

Model 6 Swing Drives - Style "SW" -

with Optional A2 Series Integral Parking Brake
Single and Double Reductions

See page 5 for brake information
See page 4 for SW Features

GENERAL SPECIFICATIONS

SINGLE REDUCTION DRIVES

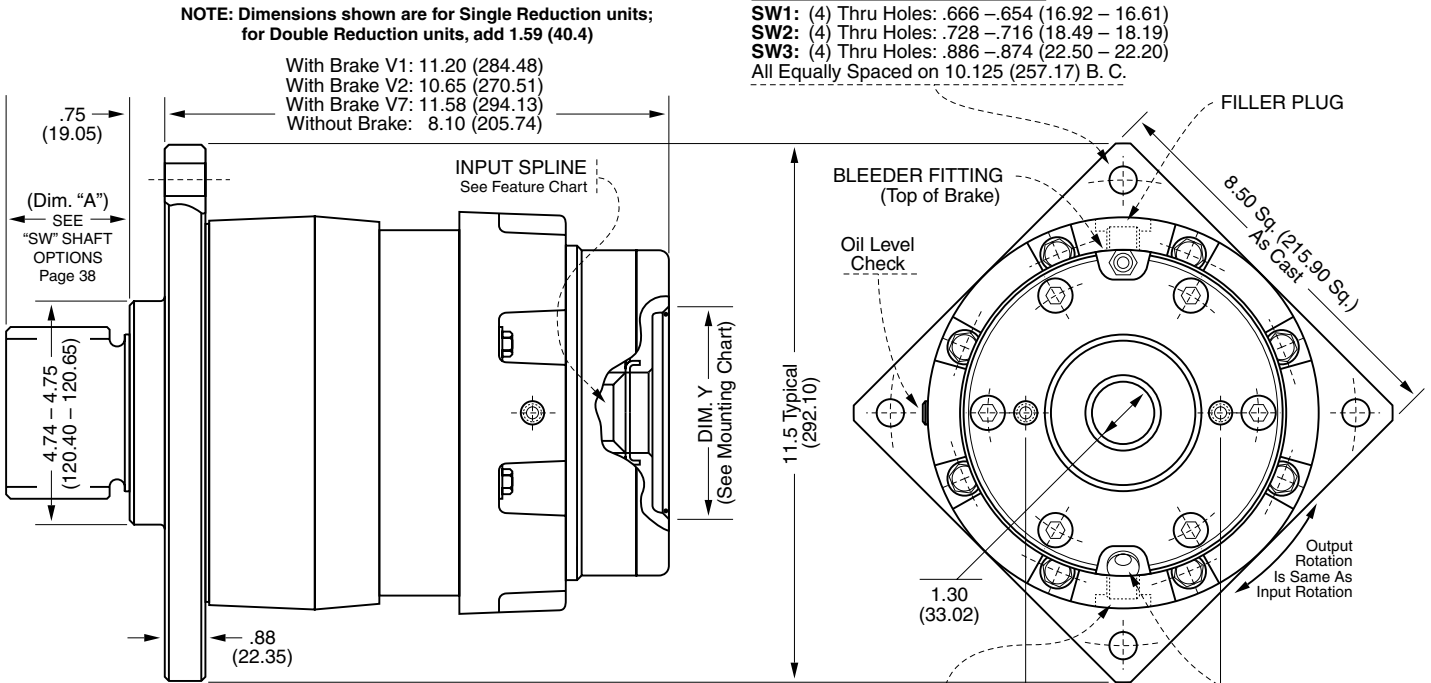
DOUBLE REDUCTION DRIVES

Max. intermittent output torque ^{1,2}	30,000 lb-in (3,390 Nm)	Max. intermittent output torque ^{1,2}	50,000 lb-in (5,650 Nm)
Max. input speed ³ with brake	3,500 RPM	Max. input speed ³ with brake	4,000 RPM
without brake	3,500 RPM	without brake	5,000 RPM
Approximate Weight with brake	117 lbs (53.1 kg)	Approximate Weight with brake	142 lbs (64.4 kg)
without brake	87 lbs (39.5 kg)	without brake	113 lbs (51.3 kg)
Oil capacity	30 oz (887 cc)	Oil capacity	35 oz (1035 cc)

