Babbitt
STEAM SPECIALTY CO.



Product Catalog

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Standard Chainwheel

Standard Chainwheels are our most economical model for operating valves in high, normally out of reach locations. Chainwheels easily attach to the hand wheel of valves ranging from 2”-36” in diameter. Available in cast iron, ductile iron, aluminum, epoxy coated, and galvanized.



Standard Components:

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

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Safety wheel®

Safety Wheels provide a secondary attachment to reduce the potential hazard of a falling valve hand wheel. Safety wheels use stainless steel wire to attach to a nearby pipe or other secure object to provide additional protection. Available in cast iron, ductile iron, epoxy coated, and galvanized.



Standard Components:

- Chainwheel
- Guide arm and cap
- Zinc plated carbon steel attachment set for clamping to the valve hand wheel
- 5 feet of 7x19 stainless steel wire with 4 stainless steel clamps
- Attachment instructions for installing the chainwheel to the hand wheel of the valve

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Hammer-Blow Chainwheel

Hammer-Blows make it easy to control high-pressure valves from the floor in out-of-reach locations. The “hammer” action makes opening or closing sticky valves easier for an operator of any size without damaging the chainwheel or valve. Available in ductile iron.



Standard Components:

- Chainwheel
- Guide arm and cap
- Zinc plated carbon steel attachment set for clamping to the valve hand wheel
- Hammer-Blow mechanism attached to the spokes of the chainwheel and provides the “hammer” action that facilitates opening and closing of sticky valves
- Attachment instructions for installing the chainwheel to the hand wheel of the valve

Solid Hub Chainwheel

Solid Hub chainwheels control overhead valves by mounting directly to the valve or gear operator stem which eliminates the need for valve hand wheels. Available in cast iron, ductile iron, aluminum, epoxy coated, and galvanized.



Standard Components:

- Chainwheel
- Guide arm and cap
- Attachment instructions for installing the chainwheel to valve or gear operator stem

SOLID HUB CHAINWHEEL MAXIMUM BORING DIAMETER										
Wheel Size #	0	1	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5
Replaces Handh-weel Diameter (in.)	2 to 4	4-1/4 to 5-3/4	6 to 7-1/2	7-3/4 to 9	9-1/4 to 12-1/2	12-3/4 to 15-1/2	15-3/4 to 19	19-1/4 to 22	22-1/4 to 26	26-1/4 to 30
Maximum Boring Diameter (in.)	1/2	7/8	1	2-1/8	2-1/8	2-1/8	3	3	3	3

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Pocket Wheel

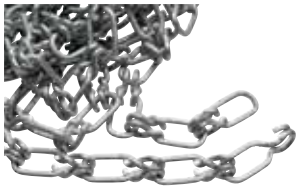
Pocketwheel style chainwheels are designed to accommodate applications where straight link welded chain is required. The chain channel is designed to accept every other link of straight link chain. Available in cast iron, ductile iron, aluminum, epoxy coated, and galvanized.



Standard Components:

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

Chain



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



Welded machine chain is designed for use on all pocket wheels. Every other link of straight link chain is accepted by the pocketwheel. Available in hot dipped galvanized and stainless steel.

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Accessories



Attachment Sets are offered to re-attach an existing chainwheel to a valve and wheel as a part of regular maintenance. Once a chainwheel is removed from the valve hand wheel, it is recommended that new attachment sets are used. Available in zinc-plated carbon steel or stainless steel.



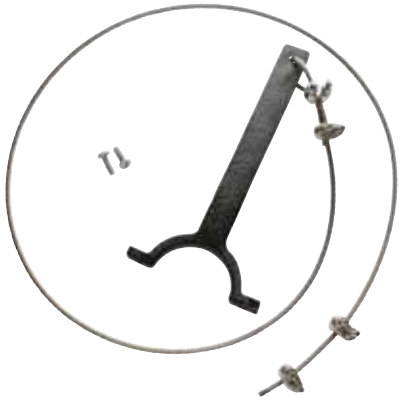
Babbitt Masterlinks are used with weldless chain to connect the two ends during installation of the chainwheel. The Masterlink returns the chain to its original load bearing strength with in a quick and easy process. When a Masterlink is added to an order, the chain is prepared in our facility to eliminate the need for cutting or alteration on site.



Chain away is a re-useable device that holds chain overhead, clearing the walkway below. It is lightweight, has built in drainage, and can easily release chain.



