

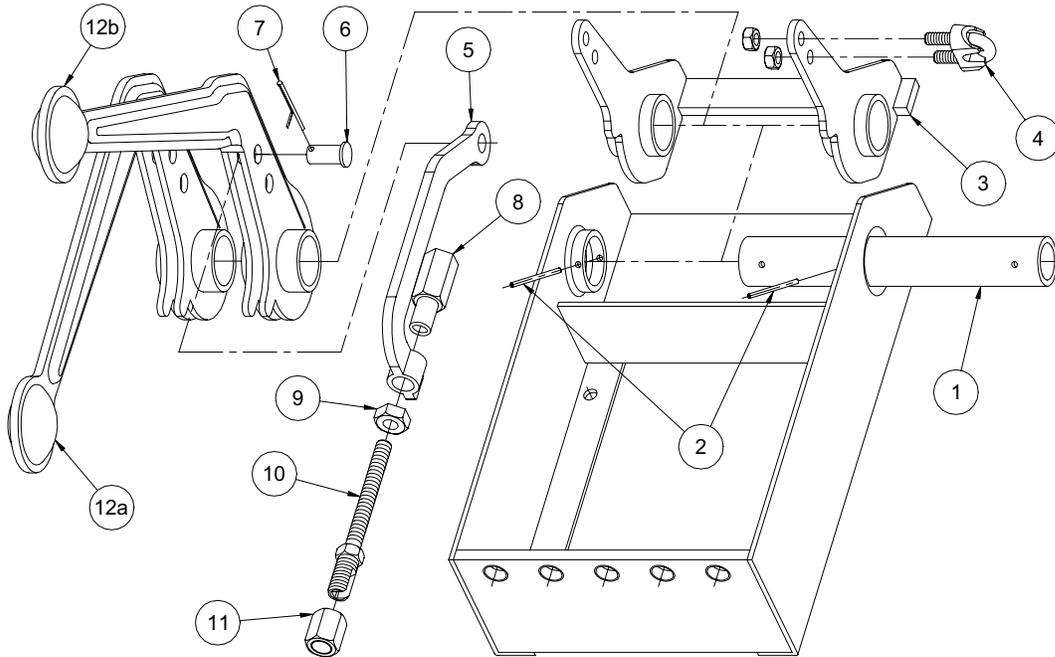
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## PARTS LIST

# Universal Mechanical Operator



No.	Description	Material	Part No.						
			1 Compt.	2 Compt.	3 Compt.	4 Compt.	5 Compt.	6 Compt.	7 Compt.
1	Shaft	Brass	20298A	20298B	20298C	20298D	20298E	20298F	20298G
2	Roll Pin	Steel	9Q5816						
3	Trip Lever Assy	Steel	20301A	20301B	20301C	20301D	20301E	20301F	20301G
4	Cable Clamp	Steel	9Q1660						
5	Offset Link	Steel	10083A						
6	Offset Link Clevis	Steel	15757MS						
7	Offset Link Cotter Pin	Steel	9Q5865						
8	Fusible Bushing Nut	Brass	19724BR						
9	Lock Nut	Steel	9Q5808A						
10	Adjusting Bolt	Steel	20040A						
11	Clamping Nut	Steel	10268A						
12a	Lever (Style - A)	Steel	20258A						
12b	Lever (Style - B)	Steel	20269A						

**WARNING** Use only genuine BETTS INDUSTRIES INC. replacement parts. Use of substitute parts can impair the proper function of this product.

Note: Adjusting Bolt assembly 20040A001 includes items 8, 9, 10, 11.

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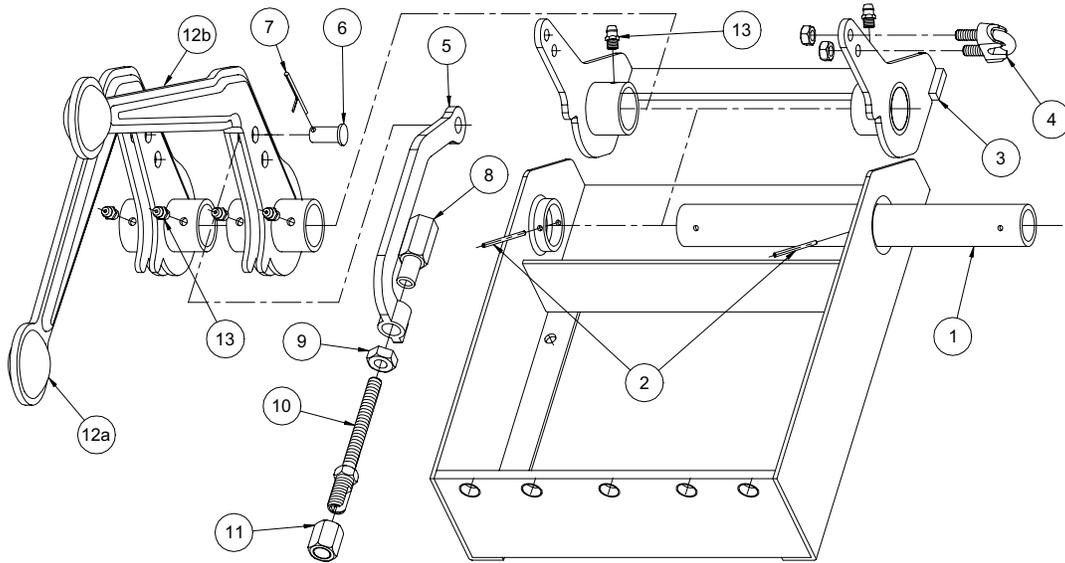
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## PARTS LIST

# Universal Lubricated Mechanical Operator



No.	Description	Material	Part No.						
			1 Compt.	2 Compt.	3 Compt.	4 Compt.	5 Compt.	6 Compt.	7 Compt.
1	Shaft	Brass	20126A	20126B	20126C	20126D	20126E	20126F	20126G
2	Roll Pin	Steel	9Q5816						
3	Trip Lever Assy	Steel	20123A	20123B	20123C	20123D	20123E	20123F	20123G
4	Cable Clamp	Steel	9Q1660						
5	Offset Link	Steel	10083A						
6	Offset Link Clevis	Steel	15757MS						
7	Offset Link Cotter Pin	Steel	9Q5865						
8	Fusible Bushing Nut	Brass	19724BR						
9	Lock Nut	Steel	9Q5808A						
10	Adjusting Bolt	Steel	20040A						
11	Clamping Nut	Steel	10268A						
12a	Lever (Style - A)	Steel	20281A						
12b	Lever (Style - B)	Steel	20282A						
13	Grease Fitting	Steel	9Z4871						

**WARNING** Use only genuine BETTS INDUSTRIES INC. replacement parts. Use of substitute parts can impair the proper function of this product.

Note: Adjusting Bolt assembly 20040A001 includes items 8, 9, 10, 11.

