



Company name

Contact person

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3 Torque requirements

Required output torque (Nm or inch-lbs) @ (bar or PSI)

Required holding torque (Nm or inch-lbs)

Arm length from rotation centre point to centre point of weight (m or inch)

Weight to be rotated (kg or lbs)

*Bending moment (Nm or Inch-lbs)

*Will torque be transmitted from one or both ends of the actuator? One side Both Sides

4 Rotation requirements

*Rotation required degrees

*What is the max. required speed? degrees in sec

*What is the cycle frequency? cycles per

How much working hours will the actuator do in a day/Month/Year? cycles per

What is the expected life of the actuator? years or cycles

How much mechanical backlash is acceptable? degrees

How accurately does the load need to be positioned?

How will the actuator be stopped at the end of rotation? Internally External stops Other

In which direction is the actuator output shaft mounted? vertical horizontal

5 Pressure and fluid requirements

*What is the hydraulic working pressure (bar or PSI) Max. Min. Normal

What is the flow rate on normal operation (ltr/Min or gpm)

What kind of hydraulic fluid will be used? Standard petroleum-based Synthetic Other

Is the fluid compatible with nitrile and polyurethane seals and glass reinforced nylon bearing materials?
 Yes No

What are the hydraulic fluid temperatures of the actuator? (°C or °F) : Min. Max.

What is the surrounding temperature the actuator is operated in? (°C or °F) : Min. Max.

6 Additional required options and other considerations

Load holding valve required? Yes No

Cushioning in end position required? Yes No

Angle adjustment required? Yes No

Position indication required? Yes No (Inductive, encoder, other

*Output shaft requirements? Pivot Hollow Splined tapped flange other

Will the actuator be sprayed with high pressure fluids? Yes No - Explain

Are there any special dimension or weight limitations?

7 Rotary Lift Combination

What is the minimum push force? (N or LBS)

What is the minimum pull force ? (N or LBS)

Max. radial load exerted on the output shaft of the piston rod? (Kg or LBS)

What is required stroke? (mm or inch)

Speed of hydr. cylinder (mm) in seconds.

What is the working pressure of hydr. cylinder (bar or PSI)

8 Optional Wheel steering requirements

What is the wheel load (thrust)? (Lbs or kg)

What is the tire tread width? (Inches or mm)

What is the maximum tire outside diameter? (Inches or mm)

What is the distance from the bottom of the tire to the actuator output flange? (Inches or mm)

What is the coefficient of friction?

Will the actuator be mounted directly over the wheel? Yes No

If not, what is the offset or eccentric? (Inches or mm)

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Sent the filled out form to us via fax or email.

1 General information

To suggest the best actuator design for your application, please answer the questions below as precise as possible. Pictures, detailed installation drawings, load diagrams or just a hand sketch is always very helpful.
Short description of what this actuator will be used for.

Estimated annual quantity units per year

Is this quantity based on a nonrecurring project or a permanent annual quantity?

How is the application currently being performed (e.g. systems, devices, mechanisms, etc.)
Are there any alternative designs or methods being considered?

2 Loads requirements

Mass moment of inertia (kgm² or lbs-inch-sec²)

Max. axial load exerted on the output shaft of the actuator (kg or lbs)

*Max. radial load exerted on the output shaft of the actuator (kg or lbs)

*Will the loads be supported by: The actuator? External bearings?

*If external bearings are used, is it possible that any misalignment of the structure will cause binding loads in the actuator? Yes No

Are there any dynamic loads applied to the actuator? Yes No

How often will the loads be applied?

Do all above loads include dynamic and/or other potential overloads?
 Yes No - Explain

Will the actuator be exposed to shock loads? Yes No - Explain

* required for an offer