Hammer-Blow Conversion Kits are added to ductile iron chain wheels that are attached to problematic or sticky valves. The "hammer" action makes opening or closing sticky valves easier for an operator of any size without damaging the chainwheel or valve. This accessory can only be added to ductile iron chain wheels because of their shock resistant construction. Included in each kit is the Hammer-Blow mechanism and fasteners required to attach the mechanism to the spokes of the chainwheel.



Safety Cap Kits are used to convert standard chainwheels to safetywheels. By adding the safety cap kit, there is a secondary attachment to reduce the potential hazard of a falling valve hand wheel. Included in the kit is a safety cap, 5 feet of 7x19 stainless steel wire with 4 stainless steel clamps, and fasteners required to attach the cap to the guide arm.



Safety Cable Kits are used as a secondary attachment on non-safety wheels to reduce the potential falling hazard of a falling valve hand wheel. The cable is fastened to the yoke of the chain guide and attaches to a nearby pipe or other secure object. Included in the kit is 7x19 stainless steel wire with 4 stainless steel clamps.



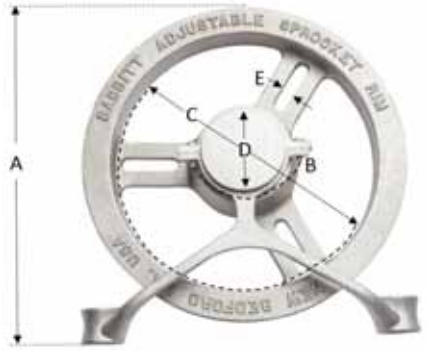
Lock-Out / Tag-Out System secures existing chainwheel against unauthorized use whenever product processing or downtime requires the valve not be operated. Plant operators will no longer be concerned about chainwheel operated valves being unintentionally opened or closed when they are required to be out of service. It comes complete with chain tube, lock, tag-out tag, and safety lock-out hasp.

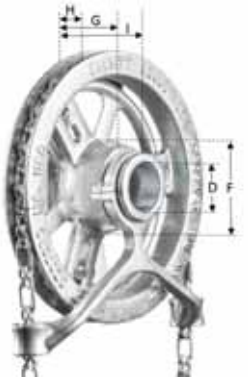
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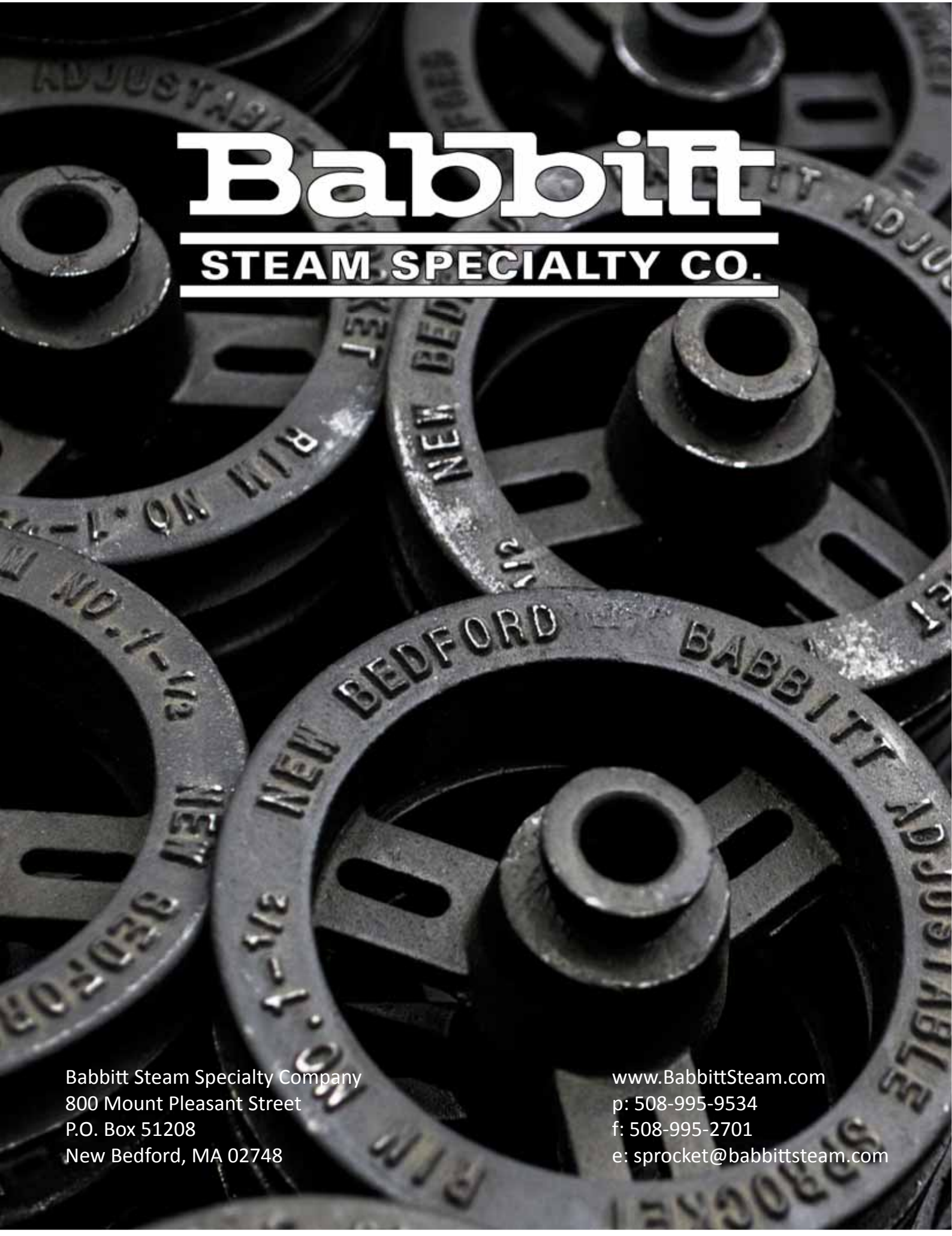
Technical Data

