



## WARNING



**Damaged Hoses can cause accidents and personal injury  
They are also the biggest cause of operating failures**

Damaged hydraulic hose assemblies always cause unexpected expense, however they can also they can also lead to severe accident and personal injury, even death. Many such accidents can be avoided if sufficient attention is paid to the early detection of damage.

**Collectively, manufacturers estimate that 80% of all hose failures are the result of external physical damage**

### Conditions for safe operation

- Choice of a suitable hose assembly for the required working pressure, conditions of operation and nominal diameter.
- Operating range in accordance with relevant standards or other regulations
- Professional installation, correct and careful routing
- Immediate replacement of visibly damaged hose assemblies

### Main causes of damage

- Mechanical damage
- Too much bending
- Extreme tension
- Above-average twisting
- Severe compression
- Unsuitable medium

### Possible consequences of damage

- Damage to outer cover down to steel wire reinforcement – may result in corrosion of wire reinforcement
- Deformation or embrittlement of outer cover
- Damage or deformation of hose fittings
- Possibility of bursting

### Regular checks for early detection of damage

- Perfect condition of outer cover of hose – no cracks, bubbles, deformation, wear or kinking
- Proper attachment of fittings
- Proper routing – avoid extreme kinking, too much tension, violent twisting
- Check for leakage

### Procedure for replacement of hoses

- Ensure there is no system flow/pressure
- Check suitability of replacement hose
- Install replacement hose
- Restore operating pressure
- Check for leaks

**CONSIDER ADDITIONAL PROTECTION WITH SPIRAL GUARD | WRAPPING OR CLAMPIING**