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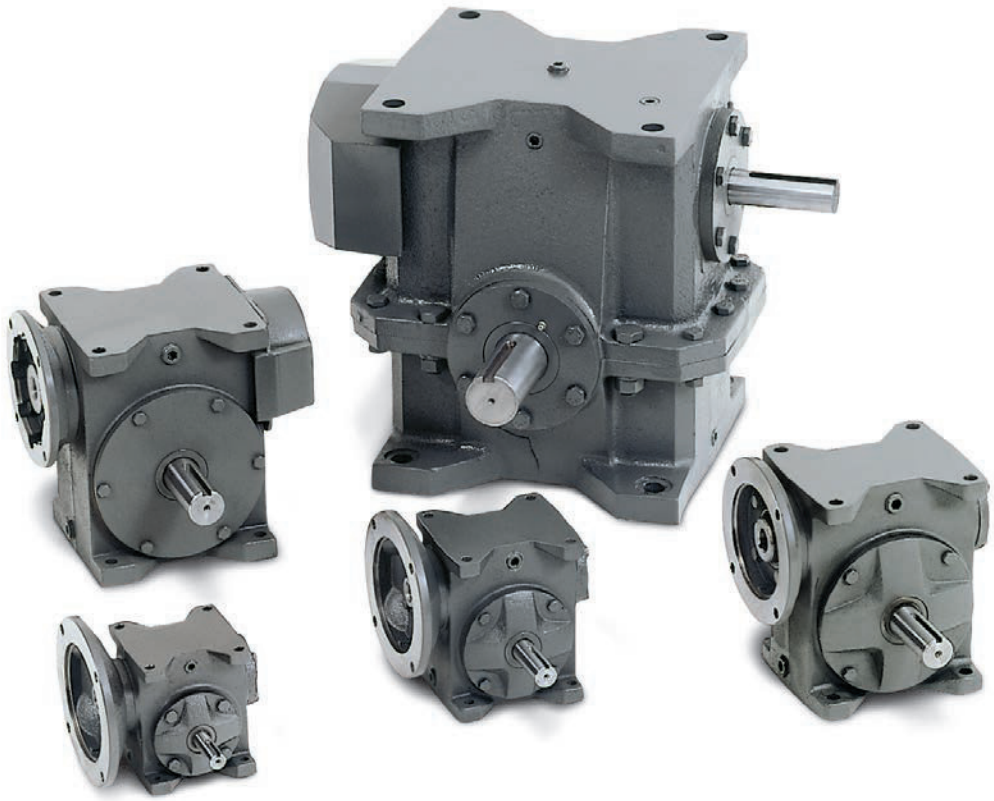
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Find the *ABB / Baldor ST-175-25-A* at our website: *Click HERE*

Universal Series Single Reduction

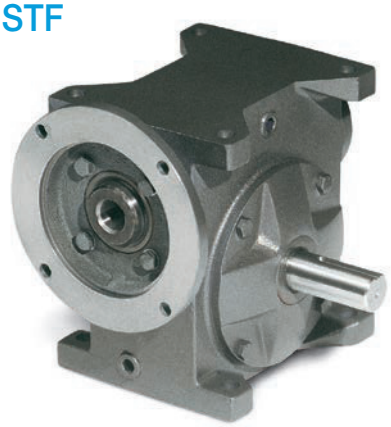
Style Reference Guide 148
How to Order 149
Selection Process 150
Ratings Tables . . . . . 151 - 154
Dimensions . . . . . 155 - 161
Optional Bases 162



Universal Series Style Reference Guide

Single Reduction

STF



Ratings P. 151 - 154
Dimensions P. 155

SVF



Ratings P. 151 - 154
Dimensions P. 156

ST



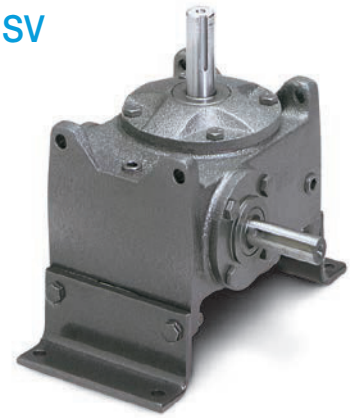
Ratings P. 151 - 154
Dimensions P. 157

SB



Ratings P. 151 - 154
Dimensions P. 158

SV



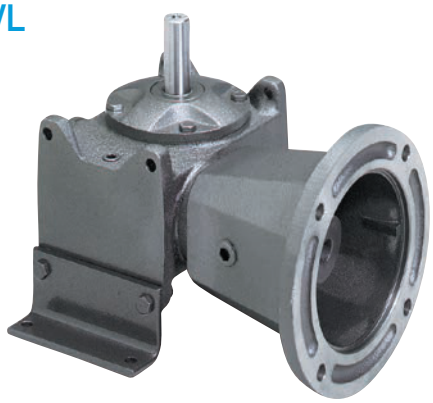
Ratings P. 151 - 154
Dimensions P. 159

STL



Ratings P. 151 - 154
Dimensions P. 160

SVL



Ratings P. 151 - 154
Dimensions P. 161

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Universal Series Numbering System/How to Order

SVF – 175 – 10 – A – E

STYLE		
Single Reduction		
STF	=	Flanged Quill type input
SVF	=	Flanged Quill type input with vertical base
ST	=	Solid worm type input (projecting input shaft)
SB	=	Solid worm type input (projecting input shaft)
SV	=	Solid worm type input (projecting input shaft) with vertical base
STL	=	Flanged coupling type input
SVL	=	Flanged coupling type input with vertical shaft

SIZE (Center Distance)	
133	1.33
175	1.75
200	2.00
225	2.25
258	2.63
300	3.00
350	3.50
400	4.00
500	5.00
600	6.00

NEMA MOTOR FRAME SIZES		
Bore Code*	**Input Bore**	**NEMA Mtg.**
A	.625	56C
B	.875	140TC/180C
C	1.125	180TC/210C
D	1.375	210TC/250UC
E	1.625	250TC
F	1.875	280TC

* Blank for ST, SB or SV

OUTPUT SHAFT ASSEMBLY		
A	=	Right hand
B	=	Left hand
C	=	Double
D	=	Vertical Up
E	=	Vertical Down
F	=	Vertical Double

RATIO
Single Reduction
10:1 through 60:1

HOW TO ORDER

Please specify Style, Size, Base (if required), Ratio, NEMA Input Flange (if flanged reducer), Output shaft assembly.

EXAMPLE

Required size, 175, Quill type input, 10:1, 56C, vertical shaft down

Order **SVF-175-10-A-E** or **GSF1018AA** with Vertical Base Kit **B1317V81** from stock.

Universal Series Selection Procedure

REQUIRED INFORMATION

To select the proper reducer for a given application, several important factors should be taken into consideration. They are: Application, Horsepower, Torque, Ratio and Overhung Load.

Note: See Engineering Information page 185 for detailed information and calculations on horsepower, torque, ratio and overhung load.

CLASS OF SERVICE (APPLICATION)

The horsepower, torque and overhung load ratings shown in the catalog are based on a service factor of 1.0. For applications conforming to a 1.0 service factor, the catalog ratings may be used directly. For applications not conforming to a 1.0 service factor, the catalog rating must be divided by the appropriate service factor from the service factor table. The catalog ratings may be used directly if the actual application horsepower and torque requirements are multiplied by the appropriate service factor.

