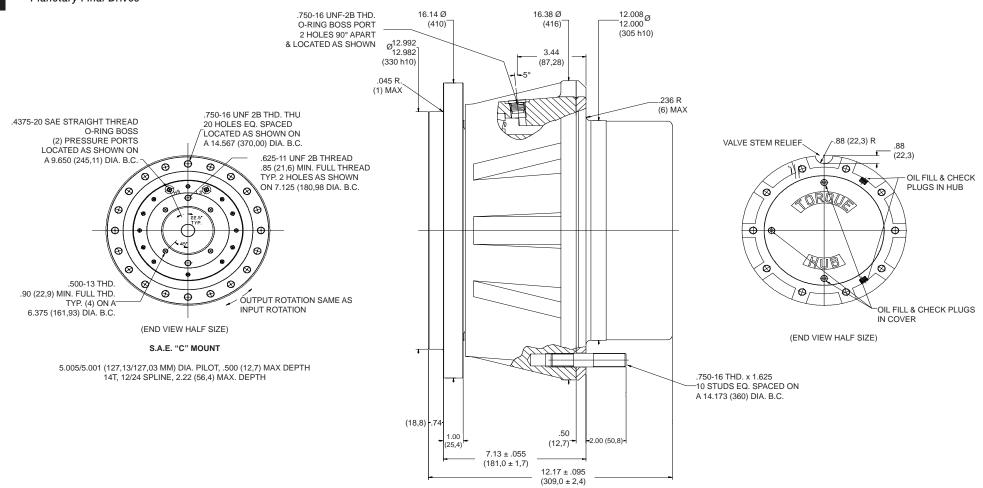
W9T

Application Sheet

TORQUE-HUBPlanetary Final Drives



Please refer to Fairfield Brake Literature for brake operating conditions or contact Fairfield.



W9T

Performance Data Continuous Intermittent 90,000 lb-in 180,000 lb-in 10,168 Nm 20,336 Nm

Speed Limitations

Input Speed: 3,750 RPM Maximum Intermittent (periods of 30 mins or less)

(Contact Fairfield for specific speed information.)

Weight

Approximately 375 lbs (170kg) without Brake

Note: Specific models will change weights.

Oil

Fill to half full with 90 weight gear lube with EP additive on most applications.

Approximate Volume 96 oz. (3 quarts)

Note: Oil level and type will vary with specific model and application.

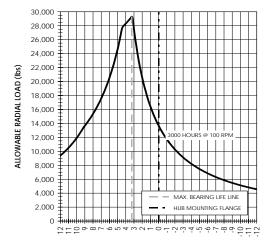
Conditions of Bearing Curve

Life = 3,000 hours B-10 Speed = 100 RPM output

To adjust for loads and speeds other than shown on curve:

Adjusted Life (hrs) =
$$3,000 \left(\frac{100 \text{ RPM}}{\text{Speed (Adjusted)}} \right) \times \left(\frac{\text{Load (Curve)}}{\text{Load (Adjusted)}} \right)^{10/3}$$

Bearing Curve



DISTANCE FROM HUB MOUNTING FACE (in)

W9T Model Formula

W-Torque-Hub® Wheel Drive

9 - Series

Two Speed

Motor Mount

C – SAE "C"

D – SAE "D"

	Spindle		Hub
	Flange Holes	Mounting Dia.	Motor B.C.
3	(20) 3/4-16 Holes on a 14.567 B.C.	12.992 12.982	(10) .750-10 Holes on a 14.173 Dia. B.C.

(See overall range in chart below)

Reduction

35 - 34.90:1

4 – 14T, 12/24 Spline **5** – 13T, 8/16 Spline

Input

Input Ratio

3 - 3.46:1

4 - 4.09:1

6 – 6.23:1

Studs

0 - Not Included

U - 3/4-16 UNC by 1.625"

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Fairfield Manufacturing Company, Inc.

First in Custom Gears and Drive Systems

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Input Rating MAX. INPUT TORG	QUE	4,000 lb-in (452 Nm)
MAX. INPUT SPEE	3750 RPM	
MIN. BRAKING TO	4,000 lb-in (452 Nm)	
MIN. SHIFT PRES	400 psi (27,6 bar)	
MAX. SHIFT PRESSURE		1500 psi (103,4 bar)
Reduction SPEED SPLIT 3.46:1 4.09:1	PRESSURE HIGH SPEED 34.90:1 34.90:1	PRESSURE LOW SPEED 120.82:1 142.79:1
SPEED SPLIT 3.46:1	34.90:1 34.90:1 34.90:1 34.90:1	LOW SPEED 120.82:1

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