

Chainwheel Operators

Chainwheel operators are designed to operate valves installed in inaccessible places. Chainwheels easily attach to the handwheel of valves ranging from 2"-36" in diameter. Available in aluminum (ARG Series) for gear operators on butterfly valves and other quarter turn products, and cast iron (CIRG Series) for handwheels on multi-turn valves.

Standard Components:

- Chainwheel
- Guide arm and cap
- Zinc plated carbon steel attachment set for clamping to the valve handwheel
- Attachment instructions for installing the chainwheel to the handwheel of the valve



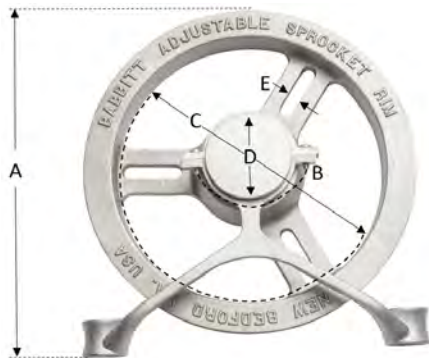
Chain



Weldless chain is designed for use on standard chainwheels. Weldless chain is sometimes referred to as single loop lock link chain. Available in hot dipped galvanized, stainless steel, and brass.

TECHNICAL DATA

| CHAINWHEEL DIMENSIONS IN INCHES (CM) | | | | | | | |
|--------------------------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|
| Wheel Size # | 1 | 1-1/2 | 2 | 2-1/2 | 3 | 3-1/2 | 4 |
| A – Overall height In | 6-3/8 (16.19) | 7-3/4 (19.69) | 10-1/2 (26.67) | 12-1/2 (31.75) | 15-1/2 (39.37) | 18-1/2 (46.99) | 21-1/2 (54.61) |
| B – Inner Bolt Circle | 2-1/2 (6.35) | 3-1/2 (8.89) | 4-1/2 (11.43) | 5-1/2 (13.97) | 8-1/2 (21.59) | 11-1/2 (29.21) | 11-1/2 (29.21) |
| C – Outer Bolt Circle | 3-1/2 (8.89) | 5 (12.70) | 6-5/8 (16.83) | 9-1/4 (23.50) | 12-3/8 (31.43) | 15-1/2 (39.37) | 17-3/4 (49.05) |
| D – Hub Opening (Diameter) | 7/8 (2.22) | 7/8 (2.22) | 2-1/8 (5.40) | 2-1/8 (5.40) | 2-1/8 (5.40) | 3 (7.62) | 3 (7.62) |
| E – Slot Size (Width) | 3/8 (.95) | 3/8 (.95) | 3/8 (.95) | 7/16 (1.11) | 7/16 (1.11) | 7/16 (1.11) | 5/8 (1.59) |
| F – Rear Opening | 1-1/2 (3.81) | 1-7/8 (4.76) | 3-1/8 (7.94) | 3-1/2 (8.89) | 3-1/2 (8.89) | 4-7/8 (12.38) | 4-7/8 (12.38) |
| G – Hub Depth (Shoulder to Rear) | 1-1/2 (3.81) | 1-7/16 (3.65) | 1-3/8 (3.49) | 1-3/4 (4.45) | 1-7/8 (4.76) | 1-7/8 (4.76) | 1-7/8 (4.76) |
| H – Rim Thickness | 1-1/8 (2.86) | 1-1/8 (2.86) | 1-1/8 (2.86) | 1-1/4 (3.18) | 1-1/4 (3.18) | 1-1/4 (3.18) | 1-1/2 (3.81) |
| I – Overall Depth | 2-1/4 (5.72) | 2-3/8 (6.03) | 2-3/8 (6.03) | 2-5/8 (6.67) | 3-1/8 (7.94) | 3-1/8 (7.94) | 3-1/8 (7.94) |



| SELECTION OF CHAINWHEEL OPERATORS | | | | | | |
|-----------------------------------|--|-----------------------|-------------------------------------|-----------------------|----------------------------------|--|
| Part # | Valve Handwheel Outside Diameter Range, Inches (cm)* | Chain Operator Number | Wheel Outside Diameter, Inches (cm) | Uses Chain Trade Size | Weight of Standard Wheel, Pounds | |
| CIRG1.0 ARG1.0 | 4-1/4 to 5-3/4 (10.80 – 14.61) | 1 | 5-3/4 (14.61) | 1/0 | 4 | |
| CIRG1.5 ARG1.5 | 6 to 7-1/2 (15.24 – 19.05) | 1-1/2 | 7-1/2 (19.05) | 1/0 | 5 | |
| CIRG2.0 ARG2.0 | 7-3/4 to 9 (19.69 – 22.86) | 2 | 9 (22.86) | 1/0 | 10 | |
| CIRG2.5 ARG2.5 | 9-1/4 to 12-1/2 (23.50 – 31.75) | 2-1/2 | 12 (30.48) | 4/0 | 15 | |
| CIRG3.0 ARG3.0 | 12-3/4 to 15-1/2 (32.39 – 39.37) | 3 | 15-1/2 (39.37) | 4/0 | 18 | |
| CIRG3.5 ARG3.5 | 15-3/4 to 19 (40.01 – 48.26) | 3-1/2 | 18-1/2 (46.99) | 4/0 | 28 | |
| CIRG4.0 ARG4.0 | 19-1/4 to 22 (48.90 – 55.88) | 4 | 21-1/2 (54.61) | 5/0 | 37 | |

* For larger handwheel size consult factory.

