

# SAI Hydraulics, Inc.

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## APPLICATION DATA Power Transmission Design Requirements

Please print this page and complete the data below. Forward the information to the above for prompt action. We will contact you with our recommendations for your application.

1. Company Name \_\_\_\_\_ Your Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

E-Mail Address \_\_\_\_\_

Radial Piston Hydraulic Motor  \_\_\_\_\_ Qty. to be purchased \_\_\_\_\_ Delivery Required

Planetary Gear Reducer  \_\_\_\_\_ Qty. to be purchased \_\_\_\_\_ Delivery Required

2. Describe Prime Mover: \_\_\_\_\_

3. Describe Driven Load: \_\_\_\_\_

4. Horsepower Transmitted: \_\_\_\_\_

Motor Hp \_\_\_\_\_ Motor Starting Torque \_\_\_\_\_ Motor Frame Size \_\_\_\_\_

5. Working Pressure \_\_\_\_\_ PSI Max.System Pressure \_\_\_\_\_ PSI

6. Available Flow \_\_\_\_\_ GPM

7. Required Output Torque: Continuous \_\_\_\_\_ at \_\_\_\_\_ RPM, Maximum \_\_\_\_\_ at \_\_\_\_\_ RPM

8. Duty Cycle:  Continuous  Intermittent If intermittent, please specify: Output Torque \_\_\_\_\_ at \_\_\_\_\_ RPM \_\_\_\_\_% of the time,

Output Torque \_\_\_\_\_ at \_\_\_\_\_ RPM \_\_\_\_\_% of the time, Output Torque \_\_\_\_\_ at \_\_\_\_\_ RPM \_\_\_\_\_% of the time.

9. AGMA Load Class:  Uniform  Moderate Shock  Heavy Shock

10. Service Factor \_\_\_\_\_  From Above Data  Required by Customer's Specs.

11. Requested Ratio: \_\_\_\_\_ :1 (+/- \_\_\_\_\_ %)

12. Hours of Life Expectancy \_\_\_\_\_ at \_\_\_\_\_ % of Rated Load

13. Environmental Conditions  Indoors  Outdoors

Temperature: High \_\_\_\_\_ °F Low \_\_\_\_\_ °F Other: \_\_\_\_\_

14. Output Shaft Radial Load \_\_\_\_\_ lbs. at \_\_\_\_\_ inches "from mounting face of reducer".

15. Output Shaft Axial Thrust Load \_\_\_\_\_ lbs.

16. Lube Oil Available:  No  Yes If yes, what kind of oil? \_\_\_\_\_

Pressure \_\_\_\_\_ PSI Flow \_\_\_\_\_ GPM Temp \_\_\_\_\_ °F Filtered:  Yes  No

17. Oil Cooler Available:  Yes  No

18. Envelope Requirements (Include Sketch if Possible.): \_\_\_\_\_

19. Input Shaft:  Vertical (Up)  Vertical (Down)  Horizontal

Other Specials (Describe): \_\_\_\_\_

20. Output Shaft:  Vertical (Up)  Vertical (Down)  Horizontal

Other Specials (Describe): \_\_\_\_\_

21. Please attach application sketch \_\_\_\_\_