



# Hose Failure

---

WHY HOSES ARE FAILING ON PERISTALTIC PUMPS

*It's one small pump for man, one giant pump for kids.”*

- NEIL HANDSTRONG



# There are no bad hoses, really?

---

Peristaltic pumps have been around for a long time now, and so have the hoses that do the job for the pumping action.

A lot has been changed in the world of rubber quality control. Now nearly all rubber products can be analyzed in such way that all the secret additives that make the rubber special are dissected.

And with that said.... The hoses are nearly all the same!

# What is the difference?

---

There is still a difference in the reinforcement materials and the binding materials used for a solid binding of re-enforcement materials with the rubber compound or even between the different rubber compounds.

Is this the secret?

No, also these are well known by the rubber manufacturers.

Does the number of reinforcement layers make a difference? Good Question!

# What is the difference?

---

But it seems that nearly all the hosepump manufacturers claim that their hose is the best.

Why are the hoses failing, and what is a good hose life?

I guess they still haven't figured this out, or keep it as a secret.

# Rectified hoses?

---

My experience is that hoses that are non-rectified are the best performers when the discharge pressure including the pulsation does not reach above 7 bar.

Rectified hoses only make sense when the discharge pressure is above the 7 bars.

But a good shimming procedure like the procedure outlined in the manual from “Abaque” will help in all cases. And yes, you need to perform that on each hose change!

# What should you avoid?

---

- Wrong hose material
- Wrong installation (read manual please)
- Incorrect shimming
- High inlet pulsation
- Operating outside the continuous operating zone
- Wrong lubricant

# Energy Consumption?

---

Now, it is often claimed that the rectified hoses have a lower energy consumption than the non-rectified hoses. Hmm....

In reality this is a minor issue compared to the energy consumption that is due to the discharge pulsation.

# You are still here?

---

- Please make comments
- Ask questions
- Discuss together
- Learn together
- Like and Share

If you like to learn more, contacts us...