited for commercial and industrial installations. It is unequalled for accuracy retention and for life cycle maintenance economies.

## Options

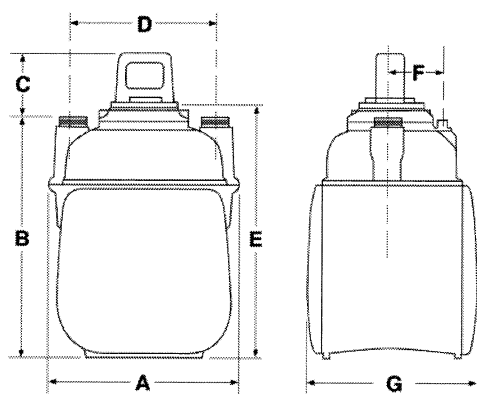
- Regular or Temperature Compensated
- Pointer or odometer index
- 5ft<sup>3</sup>, 10ft<sup>3</sup>, or 0.1m<sup>3</sup> drive
- 30LT, 45LT, 60LT, 100LT, 1-1 ½" NPT and other connection sizes
- Pressure compensating indexes
- Standard or UV protected index covers
- Remote volume pulsers
- Connection sets
- 20 or 100PSIG (140 or 6895 mbar) Maximum Allowable Operating Pressure (MAOP)



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## AL-800 Diaphragm Meter



Dimensions - Inches (mm)

MAOP (psig)	A	B	C	D	E	F	G	Weight (lbs.)	Connections
20	14.12 (359)	18.50 (470)	4.81 (122)	11.00 (279)	19.12 (486)	4.38 (111)	13.25 (337)	50	1-1/4"-30 LT 1-1/2"-45 LT #3-4 Sprague
20	14.12 (359)	19.19 (487)	4.19 (106)	11.00 (279)	19.12 (486)	4.38 (111)	13.25 (337)	50	1-1/2" NPT (F)
100	14.62 (372)	18.75 (476)	5.19 (132)	11.00 (279)	19.75 (502)	4.38 (111)	16.62 (422)	70	1-1/2" NPT (F)

## Capacities (0.60 specific gravity gas)

Line Pressure PSIG (mbar)	Differential Inches W.C. (mbar)	SCFH (m³/h)
0.25 (17)	1/2 (1.2)	800 (22.7)
0.25 (17)	2 (5)	1700 (48.1)
5 (345)	2 (5)	2100 (59.5)
10 (690)	2 (5)	2600 (73.6)
15 (1035)	2 (5)	2800 (79.3)
20 (1379)	2 (5)	3200 (90.6)
25¹ (1724)	2 (5)	3500 (99.1)
30¹ (2069)	2 (5)	3800 (107.6)
50¹ (3447)	2 (5)	5100 (144.4)
75¹ (5171)	2 (5)	6500 (184.1)
100¹ (6895)	2 (5)	7800 (220.9)

1 - 100 psig model only

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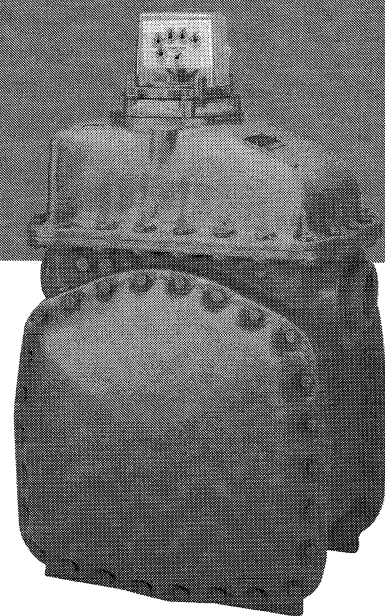
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EAM-DS3817-EN-P - September 2009

# AL-1400 Diaphragm Meter

## Remanufactured Meter

Elster American Meter's aluminumcase meters are designed to provide positive displacement accuracy for industrial or commercial loads



### Features

- Die-cast aluminumcase
- Oil-impregnated, self-lubricating bushings
- Molded, convoluted diaphragms for smooth operation and long life
- Rigid, reinforced flag rods for positive alignment and sustained accuracy
- Graphite-filled phenolic valves to minimize wear
- Long-life, low friction, grommet seals
- Security seals that indicate tampering

### Advantages

- Temperature compensation available from -30°F to 140°F (-34°C to 60°C)
- 1400 SCFH (39.6 m<sup>3</sup>/h) (0.60 specific gravity gas) at 1/2-inch W.C. differential
- AMR/AMI compatibility
- Meets ANSI B109.2 specifications

### Applications

The AL-1400 is ideally suited for commercial and industrial installations. It is unequalled for accuracy retention and for life cycle maintenance economies.