SERVICE FACTORS

Prime Mover	Duration of Service Total Operating Time per Day	Driven Machine Load Classifications		
		Uniform	Moderate Shock	Heavy Shock
Electric Motor	Occasional 1/2 Hour	0.80	0.90	1.00
	Intermittent 2 Hours	0.90	1.00	1.25
	10 Hours	1.00	1.25	1.50
	24 Hours	1.25	1.50	1.75
Multi-Cylinder Internal Combustion Engine	Occasional 1/2 Hour	0.90	1.00	1.25
	Intermittent 2 Hours	1.00	1.25	1.50
	10 Hours	1.25	1.50	1.75
	24 Hours	1.50	1.75	2.00
Single Cylinder Internal Combustion Engine	Occasional 1/2 Hour	1.00	1.25	1.50
	Intermittent 2 Hours	1.25	1.50	1.75
	10 Hours	1.50	1.75	2.00
	24 Hours	1.75	2.00	2.25

Service Factors for Applications Involving Frequent Stops and Starts — More than 10 Starts Per Hour

Electric Motor	Occasional 1/2 Hour	0.90	1.00	1.25
	Intermittent 2 Hours	1.00	1.25	1.50
	10 Hours	1.25	1.50	1.75
	24 Hours	1.50	1.75	2.00

SELECTION PROCEDURE

Step 1. Select appropriate service factor.

Step 2. Multiply actual application output torque or horsepower required by service factor to obtain design horsepower or torque.

Step 3. Determine appropriate reducer ratio based on input speed and required output speed.

Step 4. Select proper size reducer, based on horsepower and/or torque, service factor and ratio.

Step 5. Determine whether overhung load capacity of reducer selected exceeds actual overhung load of drive.

Step 6. a. Determine proper mounting arrangement.

b. For C-flange (motorized) reducers determine proper catalog designation to accommodate the frame number of the number of the motor to be used.

SELECTION EXAMPLE

Selection the correct C-flange (motorized) reducer to drive a package conveyor, based on the following requirements.

a. Eight hours continuous service per 24 hours, no shock loading.

b. 1 HP, 1750 rpm motor, 56C frame, 875 in. lbs. output torque required.

c. 58 output rpm required.

d. 4.193" pitch diameter sprocket on output shaft.

e. Input worm over single left-hand output shaft, floor mount.

Step 1. Eight hour service, no shock loading indicates use of 1.00 service factor.

Step 2. 1 HP x 1.00 service factor = 1.00 design HP.

875 in. lbs. x 1.00 = 875 in. lbs. output torque capacity required.

Step 3. Determine ratio:

$$\textbf{Ratio} = \frac{\textbf{Input RPM}}{\textbf{Output RPM}} = \frac{1750}{58} = \textbf{30.2, use 30:1}$$

Step 4. Refer to catalog rating tables, smallest unit capable of handling 1.00 input HP, 875 in. lbs. output torque at 30:1 ratio is size 258.

Step 5. Determine whether overhung load of drive exceeds capacity of reducer selected;

$$\textbf{OHL} = \frac{\textbf{Torque x K}}{\textbf{r (sprocket radius)}} = \frac{875 \times 1.00}{2.097} = \textbf{418 Lbs*}$$

See Engineering pg. 185 for Constants

418 pounds is well below the 900 pounds overhung load rating of the reducer selected.

Step 6. Worm over, left hand output extension conforms to Assembly Type B. Use STF-258-30-A-B which has a 30:1 ratio and a motor mounting flange and input bore to accommodate a NEMA 56C motor.

As an alternative to the above, a two-to-one sprocket reduction could be used. With a 21-tooth sprocket on the output shaft and a 42-tooth sprocket on the driven shaft, the torque at the reducer output has been cut in half to 438 lb. in. The reducer ratio requirement has also been cut in half to 15:1. (15:1 reducer x 2:1 sprocket set = 30:1 total)

Now the drive requires a reducer of 15:1 ratio, 438 lb. in. torque capability and an overhung load of 209 lbs.

$$\textbf{OHL} = \frac{\textbf{438(T) x 1(K)}}{\textbf{2.097 (sprocket radius)}} = \textbf{209 lbs. (See Engineering pg. 185)}$$

This requirement can be filled by Baldor's STF-200-30-A-B. It has an output torque capacity of 605 lbs. in. and an overhung load rating of 600 lbs.

By using the 2:1 secondary sprocket reduction, the reducer size has been reduced to two full sizes and an approximately 25% reduction in reducer cost.

*If using output horsepower instead of torque to determine overhung load, use formula:

$$\textbf{OHL} = \frac{\textbf{HP x 63,025 x K}}{\textbf{N x R}} = \textbf{(See Engineering pg. 185)}$$

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Universal Series Single Reduction Ratio and Capacity Selection Tables

Horsepower & Torque Ratings for Service Class I (1.0 Service Factor)

Ratio	Input RPM	Output RPM	SIZE 133			SIZE 175			SIZE 200		
			Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.
10	2400	240.0	0.744	0.663	174	1.297	1.174	308	1.988	1.824	479
	1750	175.0	0.640	0.576	207	1.220	1.100	396	1.770	1.590	572
	1150	115.0	0.485	0.437	229	0.950	0.855	449	1.360	1.220	641
	850	85.0	0.390	0.351	246	0.775	0.697	488	1.120	1.000	700
	100	10.0	0.059	0.053	334	0.121	0.109	687	0.175	0.158	995
15	2400	160.0	0.556	0.473	186	0.947	0.821	323	1.484	1.318	519
	1750	116.7	0.465	0.409	221	0.875	0.770	416	1.280	1.120	605
	1150	76.7	0.345	0.303	239	0.665	0.585	461	0.980	0.862	679
	850	56.7	0.285	0.251	264	0.554	0.487	511	0.805	0.708	743
	100	6.7	0.043	0.037	350	0.087	0.076	719	0.127	0.111	1050
20	2400	120.0	0.447	0.363	191	0.774	0.647	340	1.181	1.014	532
	1750	87.5	0.360	0.306	220	0.685	0.582	419	1.000	0.850	612
	1150	57.5	0.270	0.229	240	0.520	0.442	464	0.760	0.646	678
	850	42.5	0.220	0.187	262	0.430	0.365	511	0.625	0.531	743
	100	5.0	0.033	0.028	353	0.067	0.057	718	0.098	0.083	1046
25	2400	96.0	0.377	0.293	192	0.624	0.497	326	0.987	0.820	538
	1750	70.0	0.295	0.242	218	0.550	0.451	406	0.815	0.668	601
	1150	46.0	0.220	0.180	236	0.420	0.344	451	0.625	0.512	672
	850	34.0	0.180	0.147	257	0.350	0.287	502	0.512	0.420	735
	100	4.0	0.027	0.022	347	0.055	0.045	709	0.090	0.074	1166
30	2400	80.0	0.328	0.244	192	0.564	0.436	343	0.852	0.685	540
	1750	58.3	0.247	0.198	214	0.470	0.376	406	0.729	0.584	631
	1150	38.3	0.186	0.149	235	0.360	0.288	454	0.520	0.416	655
	850	28.3	0.152	0.122	256	0.295	0.236	495	0.430	0.344	722
	100	3.3	0.023	0.018	344	0.043	0.034	649	0.068	0.054	1031
40	2400	60.0	0.264	0.181	190	0.449	0.323	339	0.672	0.509	534
	1750	43.8	0.190	0.143	206	0.360	0.270	389	0.525	0.394	568
	1150	28.8	0.142	0.107	225	0.275	0.206	433	0.400	0.300	630
	850	21.3	0.115	0.085	241	0.226	0.170	476	0.330	0.248	694
	100	21.3	0.016	0.012	302	0.036	0.027	680	0.052	0.039	983
50	2400	48.0	0.220	0.140	183	0.358	0.238	312	0.549	0.392	515
	1750	35.0	0.152	0.106	191	0.286	0.200	360	0.425	0.298	536
	1150	23.0	0.115	0.081	213	0.220	0.154	404	0.323	0.226	593
	850	17.0	0.094	0.066	231	0.180	0.126	441	0.265	0.186	651
	100	2.0	0.014	0.010	315	0.028	0.020	630	0.042	0.029	914
60	2400	40.0	0.186	0.111	174	0.311	0.197	310	0.459	0.310	488
	1750	29.2	0.128	0.083	180	0.244	0.159	343	0.360	0.234	505
	1150	19.2	0.096	0.062	195	0.187	0.126	397	0.270	0.176	554
	850	14.2	0.078	0.051	214	0.153	0.099	416	0.220	0.143	600
	100	1.7	0.011	0.007	276	0.024	0.015	591	0.035	0.023	906
OVERHUNG LOAD*			**INPUT SHAFT 155 LBS. OUTPUT SHAFT 280 LBS.**			**INPUT SHAFT 155 LBS. OUTPUT SHAFT 460 LBS.**			**INPUT SHAFT 225 LBS. OUTPUT SHAFT 650 LBS.**		
OUTPUT SHAFT THRUST LOAD			**300 LBS.**			**400 LBS.**			**600 LBS.**		
MAXIMUM INPUT SPEED			**4500 RPM**			**3600 RPM**			**3600 RPM**		

*Overhung Load Rating is at center of shaft extension with no thrust load.

