A customer comes to the hose assembling workshop with a defective hose assembly

**WORKING STEPS FOR THE PRODUCTION OF HOSE ASSEMBLIES**

**New hose assembly?**

- Yes
  - Check the defective hose assembly
    - Hose type
    - Service life of the hose assembly
    - Special features when using
    - Connection forms (DIN, SAE)
    - Bend radius, working pressure
  - Produce a new hose assembly

- Repair?
  - No

- Test

**REGULATIONS**

- **Repairs are generally not permitted!**
  - DIN EN ISO 4413, DIN 20066

- **When producing the hose assembly, the hose should not be older than four (4) years.**
  - Standards for hydraulic hoses according to DIN EN, EN 853 to 857, ISO 17165-2, SAE 1273
  - Hydraulic hose assemblies: The service life of hose assemblies is also limited. Six years is the recommended life for a hose assembly. See also related rules!

- **Marking the hose assembly according DIN EN ISO/SAE with**
  - Manufacturer’s name
  - Date of production (year/month)
  - Maximum permissible working pressure of the assembly
  - Internal cleaning to hose assembly is carried according to qualified standards and regulations.

- **BS 5244, SAE ISO**
  - The test for safe condition is carried out at appropriate and fixed intervals and by an authorized person.

**HYDRAULIC HOSE ASSEMBLIES**

Investigate, study and observe all relevant international and national standards and directives of your local trade, technical and work safety associations.

**INTERNATIONAL STANDARDS**

- ISO 17165-1: Fluid technology: Hydraulic hose assemblies, requirements, dimensions
- ISO 17165-2/SAE J1273: Recommended practices for hydraulic hose assemblies
- ISO 8331: Rubber, Thermoplastic hose and hose assemblies
- ISO 4413: Hydraulic Fluid Power – general rules and safety requirements for systems and their components
- SAE J 1272: Hydraulic Fluid Power – recommended practices for hydraulic hose assemblies
- EN ISO 18752-2015: Rubber hose and hose assemblies, specifications

**EU/GERMANY**

- EN 853 to EN 857: Rubber hose and hose assemblies
- DIN 20066: Fluid power systems – Hose assemblies, dimensions, requirements
- DGUV 113-020: Hydraulic hose assemblies and hydraulic fluids – regulations for safe application
- DGUV Information 209-070: Safe maintenance of hydraulic systems

**GREAT BRITAIN**

- BS 5244: Recommendation for the application, storage and shelf life of hydraulic hose and hose assemblies
- BFPDA D6: Quality control procedures and requirements for PFIDA distributors
- BFPDA P47: Guidelines for the use of hydraulic fluid power hose and hose assemblies

**USA**

- NAHAD: Hose Safety Institute, design and specifications of hose assemblies