

Stainless Steel

Industrial Gear Drives For Extreme Washdowns

GROVE GEAR Industrial Gear Drives offer superior corrosion protection. They are rust proof and able to withstand the harshest conditions (See our Chemical Reaction Chart, right).

Our stainless steel housing, cover and external hardware offer an exceptional long life. Plus, each reducer comes with synthetic oil, eliminating the need for oil changes. Take advantage of these benefits and more when you purchase our heavy duty Stainless Steel Reducers!



Class I Service • 1.0 Service Factor

Output		Unit Sizes by Input HP									
Ratio	Speed	1/4	1/2	3/4	1	1-1/2	2	3	5	7-1/2	
5:1	350	213	213	213	213	215	218	224	232	232	
10:1	175	213	213	215	215	220	220	224	232		
20:1	87.5	213	215	218	220	224	232	232			
30:1	58.3	213	218	218	224	232	232	232			
40:1	43.8	213	220	224	224	232	232				
50:1	35.0	215	220	224	232	232					
60:1	29.2	215	224	232	232	232					
100:1	17.5	215	224	232	232	232					
200:1	8.75	224	232	232	232						
300:1	5.83	224	232	232							
400:1	4.38	232	232								
500:1	3.50	232	232								
1000:1	1.75	232									

Stainless Steel meets the challenge where Aluminum and Cast Iron Fail.

Stainless Steel Chemical Reactions

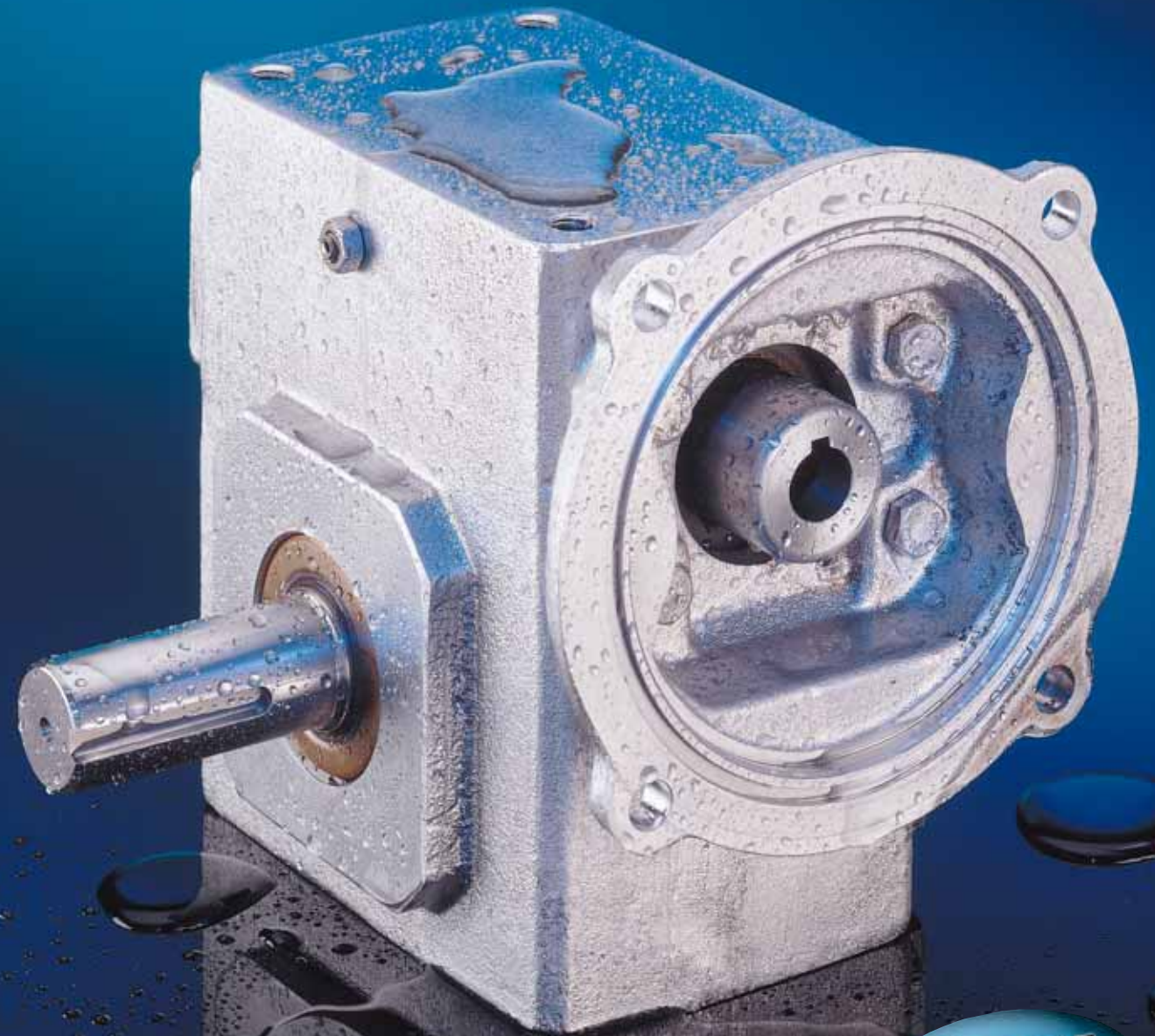
Reaction Level	None	Minor	Moderate	Severe
Of Material to Chemical	0	1	2	3