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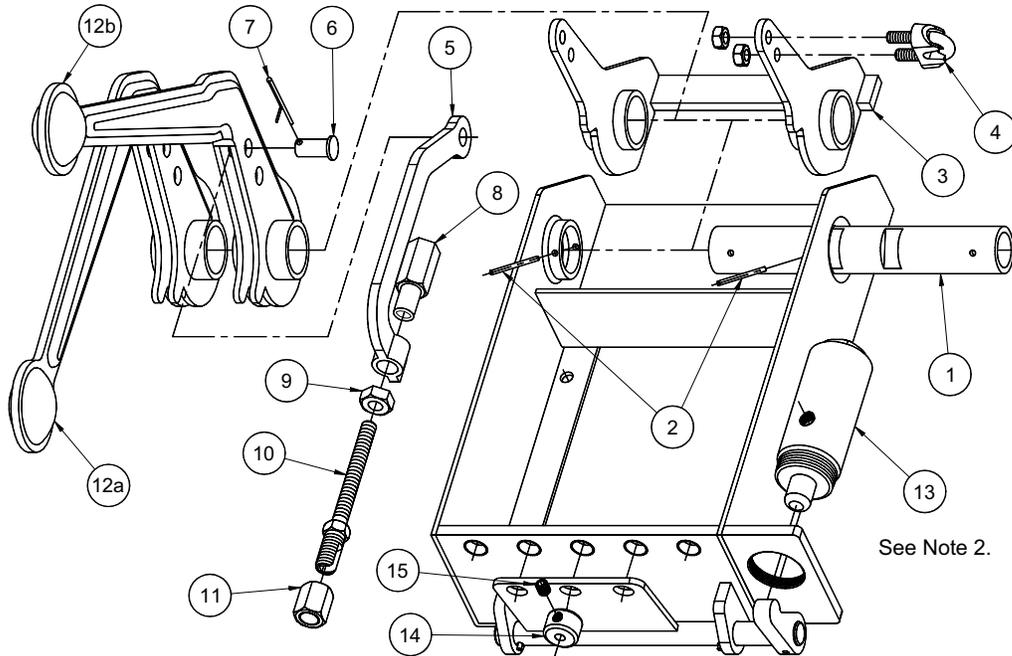
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## PARTS LIST

# Delta 1 Mechanical Operator



No.	Description	Material	Part No.					
			1 Compt.	2 Compt.	3 Compt.	4 Compt.	5 Compt.	6 Compt.
1	Shaft	Brass	20811A	20811B	20811C	20811D	20811E	20811F
2	Roll Pin	Steel	9Q5816					
3	Trip Lever Assy	Steel	20301A	20301B	20301C	20301D	20301E	20301F
4	Cable Clamp	Steel	9Q1660					
5	Offset Link	Steel	10083A					
6	Offset Link Clevis	Steel	15757MS					
7	Offset Link Cotter Pin	Steel	9Q5865					
8	Fusible Bushing Nut	Brass	19724BR					
9	Lock Nut	Steel	9Q5808A					
10	Adjusting Bolt	Steel	20040A					
11	Clamping Nut	Steel	10268A					
12a	Lever (Style - A)	Steel	20258A					
12b	Lever (Style - B)	Steel	20269A					
13	Air Valve (See note 2)	Brass	20761 (See note 2)					
14	Cable Bushing	Steel	10942ZC					
15	Set Screw	Steel	9Q5893					

**WARNING** Use only genuine BETTS INDUSTRIES INC. replacement parts. Use of substitute parts can impair the proper function of this product.

Note: 1. Adjusting Bolt assembly 20040A001 includes items 8, 9, 10, 11.

2. Three-way air valve part no. 20761 not included. Order separately. See Section 31, Page 4A.

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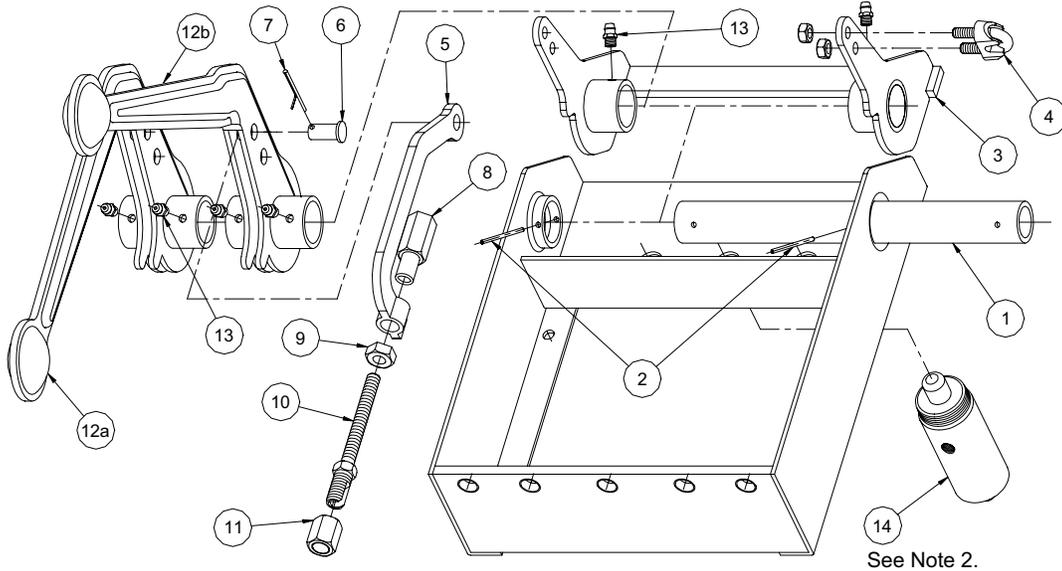
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## PARTS LIST

# Delta 2 Mechanical Operator



No.	Description	Material	Part No.					
			1 Compt.	2 Compt.	3 Compt.	4 Compt.	5 Compt.	6 Compt.
1	Shaft	Brass	20822A	20822B	20822C	20822D	20822E	20822F
2	Roll Pin	Steel	9Q5816					
3	Trip Lever Assy	Steel	20123A	20123B	20123C	20123D	20123E	20123F
4	Cable Clamp	Steel	9Q1660					
5	Offset Link	Steel	10083A					
6	Offset Link Clevis	Steel	15757MS					
7	Offset Link Cotter Pin	Steel	9Q5865					
8	Fusible Bushing Nut	Brass	19724BR					
9	Lock Nut	Steel	9Q5808A					
10	Adjusting Bolt	Steel	20040A					
11	Clamping Nut	Steel	10268A					
12a	Lever (Style - A)	Steel	20281A					
12b	Lever (Style - B)	Steel	20282A					
13	Grease Fitting	Steel	9Z4871					
14	Air Valve (See note 2)	Steel	20761 (See note 2)					

**WARNING** Use only genuine BETTS INDUSTRIES INC. replacement parts. Use of substitute parts can impair the proper function of this product.

Note: 1. Adjusting Bolt assembly 20040A001 includes items 8, 9, 10, 11.

2. Three-way air valve part on. 20761 not included. Order separately; one required per compartment.  
See Section 31, Page 4A.

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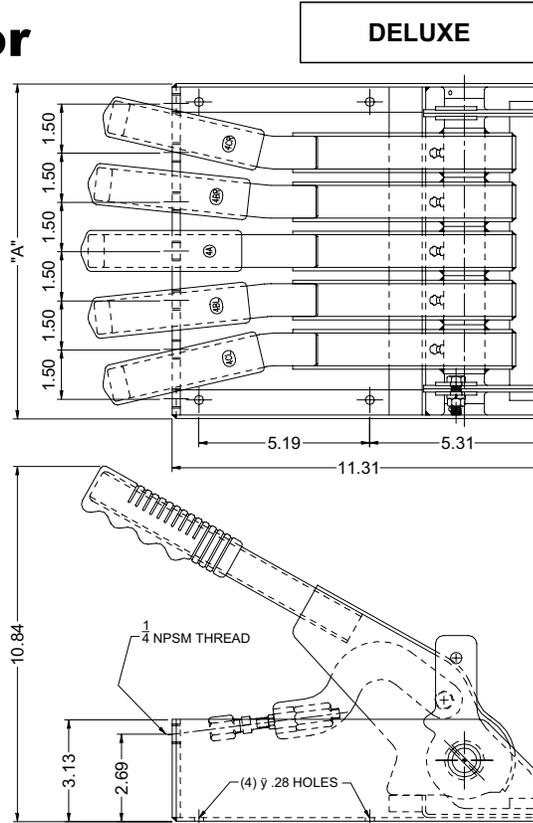
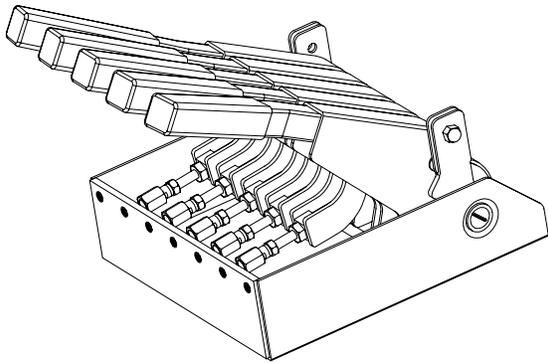
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## Mechanical Operator