The information presented on this sheet is correct at the time of publication. Milwaukee Valve reserves the right to change design, and/or material specifications without notice. For the Installation, Operation and Maintenance Manual (IOM) see the engineering section on our website. For the most current information access www.milwaukeevalve.com

NEW CAST STEEL CHAINWHEEL SIZING GUIDE

| VALVE SIZE | HW SIZE | CLASS 150 CAST STEEL GATE 1550 | HW SIZE | CLASS 150 CAST STEEL GLOBE 1560 | HW SIZE | CLASS 300 CAST STEEL GATE 3050 | HW SIZE | CLASS 300 CAST STEEL GLOBE 3060 | HW SIZE | CLASS 600 CAST STEEL GATE 6050 | HW SIZE | CLASS 600 CAST STEEL GLOBE 6060 |
|------------|---------|--------------------------------------|---------|---------------------------------------|---------|--------------------------------------|---------|---------------------------------------|---------|--------------------------------------|---------|---------------------------------------|
| 2 | 7.87 | CIRG-2.0 | 7.09 | CIRG-1.5 | 7.87 | CIRG-2.0 | 7.09 | CIRG-1.5 | 9.84 | CIRG-2.5 | 9.84 | CIRG-2.5 |
| 2.5 | 7.87 | CIRG-2.0 | 7.87 | CIRG-2.0 | 7.87 | CIRG-2.0 | 7.87 | CIRG-2.0 | 9.84 | CIRG-2.5 | 14.17 | CIRG-3.0 |
| 3 | 9.84 | CIRG-2.5 | 9.84 | CIRG-2.5 | 9.84 | CIRG-2.5 | 9.84 | CIRG-2.5 | 11.81 | CIRG-2.5 | 14.17 | CIRG-3.0 |
| 4 | 9.84 | CIRG-2.5 | 11.81 | CIRG-2.5 | 11.81 | CIRG-2.5 | 14.17 | CIRG-3.0 | 14.17 | CIRG-3.0 | 15.75 | CIRG-3.5 |
| 5 | 11.81 | CIRG-2.5 | 14.17 | CIRG-3.0 | 11.81 | CIRG-2.5 | 15.75 | CIRG-3.5 | 15.75 | CIRG-3.5 | 19.69 | CIRG-4.0 |
| 6 | 11.81 | CIRG-2.5 | 14.17 | CIRG-3.0 | 14.17 | CIRG-3.0 | 15.75 | CIRG-3.5 | 17.72 | CIRG-3.5 | 22.05 | CIRG-4.0 |
| 8 | 14.17 | CIRG-3.0 | 17.72 | CIRG-3.5 | 15.75 | CIRG-3.5 | 17.72 | CIRG-3.5 | 19.69 | CIRG-4.0 | 23.62 | CIRG-4.5 |
| 10 | 15.75 | CIRG-3.5 | | | 17.72 | CIRG-3.5 | | | 25.59 | CIRG-4.5 | | |
| 12 | 17.72 | CIRG-3.5 | | | 19.69 | CIRG-4.0 | | | 27.56 | CIRG-5.0 | | |
| 14 | 19.69 | CIRG-4.0 | | | 23.62 | CIRG-4.5 | | | | | | |
| 16 | 23.62 | CIRG-4.5 | | | 25.59 | CIRG-4.5 | | | | | | |
| 18 | 25.59 | CIRG-4.5 | | | 27.56 | CIRG-5.0 | | | | | | |
| 20 | 27.56 | CIRG-5.0 | | | 31.5 | CIRG-5.0† | | | | | | |
| 24 | 31.5 | CIRG-5.0† | | | 31.5 | CIRG-5.0† | | | | | | |

†SPECIAL CLAMPS REQUIRED

| CHAINWHEEL SIZE | GALVANIZED CHAIN PART NUMBER | MASTER LINK PART NUMBER |
|-----------------|---------------------------------|----------------------------|
| CIRG-1.5 | R1/0-C-746 | R1/0-ML-746 |
| CIRG-2.0 | R1/0-C-746 | R1/0-ML-746 |
| CIRG-2.5 | R4/0-C-746 | R4/0-ML-746 |
| CIRG-3.0 | R4/0-C-746 | R4/0-ML-746 |
| CIRG-3.5 | R4/0-C-746 | R4/0-ML-746 |
| CIRG-4.0 | R5/0-C-746 | R5/0-ML-746 |
| CIRG-4.5 | R5/0-C-746 | R5/0-ML-746 |
| CIRG-5.0 | R5/0-C-746 | R5/0-ML-746 |