Chemical	316 Stainless	Aluminum	Cast Iron
Ammonia Anhydrous	0	1	3
Ammonia, Liquids	0	3	2
Ammonium Carbonate	0	2	2
Arsenic Acid	0	3	3
Barium Sulfate/Sulfide	0	3	2
Beer	0	0	3
Butyl Alcohol	0	1	2
Calcium Carbonate	0	2	3
Catsup	0	3	3
Chlorine (Dry)	0	2	0
Ferrous Sulfate	2	3	3
Formaldehyde	0	0	3
Formic Acid	1	1	3
Fruit Juice	0	1	3
Hydrogen Sulfide (Dry)	0	3	1
Ink	0	2	3
Lead Acetate	0	3	—
Magnesium Chloride	1	3	3
Mayonnaise	0	3	3
Mustard	0	3	3
Nickel Sulfate	0	3	3
Nitric Acid (10%)	0	3	3
Potassium Bromide	0	2	3
Potassium Hydroxide (50%)	1	3	2
Silver Nitrate	1	3	3
Soap Solutions	0	2	1
Sodium Bisulfate	0	3	3
Sodium Carbonate	1	2	2
Sodium Peroxide	0	2	3
Sodium Sulfide	1	2	0
Tannic Acid	0	2	2
Turpentine	0	2	1
Vinegar	0	3	2
Wines & Whiskey	0	3	3
Zinc Hydrosulfate	0	3	2
Zinc Sulfate	0	3	2

GROVE GEAR

Stainless Steel

Industrial Gear Drives



New
More Options!

GROVE GEAR

Dimensions

Styles BM • BMO

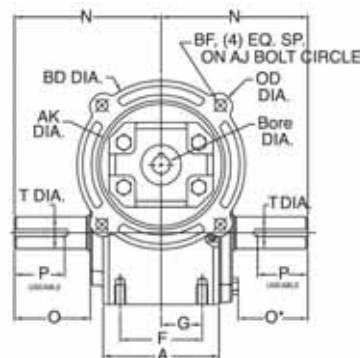
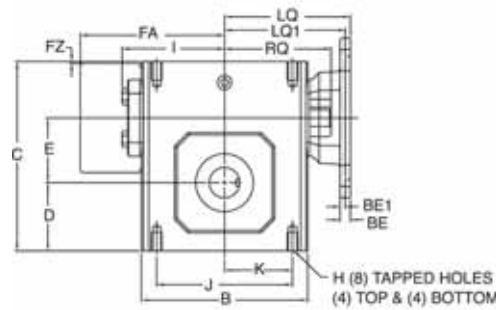


Style BM

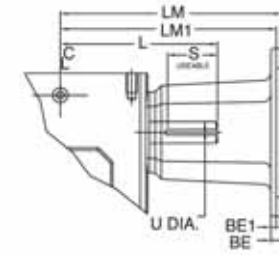


Style BMO

BMQ (NEMA MOTORS)



BM (NEMA MOTORS ONLY)



UNIT	A	B	C	D	E	F	FA	FZ	G	H	(Depth)	I	J	K	L	N	O	O*	P**	S**	T Dia.
213	2.82	3.80	4.66	1.72	1.333	2.00	N/A	N/A	1.00	5/16-18	.50	2.61	3.25	1.63	3.82	4.00	2.16	1.94	3/16 x 1.50	1/8 x 1.44	.625
215	3.44	4.88	5.38	1.91	1.540	2.75	N/A	N/A	1.38	5/16-18	.63	3.14	4.19	2.09	4.35	4.31	2.11	1.90	3/16 x 1.50	3/16 x 1.50	.750
218	3.56	5.06	5.75	2.06	1.750	2.75	N/A	N/A	1.38	5/16-18	.63	3.24	4.19	2.09	4.45	4.31	2.05	1.84	3/16 x 1.38	3/16 x 1.50	.875
220	3.81	5.80	6.38	2.28	2.063	3.00	N/A	N/A	1.50	5/16-18	.63	3.61	4.75	2.38	4.82	4.68	2.29	2.08	1/4 x 1.44	3/16 x 1.50	1.000
224	4.06	6.12	6.94	2.50	2.375	2.88	N/A	N/A	1.44	3/8-16	.69	3.77	5.00	2.50	5.51	5.14	2.66	2.44	1/4 x 1.75	3/16 x 1.75	1.125
232	5.75	8.50	9.38	3.50	3.250	4.00	N/A	N/A	2.00	7/16-14	.88	5.02	7.50	3.75	6.76	7.06	3.66	3.42	3/8 X 2.62	3/16 x 1.75	1.500