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Universal Series Single Reduction Ratio and Capacity Selection Tables

Horsepower & Torque Ratings for Service Class I (1.0 Service Factor)

Ratio	Input RPM	Output RPM	SIZE 225			SIZE 258			SIZE 300		
			Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.
10	2400	240.0	2.631	2.431	638	3.984	3.701	972	5.252	4.680	1229
	1750	175.0	2.440	2.190	788	3.430	3.080	1109	4.400	3.960	1426
	1150	115.0	1.860	1.670	877	2.650	2.380	1250	3.530	3.170	1664
	850	85.0	1.530	1.370	959	2.200	1.980	1386	2.950	2.650	1855
	100	10.0	0.243	0.219	1380	0.365	0.328	2066	0.510	0.460	2898
15	2400	160.0	1.939	1.750	689	2.955	2.672	1052	3.939	3.351	1320
	1750	116.7	1.840	1.620	875	2.500	2.200	1188	3.250	2.860	1544
	1150	76.7	1.390	1.220	961	1.940	1.700	1340	2.580	2.270	1789
	850	56.7	1.140	1.000	1050	1.600	1.410	1481	2.160	1.900	1995
	100	6.7	0.176	0.155	1466	0.260	0.228	2156	0.368	0.324	3065
20	2400	120.0	1.564	1.360	714	2.348	2.060	1082	3.088	2.508	1317
	1750	87.5	1.350	1.150	828	1.920	1.630	1174	2.520	2.140	1541
	1150	57.5	1.040	0.884	928	1.480	1.260	1323	2.020	1.710	1796
	850	42.5	0.850	0.722	1011	1.230	1.040	1456	1.680	1.430	2002
	100	5.0	0.136	0.115	1449	0.202	0.171	2154	0.285	0.242	3049
25	2400	96.0	1.294	1.098	721	1.955	1.673	1098	2.577	2.003	1315
	1750	70.0	1.090	0.904	814	1.520	1.250	1125	2.080	1.710	1539
	1150	46.0	0.825	0.676	887	1.180	0.967	1269	1.650	1.350	1771
	850	34.0	0.685	0.561	981	0.985	0.807	1412	1.380	1.130	1978
	100	4.0	0.111	0.091	1433	0.165	0.135	2126	0.235	0.193	3040
30	2400	80.0	1.110	0.917	722	1.675	1.397	1100	2.189	1.629	1283
	1750	58.3	0.980	0.784	847	1.350	1.080	1166	1.740	1.390	1501
	1150	38.3	0.745	0.596	939	1.040	0.832	1310	1.390	1.110	1748
	850	28.3	0.610	0.488	1025	0.860	0.688	1445	1.160	0.928	1949
	100	3.3	0.094	0.075	1432	0.140	0.112	2138	0.196	0.157	2997
40	2400	60.0	0.882	0.682	716	1.319	1.036	1088	1.744	1.196	1256
	1750	43.8	0.710	0.536	772	1.010	0.760	1095	1.360	1.020	1470
	1150	28.8	0.545	0.409	859	0.780	0.585	1229	1.080	0.810	1701
	850	21.3	0.450	0.338	946	0.645	0.484	1355	0.900	0.675	1890
	100	21.3	0.072	0.054	1361	0.106	0.080	2016	0.153	0.115	2898
50	2400	48.0	0.709	0.526	690	1.054	0.685	900	1.381	0.879	1154
	1750	35.0	0.550	0.385	693	0.790	0.553	995	1.070	0.750	1350
	1150	23.0	0.430	0.301	790	0.615	0.431	1131	0.850	0.595	1562
	850	17.0	0.354	0.248	868	0.510	0.357	1250	0.710	0.497	1740
	100	2.0	0.058	0.041	1291	0.086	0.060	1890	0.118	0.083	2615
60	2400	40.0	0.590	0.416	656	0.952	0.571	900	1.072	0.640	1008
	1750	29.2	0.510	0.325	702	0.695	0.452	976	0.840	0.546	1179
	1150	19.2	0.385	0.250	788	0.525	0.341	1074	0.670	0.436	1373
	850	14.2	0.315	0.205	861	0.445	0.290	1218	0.560	0.364	1529
	100	1.7	0.049	0.032	1260	0.072	0.047	1851	0.094	0.061	2402
OVERHUNG LOAD*			**INPUT SHAFT 225 LBS. OUTPUT SHAFT 870 LBS.**			**INPUT SHAFT 414 LBS. OUTPUT SHAFT 1200 LBS.**			**INPUT SHAFT 414 LBS. OUTPUT SHAFT 1575 LBS.**		
OUTPUT SHAFT THRUST LOAD			**750 LBS.**			**900 LBS.**			**1100 LBS.**		
MAXIMUM INPUT SPEED			**3600 RPM**			**3600 RPM**			**3600 RPM**		

*Overhung Load Rating is at center of shaft extension with no thrust load.

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Universal Series Single Reduction Ratio and Capacity Selection Tables

Horsepower & Torque Ratings for Service Class I (1.0 Service Factor)

Ratio	Input RPM	Output RPM	SIZE 350 FC			SIZE 400 FC			SIZE 500 FC		
			Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.	Input Hp	Output Hp	Output Torque In. Lbs.
10	2400	240.0	8.320	7.758	2036	11.305	10.587	2779	19.105	17.983	4721
	1750	175.0	6.680	5.940	2138	9.770	8.690	3128	17.600	15.660	5638
	1150	115.0	5.800	5.160	2709	8.420	7.500	3938	15.000	13.350	7009
	850	85.0	5.030	4.470	3129	7.210	6.410	4487	13.000	11.570	8099
	100	10.0	0.877	0.780	4914	1.350	1.200	7560	2.590	2.300	14490
15	2400	160.0	6.167	5.594	2203	8.503	7.771	3060	14.140	13.000	5118
	1750	116.7	5.350	4.650	2525	7.350	6.380	3464	13.220	11.370	6122
	1150	76.7	4.640	4.030	3171	6.430	5.600	4407	11.540	9.920	7812
	850	56.7	4.030	3.500	3675	5.560	4.830	5071	10.200	8.700	9212
	100	6.7	0.716	0.623	5946	1.020	0.880	8400	1.950	1.680	16036
20	2400	120.0	4.869	4.294	2254	6.599	5.866	3080	11.160	9.989	5244
	1750	87.5	3.890	3.300	2363	5.800	4.930	3530	11.100	9.430	6790
	1150	57.5	3.400	2.890	3034	5.090	4.320	4536	9.520	8.090	8495
	850	42.5	2.970	2.520	3528	4.490	3.810	5334	8.350	7.090	9926
	100	5.0	0.562	0.477	5254	0.861	0.732	9223	1.630	1.380	17388
30	2400	80.0	3.533	2.971	2340	4.729	4.016	3162	7.827	6.729	5299
	1750	58.3	2.820	2.250	2443	4.100	3.280	3562	7.820	6.250	6754
	1150	38.3	2.440	1.950	3071	3.600	2.880	4536	6.780	5.420	8536
	850	28.3	2.130	1.700	3570	3.170	2.530	5313	5.830	4.660	9786
	100	3.3	0.394	0.315	6013	0.608	0.486	9278	1.150	0.920	17564
40	2400	60.0	2.711	2.147	2255	3.660	2.943	3091	6.156	5.000	5248
	1750	43.8	2.240	1.680	2405	3.210	2.410	3448	6.050	4.540	6500
	1150	28.8	1.980	1.480	3108	2.860	2.150	4515	5.110	3.830	8043
	850	21.3	1.750	1.310	3750	2.550	1.910	5468	4.310	3.230	9044
	100	2.5	0.347	0.260	6552	0.522	0.391	9853	1.030	0.770	19454
50	2400	48.0	2.249	1.705	2238	2.712	2.056	2700	4.916	3.853	5058
	1750	35.0	1.750	1.220	2196	2.390	1.670	3006	4.950	3.660	6591
	1150	23.0	1.550	1.080	2835	2.140	1.500	3938	4.250	2.970	7796
	850	17.0	1.370	0.960	3360	1.910	1.330	4655	3.620	2.530	8855
	100	2.0	0.279	0.195	6142	0.398	0.278	8757	0.830	0.580	18428
60	2400	40.0	1.847	1.345	2118	1.917	1.396	2200	4.036	3.050	4803
	1750	29.2	1.500	0.980	2128	1.820	1.180	2563	4.050	2.880	6259
	1150	19.2	1.330	0.860	2709	1.630	1.060	3339	3.480	2.260	7119
	850	14.2	1.170	0.760	3192	1.460	0.950	3990	3.120	2.030	8526
	100	1.7	0.230	0.150	5906	0.312	0.203	7993	0.700	0.460	16936
OVERHUNG LOAD*			**INPUT SHAFT 1055 LBS. OUTPUT SHAFT 1695 LBS.**			**INPUT SHAFT 1625 LBS. OUTPUT SHAFT 1950 LBS.**			**INPUT SHAFT 1330 LBS. OUTPUT SHAFT 2880 LBS.**		
OUTPUT SHAFT THRUST LOAD			**1200 LBS.**			**1700 LBS.**			**2100 LBS.**		
MAXIMUM INPUT SPEED			**3600 RPM**			**3600 RPM**			**3600 RPM**		

