

Hoses:

**The Arteries of
Application Equipment**



















Selection and Inspection of Hoses: Don't Spring a Leak

- down time
- wasted product
- lost revenue
- environmental damage
- human injury

Inexpensive hoses connect the more expensive components of application equipment into a working system.

Purchase and inspect hoses, fittings, and clamps with the same care you use for sensors, nozzles, and pumps.



Questions to Ask Before Buying a Replacement Hose

1. What materials will it carry?

2. Does the hose need to withstand high pressure?
3. Will the hose operate with vacuum pressure?
4. What is the hose diameter?
5. How much hose length do I need?
6. Will the hose have to bend or flex?
7. Will the hose contact petroleum products?
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Working pressure vs. bursting pressure
Higher temperatures lower psi
Older hoses loose psi rating









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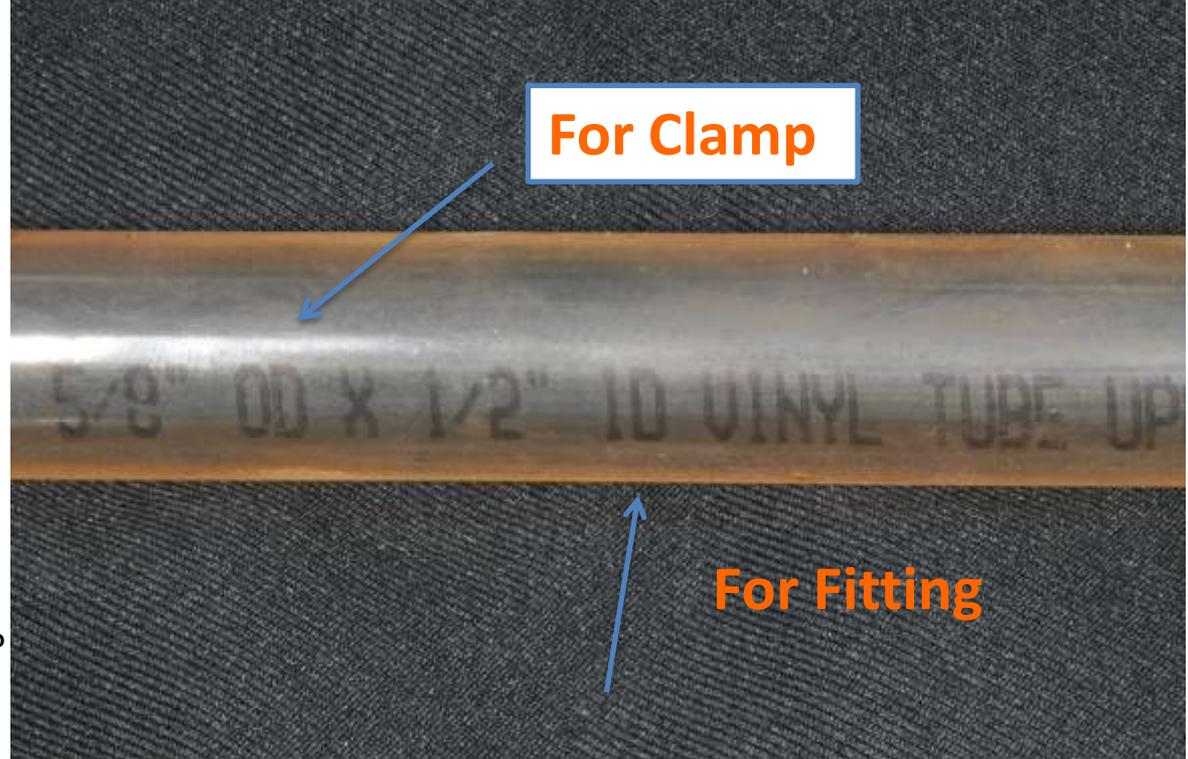
Suction hoses can be used on both sides of pump, but not discharge





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The Bend Radius is the minimum radius one can bend a hose without kinking it, damaging it, or shortening its life. The smaller the bend radius, the greater is the material flexibility.

