



Badger Meter

Recordall® Disc Series Meters Physical and Operating Characteristics



RECORDALL DISC SERIES METERS

SIZES

5/8", 5/8" x 3/4"
3/4", 3/4" SL, 3/4" x 1"
1"
1 1/2" ELL, ELS, HEX
2" ELL, ELS, HEX

OPERATING RANGE

1/8 to 25 GPM
3/8 to 35 GPM
1/2 to 55 GPM
1 1/4 to 120 GPM
1 1/2 to 170 GPM

FEATURES

Meets or exceeds AWWA C700 Standard.

Proven design with years of field performance.

Extended-measurement capacity while maintaining exceptional accuracy.

Interchangeability of parts within sizes.

Permanently sealed registers with tamper-resistant features.

Lower pressure loss at all flow ranges.

Selection Guide



Physical and Operating Characteristics for Recordall Disc Series Meters

| Meter Model | Meter Size (inches) | Bore Dia. (Inches) | Meter Length Inches | | Safe Max. Oper. Capacity, GPM | Maximum Pressure Loss PSI At Rate Shown | |
|----------------|----------------------------|--------------------|---------------------|-------------|-------------------------------|---|-------------------|
| | | | Thread. Spud Ends | Flang. Ends | | | |
| 1/2" | AWWA C710-09 STANDARDS | 1/2, 1/2 x 3/4 | 5/8 | 7-1/2 | --- | 15 GPM | 15 PSI @ 15 GPM |
| | Engineered Polymer RCDL 25 | 1/2, 1/2 x 3/4 | 5/8 | 7-1/2 | --- | 25 GPM | 7.4 PSI @ 20 GPM |
| | AWWA C700-09 STANDARDS | 1/2, 1/2 x 3/4 | 5/8 | 7-1/2 | --- | 15 GPM | 15 PSI @ 15 GPM |
| | Bronze Model LP | 1/2, 1/2 x 3/4 | 5/8 | 7-1/2 | --- | 20 GPM | 7.6 PSI @ 20 GPM |
| | Bronze RCDL 25 | 1/2, 1/2 x 3/4 | 5/8 | 7-1/2 | --- | 25 GPM | 6.0 PSI @ 20 GPM |
| 5/8" | AWWA C710-09 STANDARDS | 5/8, 5/8 x 3/4 | 5/8 | 7-1/2 | --- | 20 GPM | 15 PSI @ 20 GPM |
| | Engineered Polymer RCDL 25 | 5/8, 5/8 x 3/4 | 5/8 | 7-1/2 | --- | 25 GPM | 7.4 PSI @ 20 GPM |
| | | | 3/4 | | | | 5.0 PSI @ 20 GPM |
| | AWWA C700-09 STANDARDS | 5/8, 5/8 x 3/4 | 5/8 | 7-1/2 | --- | 20 GPM | 15 PSI @ 15 GPM |
| | Bronze Model LP | 5/8, 5/8 x 3/4 | 5/8 | 7-1/2 | --- | 20 GPM | 7.6 PSI @ 20 GPM |
| | | | 3/4 | | | | 5.7 PSI @ 20 GPM |
| Bronze RCDL 25 | 5/8, 5/8 x 3/4 | 5/8 | 7-1/2 | --- | 25 GPM | 6.0 PSI @ 20 GPM | |
| | | 3/4 | | | | 4.9 PSI @ 20 GPM | |
| 3/4" | AWWA C700-09 STANDARDS | 3/4 | 3/4 | 9 | --- | 30 GPM | 15 PSI @ 30 GPM |
| | Bronze RCDL 35 | 3/4 | 3/4 | 9, 7-1/2 | --- | 35 GPM | 7.3 PSI @ 30 GPM |
| 1" | AWWA C700-09 STANDARDS | 1 | 1 | 10-3/4 | --- | 50 GPM | 15 PSI @ 30 GPM |
| | RCDL 55 | 1 | 1 | 10-3/4 | --- | 55 GPM | 5.3 PSI @ 50 GPM |
| | RCDL 70 | 1 | 1 | 10-3/4 | --- | 70 GPM | 6.5 PSI @ 50 GPM |
| 1-1/2" | AWWA C700-09 STANDARDS | 1-1/2 | 1-1/2 | 12-5/8 | 13 | 100 GPM | 15 PSI @ 100 GPM |
| | RCDL 120 | 1-1/2 | 1-1/2 | 12-5/8 | 12-5/8, 13 | 120 GPM | 7.3 PSI @ 100 GPM |
| 2" | AWWA C700-09 STANDARDS | 2 | 2 | 15-1/4 | 17 | 160 GPM | 15 PSI @ 160 GPM |
| | RCDL 170 | 2 | 2 | 15-1/4 | 15-1/4, 17 | 170 GPM | 8.6 PSI @ 160 GPM |

