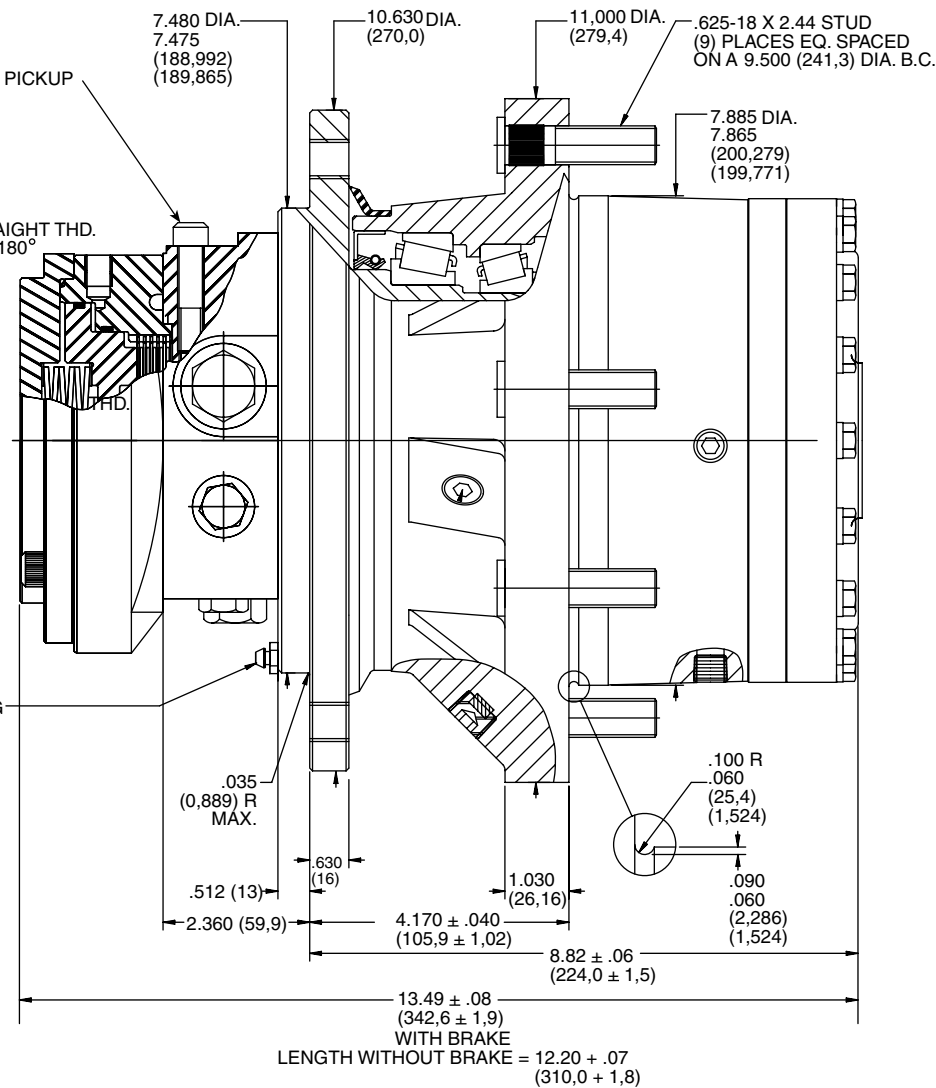