*Overhung Load Rating is at center of shaft extension with no thrust load.

Universal Series Single Reduction Ratio and Capacity Selection Tables

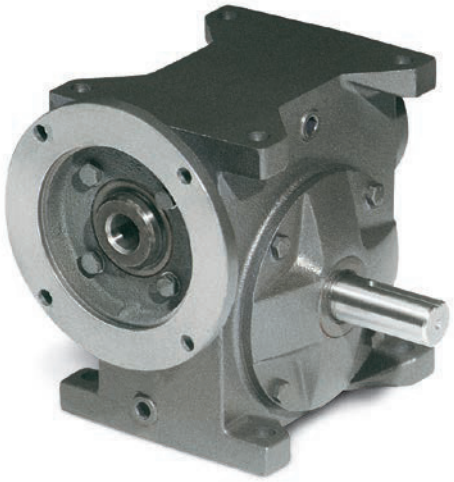
Horsepower & Torque Ratings for Service Class I (1.0 Service Factor)

Ratio	Input RPM	Output RPM	SIZE 600 FC		
			Input Hp	Output Hp	Output Torque In. Lbs.
10	2400	240.0	28.618	27.026	7094
	1750	175.0	26.130	22.360	8050
	1150	115.0	21.120	18.790	9865
	850	85.0	18.690	16.630	11641
	100	10.0	4.310	3.840	24192
15	2400	160.0	21.051	14.439	7654
	1750	116.7	18.550	15.950	8588
	1150	76.7	15.630	13.440	10584
	850	56.7	13.960	12.000	12605
	100	6.7	3.240	2.780	26536
20	2400	120.0	16.274	14.641	7686
	1750	87.5	14.360	12.210	8791
	1150	57.5	12.150	10.330	10846
	850	42.5	10.890	9.260	12964
	100	5.0	2.660	2.260	28476
30	2400	80.0	11.675	10.124	7973
	1750	58.3	10.330	8.260	8926
	1150	38.3	8.810	7.050	11104
	850	28.3	7.990	6.390	13419
	100	3.3	1.930	1.540	29400
40	2400	60.0	8.958	7.350	7717
	1750	43.8	8.000	6.240	8938
	1150	28.8	6.920	5.190	10890
	850	21.3	6.250	4.680	13104
	100	2.5	1.680	1.260	31752
50	2400	48.0	7.285	5.775	7580
	1750	35.0	7.210	5.410	9742
	1150	23.0	6.000	4.200	11025
	850	17.0	5.160	3.610	12635
	100	2.0	1.410	0.990	31185
60	2400	40.0	5.986	4.593	7234
	1750	29.2	5.350	3.910	8498
	1150	19.2	4.680	3.040	9576
	850	14.2	4.320	2.810	11802
	100	1.7	1.160	0.750	27794
OVERHUNG LOAD*			**INPUT SHAFT 1350 LBS. OUTPUT SHAFT 3880 LBS.**		
OUTPUT SHAFT THRUST LOAD			**2500 LBS.**		
MAXIMUM INPUT SPEED			**2500 RPM**		

* Overhung Load Rating is at center of shaft extension with no thrust load.

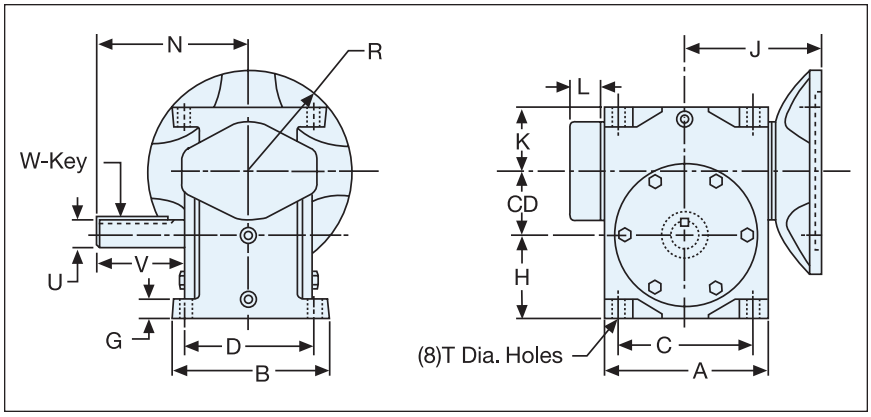
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Style STF



Universal Series Dimensions

Single Reduction Flanged Quill Type



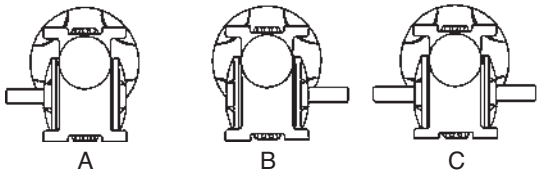
Size	C.D.	A	B	C	D	G	H	J			K	L Fan Guard	N	T Dia.
								56C 140TC	180TC 210C	210TC				
133	1.33	4.25	4.38	3.50	3.63	0.50	2.00	3.88	—	—	1.88	—	4.13	0.343
175	1.75	4.25	4.38	3.50	3.63	0.50	2.38	3.88	—	—	1.88	—	4.25	0.343
200	2.00	5.25	5.00	4.25	4.13	0.63	2.69	4.38	—	—	2.06	—	4.88	0.406
225	2.25	5.25	5.00	4.25	4.13	0.63	2.94	4.38	—	—	2.06	—	5.13	0.343
258	2.63	7.00	6.25	5.63	5.13	0.75	3.25	5.00	6.06	—	2.38	—	5.50	0.531
300	3.00	7.00	6.25	5.63	5.13	0.75	3.63	5.00	6.06	—	2.38	—	5.88	0.531
350	3.50	7.63	7.63	6.38	6.38	0.88	4.13	5.41	6.22	—	2.63	2.13	6.50	0.531
400	4.00	8.63	8.63	7.38	7.38	0.88	4.50	5.94	6.75	6.75	3.00	2.13	7.38	0.531

