■ BUCKETS

ELEVATOR BUCKETS

Rexnord combined three styles of elevator buckets into one series designated "Mill Duty". The section thickness of the cast bucket has been increased to accommodate those applications requiring old style AA-RB buckets. Rex® CAST and POLYMERIC buckets are available in two configurations, Mill Duty and AC Style.

Rex buckets were designed with over sixty years of experience in the design and manufacturing of bucket elevators. Rex buckets are designed to fill, carry and discharge material efficiently without trouble.

Guide to Selection
Scale: 1 – Excellent; 2 – Very Good; 3 – Good

Property	Bucket Material		
	Cast	Polymeric	Fabricated
Strength	1	3	2
Weight	3	1	2
Corrosion Resistance	2	1	3
Clean Discharge	3	1	2
Abrasion Resistance	1	3	2
Cost	2	3	1

POLYMERIC BUCKETS

The Rex light-weight, corrosion resistant, non-metallic bucket was designed, developed and tested to meet industry's demands. There are numerous advantages and benefits in the use of these buckets; some are noted here:

1. **Increases Belt (Chain) Life** by double or better. The polymeric weighs one-fourth as much as a cast bucket, significantly reducing belt (chain) tension. For example, an 80-foot high elevator uses about 110-16 x 8 buckets weighing a total of 2,722 pounds. The use of polymeric buckets reduces this dead weight to 650 pounds, resulting in greater belt (chain) life.
2. **Excellent Wear Resistance.** After many years on the market and tens of thousands of buckets sold, the Rex polymeric bucket has proven itself highly wear resistant. Also, the heavy front lip will help give the longest possible wear life.
3. **Corrosion Resistant.** It won't "rust away" your profits. Rex polymeric buckets are produced from a very stable material that will not break down under most operating conditions and materials.
4. **Good Discharge.** A clean, smooth, low friction surface allows bulk materials to discharge efficiently – less backlegging, more capacity, less recycled material, less elevator boot flooding.
5. **Strength** has been designed into the bucket at strategic locations for the best impact resistance, resulting in fewer broken buckets. Yet, if there is a major obstruction in the elevator, the bucket will give way, rather than destroying the belt or chain.
6. **Food Service Buckets** are available and made from material approved by the USDA and FDA for direct contact with meat and food products prepared under federal inspection. Food service buckets are colored white.
7. **Temperature Range** from -40° to +250°F allows this bucket to be used in most applications.
8. **Designed by elevator manufacturer for elevator user.** This bucket was designed by Rexnord – the bucket manufacturer with over half a century of bucket elevator experience. The bucket is designed to fill, carry and discharge material efficiently without trouble.
9. **Applications:** Foundry sand, limestone, barite ore, granulated triple phosphate, glass cullet, soda ash, clay bauxite ore, potash, fertilizer, sand, gravel and cement products are only a few of the hundreds of applications in which Rex polymeric buckets are currently being used.
10. **Dimensionally Interchangeable** with cast buckets so that the polymeric bucket will fit into the attachment hole punching presently used.
11. **Samples:** Request samples of this economical, durable bucket for your elevator – it will prove itself in all respects.

CAUTION

POLYMERIC BUCKETS

Because of an inherent ability to retain a static charge, an electrical spark may be produced by this bucket. Therefore, it should not be used in a combustible environment.

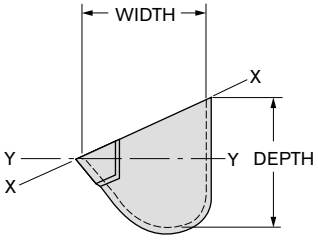
■ BUCKETS

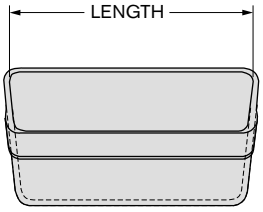
ELEVATOR BUCKETS

Cast – Mill Duty

Polymeric – Mill Duty

Cast – AC Style





NOTE: AC style buckets include vent holes to allow air to escape (cast and polymeric).

Polymeric – AC Style

Dimensions are in inches. Weights are in pounds.

Length	Width	Depth	Back Thickness		Capacity – Cu. Ft.		Weight	
			Cast	Polymeric	(X-X)	(Y-Y)	Cast	Polymeric①
MILL DUTY								
4	2.75	3.00	.10	–	.011	.007	1.3	–
5	3.50	3.75	.20	–	.020	.013	3.2	–
6	4.00	4.25	.20	.28	.029	.021	4.0	.6
7	4.50	5.00	.20	–	.050	.030	5.5	–
8	5.00	5.50	.20	.28	.07	.044	7.1	1.2
10	6.00	6.25	.20	.38	.12	.081	10	1.8
12	6.00	6.25	.30	–	.14	.087	20	–
12	7.00	7.25	.30	.41	.19	.12	17	2.4
14	7.00	7.25	.30	.41	.23	.14	18	2.8
14	8.00	8.50	.32	–	.30	.16	24	–
16	7.00	7.25	.32	–	.27	.16	28	–
16	8.00	8.50	.32	.41	.34	.21	30	4.2
18	8.00	8.50	.32	.41	.39	.23	39	5.1
18	10.00	10.50	.36	.50	.53	.40	43	6.7
20	8.00	8.50	.32	–	.42	.28	48	–
24	8.00	8.50	.38	–	–	–	–	–
AC STYLE								
12	8.00	8.50	.38	.59	.28	.21	25	4.6
16	8.00	8.50	.38	.59	.38	.28	35	7.0
18	10.00	10.50	.44	.50	.62	.49	58	10.5
24	10.00	10.50	.44	.50	.85	.68	78	13.8

① Mill Duty polymeric buckets are made out of impact – modified nylon. AC style polymeric buckets are made out of polyurethane.