- Heavy Duty Tubular Steel Levers
- Twice the Leverage of Universal Operators
- 2-1/2" Stroke
- Non-slip Cable Connectors
- Fusible Joint on Each Compartment



Betts Deluxe Mechanical operators function cable operated emergency valves from a central location on a cargo tank. Operators are available in any number of compartments from 1 up to 5. Each compartment is supplied with a fusible joint designed to melt at not more than 250° F. Non-slip cable connectors for each compartment allow cables to be cut to length after installation.

Deluxe Operators Provide a mechanical advantage of 6.5:1 or about twice that of universal operators. They also provide a longer stroke of 2-1/2". Emergency valves are held open by the over-center action of the lever assembly, thereby eliminating the need for springs and latches. Trip levers close all open valves when the remote control is tripped. Two trip levers allow for flexibility in locating remote control or for attaching two remote controls, if required.

Fabricated steel construction provides strength while keeping weight to a minimum. Heavy duty tubular steel levers provide for durability. Grease fittings in lever bushings and trip levers provided for lubrication.

No. of Compts.	Weight (lb)	Part Number	Dimension "A"
1	8.6	41185A	4-7/32
2	12.7	41185B	5-23/32
3	16.8	41185C	7-7/32
4	20.9	41185D	8-23/32
5	25.0	41185E	10-7/32

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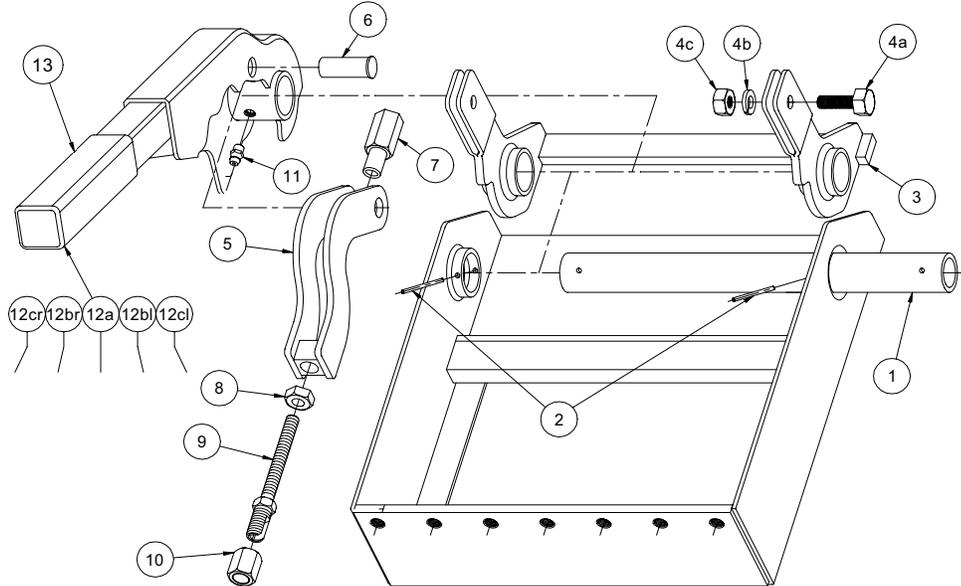
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## PARTS LIST

## Deluxe Mechanical Operator



No.	Description	Material	Part No.				
			1 Compt.	2 Compt.	3 Compt.	4 Compt.	5 Compt.
1	Shaft	Brass	20790A	20790B	20790C	20790D	20790E
2	Roll Pin	Steel	9Q5816				
3	Trip Lever Assy.	Steel	20784A	20784B	20784C	20784D	20784E
4a	5/16-18 x 1 1/2 Bolt	Steel	9Q5829				
4b	5/16i Lock Washer	Steel	9Q5847				
4c	5/16i Nut	Steel	9Q5808				
5	Heavy Duty Dual Link	Steel	20716				
6	Link Clevis	Steel	19080				
7	Fusible Bushing Nut	Brass	19724BR				
8	Lock Nut	Steel	9Q5808A				
9	Adjusting Bolt	Steel	20040A				
10	Clamping Nut	Steel	10268A				
11	Grease Fitting	Steel	9Z4871				
12a	Lever (center)	Steel	20725	-	20725	-	20725
12bl	Lever (left hand)	Steel	-	41186L	41186L	41186L	41186L
12br	Lever (right hand)	Steel	-	41186R	41186R	41186R	41186R
12cl	Lever (left hand)	Steel	-	-	-	41187L	41187L
12cr	Lever (right hand)	Steel	-	-	-	41187R	41187R
13	Grip	Plastic	1856				

**WARNING** Use only genuine BETTS INDUSTRIES INC. replacement parts. Use of substitute parts can impair the proper function of this product.

Note: Adjusting Bolt assembly 20040A001 includes items 8, 9, 10, 11.

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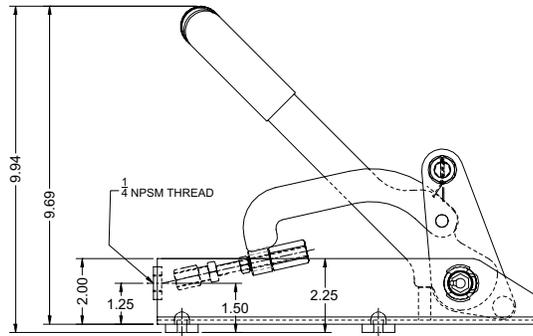
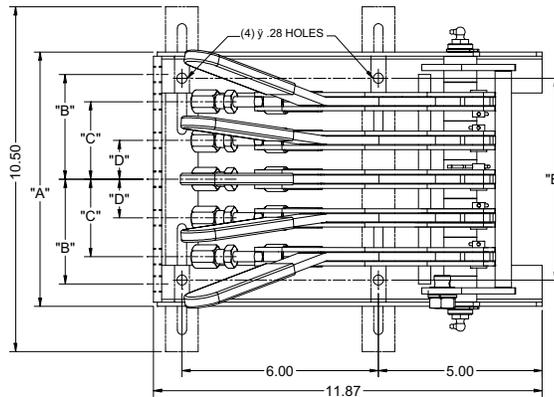
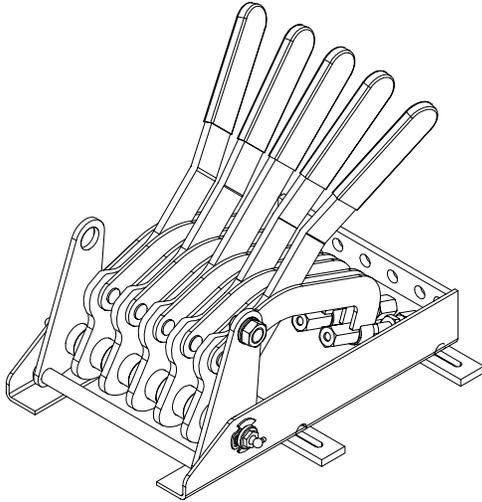
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## Mechanical Operator

COMPACT - LUBRICATED

- Compact Design
- Stainless or Powder Coated Steel
- 2-3/8" Stroke
- Solid Handles
- Lubricated Stainless Shaft



Betts Compact Mechanical Operators function cable operated emergency valves from a central location on a cargo tank. Available from 1 up to 5 compartments in stainless or powder coated steel; each compartment is supplied with a fusible link designed to melt at not more than 250° F as well as non-slip cable connectors that allow cable to be cut to length after installation.