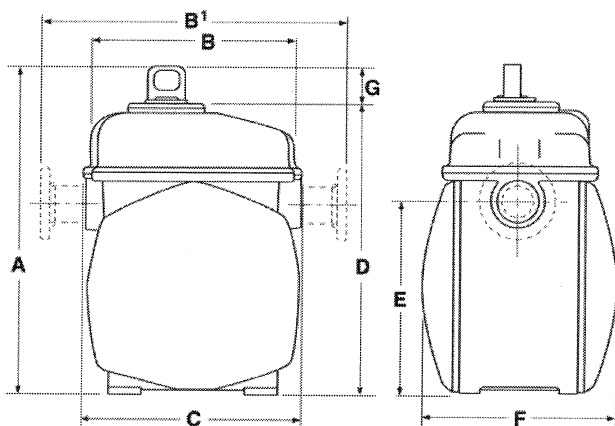
### Options

- Regular or Temperature Compensated
- Pointer or odometer index
- 5ft<sup>3</sup>, 10ft<sup>3</sup>, or 0.1m<sup>3</sup> drive
- 2" NPT, 3" NPT and 3" flanged connection sizes
- 100 PSIG (6895 mbar) Maximum Allowable Operating Pressure (MAOP)
- Pressure compensating indexes
- Standard or UV protected index covers
- Remote Volume Pulsers



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## AL-1400 Diaphragm Meter



Dimensions - Inches (mm)

MAOP (PSIG)	A	B	B'	C	D	E	F	G	Weight (lbs.)	Connections
100	28.88 (734)	17.25 (439)		17.38 (442)	24.62 (626)	15.00 (381)	15.88 (404)	4.25 (108)	120	2" NPT (F)
100	28.88 (734)	17.25 (439)		15.75 (401)	24.62 (626)	15.00 (381)	15.88 (404)	4.25 (108)	120	3" NPT (F)
100	28.88 (734)		28.00 (712)		24.62 (626)	15.00 (381)	15.88 (404)	4.25 (108)	132	3" Flanged

## Capacities (0.60 specific gravity gas)

Line Pressure PSIG (mbar)	Differential Inches W.C. (mbar)	SCFH (m³/h)
0.25 (17)	1/2 (1.2)	1400 (39.6)
0.25 (17)	2 (5)	3000 (85.0)
5 (345)	2 (5)	3700 (104.8)
10 (690)	2 (5)	4600 (130.3)
15 (1035)	2 (5)	5000 (141.6)
20 (1379)	2 (5)	5600 (158.6)
25 (1724)	2 (5)	6200 (175.6)
30 (2069)	2 (5)	6800 (192.6)
50 (3447)	2 (5)	9000 (254.9)
75 (5171)	2 (5)	11500 (325.6)
100 (6895)	2 (5)	13800 (390.8)

## About Elster Group

A world leader in advanced metering infrastructure, integrated metering, and utilization solutions to the gas, electricity and water industries. Elster's metering and system solutions reflect over 170 years of knowledge and experience in measuring precious resources and energy.

Elster provides solutions and advanced technologies to help utilities more easily, efficiently and reliably obtain and use advanced metering intelligence to improve customer service, enhance operational efficiency, and increase revenues. Elster's AMI solutions enable utilities to cost-effectively generate, deliver, manage, and conserve the life-essential resources of gas, electricity, and water.

Elster has a staff of over 7,500 serving customers globally in North America, Central America, South America, Europe, Asia, Africa and the Middle East.