For FABRICATED STEEL BUCKETS
please contact Rexnord's
Conveying Equipment Division.

CAUTION

POLYMERIC BUCKETS

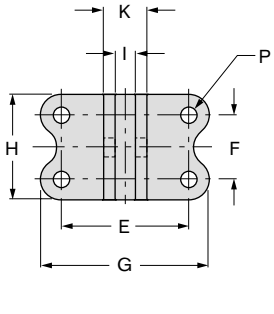
Because of an inherent ability to retain a static charge, an electrical spark may be produced by this bucket. Therefore, it should not be used in a combustible environment.

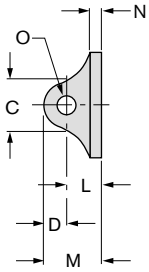
Note: Dimensions are subject to change. Certified dimensions of ordered material are furnished upon request.

■ BUCKETS

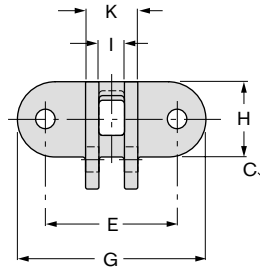
BUCKET AND FLIGHT WINGS

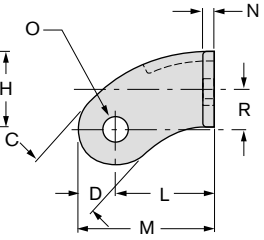
These wings are usually used with an “A” attachment.



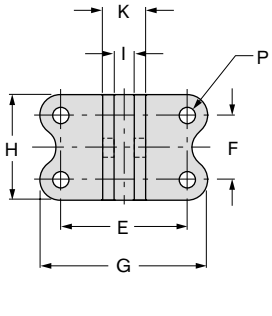


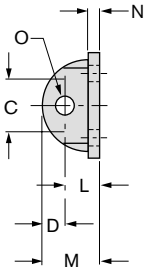
REX Style “A” Bucket Wing



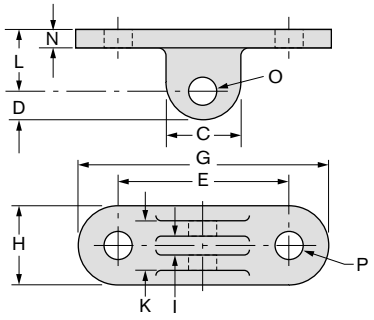


REX Style “C” & “F” Flight Wing

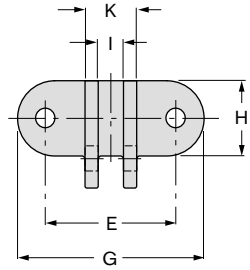


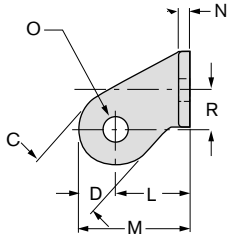


LINK-BELT Style “A” Bucket Wing



LINK-BELT Style “B” Bucket Wing





LINK-BELT Style “C” & “F” Flight Wing

Dimensions are in inches. Weights are in pounds.