Size	Output Shaft		W-Key		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity Oz.
	U +0.000 -0.001	V	Sq.	Lgth.			
133	0.625	1.88	0.187	1.18	A	15.5	5
175	0.750	2.00	0.187	1.31	A, B	17.5	6
200	0.875	2.44	0.187	1.75	A, B	24	10
225	1.000	2.69	0.250	1.88	A, B	27	14
258	1.125	2.63	0.250	1.88	A, B, C	42	32
300	1.250	3.00	0.250	2.25	A, B, C	47	40
350	1.500	3.44	0.375	2.75	A, B, C, D	73	51
400	1.625	3.75	0.375	2.75	A, B, C, D	96	80

Motor Information				
Worm Bore Size Designation	NEMA Design	Bore +0.002 -0.000	Key Way	R
A	56C	0.625	0.187 x 0.093	3.25
B	180C/140TC	0.875	0.187 x 0.093	3.25
C	180TC/210C	1.125	0.250 x 0.125	4.50
D	210TC	1.375	0.312 x 0.156	4.50

Assembly Types

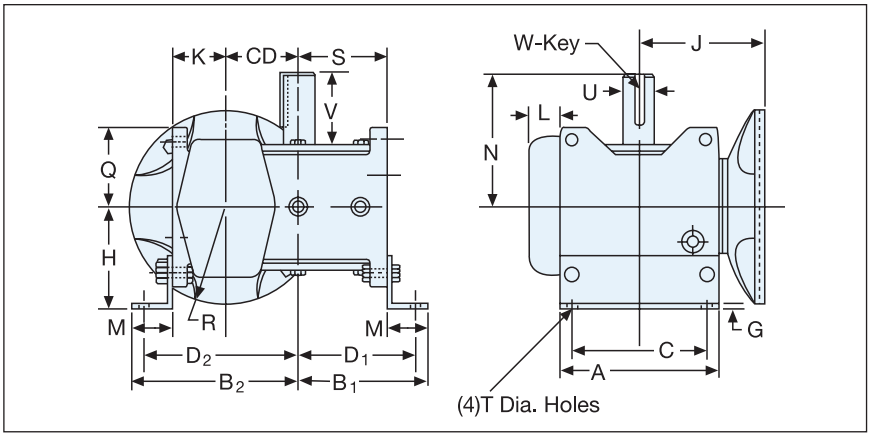
End View



Style SVF



Universal Series Dimensions
Single Reduction Flanged Quill Type

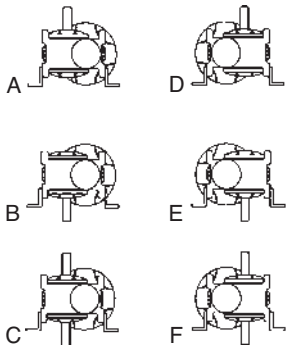


Size	C.D.	A	B_1	B_2	C	D_1	D_2	G	H		J			K	L	M	N	Q	S	T
									Except 258C & 300C	258C & 300C Only	56C 140TC	180TC 210C	210TC							
133	1.33	4.25	3.31	4.53	3.50	2.88	4.09	0.25	3.38	—	3.88	—	—	1.88	—	1.31	4.13	2.188	2.00	0.343
175	1.75	4.25	3.69	4.94	3.50	3.25	4.50	0.25	3.38	—	3.88	—	—	1.88	—	1.31	4.25	2.188	2.38	0.343
200	2.00	5.25	4.25	5.63	4.25	3.75	5.13	0.25	3.38	—	4.38	—	—	2.06	—	1.56	4.88	2.500	2.69	0.406
225	2.25	5.25	4.50	5.88	4.25	4.00	5.38	0.25	3.38	—	4.38	—	—	2.06	—	1.56	5.13	2.500	2.94	0.406
258	2.63	7.00	5.31	7.06	5.63	4.75	6.50	0.25	3.38	5.38	5.00	6.06	—	2.38	—	2.06	5.50	3.125	3.25	0.531
300	3.00	7.00	5.69	7.44	5.63	5.13	6.88	0.25	3.38	5.38	5.00	606	—	2.38	—	2.06	5.88	3.125	3.63	0.531
350	3.50	7.63	6.13	8.13	6.38	5.50	7.50	0.25	4.56	—	5.41	6.22	—	2.63	2.13	2.00	6.50	3.813	4.13	0.531
400	4.00	8.63	6.50	9.00	7.38	5.88	8.38	0.25	5.08	—	5.94	6.75	6.75	3.00	2.13	2.00	7.38	5.313	4.50	0.531

Size	Output Shaft		W-Key		Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity Oz.
	U +0.000 -0.001	V	Sq.	Lgth.			
133	0.625	1.88	0.187	1.18	A	16.5	8
175	0.750	2.00	0.187	1.31	A,	18.5	9
200	0.875	2.44	0.187	1.75	A,	25	11
225	1.000	2.69	0.250	1.88	A,	28	15
258	1.125	2.63	0.250	1.88	A,	45	32
300	1.250	3.00	0.250	2.25	A, B, C	49	38
350	1.500	3.44	0.375	2.75	A, B, C,	75	51
400	1.625	3.75	0.375	2.75	A, B, C, D	98	80

Motor Information				
Worm Bore Size Designation	NEMA Design	Bore +0.002 -0.000	Key Way	R
A	56C	0.625	0.187 x 0.093	3.25
B	180C/140TC	0.875	0.187 x 0.093	3.25
C	180TC/210C	1.125	0.250 x 0.125	4.50
D	210TC	1.375	0.312 x 0.156	4.50

