



Guaranteed Tips to achieve Leak-free Hydraulics!

Pranav Ahuja

Have you seen a hydraulic machine leaking ? Oil leaks seem to be a normal sight in factories.

Like the smallest virus has proved that are smaller, the humble and small hydraulic fittings, which are the lowest value components in any Hydraulic Machine, are the most critical !

It is imperative that there is ZERO Leakage for the proper functioning of any hydraulic machine. Selection, and proper installation of Hydraulic Fittings play the biggest role in ensuring that there is no leakage in the machine.

Any Hydraulic Machine will have Hose Fittings, Tube Fittings, Hoses and Tubes for the transmission of Fluid at high pressure and temperature under vibration conditions.

Leaking fluid connectors are not only a threat to life and pose a huge safety risk, it is an immense invisible cost to the company.

The broad shape of any hydraulic fitting can be produced by any lathe operator however only experienced & technical personal who work as a team, can understand the intricate design and internal details of a good hydraulic fitting, also known as coupling at some places.

From the inventory management perspective, Hydraulic Fittings fall under the "C" class / category due to its low value, however for the trouble free functioning of any machine, the correct selection and installation of the couplings you are going to use is extremely important.

Generally speaking the lowest cost "L1" supplier or the lowest cost "L1" product is selected without going into the technical aspects of such a critical component of the Hydraulic System

So the question arises how do we select a Good Hydraulic Fitting ?

Before finalizing a supplier or brand, of Hydraulic Fittings, the following factors must be taken into account:

1. Reliability
2. Leak- Free
3. Proven for Performance
4. Choice & range of products readily available
5. Packaging standards followed
6. On time Delivery
7. Surface Coating – Salt Spray Test life guaranteed
8. Raw Material Assurance - MTC Available or Not
9. Process design and adherence
10. Standards followed
11. Product range in terms of sizes, MOC, Designs etc.
12. Cost Control Methods and adherence
13. Consistency
14. Guarantee offered
15. Detailed Product Catalog available or not ?
16. Transparent pricing
17. Availability - Inventory levels
18. Crack detection
19. Pressure testing certificate
20. Custom design products
21. MOQ requirements, small order quantities
22. Value for money
23. What you see is what you get

The most obvious question that arises now is How to qualify a manufacturer who can deliver a product with all the qualities as above ?

Here is the list of questions you need to ask before selecting the supplier for your most critical hydraulic components:

1. Manufacturer or Reseller ?
2. Process and Quality Standards followed ?
3. Certifications available ?
4. Company history / experience
5. Promoters' background
6. Team credentials
7. In house design capability
8. In house testing facility
9. Manufacturing capability
10. In house Surface coating facility
11. After sales and service support
12. Can offer 3 D Models for incorporation in your design
13. Export capability
14. Process adherence using ERP
15. Communication capabilities –
16. Response time
17. In process and post production checks
18. Machining on top class CNC machines
19. Lean and flexible production process
20. Market reputation
21. Number of satisfied clients
22. Customer service support
23. Single window solutions

TUFIT Hydraulic Fittings from Ahuja Corporation Private Limited, (formerly Ahuja Industries) fulfill all the above criteria and more! We make the World Leak free !

Write to us at sales@ahujagroup.in or Call us at +91 7665031000 for guidance on how to achieve 100% Leak-free workplace!