NEMA Motor Mounting Dimensions

Frame	AJ	AK	BD	OD	BE	BE1	Bore	KWY.**	BF
56C	5.88	4.50	5.88	6.64	.38	N/A	.625	3/16 x 3/32	.41
140TC	5.88	4.50	5.88	6.64	.38	N/A	.875	3/16 x 3/32	.41
180TC	7.25	8.50	9.00	N/A	N/A	.50	1.125	1/4 x 1/8	.53
210TC	7.25	8.50	9.00	N/A	N/A	.50	1.375	5/16 x 5/32	.53

**keyway width by depth

NEMA Motor Flange Face Locations

Unit	56C/140TC			180TC		210TC	
	LM	RQ	LQ	RQ	LQ1	RQ	LQ1
213	6.07	3.09	3.46				
215	6.60	3.62	3.99				
224	7.76	4.09	4.63	4.56	5.06		
232	9.01	5.51	5.88	5.81	6.31	16.25	6.75

NEMA Motor Data



Style HMQ

Styles DM • DMQ

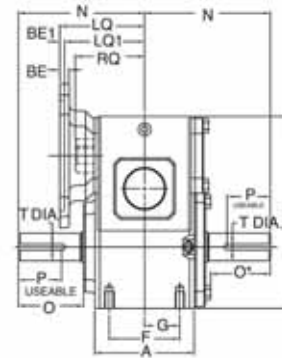
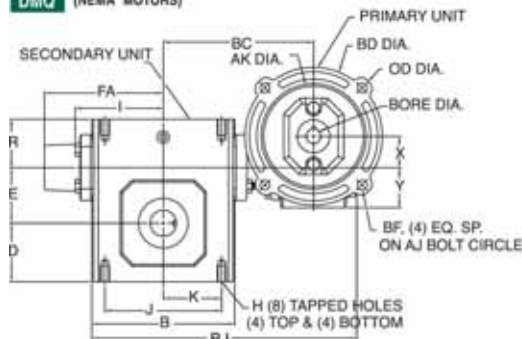


Style DM

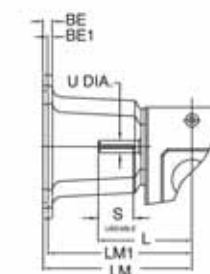


Style DMQ

DMQ (NEMA MOTORS)



DM (NEMA MOTORS ONLY)



UNIT	A	B	BC	BJ	C	D	E	F	FA	G	H	(Depth)	I	J	K	N	O	O*	P**	R	S**	T Dia.
213	2.82	3.80	5.32	9.06	5.99	1.72	1.333	2.00	N/A	1.00	5/16-18	.50	2.61	3.25	1.63	4.00	2.16	1.94	3/16 x 1.50	1.61	1/8 x 1.44	.625
215	3.44	4.88	5.85	10.13	6.38	1.91	1.540	2.75	N/A	1.38	5/16-18	.63	3.14	4.19	2.09	4.31	2.11	1.90	3/16 x 1.50	1.93	1/8 x 1.44	.750
218	3.56	5.06	5.94	10.32	6.75	2.06	1.750	2.75	N/A	1.38	5/16-18	.63	3.24	4.19	2.09	4.31	2.05	1.84	3/16 x 1.38	1.94	1/8 x 1.44	.875
220	3.81	5.80	6.32	11.06	7.28	2.28	2.063	3.00	N/A	1.50	5/16-18	.63	3.61	4.75	2.38	4.68	2.29	2.08	1/4 x 1.44	2.03	1/8 x 1.44	1.000
224	4.06	6.12	6.44	11.35	7.81	2.50	2.375	2.88	N/A	1.44	3/8-16	.69	3.77	5.00	2.50	5.14	2.66	2.44	1/4 x 1.75	2.06	1/8 x 1.44	1.125
232	5.75	8.50	8.05	14.50	10.22	3.50	3.250	4.00	N/A	2.00	7/16-14	.88	5.02	7.50	3.75	7.06	3.66	3.42	3/8 X 2.62	2.63	3/16 x 1.50	1.500