AWWA C700-90 and C710-90 Standards



Physical and Operating Characteristics for Recordall Disc Series Meters

| | Recommended Max Continuous Flow | Minimum Test Flow Rate GPM & Accuracy Percent | 98.5/101.5% Accuracy At Normal Flow Limits, GPM | Maximum Nutations | | Housing Material Main Case |
|--------|---------------------------------|---|---|-------------------|-------------|----------------------------|
| | | | | Per 1 Gal. | Per Cu. Ft. | |
| 1/2" | 7.5 GPM | 95% @ 1/4 GPM | 1 - 15 GPM | 87.5 | 657 | Polymer |
| | 15 GPM | 98.5% @ 1/4 GPM | 1/2 - 25 GPM | 49.59 | 370.9 | Polymer |
| | 7.5 GPM | 95% @ 1/4 GPM | 1 - 15 GPM | 87.5 | 87.5 | Polymer |
| | 10 GPM | 95% @ 1/4 GPM | 1/2 - 20 GPM | 57.4 | 429.3 | Lead-Free Alloy |
| | 15 GPM | 98.5% @ 1/4 GPM | 1/2 - 25 GPM | 49.59 | 370.9 | Bronze/Lead-Free Alloy |
| 5/8" | 10 GPM | 95% @ 1/4 GPM | 1 - 20 GPM | 58 | 435 | Polymer |
| | 15 GPM | 98.5% @ 1/4 GPM | 1/2 - 25 GPM | 49.59 | 370.9 | Polymer |
| | 10 GPM | 95% @ 1/4 GPM | 1 - 20 GPM | 58 | 435 | Lead-Free Alloy |
| | 10 GPM | 95% @ 1/4 GPM | 1/2 - 20 GPM | 57.4 | 429.3 | Lead-Free Alloy |
| | 15 GPM | 98.5% @ 1/4 GPM | 1/2 - 25 GPM | 49.59 | 370.9 | Bronze/Lead-Free Alloy |
| 3/4" | 15 GPM | 95% @ 1/2 GPM | 2 - 30 GPM | 33.3 | 250 | Bronze/Lead-Free Alloy |
| | 25 GPM | 97% @ 3/8 GPM | 3/4 - 35 GPM | 31.6 | 236.8 | Bronze/Lead-Free Alloy |
| 1" | 25 GPM | 95% @ 3/4 GPM | 3 - 50 GPM | 15.3 | 115 | Bronze/Lead-Free Alloy |
| | 40 GPM | 95% @ 1/2 GPM | 1 - 55 GPM | 14.5 | 108.9 | Bronze/Lead-Free Alloy |
| | 50 GPM | 95% @ 3/4 GPM | 1-1/4 - 70 GPM | 11.7 | 87.5 | Bronze/Lead-Free Alloy |
| 1-1/2" | 50 GPM | 95% @ 1-1/2 GPM | 5 - 100 GPM | 6.7 | 50 | Bronze/Lead-Free Alloy |
| | 80 GPM | 95% @ 1/4 GPM | 2-1/2 - 120 GPM | 5.97 | 44.63 | Bronze/Lead-Free Alloy |
| 2" | 80 GPM | 95% @ 2 GPM | 8 - 160 GPM | 4 | 30 | Bronze/Lead-Free Alloy |
| | 100 GPM | 95% @ 1-1/2 GPM | 2-1/2 - 170 GPM | 3.64 | 27.2 | Bronze/Lead-Free Alloy |