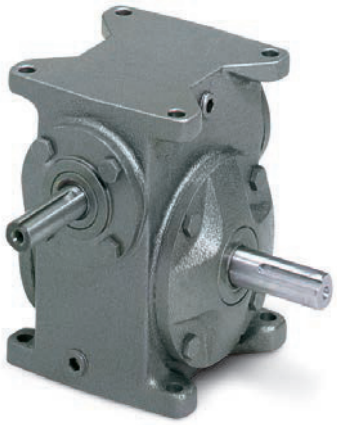
Assembly Types
Side View

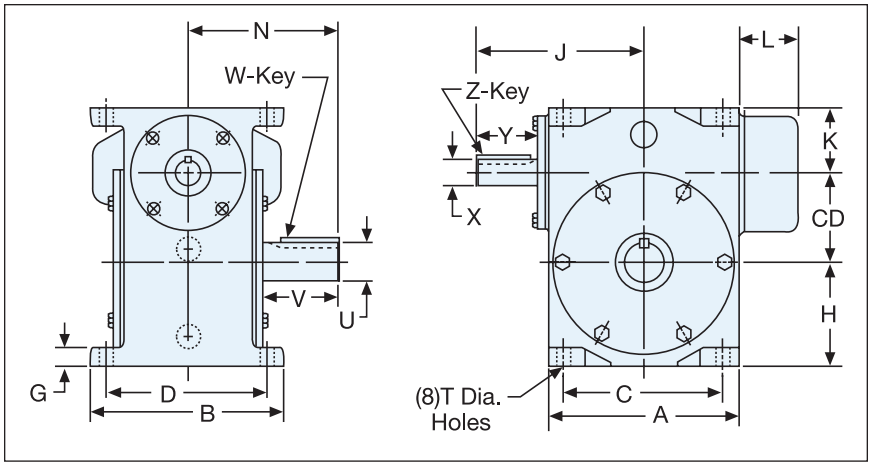


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Style ST

Universal Series Dimensions
Single Reduction Solid Worm Type

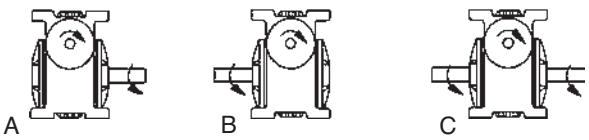




Size	C.D.	A	B	C	D	G	H	J	K	L Fan Cooled	N	T
133	1.33	4.25	4.38	3.50	3.63	0.50	2.00	4.63	1.88	—	4.13	0.343
175	1.75	4.25	4.38	3.50	3.63	0.50	2.38	4.63	1.88	—	4.25	0.343
200	2.00	5.25	5.00	4.25	4.13	0.63	2.69	5.38	2.06	—	4.88	0.406
225	2.25	5.25	5.00	4.25	4.13	0.63	2.94	5.38	2.06	—	5.13	0.406
258	2.63	7.00	6.25	5.63	5.13	0.75	3.25	6.50	2.38	—	5.50	0.531
300	3.00	7.00	6.25	5.63	5.13	0.75	3.63	6.50	2.38	—	5.88	0.531
350	3.50	7.63	7.63	6.38	6.38	0.88	4.13	7.16	2.63	2.13	6.50	0.531
400	4.00	8.63	8.63	7.38	7.38	0.88	4.50	7.69	3.00	2.13	7.38	0.531
500	5.00	11.75	11.88	9.13	10.00	1.13	6.13	11.03	4.38	3.38	9.75	0.781
600	6.00	13.25	12.88	11.00	11.00	1.25	6.75	11.94	4.50	3.38	10.63	0.906

Size	Output Shaft				Input Shaft				Approximate Weight Lbs.	Approximate Oil Capacity Oz.
	U +0.000 -0.001	V	W-Key		X +0.000 -0.001	Y	Z-Key			
			Sq.	Lgth.			Sq.	Lgth.		
133	0.625	1.88	0.187	1.18	0.500	1.88	0.125	1.38	12.5	5
175	0.750	2.00	0.187	1.31	0.625	1.88	0.187	1.38	14.5	6
200	0.875	2.44	0.187	1.75	0.625	2.13	0.187	1.50	20	10
225	1.000	2.69	0.250	1.88	0.750	2.13	0.187	1.50	22	14
258	1.125	2.63	0.250	1.88	0.750	2.38	0.187	1.88	36	32
300	1.250	3.00	0.250	2.25	0.875	2.38	0.187	1.88	40	40
350	1.500	3.44	0.375	2.75	1.000	2.66	0.250	2.25	66	51
400	1.625	3.75	0.375	2.75	1.125	2.69	0.250	2.50	91	80
500	2.000	3.81	0.500	2.50	1.500	3.97	0.375	3.25	315	211
600	2.250	4.44	0.500	3.38	1.500	4.16	0.375	3.50	375	256

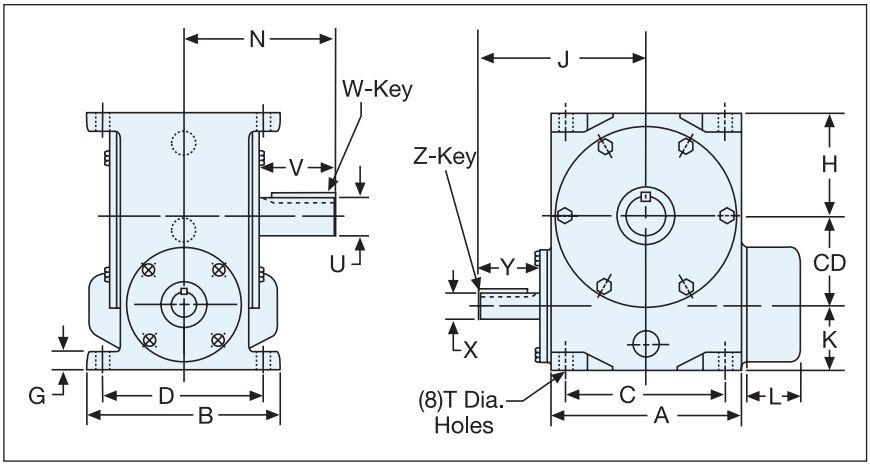
Assembly Types
Side View



Style SB

Universal Series Dimensions
Single Reduction Solid Worm Type

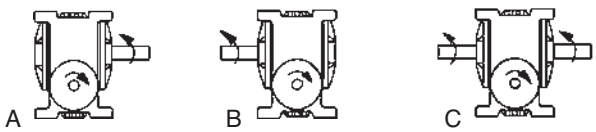




Size	C.D.	A	B	C	D	G	H	J	K	L Fan Cooled	N	T
133	1.33	4.25	4.38	3.50	3.63	0.50	2.00	4.63	1.88	—	4.13	0.343
175	1.75	4.25	4.38	3.50	3.63	0.50	2.38	4.63	1.88	—	4.25	0.343
200	2.00	5.25	5.00	4.25	4.13	0.63	2.69	5.38	2.06	—	4.88	0.406
225	2.25	5.25	5.00	4.25	4.13	0.63	2.94	5.38	2.06	—	5.13	0.406
258	2.63	7.00	6.25	5.63	5.13	0.75	3.25	6.50	2.38	—	5.50	0.531
300	3.00	7.00	6.25	5.63	5.13	0.75	3.63	6.50	2.38	—	5.88	0.531
350	3.50	7.63	7.63	6.38	6.38	0.88	4.13	7.16	2.63	2.13	6.50	0.531
400	4.00	8.63	8.63	7.38	7.38	0.88	4.50	7.69	3.00	2.13	7.38	0.531
500	5.00	11.75	11.88	9.13	10.00	1.13	6.13	11.03	4.38	3.38	9.75	0.781
600	6.00	13.25	12.88	11.00	11.00	1.25	6.75	11.94	4.50	3.38	10.63	0.906

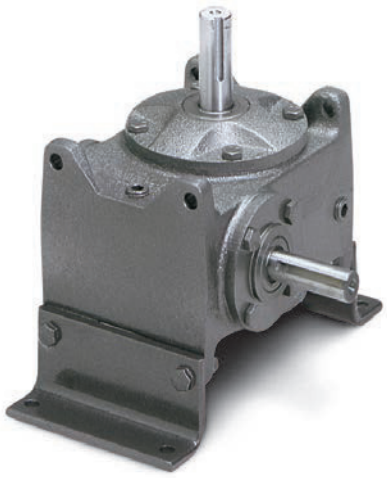
Size	Output Shaft				Input Shaft				Approximate Weight Lbs.	Approximate Oil Capacity Oz.
	U +0.000 -0.001	V	W-Key		X +0.000 -0.001	Y	Z-Key			
			Sq.	Lgth.			Sq.	Lgth.		
133	0.625	1.88	0.187	1.18	0.500	1.88	0.125	1.38	12.5	10
175	0.750	2.00	0.187	1.31	0.625	1.88	0.187	1.38	14.5	10
200	0.875	2.44	0.187	1.75	0.625	2.13	0.187	1.50	20	12
225	1.000	2.69	0.250	1.88	0.750	2.13	0.187	1.50	22	14
258	1.125	2.63	0.250	1.88	0.750	2.38	0.187	1.88	36	32
300	1.250	3.00	0.250	2.25	0.875	2.38	0.187	1.88	40	40
350	1.500	3.44	0.375	2.75	1.000	2.66	0.250	2.25	66	51
400	1.625	3.75	0.375	2.75	1.125	2.69	0.250	2.50	91	80
500	2.000	3.81	0.500	2.50	1.500	3.97	0.375	3.25	315	211
600	2.250	4.44	0.500	3.38	1.500	4.16	0.375	3.50	375	256