NEMA Motor Mounting Dimensions

Frame	AJ	AK	BD	OD	BE	BE1	Bore	KWY.**	BF
56C	5.88	4.50	5.88	6.64	.38	N/A	.625	3/16 x 3/32	.41
140TC	5.88	4.50	5.88	6.64	.38	N/A	.875	3/16 x 3/32	.41

**keyway width by depth

NEMA Motor Flange Face Locations

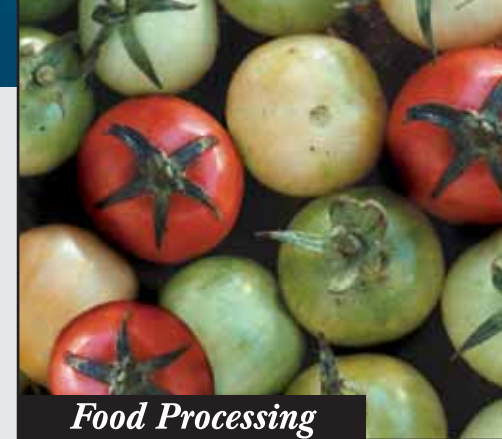
Unit	56C/140TC		
	LM	RQ	LQ
213	6.07	3.09	3.46
215	6.60	3.62	3.99
218	6.70	3.59	4.09
220	7.07	4.06	4.46
224	7.76	4.09	4.63
232	9.01	5.51	5.88

NEMA Motor Data

UNIT	X	Y
213	1.333	1.72
215	1.333	1.72
218	1.333	1.72
220	1.333	1.72
224	1.333	1.72
232	1.540	1.19



Style DHMQ



Food Processing



Chemical Plants



Poultry Processing



Winemaking/Bottling



Papermaking

Corrosion Protection



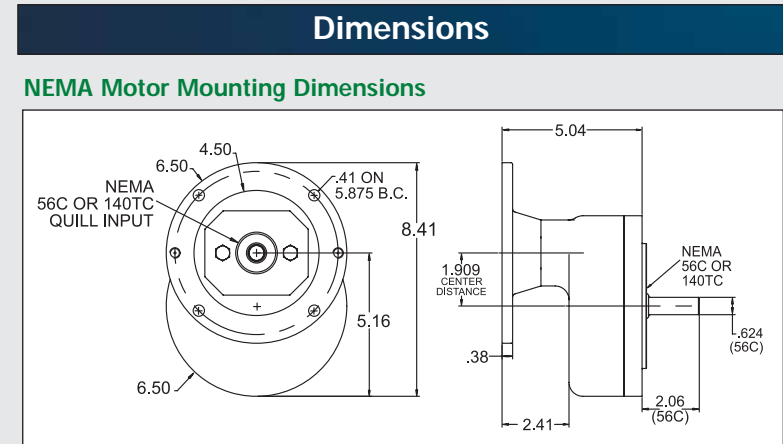
Features & Benefits

- Our 316 investment cast stainless steel housing and covers eliminate rusting and paint peeling.
- Internal Pressure Compensation System keeps pressure down, oil in the box, and contaminants out!
- Our drives come lubed for life with synthetic lubrication, eliminating oil changes.
- O-rings on input/output covers provide positive, hassle-free sealing.
- Non-compressible stainless steel shims maintain factory settings and gear alignment.
- Double-lip, stainless steel case Viton® seals offer superior performance in hot/harsh environments.
- 303 stainless steel output shaft for long, rust resistant life.
- Stainless steel bolts and plugs eliminate rusting.
- Worms cut, heat-treated, ground and polished to provide efficient, quiet operation.
- Stainless steel nameplate is drive screwed & sealed to housing.
- All units 100% run and leak tested at the factory to insure you receive the highest quality product.

No Rust • Heavy Washdown Duty • Lubed For Life

Stainless Steel Ratio Multiplier

Ratings		
RATIO	I.P. HP	O.P. Torque
2.056	4.69	347
2.929	3.64	384
4.000	2.91	419
5.111	2.33	428
7.461	1.56	419



Frame	AJ	AK	BD	OD	BE	BE1	Bore	KWY.**	BF
56C	5.88	4.50	5.88	6.64	.38	N/A	.625	3/16 x 3/32	.41
140TC	5.88	4.50	5.88	6.64	.38	N/A	.875	3/16 x 3/32	.41

**keyway width by depth

Stainless Motors



Stainless Steel Industrial Motors Also Available

For more information, contact us at:

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REV-1/4442G/5K/4-04/UL REV-2/4766G/7.5K/4-05/BP