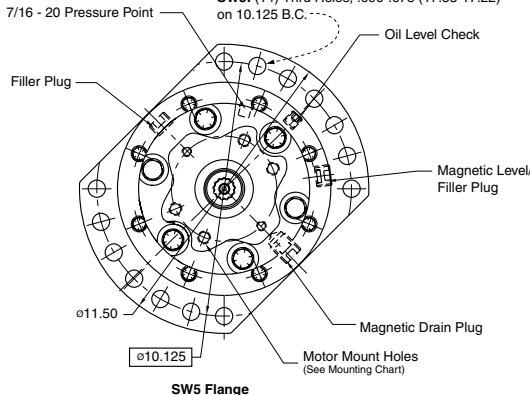
¹ Depending on the duty cycle and the nature of the application, a normal continuous output 1/3 to 1/2 of the Maximum Intermittent should yield satisfactory Power Wheel life.
² If application exceeds published limit, contact Auburn Gear.
³ For input speeds between 2,500 – 4,000 rpm, contact Auburn Gear for application analysis.

SQUARE MOUNTING FLANGES:

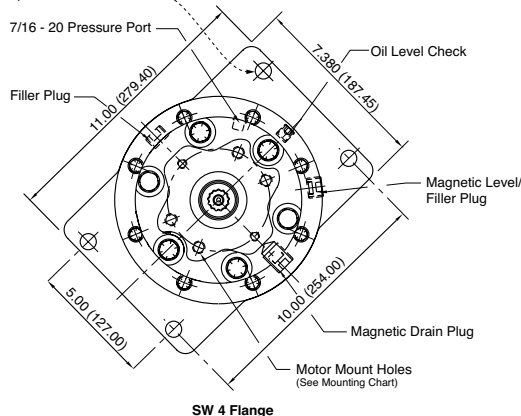
SW1: (4) Thru Holes: .666 – .654 (16.92 – 16.61)
SW2: (4) Thru Holes: .728 – .716 (18.49 – 18.19)
SW3: (4) Thru Holes: .886 – .874 (22.50 – 22.20)
All Equally Spaced on 10.125 (257.17) B. C.



ROUND w/FLATS MOUNTING FLANGE:
SW5: (14) Thru Holes, .690-.678 (17.53-17.22) on 10.125 B.C.



RECTANGULAR MOUNTING FLANGE:
SW4: (4) Thru Holes, .666-.654 (16.92-16.61) Spaced as Shown



FEATURE CHART: MODEL 6 SWING DRIVES with OPTIONAL INTEGRAL PARKING BRAKE

OPTIONS	DESCRIPTION	MAKE ALL SELECTIONS WITHIN ONE COLUMN	ORDER CODES	USE OPTION ORDER CODES TO BUILD ORDER NUMBER
MOUNTING FLANGES	SW1	• • • • •	6SW1	6SW2
	SW2	• • • • •	6SW2	
	SW3	• • • • •	6SW3	
	SW4	• • • • •	6SW4	
	SW5	• • • • •	6SW5	
MOTOR PILOT	SAE A	• • • • •	A	B
	A2	• • • • •	A2	
	SAE B	• • • • •	B	
INPUT SPLINE	13T. - 16/32	• • • • •	13	13
	1" - 6B	• • • • •	6B	
RATIO OPTIONS	3.75:1*	• • • • •	03	20
	4.50:1*	• • • • •	04	
	5.05:1*	• • • • •	05	
	5.81:1*	• • • • •	06	
	14.06:1	• • • • •	14	
	16.88:1	• • • • •	16	
	20.62:1	• • • • •	20	
	22.74:1	• • • • •	22	
	25.53:1	• • • • •	25	
	29.37:1	• • • • •	29	
OUTPUT SHAFTS <small>See Page 38</small>	17T - 5/7 DP Gear	• • • • •	G1	G3
	17T - 4 DP Gear	• • • • •	G2	
	12T - 3 DP Gear	• • • • •	G3	
	23T-12/24 Spline	• • • • •	23	
PARKING BRAKE**	1,700 lb-in	• • • • •	V1	V7
	2,100 lb-in	• • • • •	V2	
	4,600 lb-in	• • • • •	V7	
SPECIAL FEATURES	Grease Cavity Fittings & Excluder Seal ♦	• • • • •	W	W
Select desired characteristics from chart, note correct order codes, and order using sample format shown at right:				6SW2 B 13 20 G3 V7 W

* Single reduction ratio; all others are double reduction.