1.25"	1.5"	2.0"	2.5"	3"
4.0 radius	4.0	7.0	10.0	14

1.25"	1.5"	2.0"	2.5"	3"
2.0	3.0	3.0	5.0	7.0





CHILLER

150 PSI MAX W.P. Made in USA

(19.1mm)

3/4" (19.1mm)

L85 Ag Spray

Goodall

150 PSI MAX W.P. Made in USA 10020

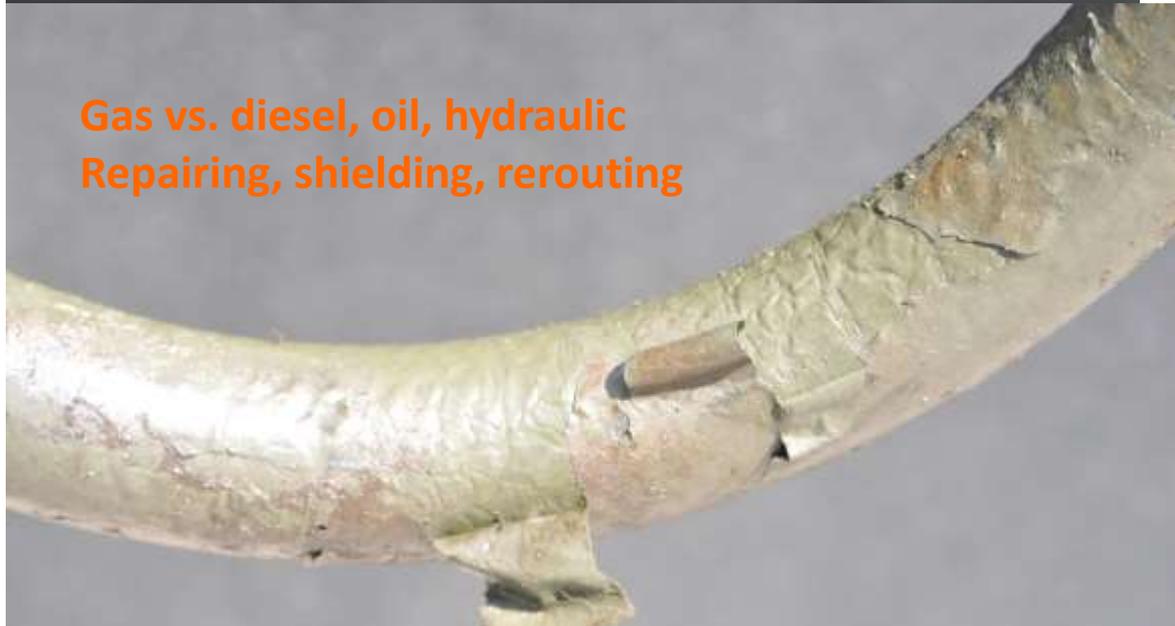
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**Gas vs. diesel, oil, hydraulic
Repairing, shielding, rerouting**





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Sunlight, ozone, and temperatures rot hoses
Extreme cold can freeze rubber
Let hoses warm up before operating equipment
PVC/EVA in cold become hard and brittle
PVC/EVA in hot become soft

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USMSHA NO. 2G11C/1 MADE IN U.S.A.
3000 PSI (21.0 MPa) MAX WP R17 FL
ISO120408