CHAINWHEEL DIMENSIONS IN INCHES (CM)										
Wheel Size #	0	1	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5
A – Overall height In	4-5/8 (11.75)	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)	25-3/4 (65.41)	30-1/4 (76.84)
B – Inner Bolt Circle	1-1/2 (3.81)	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)	14-1/2 (36.83)	18-3/4 (47.63)
C – Outer Bolt Circle	1-7/8 (4.76)	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)	21-1/4 (53.98)	25-1/4 (65.14)
D – Hub Opening (Diameter)	1/2 (1.27)	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)	3 (7.62)	3 (7.62)
E – Slot Size (Width)	5/16 (.79)	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)	5/8 (1.59)	5/8 (1.59)
F – Rear Opening	3/4 (1.91)	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)	4-5/8 (11.75)	4-3/4 (12.07)
G – Hub Depth (Shoulder to Rear)	1-1/8 (2.86)	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)	1-7/8 (4.76)	2 (5.08)
H – Rim Thickness	7/8 (2.22)	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)	1-1/2 (3.81)	1-1/2 (3.81)
I – Overall Depth	1-3/4 (4.45)	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)	3-1/8 (7.94)	3-1/8 (7.94)





SELECTION OF CHAINWHEEL OPERATORS				
Valve Handwheel Outside Diamater Range, Inches (cm)	Chain Operator Number	Wheel Outside Diameter, Inches (cm)	Uses Chain Trade Size	Weight of Standard Wheel, Pounds
2 to 4 (5.08 – 10.16)	0	4 (10.16)	2	2
4-1/4 to 5-3/4 (10.80 – 14.61)	1	5-3/4 (14.61)	1/0	4
6 to 7-1/2 (15.24 – 19.05)	1-1/2	7-1/2 (19.05)	1/0	5
7-3/4 to 9 (19.69 – 22.86)	2	9 (22.86)	1/0	10
9-1/4 to 12-1/2 (23.50 – 31.75)	2-1/2	12 (30.48)	4/0	15
12-3/4 to 15-1/2 (32.39 – 39.37)	3	15-1/2 (39.37)	4/0	18
15-3/4 to 19 (40.01 – 48.26)	3-1/2	18-1/2 (46.99)	4/0	28
19-1/4 to 22 (48.90 – 55.88)	4	21-1/2 (54.61)	5/0	37
22-1/2 to 26 (57.16 – 66.04)	4-1/2	25-3/4 (64.41)	5/0	47
26-1/4 to 30 (66.68 – 76.20)	5	30 (70.20)	5/0	58
30-1/4 to 36 (76.20 – 91.44)	5**	30 (70.20)	5/0	58



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