New design is more compact than comparable Universal or Deluxe models. Slotted mounting straps are available as an option to allow for replacement of Deluxe operators without drilling new mounting holes. Specify straps by adding suffix "001" to assembly number. Lubricated shaft and handle is standard. Grease fittings on both ends of shaft.

Lever arms provide 2-3/8" stroke and 5.6:1 mechanical advantage. Two trip levers provided for flexibility in locating cable remote control or for attaching two remotes, if required. See Section 29, Page 1A for cable remote control.

No. of Compts.	Material	Weight (lb)	Part No.	Dim. "A" (in.)	Dim. "B" (in.)	Dim. "C" (in.)	Dim. "D" (in.)	Dim. "E" (in.)
1	Stainless	7.0	OP9001SL	4.20	1.41	N/A	.59	2.60
	Steel Powder Coated		OP9001EY					
2	Stainless	9.4	OP9002SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9002EY					
3	Stainless	12.5	OP9003SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9003EY					
4	Stainless	14.9	OP9004SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9004EY					
5	Stainless	17.3	OP9005SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9005EY					

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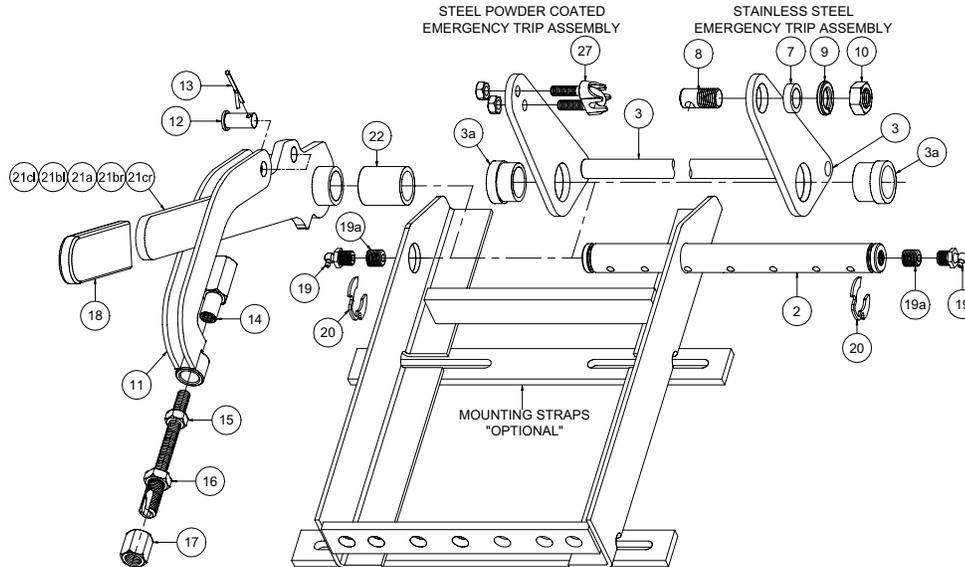
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## PARTS LIST

## Compact Mechanical Operator Lubricated



No.	Description	Material		Part No.				
		Steel Model	Stainless Model	1 Compt.	2 Compt.	3 Compt.	4 Compt.	5 Compt.
2	GREASABLE SHAFT	304 SS		277665L		277155L		
3	EMERGENCY TRIP LEVER ASSEMBLY	STEEL PC	304 SS	35659EY2* / 35686SL2**		35659EY5* / 35686SL5**		
7	EMERGENCY CABLE CLAMP BUSHING	NA	304 SS	196175L**				
8	EMERGENCY TRIP CABLE CLAMP	NA	304 SS	196225L**				
9	1/2 in. SPRING LOCK WASHER	NA	304 SS	9Q5908**				
10	1/2-20 JAM NUT	NA	304 SS	9Q5909**				
11	LINK ARM ASSEMBLY	STEEL PC	304 SS	27815EY* / 278155L**				
12	CLEVIS PIN	STEEL ZC	304 SS	15757ZC* / 196215L**				
13	3/32 in. x 3/4 in. COTTER PIN	BRASS	304 SS	9Q5865* / 9Q5866**				
14	FUSIBLE BUSHING NUT	BRASS		19724BR				
15	5/16x24 HEX NUT	STEEL ZC	304 SS	9Q5808A* / 9Q5858**				
16	ADJUSTING BOLT	STEEL	303 SS	20040ZC* / S20040A**				
17	CLAMPING NUT	STEEL ZC	304 SS	10268ZC* / S10268A**				
18	HANDLE GRIP - RED/BLUE	VINYL-RED	VINYL-BLUE	9Z4830* / 9Z4829**				
19	GREASE FITTING	STEEL		9Z4873				
19a	THREADED INSERT	NA	NA	9Z9017				
20	RETAINING RING	STEEL ZC	304 SS	9Q4974* / 9Q4973**				
21cl	LEVER ARM ASSEMBLY - LEFT #2	STEEL PC	304 SS	NA	35650EYL2* / 35650SL2**			
21bl	LEVER ARM ASSEMBLY - LEFT #1	STEEL PC	304 SS	NA	NA	NA	NA	35650EYL1*/35650SL1**
21a	LEVER ARM ASSEMBLY - STRAIGHT	STEEL PC	304 SS	35650EY*/35650SL**		NA	35650EY* / 35650SL**	
21br	LEVER ARM ASSEMBLY - RIGHT #1	STEEL PC	304 SS	NA	NA	NA	NA	35650EYR1*/35650SLR1**
21cr	LEVER ARM ASSEMBLY - RIGHT #2	STEEL PC	304 SS	NA	35650EYR2* / 35650SLR2**			
22	REPLACEMENT BUSHING	STEEL PC	304 SS	19624EY*/19624SL**		NA	19624EY* / 19624SL**	
27	CABLE CLAMP	STEEL ZC	NA	9Q1660*				

YEY FOR STEEL POWDER COATED GLOSS BLACK, ISL FOR STAINLESS, IZC STEEL ZINC COATED.

\* PARTS FOR STEEL POWDER COATED GLOSS BLACK MODELS ONLY

\*\* PARTS FOR STAINLESS MODELS ONLY

**WARNING** Use only genuine BETTS INDUSTRIES INC. replacement parts. Use of substitute parts can impair the proper function of this product.

Note: Adjusting Bolt assembly 20040A001 and S20040A001 includes items 14,15,16,17.