ISO 9001:2000



Certification No. 006697

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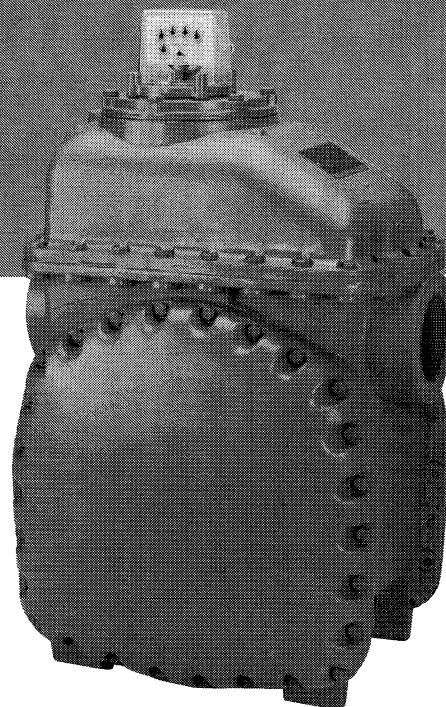
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EAM-DS3818-EN-P - September 2009

# AL-2300 Diaphragm Meter

## Remanufactured Meter

Elster American Meter's aluminumcase meters are designed to provide positive displacement accuracy for industrial or commercial loads



### Features

- Die-cast aluminumcase
- Oil-impregnated, self-lubricating bushings
- Molded, convoluted diaphragms for smooth operation and long life
- Rigid, reinforced flag rods for positive alignment and sustained accuracy
- Graphite-filled phenolic valves to minimize wear
- Long-life, low friction, grommet seals
- Security seals that indicate tampering

### Advantages

- Temperature compensation available from -30°F to 140°F (-34°C to 60°C)
- 2300 SCFH (65.1 m<sup>3</sup>/h) (0.60 specific gravity gas) at 1/2-inch W.C. differential
- AMR/AMI compatibility
- Meets ANSI B109.2 specifications

### Applications

The AL-2300 is ideally suited for commercial and industrial installations. It is unequalled for accuracy retention and for life cycle maintenance economies.

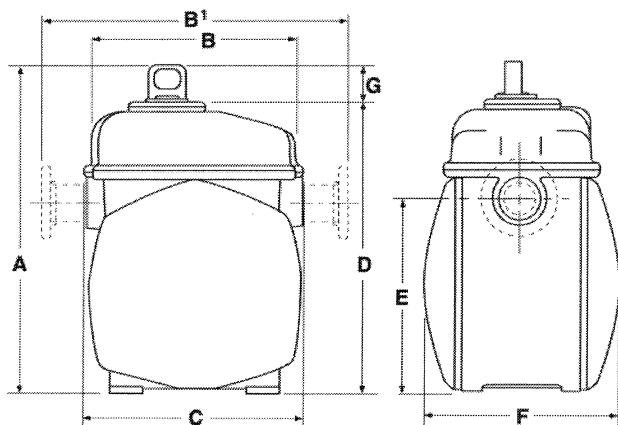
### Options

- Regular or Temperature Compensated
- Pointer or odometer index
- 10ft<sup>3</sup>, 100ft<sup>3</sup>, 0.1m<sup>3</sup> or 1.0m<sup>3</sup> drive
- 4" NPT or 4" flanged connection sizes
- 100 PSIG (6895 mbar) Maximum Allowable Operating Pressure (MAOP)
- Pressure compensating indexes
- Standard or UV protected index covers
- Remote Volume Pulsers



**elster**  
American Meter

## AL-2300 Diaphragm Meter



Dimensions - Inches (mm)

MAOP (psig)	A	B	B <sup>1</sup>	C	D	E	F	G	Weight (lbs.)	Connections
100	33.31 (846)	21.00 (534)		21.62 (550)	29.06 (739)	17.88 (455)	18.25 (464)	4.25 (108)	175	4" NPT(F)
100	33.31 (846)		32.00 (813)	21.62 (550)	29.06 (739)	17.88 (455)	18.25 (464)	4.25 (108)	192	4" Flanged

## Capacities (0.60 specific gravity gas)

Line Pressure PSIG (mbar)	Differential Inches W.C. (mbar)	SCFH (m <sup>3</sup> /h)
0.25 (17)	1/2 (1.2)	2300 (65.1)
0.25 (17)	2 (5)	5000 (141.6)
5 (345)	2 (5)	6200 (175.6)
10 (690)	2 (5)	7700 (218.1)
15 (1035)	2 (5)	8400 (237.9)
20 (1379)	2 (5)	9400 (266.2)
25 (1724)	2 (5)	10400 (294.5)
30 (2069)	2 (5)	11400 (322.8)
50 (3447)	2 (5)	15000 (424.8)
75 (5171)	2 (5)	19100 (540.9)
100 (6895)	2 (5)	23000 (651.4)

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