1 Safety

1.1 Safely Handling High-Pressure Hose Lines

⚠ WARNING

Injuries from lashing high-pressure hose lines

Lashing hose lines can result in severe-to-lethal injuries.

- ▶ Check high-pressure connections and high-pressure valves for damage before any start-up.
- ▶ Check high-pressure hose lines for leaks before any start-up.
- ▶ Only attach high-pressure hose lines when depressurised and with the high-pressure pump unit switched off.
- ▶ Never tighten valves under pressure.
- ▶ Immediately shut down the high-pressure unit in case of any uncontrolled movements.
- ▶ Properly secure high-pressure hose lines.

Safely handling high-pressure hose lines

- Only eliminate leaks when the unit is shut down and pressure-relieved.
- Keep to the minimum bending radius.

Safely handling valves

- Do not seal the relief bores of the valves.
- Never tighten valves when under pressure.
- Note the tightening torques.

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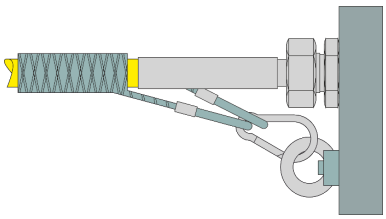
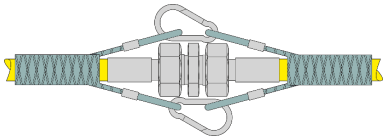
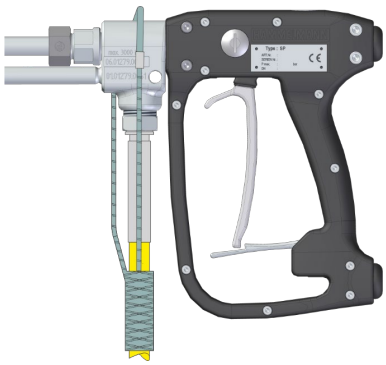
1.1.1 Securing high-pressure hose lines



▶ Always secure the high-pressure hose line to the high-pressure pump unit with hose safety devices.

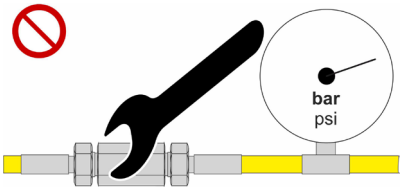


▶ Always secure the connections of high-pressure hose lines with hose safety devices.



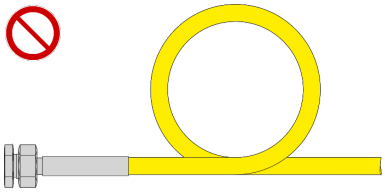
▶ Always secure the high-pressure hose lines to the consumer with a hose safety device.

1.1.2 Setting up high-pressure hose lines



Never slacken or tighten when under pressure

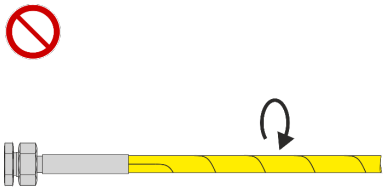
▶ Shut off the pressure generator.
▶ Turn off the electricity.
▶ Wait until the hose is depressurised (to ambient pressure).
▶ Slacken or tighten valves.



Avoid loops forming

Removing loops:

▶ Shut off the pressure generator.
▶ Turn off the electricity.
▶ Wait until the hose is depressurised (to ambient pressure).
▶ Remove loop.



Avoid any twisting (torsion)

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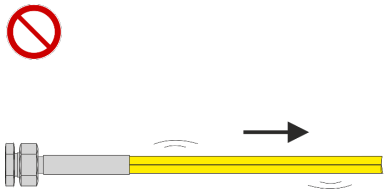
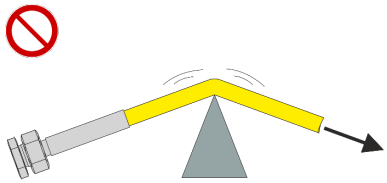


Avoid stretching

▶ Never pull a system of hose lines at the hose itself.

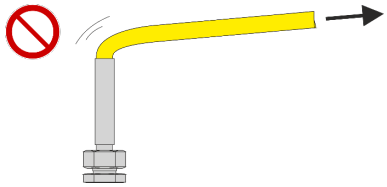


Avoid stress loading from sharp edges

▶ Encase the edge.

▶ Encase the hose.

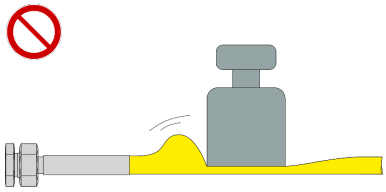
▶ Never buckle more tightly than the minimum bending radius.



Avoid loading the valve

▶ Do not subject to loading from hose bending.

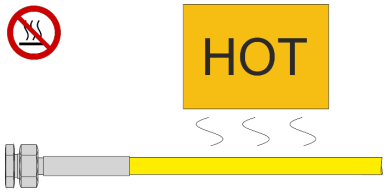
▶ Do not subject to loading by pulling on the hose.



Avoid external pressuring

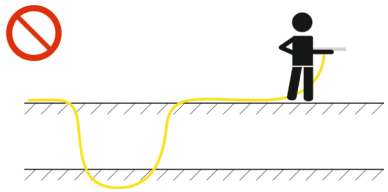
▶ Set up hose bridges.

▶ Do not drive over high-pressure hose lines.



Heat (e.g. from welding or cutting) is to be avoided

▶ Shield the hoses.



Avoid any hanging high-pressure hose lines

▶ Do not let the high-pressure hose line hang down over multiple storeys.

▶ Underpin any hanging high-pressure hose lines.

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1.1.3 Before use

Note before use:

- Check max. operating pressure of the high-pressure hose line. Never exceed this pressure.
- Check high-pressure hose line and connection fittings for damage.
- Discard high-pressure hose lines with bubbles in the protective layer, kinks or with an exposed steel wire insert.
  WARNING! High-pressure hose lines with damage of this type must not be repaired or used otherwise!
- Check the valves for corrosion, cracks or a worn thread.
- The relief bores at the connection must neither be closed intentionally nor by contamination or damage.
- Observe the minimum bending radius for storage and operation.

1.1.4 When in operation

Note the when in operation:

- Regularly check the high-pressure hoses, connections and all valves, connections and fittings for any signs of leakage.
- In the event of leakage, immediately stop the pressure generator.
- Only eliminate leaks when the unit is shut down and pressure-relieved.
- Never tighten valves when under pressure.
- Note the tightening torques.
- Note any changes in length when in operation. High-pressure hose lines shorten when subject to pressure.

⚠ WARNING

Injuries from damaged high-pressure hose lines

Immediately stop the operation if water escapes at the relief bore. Ignoring this can lead to severe-to-lethal injuries.

▶ Immediately stop the operation.

▶ Change the high-pressure hose line with the high-pressure pump unit shut down and the system pressureless.

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