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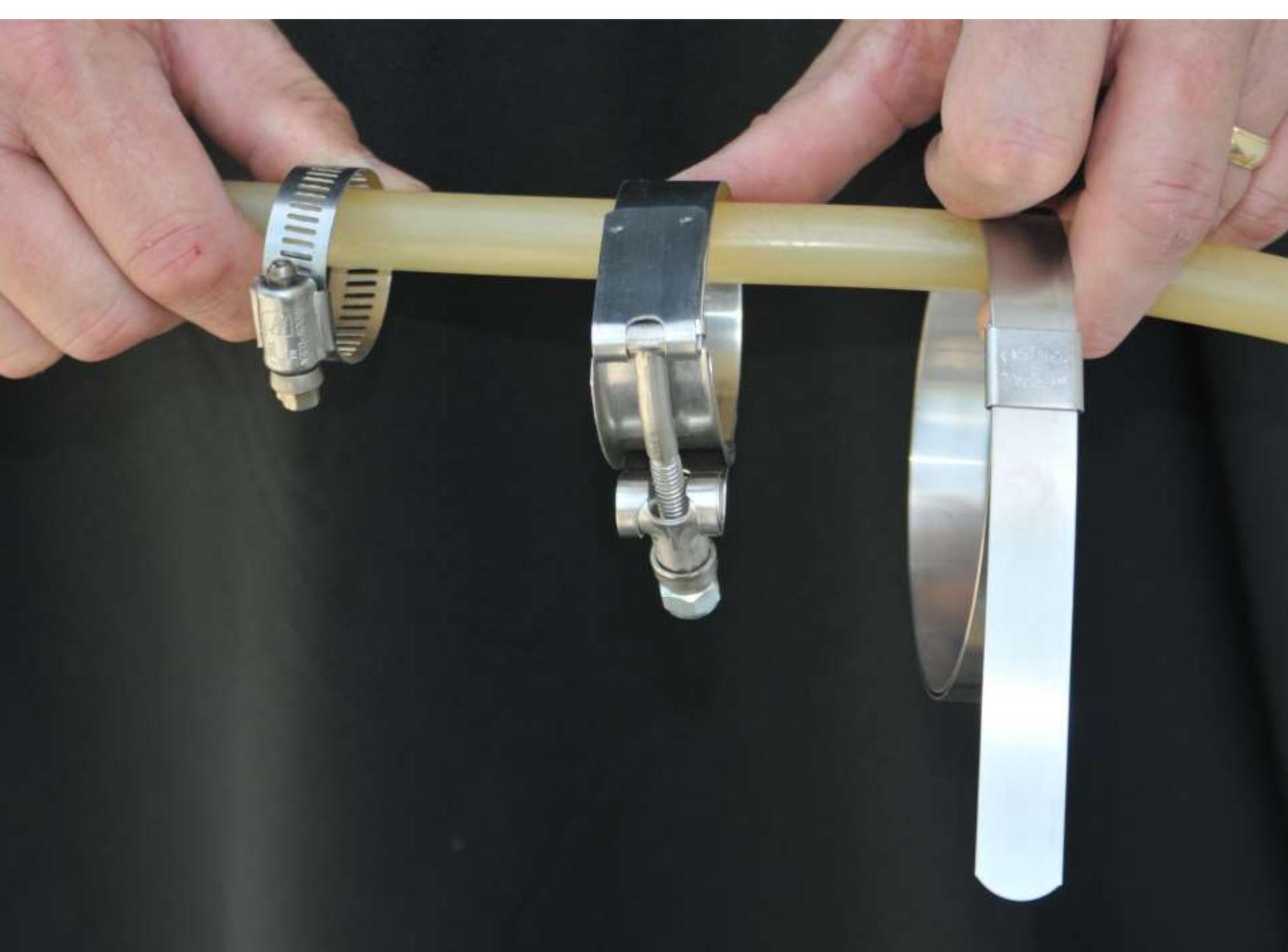
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IDEAL

ALL STAINLESS







SELF PRIMING PUMP
WARNING
DO NOT USE WITH FLAMMABLE LIQUIDS





Reverse the double clamp connection 180 degrees.



