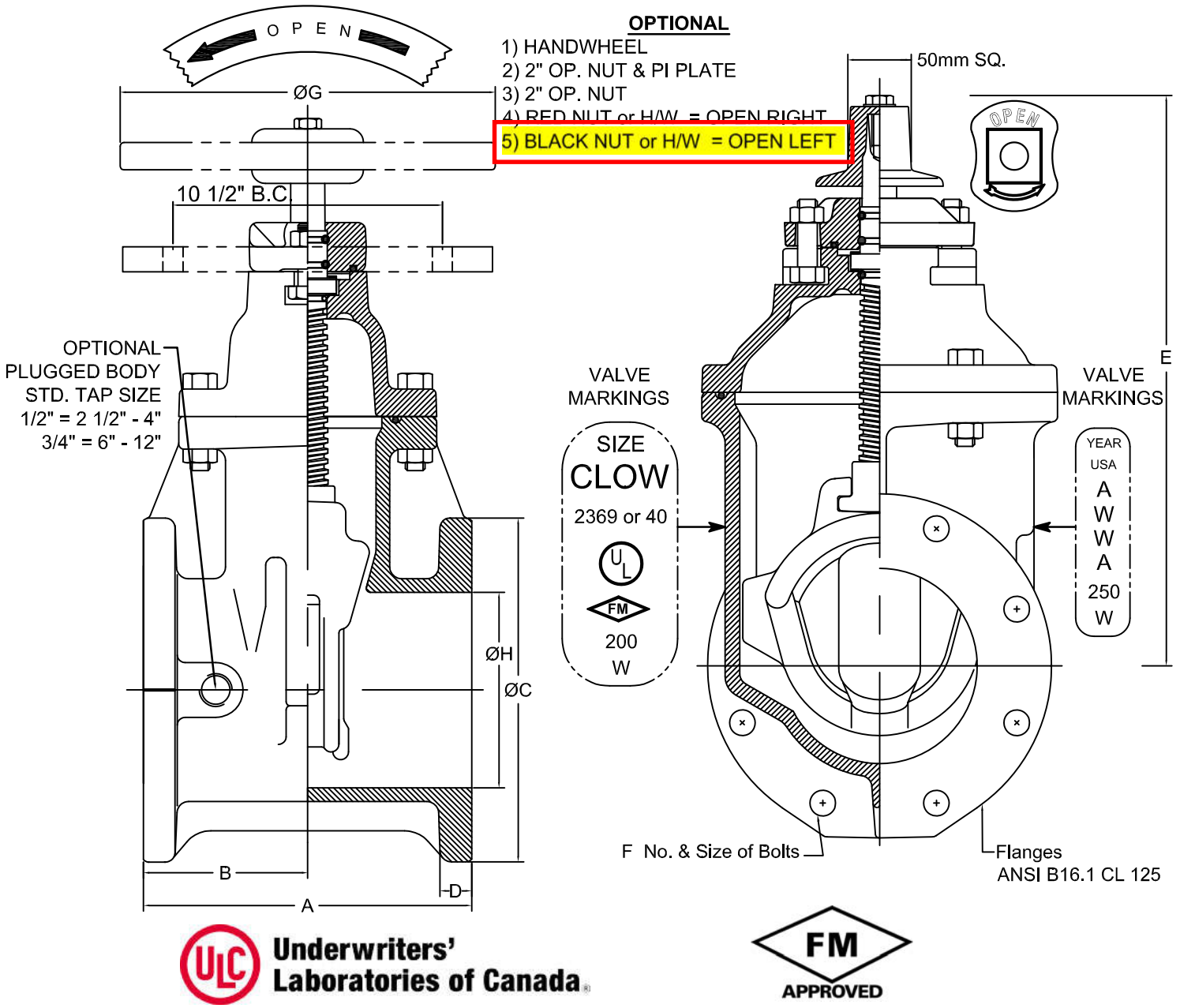
# CLOW CANADA

| | |
|---|---|
| PROJECT | 50 - 300 R/W VALVE NRS FLANGED ENDS GENERAL DIMENSIONS |
| OWNER | CLOW FIGURE F6102 |
| CONTRACTOR | CLOW MODEL 2640 AWWA C509 FULL WALL CAST IRON |
| DISTRIBUTOR | CLOW MODEL 2639 AWWA C509 FULL WALL DUCTILE IRON |
| CONSULTANT | |