Assembly Types
Side View



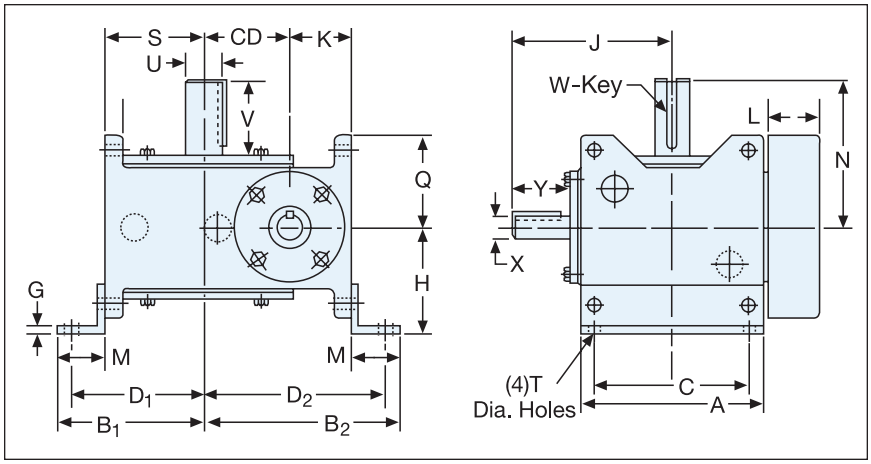
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Style SV



Universal Series Dimensions

Single Reduction Solid Worm Type

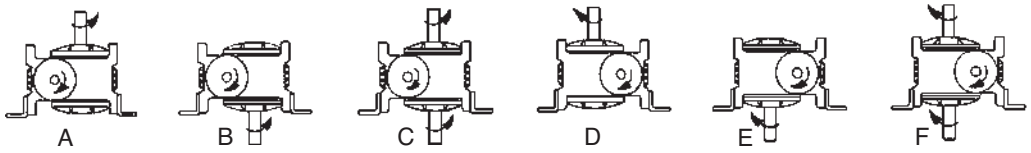


Size	C.D.	A	B1	B2	C	D1	D2	G	H	J	K	L Fan Guard	M	N	Q	S	T
133	1.33	4.25	4.47	3.97	3.50	2.88	3.97	0.25	3.38	4.63	1.88	—	1.25	4.13	2.188	2.00	0.343
175	1.75	4.25	3.63	4.88	3.50	3.25	4.50	0.25	3.38	4.63	1.88	—	1.25	4.25	2.188	2.38	0.406
200	2.00	5.25	4.19	5.56	4.25	3.75	5.13	0.25	3.38	5.38	2.06	—	1.56	4.88	2.500	2.69	0.406
225	2.25	5.25	4.44	5.81	4.25	4.00	5.38	0.25	3.38	5.38	2.06	—	1.56	5.13	2.500	2.94	0.406
258	2.63	7.00	5.25	7.00	5.63	4.75	6.50	0.25	3.38	6.50	2.38	—	2.00	5.50	3.125	3.25	0.531
300	3.00	7.00	5.63	7.38	5.63	5.13	6.88	0.25	3.38	6.50	2.38	—	2.00	5.88	3.125	3.63	0.531
350	3.50	7.63	6.13	8.13	6.38	5.50	7.50	0.25	4.56	7.16	2.63	2.13	2.00	6.50	3.813	4.13	0.531
400	4.00	8.63	6.50	9.00	7.38	5.88	8.38	0.25	5.06	7.69	3.00	2.13	2.00	7.38	5.313	4.50	0.531
500	5.00	11.75	9.63	12.88	9.13	8.13	11.38	0.50	7.00	11.03	4.38	3.38	3.50	9.75	5.313	6.13	0.781
600	6.00	13.25	10.75	14.50	11.00	9.19	12.94	0.50	7.94	11.94	4.50	3.38	4.00	10.63	6.438	6.75	0.906

Size	Output Shaft				Input Shaft				Approximate Weight Lbs.	Approximate Oil Capacity Oz.
	U +0.000 -0.001	V	W-Key		X +0.000 -0.001	Y	Z-Key			
			Sq.	Lgth.			Sq.	Lgth.		
133	0.625	1.88	0.187	1.18	0.500	1.88	0.125	1.38	13.5	8
175	0.750	2.00	0.187	1.31	0.625	1.88	0.187	1.38	15.5	9
200	0.875	2.44	0.187	1.75	0.625	2.13	0.187	1.50	21	11
225	1.000	2.69	0.250	1.88	0.750	2.13	0.187	1.50	23	15
258	1.125	2.63	0.250	1.88	0.750	2.38	0.187	1.88	38	32
300	1.250	3.00	0.250	2.25	0.875	2.38	0.187	1.88	42	38
350	1.500	3.44	0.375	2.75	1.000	2.66	0.250	2.25	68	51
400	1.625	3.75	0.375	2.75	1.125	2.69	0.250	2.50	93	80
500	2.000	3.81	0.500	2.50	1.500	3.97	0.375	3.25	319	211
600	2.250	4.44	0.500	3.38	1.500	4.16	0.375	3.50	379	256

Assembly Types

Side View

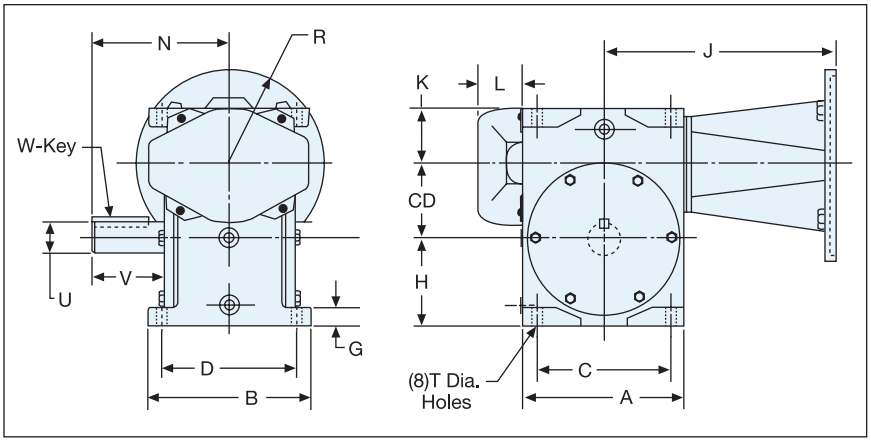


Style STL

Universal Series Dimensions

Single Reduction Flanged Coupling Type





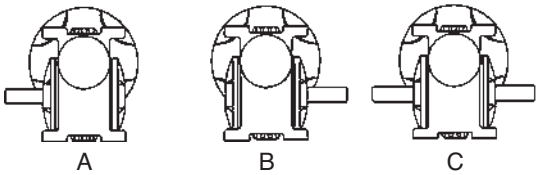
Size	C.D.	A	B	C	D	G	H	R					J					K	L	N	T
								56C 140TC	180TC 210C	210TC	250TC	280TC	56C 140TC	180TC 210C	210TC	250TC	280TC				
133	1.33	4.25	4.38	3.50	3.63	0.50	2.00	3.25	—	—	—	—	7.25	—	—	—	—	1.88	—	4.13	0.343
175	1.75	4.25	4.38	3.50	3.63	0.50	2.38	3.25	3.25	—	—	—	8.03	—	—	—	—	1.88	—	4.25	0.343
200	2.00	5.25	5.00	4.25	4.13	0.63	2.69	3.25	3.25	—	—	—	8.03	—	—	—	—	2.06	—	4.88	0.406
225	2.25	5.25	5.00	4.25	4.13	0.63	2.94	3.25	—	—	—	—	8.03	—	—	—	—	2.06	—	5.13	0.406
258	2.63	7.00	6.25	5.63	5.13	0.75	3.25	3.25	4.50	—	—	—	9.38	10.19	—	—	—	2.38	—	5.50	0.531
300	3.00	7.00	6.25	5.63	5.13	0.75	3.63	3.25	4.50	—	—	—	9.38	10.19	—	—	—	2.38	—	5.88	0.531
350	3.50	7.63	7.63	6.38	6.38	0.88	4.13	3.25	4.50	—	—	—	9.78	11.22	—	—	—	2.63	2.13	6.50	0.531
400	4.00	8.63	8.63	7.38	7.38	0.88	4.50	3.25	4.50	4.50	—	—	10.31	11.75	11.75	—	—	3.00	2.13	7.38	0.531
500	5.00	11.75	11.88	9.13	10.00	1.13	6.13	—	4.56	4.56	4.56	—	—	15.81	15.81	15.81	—	4.38	3.38	9.75	0.781
600	6.00	13.25	12.88	11.00	11.00	1.25	6.75	—	4.50	4.50	4.50	5.56	—	16.69	16.69	16.69	17.56	4.56	3.38	10.63	0.906