** For vertical shaft down operation only.

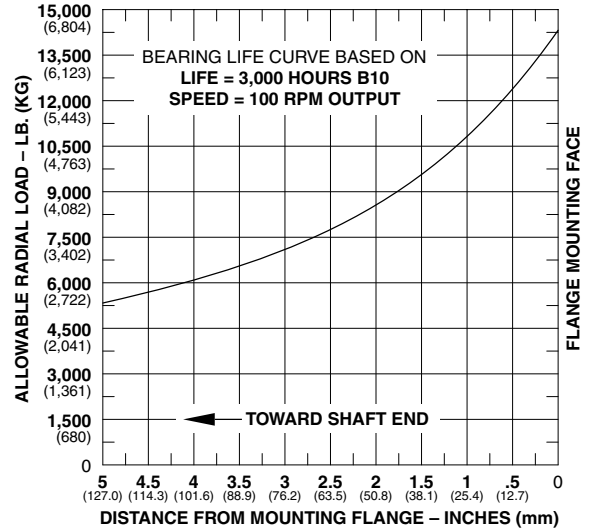
♦ **Required** for vertical shaft up applications.

BOLDFACE INDICATES REGULAR VOLUME PRODUCED ITEMS WITH BEST AVAILABILITY.

MOTOR MOUNTING CHART

DIMENSION "X"	DIM. "Y"
SAE A (2) – .375 (9.53) -16 UNC. 2B Thd Holes Equally Spaced on 4.187 (106.35) B. C.*	Ø 3.251 - 3.256 (82.58 - 82.70)
A2 (2) – .500 (12.70) -13 UNC. 2B Thd Holes Equally Spaced on 4.187 (106.35) B. C.*	Ø 3.251 - 3.256 (82.58 - 82.70)
SAE B (2) – .500 (12.70) -13 UNC. 2B Thd Holes Equally Spaced on 5.750 (146.05) B. C.*	Ø 4.001 - 4.006 (101.62 - 101.75)

***"O" RING OR GASKET REQUIRED (Not Supplied by Auburn Gear)
"O" RING SIZES: SAE "A" 2-042, SAE "B" 2-155



NOTE:

These curves are supplied as a design guide and apply to resultant radial load only. They indicate the importance of maintaining load position over the bearing center.

For actual analysis, applications should be reviewed by Auburn Gear Engineering using data supplied on Application Data Form.

BEARING LOAD, LIFE AND SPEED RELATIONSHIPS

$$LF = \frac{SF \times R}{R'}$$

R = Allowable resultant load for given location from mounting flange

R' = Anticipated load at location from mounting flange

LF = Life Factor from table (see below)

SF = Speed Factor from table (see below)

OUTPUT SPEED (RPM)	SF	LF	BEARING HOURS B-10 LIFE
5	2.456	.584	500
10	1.994	.719	1000
20	1.620	.812	1500
30	1.435	.886	2000
40	1.316	.947	2500
50	1.231	1.000	3000
60	1.165	1.047	3500
70	1.113	1.090	4000
80	1.069	1.130	4500
90	1.032	1.166	5000
100	1.000	1.231	6000
200	.812	1.289	7000
300	.719	1.342	8000
400	.659	1.390	9000
500	.617	1.435	10000

CAUTION: The same torsional loading constraints used in the driving mode must be used in the braking mode when braking through the **Power Wheel** drive gear set.

BRAKE RATINGS

MODEL	TORQUE	MINIMUM RELEASE PRESSURE
V1	1,700 lb-in (192 N-m)	190 PSI (13.1 Bar)
V2	2,100 lb-in (237 N-m)	220 PSI (15.2 Bar)
V7	4,600 lb-in (520 N-m)	260 PSI (17.9 Bar)

Maximum Release Pressure = 3,000 PSI (206.4 Bar)