

# 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



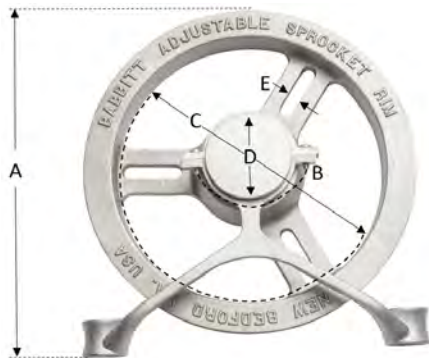
## Chain



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](http://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