Size	Output Shaft				Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity Oz.
	U +0.000 -0.001	V	W-Key				
			Sq.	Lgth.			
133	0.625	1.88	0.187	1.18	A, B, C, D	19.5	256
175	0.750	2.00	0.187	1.31	A, B	21.5	6
200	0.875	2.44	0.187	1.75	A, B	28	10
225	1.000	2.69	0.250	1.88	A, B	31	14
258	1.125	2.63	0.250	1.88	A, B, C	46	32
300	1.250	3.00	0.250	2.25	A, B, C	51	40
350	1.500	3.44	0.375	2.75	A, B, C, D	79	51
400	1.625	3.75	0.375	2.75	A, B, C, D	100	80
500	2.000	3.75	0.500	3.81	C, D, E	360	211
600	2.250	4.44	0.500	3.38	C, D, E, F	420	256

Motor Information			
Coupling Bore Size Designation	NEMA Design	Bore +0.002 -0.000	Key Way
A	56C	0.625	0.187 x 0.093
B	140tC	0.875	0.187 x 0.093
C	180tc	1.125	0.250 x 0.125
D	210TC	1.375	0.187 x 0.156
E	250TC	1.625	0.375 x 0.187
F	280TC	1.875	0.500 x 0.250

Assembly Types

End View



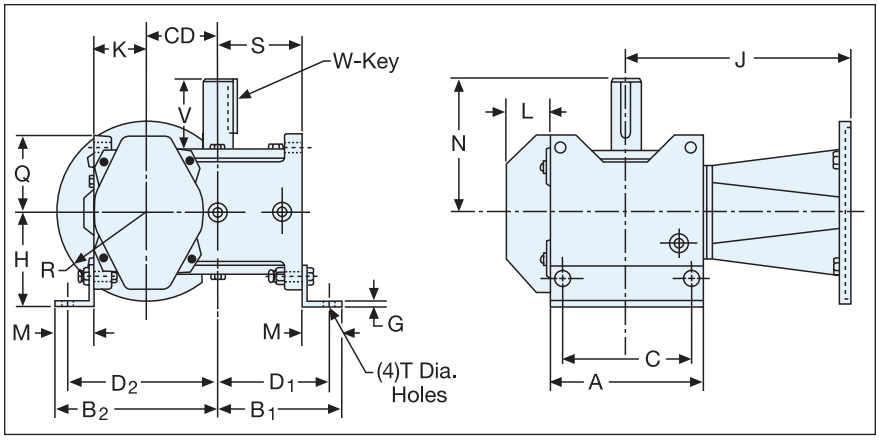
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Style SVL



Universal Series Dimensions

Single Reduction Flanged Coupling Type

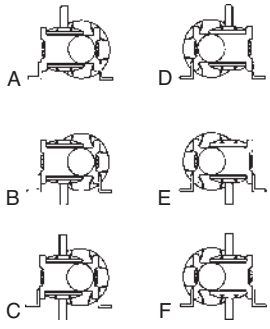


Size	C.D.	A	B1	B2	C	D_1	D_2	G	H		R					J					K	L
									Except 258C & 300C	258C & 300C ONLY	56C 140TC	180TC 210C	210TC	250TC	280TC	56C 140TC	180TC 210C	210TC	250TC	280TC		
133	1.33	4.25	3.31	4.53	3.50	2.88	4.09	0.25	3.38	—	3.25	—	—	—	—	7.25	—	—	—	—	1.88	—
175	1.75	4.25	3.69	4.94	3.50	3.25	4.50	0.25	3.38	—	3.25	3.25	—	—	—	7.25	—	—	—	—	1.88	—
200	2.00	5.25	4.25	5.63	4.25	3.75	5.13	0.25	3.38	—	3.25	3.25	—	—	—	8.03	—	—	—	—	2.06	—
225	2.25	5.25	4.50	5.88	4.25	4.00	5.38	0.25	3.38	—	3.25	3.25	—	—	—	8.03	—	—	—	—	2.06	—
258	2.63	7.00	5.31	7.06	5.63	4.75	6.50	0.25	3.38	5.38	3.25	4.50	—	—	—	9.38	10.19	—	—	—	2.38	—
300	3.00	7.00	5.69	7.44	5.63	5.13	6.88	0.25	3.38	5.38	3.25	4.50	—	—	—	9.38	10.19	—	—	—	2.38	—
350	3.50	7.63	6.13	8.13	6.38	5.50	7.50	0.25	4.56	—	3.25	4.50	—	—	—	10.31	11.75	11.75	—	—	2.63	2.13
400	4.00	8.63	6.50	9.00	7.38	5.88	8.38	0.25	4.88	—	3.25	4.50	4.50	—	—	10.31	11.75	11.75	—	—	3.00	2.13
500	5.00	11.75	9.63	12.88	9.13	8.13	11.38	0.50	7.00	—	—	4.56	4.56	4.56	—	—	15.81	15.81	15.81	—	4.38	3.38
600	6.00	13.25	10.75	14.50	11.00	9.19	12.94	0.50	7.94	—	—	4.50	4.50	4.56	5.56	—	16.69	16.69	16.69	17.56	4.50	3.38

Size	M	N	Q	S	T	Output Shaft				Motor Size Available Per Size Any Ratio	Approximate Weight Lbs.	Approximate Oil Capacity Oz.
						U +0.000 -0.001	V	W-Key				
								Sq.	Lgth.			
133	1.31	4.13	2.188	2.00	0.343	0.625	1.88	0.187	1.18	A	20.5	8
175	1.31	4.25	2.188	2.38	0.343	0.750	2.00	0.187	1.31	A, B	22.5	9
200	1.56	4.88	2.500	2.69	0.406	0.875	2.44	0.187	1.75	A, B	29	11
225	1.56	5.13	2.500	2.94	0.406	1.000	2.69	0.250	1.88	A, B	32	15
258	2.06	5.50	3.125	3.25	0.531	1.125	2.63	0.250	1.88	A, B, C	48	32
300	2.06	5.88	3.125	3.63	0.531	1.250	3.00	0.250	2.25	A, B, C	53	38
350	2.00	6.50	3.813	4.13	0.531	1.500	3.44	0.375	2.75	A, B, C, D	82	51
400	2.00	7.38	5.313	4.13	0.531	1.625	3.75	0.375	2.75	A, B, C, D	103	80
500	3.50	9.75	5.313	6.13	0.781	2.000	3.81	0.500	2.50	C, D, E	364	212
600	4.00	10.60	6.438	6.75	0.906	2.250	4.44	0.500	3.38	C, D, E, F	434	256

Motor Information			
Coupling Bore Size Designation	NEMA Design	Bore +0.002 -0.000	Key Way
A	56C	0.625	0.187 x 0.093
B	140TC	0.875	0.187 x 0.093
C	180TC	1.125	0.250 x 0,125
D	210TC	1.375	0.187 x 0.156
E	250TC	1.625	0.375 x 0.187
F	280TC	1.875	0.500 x 0.250

Assembly Types
Side View



Accessories and Options



Optional Universal Series Vertical Bases

OPTIONAL UNIVERSAL SERIES VERTICAL BASES

Kit includes angle bases and hardware. Converts style STF to SVF.

Base Size	NEMA Frame	Catalog Number	Approx. Shipping Weight
133 - 175	56C / 140TC	B1317V81	1
200 - 225	56C / 140TC	B2022V81	1
258 - 300	56C / 140TC	B2530V81	1
258 - 300	180TC	B2530V91	1
350	56C / 140TC 180TC / 210TC	B3500V81	1

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