



Nextelligence Newsletter

Issue #19

May 2024



Environmental
Solutions Group
a DOVER company



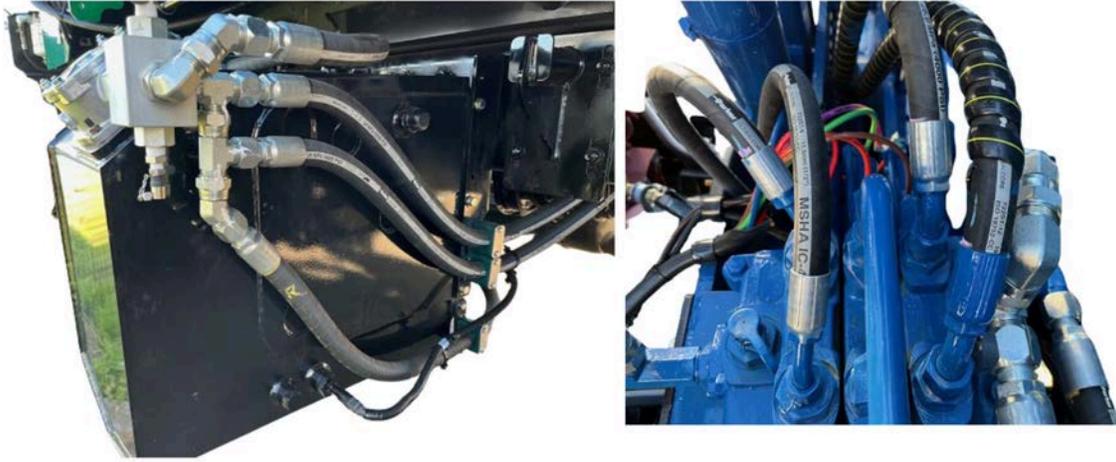
Welcome to the Nextelligence Newsletter!

Welcome to the 19th edition of the Nextelligence Newsletter. We look forward to continuing to provide the latest news in the Nextelligence training community.



Don't Get Hosed! Identifying Hydraulic Hose Information

In this month's edition of the Nextelligence Newsletter, we are going to discuss understanding hydraulic hose information and why it is important to know what type of hose you are using and where to find the information.



In the refuse industry, our equipment uses many different sizes of hydraulic hoses. Why? Some parts of the hydraulic system require small hoses for different flow rates or pressures, and some parts of the hydraulic system use large hoses for greater flow rates and pressures.

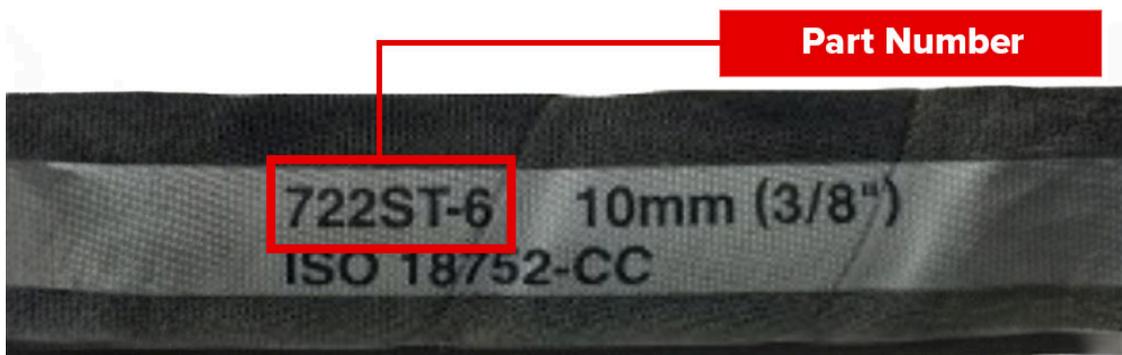
Starting at the hydraulic tank or oil reservoir we typically see a large hose that supplies the pump with the adequate volume needed to allow the pump to perform at its most efficient capacity. A large volume of oil is required to not starve the pump for oil and damage the pump. This is what we call the suction hose. Suction hoses typically do not require a high-pressure rating due to the application of the hose. Other hoses going from the pump to the valves and cylinders require much higher pressures to operate the functions of the equipment. Let's look at how to identify the hose information.

Some hose manufacturers' have all their information printed on the hose for easy identification. This information is printed on what is referred to as the layline. Let's look at the information detailed on the layline of a hydraulic hose.



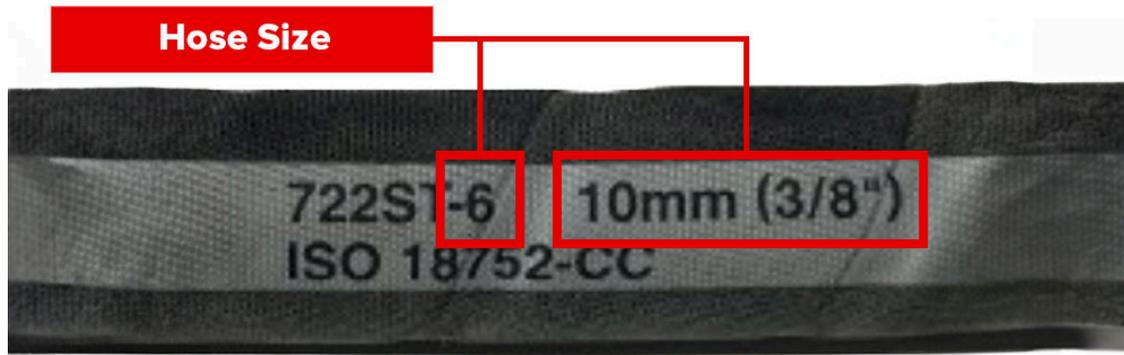
Hose Manufacturer Name

The hose will show a stamp of the manufacturer's name, identifying the company that produced the hose.