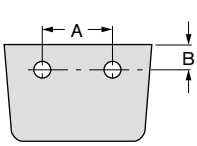
Rex Wing No.	Link-Belt Wing No.	C	D	E	F	G	H	I	K	L	M	N	O①	P②	R	Wt. with Rivet
5A		1.13	.50	2.75	1.38	3.63	2.25	.44	.94	.75	1.25	.25	.38	.31	–	.6
1C		1.75	.81	3.50	–	5.00	2.00	.56	1.31	1.56	2.38	.31	.63	.50	1.00	1.6
2C		2.00	1.00	3.50	–	5.00	2.00	.66	1.38	2.63	3.63	.31	.63	.50	1.06	2.1
5C		1.69	.84	2.75	–	4.75	2.00	.56	1.31	1.38	2.22	.31	.63	.50	.81	1.3
15C		1.31	.50	2.50	–	3.50	1.75	.44	1.00	1.13	1.63	.28	.38	.31	.81	.7
4F		–	.63	3.50	–	6.00	2.00	–	1.06③	2.50	3.13	.31	.63	.50	1.00	2.3
	4A	4.38	.69	4.00	3.26	5.50	4.76	.63	1.38	1.31	2.00	.31	.66	.56	.81	2.8
	5A	1.25	.59	2.75	1.38	3.63	2.48	.44	.94	.75	1.34	.25	.39	.33	–	.6
	6A	2.00	.69	3.38	1.26	4.88	2.38	.63	1.38	1.31	2.00	.31	.66	.41	–	1.3
	30A	3.38	.88	4.00	3.50	5.50	5.00	1.09	2.25	1.44	2.32	.38	.91	.56	–	4.4
	37A	1.00	.38	2.50	1.12	3.32	1.94	.28	.88	.69	1.07	.22	.41	.34	–	.5
	39A	1.25	.59	2.13	1.38	3.01	2.48	.44	.94	.75	1.34	.25	.39	.33	–	.6
	1B	1.88	.75	3.76	–	5.26	2.00	.56	1.31	1.31	–	.31	.66	.56	–	1.3
	2B	–	.41	1.76	–	2.52	.75	.28	.66	.69	–	.19	.41	.28	–	.2
	1C	1.56	.69	3.50	–	5.00	2.00	.56	1.31	1.56	2.56	.31	.63	.56	1.00	1.6
	2C	2.00	1.00	3.50	–	5.00	2.00	.63	1.38	2.63	3.63	.31	.63	.56	1.00	2.1
	2C+	2.00	1.06	3.50	–	5.00	2.00	.63	1.38	3.06	4.12	.75	.66	.53	1.00	3.2
	5C	–	.84	2.75	–	4.75	2.00	.56	1.31	1.38	2.22	.31	.66	.56	–	1.3
	10C	.88	.44	2.13	–	3.01	.88	.28	.66	.63	1.07	.19	.34	.34	.63	.3
	11C	1.44	.72	3.25	–	4.25	1.50	.56	1.19	1.13	1.85	.25	.66	.38	.75	.8
	15C	1.00	.58	2.50	–	3.50	1.76	.44	1.00	1.13	1.71	.28	.41	.34	.81	.7
	4F	1.75	–	3.50	–	6.00	2.00	–	1.06 ③	2.50	3.13	.31	.66	.53	1.00	2.3
	5F	3.50	.94	3.50	–	5.50	5.00	–	1.31 ③	1.44	2.38	.38	.91	.56	–	5.0

① Swivel-rivet diameters.
② Bucket-or-flight-bolt diameters.
③ This wing has solid lug – no clevis.

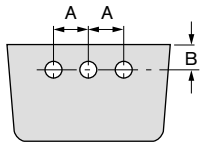
Note: Dimensions are subject to change. Certified dimensions of ordered material are furnished upon request.

■ BUCKETS

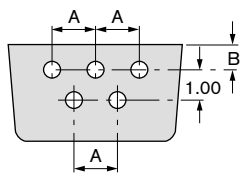
PUNCHING FOR USE WITH BELTS



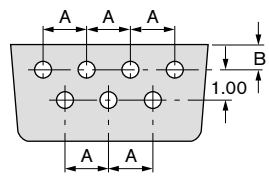
Punching B1



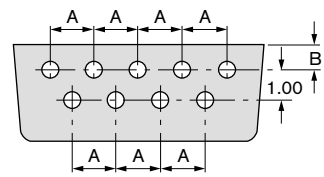
Punching B2



Punching B6



Punching B8



Punching B9

The bucket punching dimensions shown are Manufacturers' Standard for mill duty style and continuous style buckets.

Belt width should exceed bucket length by one inch for buckets up to 16 inches, and by two inches for buckets 16 inches or over.

Bolt diameters for all buckets are 1/4 inch for buckets up to 10 inches, 5/16 inch for buckets 10 inches or over.

Minimum length of bolts, of attaching buckets to belts, is determined as follows: Add (1) thickness of belt body (all 1/6 inch per ply), (2) total thickness of rubber covers, (3) thickness of rubber washer (allow 1/4 inch), (4) thickness of bucket back, and (5) thickness of nut (assumed equal to bolt diameter).

A rubber washer is used one each bolt, between bucket and belt, to act as a cushion when bucket passes around the pulleys, and to provide open spaces which prevent fine material from accumulating or packing between bucket and belt. Tight-fitting bolts prevent moisture from working into belt.

Dimensions are in inches.

Bucket Length	A	B①	Bucket Length	A	B①	Bucket Length	A	B①	Bucket Length	A	B①	Bucket Length	A	B①
PUNCHING B1			PUNCHING B2			PUNCHING B6			PUNCHING B8			PUNCHING B9		
4	2 5/16	3/4	7	2 1/2	1	8	3	7/8	14	4	7/8	20	4	7/8
5	3 3/16	1	8	3	1	9	3	7/8	16	4 1/2	7/8	22	4 1/2	7/8
6	4 3/8	1				10	3 1/2	7/8	18	5	7/8	24	5	7/8
						11	4	7/8						
						12	4 1/2	7/8	1.00	1.13	1.63	.28	.38	.31

① For continuous style buckets, centerline for single row of holes, or centerline between double row, will be at mid-depth of bucket.

Note: Dimensions are subject to change. Certified dimensions of ordered material are furnished upon request.