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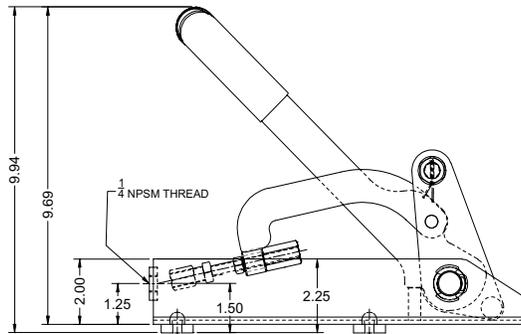
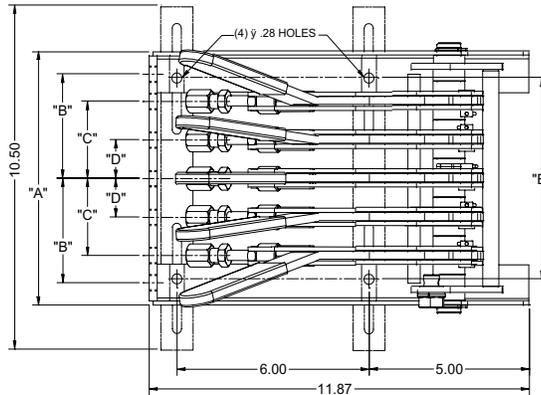
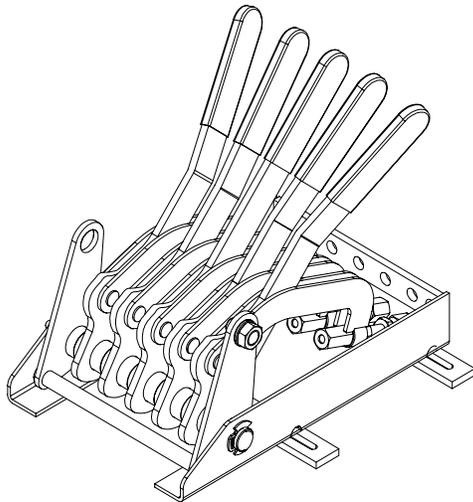
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## Mechanical Operator

COMPACT - NON-LUBRICATED

- Compact Design
- Stainless or Powder Coated Steel
- 2-3/8" Stroke
- Solid Handles
- Non-Lubricated Stainless Shaft



Betts Compact Mechanical Operators function cable operated emergency valves from a central location on a cargo tank. Available from 1 up to 5 compartments in stainless or powder coated steel; each compartment is supplied with a fusible link designed to melt at not more than 250°F as well as non-slip cable connectors that allow cable to be cut to length after installation.

New design is more compact than comparable Universal or Deluxe models. Slotted mounting straps are available as an option to allow for replacement of Deluxe operators without drilling new mounting holes. Specify straps by adding suffix "001" to assembly number. Other mounting options available by contacting sales.

Lever arms provide 2-3/8" stroke and 5.6:1 mechanical advantage. Two trip levers provided for flexibility in locating cable remote control or for attaching two remotes, if required. See Section 29, Page 1A for cable remote control.

No. of Compts.	Material	Weight (lb)	Part No.	Dim. "A" (in.)	Dim. "B" (in.)	Dim. "C" (in.)	Dim. "D" (in.)	Dim. "E" (in.)
1	Stainless	7.1	OP9011SL	4.20	1.41	N/A	.59	2.60
	Steel Powder Coated		OP9011EY					
2	Stainless	9.5	OP9012SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9012EY					
3	Stainless	12.7	OP9013SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9013EY					
4	Stainless	15.1	OP9014SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9014EY					
5	Stainless	17.5	OP9015SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9015EY					

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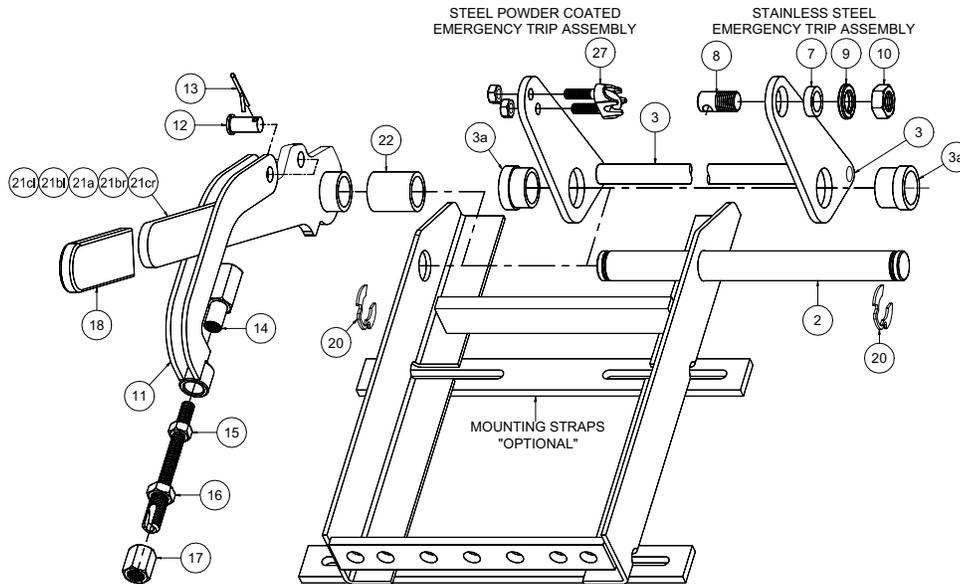
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## PARTS LIST

## Compact Mechanical Operator Non-Lubricated



No.	Description	Material		Part No.					
		Steel Model	Stainless Model	1 Compt.	2 Compt.	3 Compt.	4 Compt.	5 Compt.	
2	SHAFT	304 SS		27818SL2		27818SL5			
3	EMERGENCY TRIP LEVER ASSEMBLY	STEEL PC	304 SS	35659EY2* / 35686SL2**		35659EY5* / 35686SL5**			
3a	FLANGED BUSHING	NA	NA	9V4255					
7	EMERGENCY CABLE CLAMP BUSHING	NA	304 SS	19617SL**					
8	EMERGENCY TRIP CABLE CLAMP	NA	304 SS	19622SL**					
9	1/2 in. SPRING LOCK WASHER	STEEL ZC	304 SS	9Q5908**					
10	1/2-20 JAM NUT	STEEL ZC	304 SS	9Q5909**					
11	LINK ARM ASSEMBLY	STEEL PC	304 SS	27815EY* / 27815SL**					
12	CLEVIS PIN	STEEL ZC	304 SS	15757ZC* / 19621SL**					
13	3/32 in. x 3/4 in. COTTER PIN	BRASS	304 SS	9Q5865* / 9Q5866**					
14	FUSIBLE BUSHING NUT	BRASS			19724BR				
15	5/16x24 HEX NUT	STEEL ZC	304 SS	9Q5808A* / 9Q5858**					
16	ADJUSTING BOLT	STEEL	303 SS	20040ZC* / S20040A**					
17	CLAMPING NUT	STEEL ZC	304 SS	10268ZC* / S10268A**					
18	HANDLE GRIP - RED/BLUE	VINYL - RED	VINYL - BLUE	9Z4830* / 9Z4829**					
20	RETAINING RING	STEEL ZC	304 SS	9Q4974* / 9Q4973**					
21cl	LEVER ARM ASSEMBLY - LEFT #2	STEEL PC	304 SS	NA	35650EYL2* / 35650SL2**				
21bl	LEVER ARM ASSEMBLY - LEFT #1	STEEL PC	304 SS	NA	NA	NA	NA	35650EYL1* / 35650SL1**	
21a	LEVER ARM ASSEMBLY - STRAIGHT	STEEL PC	304 SS	35650EY* / 35650SL**	NA	35650EY* / 35650SL**			
21br	LEVER ARM ASSEMBLY - RIGHT #1	STEEL PC	304 SS	NA	NA	NA	NA	35650EYR1* / 35650SLR1**	
21cr	LEVER ARM ASSEMBLY - RIGHT #2	STEEL PC	304 SS	NA	35650EYR2* / 35650SLR2**				
22	REPLACEMENT BUSHING	STEEL PC	304 SS	19624EY* / 19624SL**	NA	19624EY* / 19624SL**		NA	
27	CABLE CLAMP	STEEL ZC	NA	9Q1660*					

ieYi FOR STEEL POWDER COATED GLOSS BLACK, iSLi FOR STAINLESS, iZCi STEEL ZINC COATED.

\* PARTS FOR STEEL POWDER COATED GLOSS BLACK MODELS ONLY

\*\* PARTS FOR STAINLESS MODELS ONLY

**WARNING** Use only genuine BETTS INDUSTRIES INC. replacement parts. Use of substitute parts can impair the proper function of this product.

