1T Airide® Spring Design Parameter Sheet

Air Spring Performance Requirements

1. Air Spring Design Height (in, mm) =

2. Air Spring Design Load (lb, N) =

3. Air Spring Operating Pressure (psig, bar) =

4. Air Spring Rebound Travel (in, mm) =

5. Air Spring Jounce Travel (in, mm) =

6. Desired Spring Rate (lb/in, N/mm) =

7. Air Spring Clearance:
   a. Max. Spring Diameter (in, mm) =
   b. Can rubber roll past top of bead plate? (Yes, No)
   c. Can rubber roll past bottom of piston? (Yes, No)

8. Maximum Pressure Available (psig, bar) =

9. Axle Load (lbf, N):
   a. Empty =
   b. Design =
   c. Full Load =

10. Lever Arm Ratio
    a. (in, mm) =
    b. (in, mm) =
    c. (in, mm) =

Geographical Location / Environmental Information

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Air Spring Performance Requirements (cont.)

11. Internal Bumper Required
   a. Bumper Contact Angle (5° max) = [ ]
   b. Bumper Contact Height (in, mm) = [ ]

12. Jounce Offset at bumper contact height (in, mm)

13. Rebound Offset at maximum rebound height (in, mm) = [ ]

14. Maximum Rebound Height (in, mm) = [ ]

15. Please include suspension drawing

16. Bead Plate Support Area

17. Piston Support Area

18. Customer Air Spring Drawing
   If yes, please attach = [ ]

19. Production Start Date = [ ]

20. Prototype required = [ ]
   a. Date required = [ ]
   b. Quantity required = [ ]
21. Bead Plate Fastener Detail

Firestone bead plate number (if known) = 

“Same As” Part number =

22. Piston Fastener Detail

Firestone bead plate/piston no. (if known) =

“Same As” Part number =

23. Bead Plate Salt Spray Requirement (96 hour standard) =

24. Piston Material (Plastic / Steel / Aluminum)

25. Piston Support Area Surface Finish =

26. PPAP Required = (Yes / No)
   a. PPAP Level Required =
   b. Please attach PPAP requirements =

27. Packaging Requirements (Firestone Bulk Pack Standard) =

28. Special labeling requirements = (Yes / No)
   If yes, please attach

29. Test data required = (Yes / No)
   □ Load Deflection
   □ Burst
   □ Dynamic
   □ Other____________________________

Air Spring Performance Requirements (cont.)

Example:

- 1/8 NPT Combo Fitting
- 1/2 - 13 Stud x 1.57" Stud x 1.57"

Example:

- 3/8 - 16 Blind Nut
- 1/2 - 13 Blind Nut

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