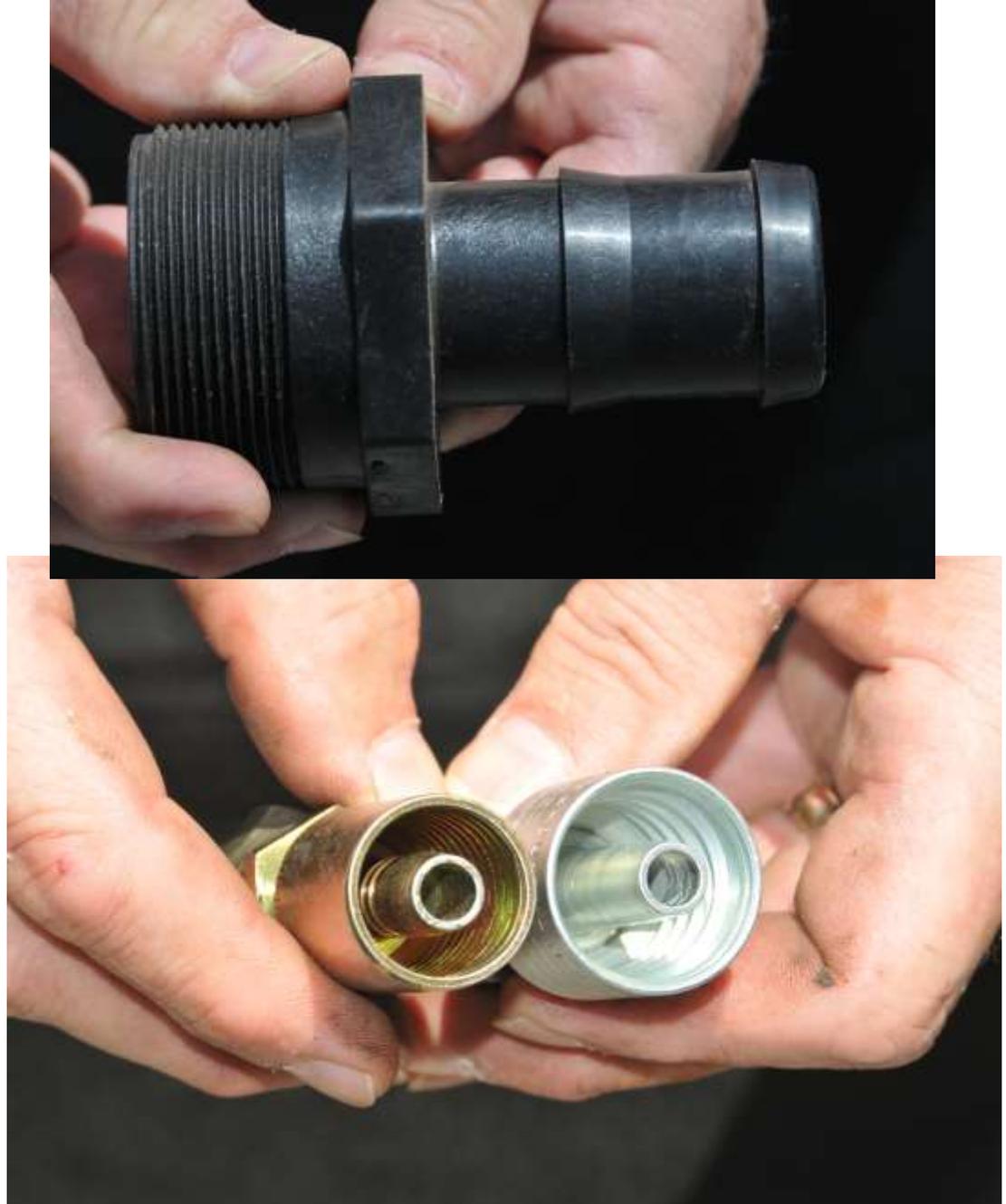
TRY RECOMMENDATIONS
MAINTENANCE PROCEDURES.

TC
OR F



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Inspect and Replace Hoses Regularly



REMOVE HOSE BEFORE 2017

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**Hoses fail from inside, out
and outside, in.**

**Look for leaks in the
morning on pavement**



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WARNING
[Illegible text]



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3000 PSI (21.0 MPa) MAX WP R17 FL
ISO 120408









When checking hoses, be sure to wear work glove to prevent injury from wires.





BRIGGS & STRATTON®
8.25
SERIES™

205cc
8.25
hp (gross torque)
@ 3600 rpm

kill switch
on
off

BRIGGS & STRATTON





Selection and Inspection of Hoses: Don't Spring a Leak

**Carry extra hoses
and clamps for
your spray
equipment**

**Change out hoses
and clamps every
year—a cheap
investment**







www.ppp.purdue.edu

The Selection and Inspection of Hoses

An Integral
Component
of Everyday
Equipment