Note: Adjusting Bolt assembly 20040A001 and S20040A001 includes items 14,15,16,17.

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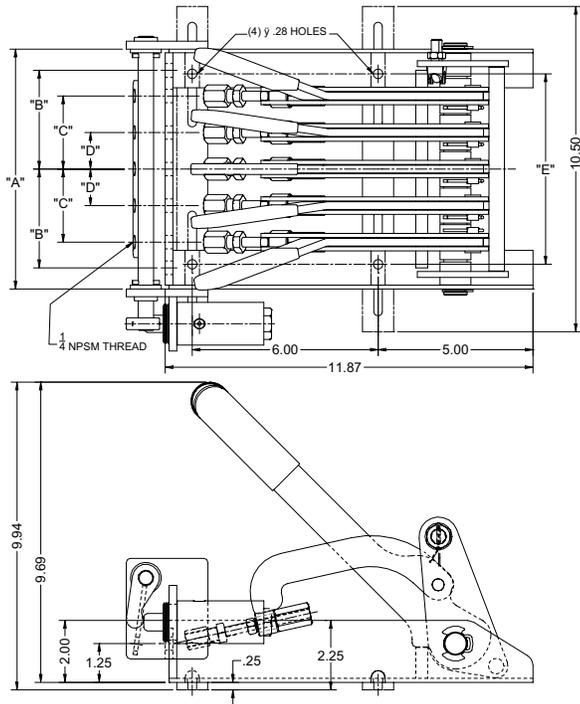
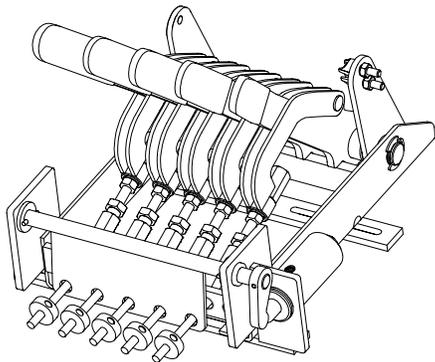
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## Mechanical Operator

COMPACT DELTA I NON-LUBRICATED

- Automatically Energizes Air Vents
- Compact Design
- Stainless or Powder Coated Steel
- 2-3/8" Stroke
- Solid Handles
- Non-Lubricated Stainless Shaft



Betts Compact Mechanical Operators function cable operated emergency valves from a central location on a cargo tank. Provision is made for mounting 3-way air valve (part no. 20761) on side of operator. Air valve is actuated when any compartment is opened, thereby assuring that air vents are energized when any emergency valve is opened. Air valve is not included. Add suffix i003i to include air valve. Available from 1 up to 5 compartments in stainless or powder coated steel; each compartment is supplied with a fusible link designed to melt at not more than 250°F as well as non-slip cable connectors that allow cable to be cut to length after installation.

New design is more compact than comparable Universal or Deluxe models. Slotted mounting straps are available as an option to allow for replacement of Deluxe operators without drilling new mounting holes. Specify straps by adding suffix i001i to assembly number. Other mounting options available by contacting sales.

Lever arms provide 2-3/8" stroke and 5.6:1 mechanical advantage. Two trip levers provided for flexibility in locating cable remote control or for attaching two remotes, if required. See Section 29, Page 1A for cable remote control.

No. of Compts.	Material	Weight (lb)	Part No.	Dim. "A" (in.)	Dim. "B" (in.)	Dim. "C" (in.)	Dim. "D" (in.)	Dim. "E" (in.)
1	Stainless	9.8	OP9111SL	4.20	1.41	N/A	.59	2.60
	Steel Powder Coated		OP9111EY					
2	Stainless	12.2	OP9112SL	4.20	1.41	N/A	.59	2.60
	Steel Powder Coated		OP9112EY					
3	Stainless	15.8	OP9113SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9113EY					
4	Stainless	18.2	OP9114SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9114EY					
5	Stainless	20.6	OP9115SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9115EY					

**Betts**<sup>™</sup>  
INDUSTRIES, INC.  
WARREN, PA.

April 2003

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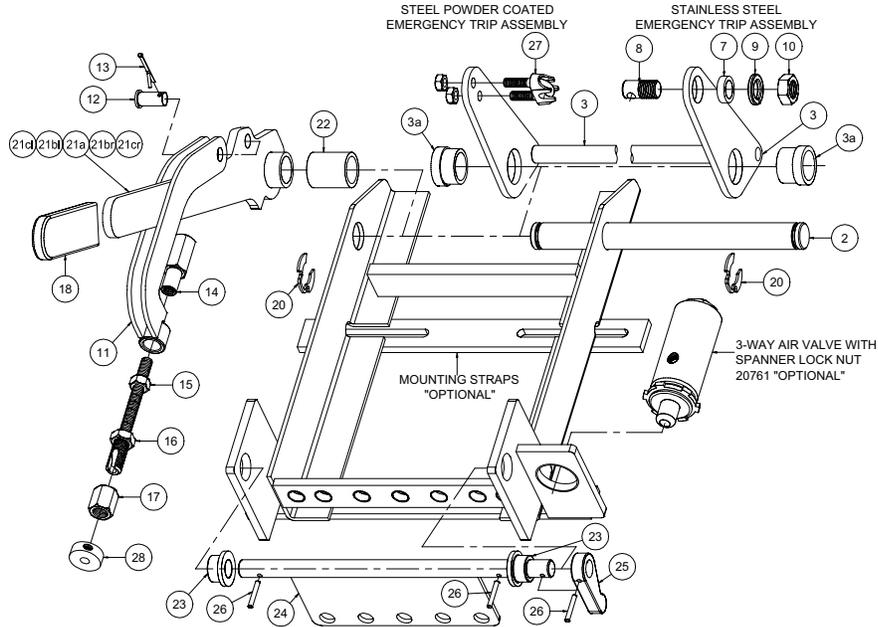
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## PARTS LIST

## Compact Mechanical Operator Delta I - Non-Lubricated



No.	Description	Material		Part No				
		Steel Model	Stainless Model	1 Compt.	2 Compt.	3 Compt.	4 Compt.	5 Compt.
2	SHAFT	304 SS		27818SL2		27818SL5		
3	EMERGENCY TRIP LEVER ASSEMBLY	STEEL PC	304 SS	35659EY2* / 35686SL2**		35659EY5* / 35686SL5**		
3a	FLANGED BUSHING	NA	NA	9V4255				
7	EMERGENCY CABLE CLAMP	NA	304 SS	19617SL**				
8	EMERGENCY TRIP CABLE CLAMP	NA	304 SS	19622SL**				
9	1/2 in. SPRING LOCK WASHER	STEEL ZC	304 SS	9Q5899* / 9Q5908**				
10	1/2-20 JAM NUT	STEEL ZC	304 SS	9Q5910* / 9Q5909**				
11	LINK ARM ASSEMBLY	STEEL PC	304 SS	27815EY* / 27815SL**				
12	CLEVIS PIN	STEEL ZC	304 SS	15757ZC* / 19621SL**				
13	3/32 in. x 3/4 in. COTTER PIN	BRASS	304 SS	9Q5865* / 9Q5866**				
14	FUSIBLE BUSHING NUT	BRASS		19724BR				
15	5/16x24 HEX NUT	STEEL ZC	304 SS	9Q5808A* / 9Q5858**				
16	ADJUSTING BOLT	STEEL	303 SS	20040ZC* / S20040A**				
17	CLAMPING NUT	STEEL ZC	304 SS	10268ZC* / S10268A**				
18	HANDLE GRIP - RED/BLUE	VINYL-RED	VINYL-BLUE	9Z4830* / 9Z4829**				
20	RETAINING RING	STEEL ZC		9Q4974* / 9Q4974**				
21c	LEVER ARM ASSEMBLY - LEFT #2	STEEL PC	304 SS	NA	35650EYL2* / 35650SL2**			
21bl	LEVER ARM ASSEMBLY - LEFT #1	STEEL PC	304 SS	NA	NA	NA	NA	35650EYL1* / 35650SL1**
21a	LEVER ARM ASSEMBLY - STRAIGHT	STEEL PC	304 SS	35650EY* / 35650SL*	NA	35650EY* / 35650SL**		
21br	LEVER ARM ASSEMBLY - RIGHT #1	STEEL PC	304 SS	NA	NA	NA	NA	35650EYR1* / 35650SLR1**
21cr	LEVER ARM ASSEMBLY - RIGHT #2	STEEL PC	304 SS	NA	35650EYR2* / 35650SLR2**			
22	REPLACEMENT BUSHING	STEEL PC	304 SS	19624EY* / 19624SL*	NA	19624EY* / 19624SL**		NA
23	BUSHING	BRONZE		9Z4869				
24	SHAFT & GATE ASSEMBLY	STEEL ZC	304 SS	27811ZC* / 27811SL**		27812ZC* / 27812SL**		
25	CAM	STEEL ZC		10938ZC				
26	ROLL PIN 1/8 x 7/8	STEEL	420 SS	9Q5894* / 9Q5920**				
27	CABLE CLAMP	STEEL ZC	NA	9Q1660*				
28	CABLE BUSHING & SET SCREW	STEEL ZC		10942				