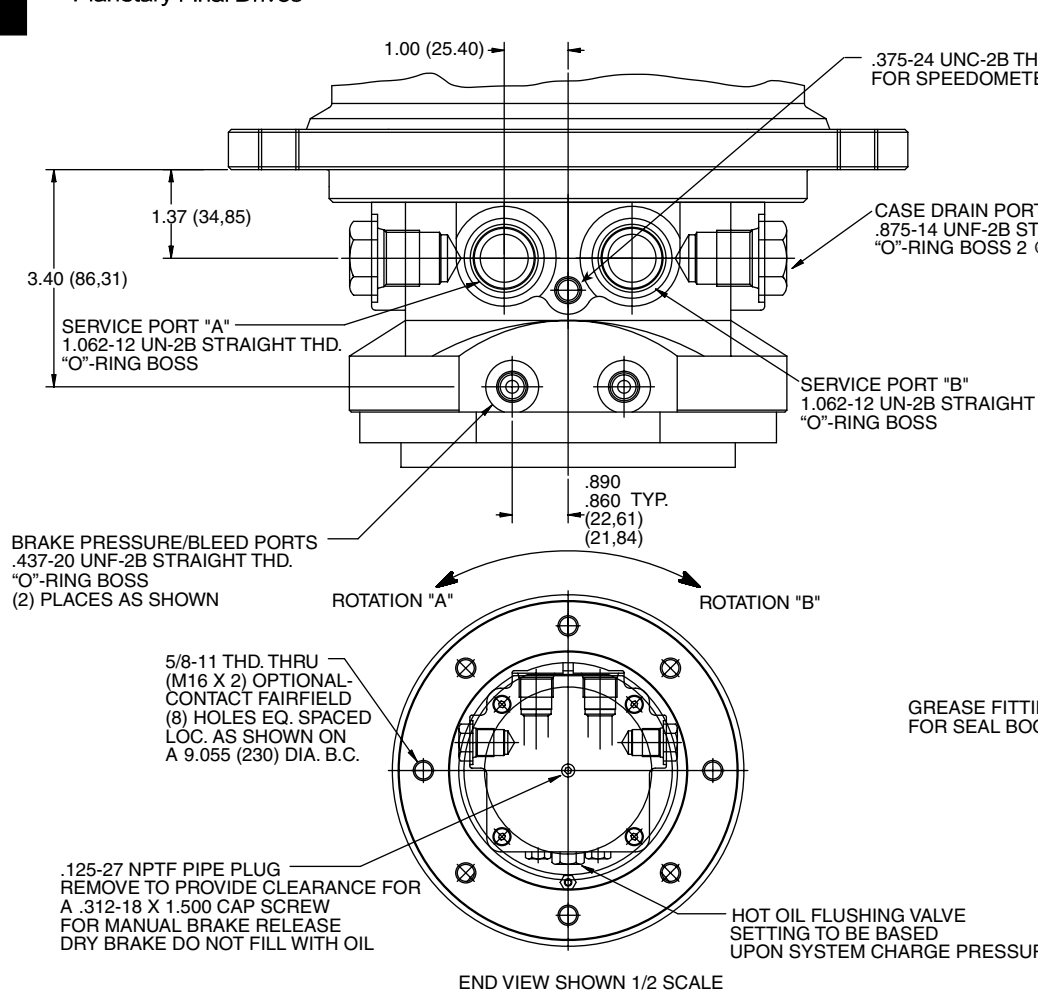