Underwriters' Laboratories of Canada

FM APPROVED

| METRIC DIMENSIONS | | | | | | | | | NUMBER | WEIGHT | WEIGHT | WEIGHT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VALVE SIZE | A | B | C | D | E | F | G | H | OF TURNS | W/2" NUT | W/ HW | PI PLATE |
| 50 | 180 | 90 | 150 | 16 | 275 | 4-5/8 | 185 | 50 | 6 1/2 | 39 lbs | 43 lbs | N/A |
| 62.5 | 190 | 95 | 180 | 18 | 290 | 4-5/8 | 185 | 62.5 | 8 | 51 lbs | 56 lbs | N/A |
| 75 | 200 | 100 | 190 | 19 | 315 | 4-5/8 | 250 | 75 | 10 | 62 lbs | 68 lbs | 78 lbs |
| 100 | 230 | 115 | 230 | 23 | 375 | 8-5/8 | 250 | 108 | 13 1/2 | 87 lbs | 93 lbs | 103 lbs |
| 150 | 265 | 130 | 280 | 25 | 480 | 8-3/4 | 300 | 160 | 19 1/2 | 134 lbs | 143 lbs | 150 lbs |
| 200 | 290 | 145 | 340 | 28 | 570 | 8-3/4 | 350 | 210 | 25 1/2 | 212 lbs | 224 lbs | 228 lbs |
| 250 | 330 | 165 | 400 | 30 | 670 | 12-7/8 | 450 | 260 | 31 1/2 | 369 lbs | 388 lbs | 385 lbs |
| 300 | 350 | 180 | 480 | 32 | 750 | 12-7/8 | 450 | 310 | 37 3/4 | 523 lbs | 542 lbs | 539 lbs |

# R/W VALVE

## Material Specifications

### CAST IRON Specification ASTM A126 Class B

Physical Properties

| | |
|---|---|
| Minimum tensile strength | 31,000 psi |
| Minimum transverse strength | 3,300 lbs. |
| Minimum deflection ( 12" Centers ) | .12 in |

Chemical Analysis (percent)

| | |
|---|---|
| Phosphorus (maximim) | .75 |
| Sulfur (maximum) | .15 |

### Ductile Iron ASTM A536

| | |
|---|---|
| Minimum tensile strength | 65,000 psi |
| Minimum yield strength | 45,000 psi |
| Elogation | 10-12% |

### Urethane Rubber

| | |
|---|---|
| Hardness | 78 ± 2 |
| 100% Modulus (PSI) | 820 |
| Tensile (PSI) | 5,400 |
| Elongation (%) | 460 |

### Seat Rubber (SBR)

| | |
|---|---|
| Hardness | 78 ± 2 |
| 100% Modulus (PSI) | 820 |
| Tensile (PSI) | 5,400 |
| Elongation (%) | 460 |
| Compression Set, ASTM D395 Method B | 18% max. |

# R/W VALVE

## Material Specifications

STANDARD

CAST BRONZE--ASTM B584 CDA844 (Stem Nut)

Physical Properties

| | |
|---|---|
| Minimum tensile strength | 29,000 psi |
| Minimum yield strength | 13,000 psi |
| Minimum elongation (in 2 inches) | 18% |

Chemical Analysis

| | |
|---|---|
| Copper | 78.0-82.0 |
| Lead | 6.0-8.0 |
| Tin | 2.3-3.5 |
| Nickel (maximum) | 1.0 |
| Zinc | 7.0-10.0 |

CAST BRONZE--ASTM B584 CDA867 (Stem)

Physical Properties

| | |
|---|---|
| Minimum tensile strength | 80,000 psi |
| Minimum yield strength | 32,000 psi |
| Minimum elongation (in 2 inches) | 15% |

Chemical Analysis

| | |
|---|---|
| Copper | 55.0-60.0 |
| Lead (maximum) | .50-1.5 |
| Aluminum | 1.0-3.0 |
| Iron | 1.0-3.0 |
| Nickel (maximum) | 1.0 |
| Zinc | 30.0-38.0 |
| Manganese | 1.0-3.5 |
| Tin (maximum) | .2 |

ALTERNATE

CAST BRONZE--NDZ-S CA. NO. 995 (Stem)

| | |
|---|---|
| **Physical Properties** | |
| Minimum tensile strength | 70,000 psi |
| Minimum yield strength | 40,000 psi |
| Minimum elongation (in 2 inches) | 12% |
| **Chemical Analysis** | |
| Copper | 82.8 |
| Lead (maximum) | .25 |
| Aluminum (maximum) | 2.0 |
| Iron (maximum) | 5.5 |
| Nickel (maximum) | 5.5 |
| Zinc (maximum) | 2.0 |
| Silicon (maximum) | 2.0 |