IEY† FOR STEEL POWDER COATED GLOSS BLACK, ISL† FOR STAINLESS, IZC† STEEL ZINC COATED.

\* PARTS FOR STEEL POWDER COATED GLOSS BLACK MODELS ONLY

\*\* PARTS FOR STAINLESS MODELS ONLY

**WARNING** Use only genuine BETTS INDUSTRIES INC. replacement parts. Use of substitute parts can impair the proper function of this product.

Note: Adjusting Bolt assembly 20040A001 and S20040A001 includes items 14,15,16,17.

Feb 2003

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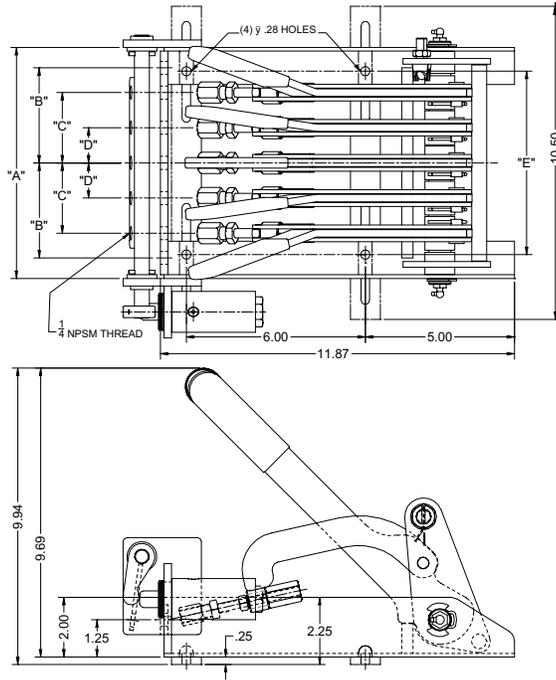
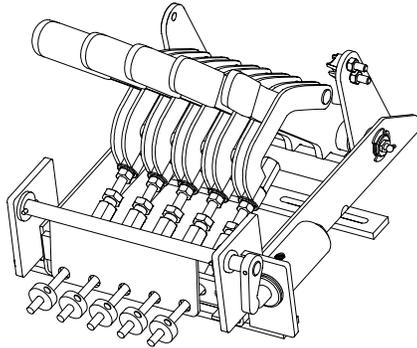
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## Mechanical Operator

COMPACT - DELTA I - LUBRICATED

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- Compact Design
- Stainless or Powder Coated Steel
- 2-3/8" Stroke
- Solid Handles
- Lubricated Stainless Shaft



Betts Compact Mechanical Operators function cable operated emergency valves from a central location on a cargo tank. Provision is made for mounting 3-way air valve (part no. 20761) on side of operator. Air valve is actuated when any compartment is opened, thereby assuring that air vents are energized when any emergency valve is opened. Air valve is not included. Add suffix i003f to include air valve. Available from 1 up to 5 compartments in stainless or powder coated steel; each compartment is supplied with a fusible link designed to melt at not more than 250°F as well as non-slip cable connectors that allow cable to be cut to length after installation.

New design is more compact than comparable Universal or Deluxe models. Slotted mounting straps are available as an option to allow for replacement of Deluxe operators without drilling new mounting holes. Specify straps by adding suffix i001f to assembly number. Other mounting options available by contacting sales. Lubricated shaft and handle is standard. Grease fittings on both ends of shaft.

Lever arms provide 2-3/8" stroke and 5.6:1 mechanical advantage. Two trip levers provided for flexibility in locating cable remote control or for attaching two remotes, if required. See Section 29, Page 1A for cable remote control.

No. of Compts.	Material	Weight (lb)	Part No.	Dim. "A" (in.)	Dim. iBi (in.)	Dim. "C" (in.)	Dim. "D" (in.)	Dim. "E" (in.)
1	Stainless	9.8	OP9101SL	4.20	1.41	N/A	.59	2.60
	Steel Powder Coated		OP9101EY					
2	Stainless	12.2	OP9102SL	4.20	1.41	N/A	.59	2.60
	Steel Powder Coated		OP9102EY					
3	Stainless	15.8	OP9103SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9103EY					
4	Stainless	18.2	OP9104SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9104EY					
5	Stainless	20.6	OP9105SL	7.75	3.19	2.36	1.18	6.15
	Steel Powder Coated		OP9105EY					



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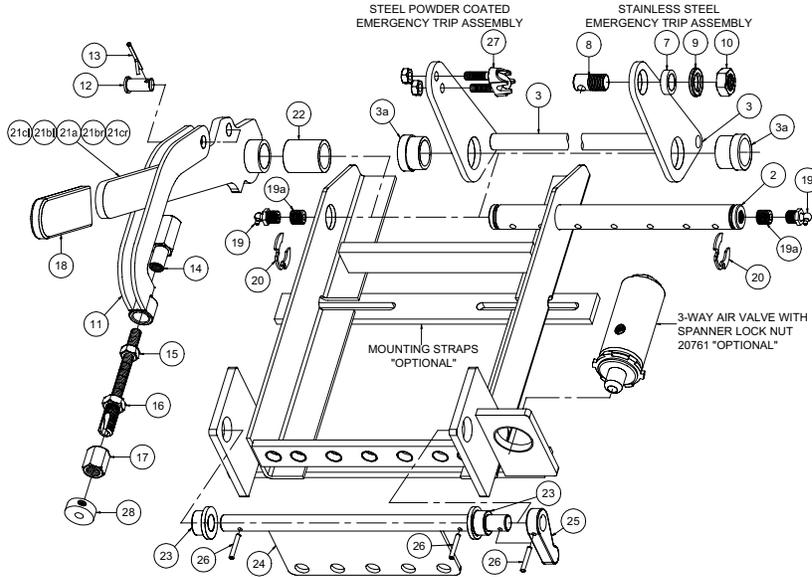
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## PARTS LIST