TORQUE-HUB®
Planetary Final Drives



W1M1

Performance Data

Continuous	Intermittent	Peak
15,000 lb-in	30,000 lb-in	40,000 lb-in
1,250 lb-ft	2,500 lb-ft	3,333 ft-lb
1,690 Nm	3,381 Nm	4,508 Nm
172 kg-m	345 kg-m	460 kg-m

For ultimate torque and horsepower capacities, contact a Torque-Hub® representative.

Speed Limitations

Maximum Output RPM = 60 - 250
Conditional on Ratio

(Contact Fairfield for specific speed information)

Weight

Approximately 125 lbs (57kg) without Brake
Add 10 lbs (5kg) for Brake

Note: Specific models will change weights.

W1M1 Model Formula

Oil

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

Approximate Volume 17 oz. (502 cm³)

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

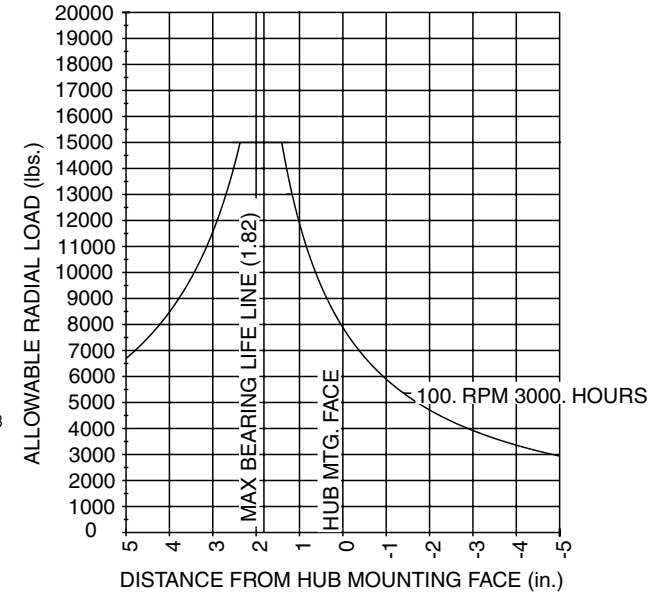
Conditions of Bearing Curve

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

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

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

Bearing Curve



W 1 M1 F Z B 1 A 18

W – Torque-Hub® Wheel Drive

1 – Series

	Hub		
	Mtg. Dia.	Flange Holes	Seal
M1	$\frac{7.885}{7.865}$.642/.639 (9) Holes on a 9.500 Dia. B.C.	9013-03

Stud

- 0**– Not Included
- F**– 5/8 by 2.437 Inch (use with .630/.628 Flange Hole for Cast Iron Hub)
- N**– 1/2-20 by 2.437 Inch (use with .630/.628 Flange Hole for Cast Iron Hub)
- P**– 9/16-18 by 2.437 Inch (use with .630/.628 Flange Hole for Cast Iron Hub)

Brake (Dry)

- 0**– Not Included
- A**– Spring Applied, Pressure Release
Static Torque 1770in-lb Initial Release 135psi Full Release 190psi Max. Release 3000psi

Motor Flushing Valve Relief Settings

- 1**– Blocked Flushing Valve
- A**– 206 psi (14 Bar)
- B**– 110 psi (7.5 Bar)
- C**– 230 psi (16 Bar)
- D**– 302 psi (21 Bar)
- E**– 174 psi (12 Bar)
- F**– 182 psi (12.5 Bar)
- G**– 166 psi (11.5 Bar)
- H**– 270 psi (18.5 Bar)
- I**– 350 psi (24.0 Bar)
- J**– 334 psi (32.0 Bar)
- K**– 214 psi (15.0 Bar)

Ratio	Cu. In.
18–18.25:1	39.05
24–24.85:1	53.18
30–30.05:1	64.31
35–35.13:1	75.18
40–40.25:1	86.14
49–49.29:1	105.48
60–59.50:1	127.33
68–68.00:1	145.52

FAIRFIELD
GEARED FOR EXCELLENCE

Fairfield Manufacturing Company, Inc.
First in Custom Gears and Drive Systems

U.S. 52 South
P.O. Box 7940
Lafayette, IN 47903-7940 USA
Telephone (765) 772-4000
FAX (765) 772-4001
www.fairfieldmfg.com

Special Features

- 0**– Not Included
- Z**– Seal Boot

Motor/Spindle

	Flange Mtg. Dia.	Flange B.C.	Motor	Notes
A	$\frac{7.480}{7.475}$	(8) M16x2 on 9.055 B.C.	2.14 cid 1.062-12 UNF Port	Metric Frame Mount
B	$\frac{7.480}{7.475}$	(8) .625-11 UNC on 9.055 B.C.	2.14 cid 1.062-12 UNF Port	English Frame Mount

Temperature at Hottest Point	Fluid Contamination Levels
Transmission (normally at casedrain)	ISO Code
Max. °F – 220	Recommended Limit
°C – 104	Continuous Operation – 18/13
Con. °F – 180	Limit for Machine Assembly
°C – 82	(at roll off) – 21/15
Fluid Viscosity Limits	
SUS (CST)	
Optimum 70 (13)	
Min. Con. 55 (9.0)	
Min. Int. 47 (6.4)	
Max. Con. 500 (110)	
Max. Cold Start. 7500 (1600)	

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