## Compact Mechanical Operator Delta I - Lubricated



No.	Description	Material		Part No				
		Steel	Stainless Model	1 Compt.	2 Compt.	3 Compt.	4 Compt.	5 Compt.
2	SHAFT		304 SS	277766SL		27715SL		
3	EMERGENCY TRIP LEVER ASSEMBLY	STEEL	304 SS	35659EY2* / 35686SL2**		35659EY5* / 35685L-5**		
3a	FLANGED BUSHING	NA	NA	9V4255				
7	EMERGENCY CABLE CLAMP BUSHING	NA	304 SS	196175L**				
8	EMERGENCY TRIP CABLE CLAMP	NA	304 SS	196225L**				
9	1/2 in. SPRING LOCK WASHER	STEEL	304 SS	9Q5899* / 9Q5908**				
10	1/2-20 JAM NUT	STEEL	304 SS	9Q5910* / 9Q5909**				
11	LINK ARM ASSEMBLY	STEEL	304 SS	27815EY* / 27815SL**				
12	CLEVIS PIN	STEEL	304 SS	15757ZC* / 19621SL**				
13	3/32 in. x 3/4 in. COTTER PIN	BRASS	304 SS	9Q5865* / 9Q5866**				
14	FUSIBLE BUSHING NUT		BRASS	19724BR				
15	5/16x24 HEX NUT	STEEL	304 SS	9Q5808A* / 9Q5858**				
16	ADJUSTING BOLT	STEEL	303 SS	20040ZC* / S20040A**				
17	CLAMPING NUT	STEEL	304 SS	10268ZC* / S10268A**				
18	HANDLE GRIP - RED/BLUE	VINYL -	VINYL - BLUE	9Z4830* / 9Z4829**				
19	GREASE FITTING		STEEL	9Z4873				
19a	THREADED INSERT		NA	9Z9017				
20	RETAINING RING		STEEL ZC	9Q4974* / 9Q4974**				
21cl	LEVER ARM ASSEMBLY - LEFT #2	STEEL	304 SS	NA		35650EYL2* / 35650SL2**		
21bl	LEVER ARM ASSEMBLY - LEFT #1	STEEL	304 SS	NA	NA	NA	NA	35650EYL1* / 35650SL1*
21a	LEVER ARM ASSEMBLY - STRAIGHT	STEEL	304 SS	35650EY* / 35650SL*	NA		35650EY* / 35650SL**	
21br	LEVER ARM ASSEMBLY - RIGHT #1	STEEL	304 SS	NA	NA	NA	NA	35650EYR1* / 35650SLR1*
21cr	LEVER ARM ASSEMBLY - RIGHT #2	STEEL	304 SS	NA		35650EYR2* / 35650SLR2**		
22	REPLACEMENT BUSHING	STEEL	304 SS	19624EY* / 19624SL*	NA	19624EY* / 19624SL**		NA
23	BUSHING		BRONZE	9Z4869				
24	SHAFT & GATE ASSEMBLY	STEEL	304 SS	27811ZC* / 27811SL**		27812ZC* / 2812SL**		
25	CAM		STEEL ZC	10938ZC				
26	ROLL PIN 1/8 x 7/8	STEEL	420 SS	9Q5894* / 9Q5920**				
27	CABLE CLAMP	STEEL	NA	9Q1660*				
28	CABLE BUSHING & SET SCREW		STEEL ZC	10942				

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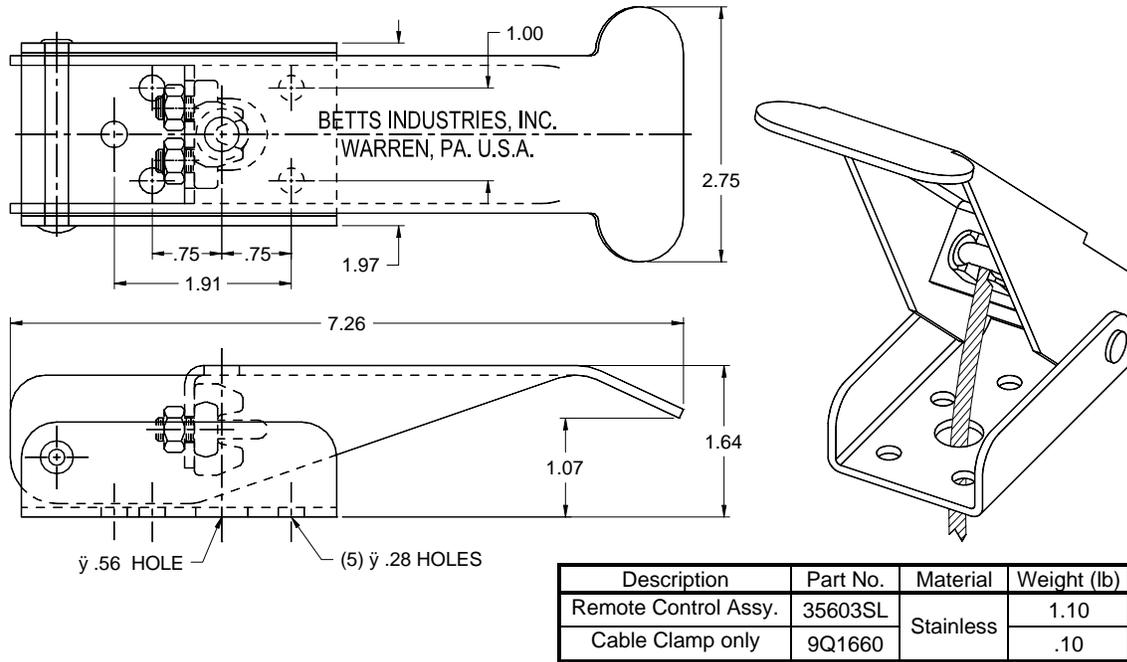
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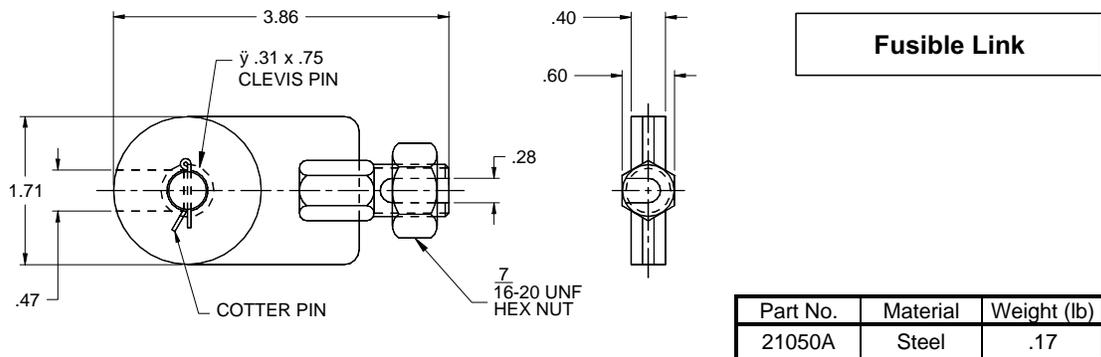
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## Operator Accessories



New design provides greater stroke (2-1/8") and leverage. Stainless steel to resist corrosion. Remote attaches to trip lever on operator using cable. Pulling remote lever rotates operator trip lever and bar assembly, causing all open emergency valves to close. Per 49CFR178.345-11, remote must be located at least 10 feet away from loading/unloading outlet (where vehicle length allows) or on the end of the cargo tank farthest from the loading/unloading outlet. Test cable remote controls and operators at least once a day to insure proper functioning.



Heavy duty fusible cable links are designed to attach the cable to the emergency valve cable lever arm and to provide thermal activation at the emergency valve. Fusible element melts at not more than 250 F, releasing the cable tension and allowing the emergency valve to close. Uses same non-slip, adjustable cable attachment as on Betts operators.

**Betts**<sup>™</sup>  
INDUSTRIES, INC.  
WARREN, PA.

May 1999

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