Hose Part Number

The part number of the hydraulic hose will be listed as shown in image above. **Note:** this is the hose manufacturer part number for the hose only, **not including the hose ends**. For a complete hose assembly, please reference the Heil parts catalog found in the Electronic Parts Catalog (EPC) or the Heil Dealer Portal. For more information on how to access the EPC, please email nextelligence@doveresg.com.



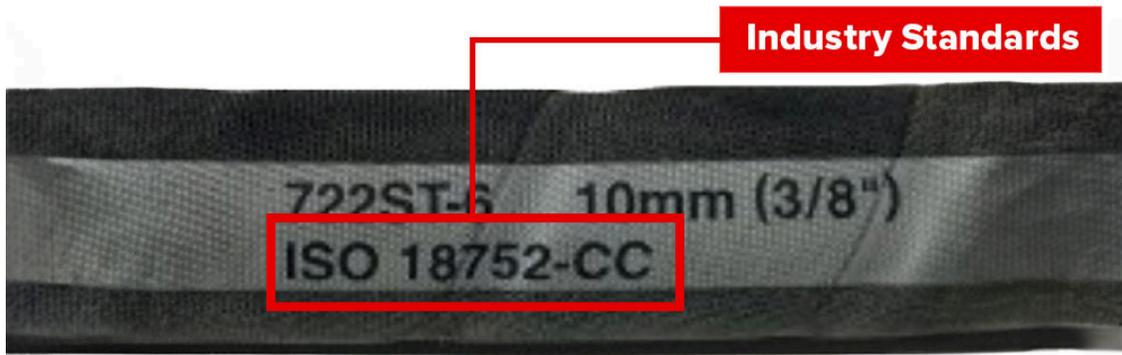
Hose Size

Hose size is listed with the inside diameter found after the dash symbol. In this case, the hose size is a dash 6 (-6). Dash size refers to 16ths of an inch. In this case, 6/16" would equal a 3/8" hose. Some hose manufacturers print both metric and SAE sizes as shown in image above.



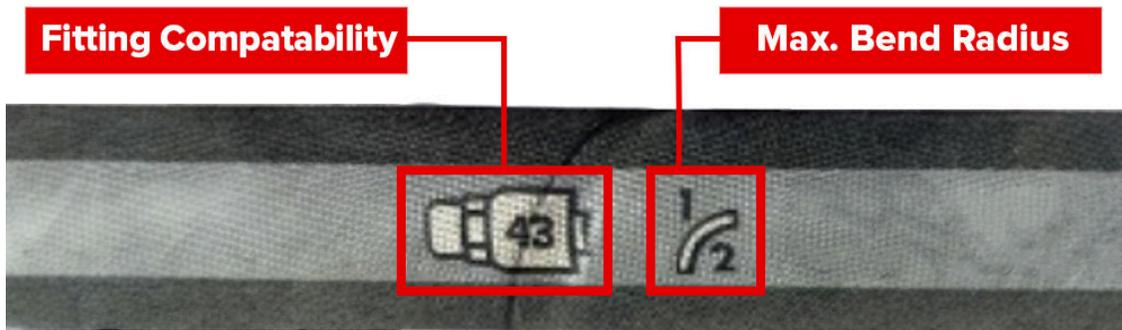
Hose Working Pressure

Hydraulic hose working pressure is typically displayed in Mega Pascals (MPa) or pounds per square inch (PSI.) In this case, both MPa and PSI ratings are listed.



Industry Standards

Hydraulic hose industry standards will be listed as shown, detailing the ISO specifications.



Hose Fitting Compatability and Maximum Hose Bend Radius

These two icons identify the fittings that should be used with this specific hose material. The bend radius icon details the minimum bend radius that the hose can be bent while under the maximum detailed operating pressure. In this case, the bend radius is $\frac{1}{2}$. For example, for a 21" long hose, the maximum bend radius equals half of the hose length. This means that the maximum bend radius is $10 \frac{1}{2}$ ".

Choosing the right hose is important!

Now you know what a layline is and how to read the information provided. Remember as a technician, we are **never** to replace a tube with a hose even if they are the same size. A hose has a smaller inner

diameter when compared to a tube's inner diameter even if they are the same size. By doing this, you are creating heat in the system and can cause undesirable hydraulic component reactions.

Would you like to know more about Hydraulic Systems and related topics? Good news! We teach that in our Nextelligence MAT classes. You can get in-depth training by contacting us to register for a Nextelligence MAT class at: Nextelligence@doveresg.com

Contact Info & Helpful Links

Miss a Newsletter?

No problem - You can now view all past Nextelligence newsletters by visiting our Archives page.

[VIEW NEWSLETTER ARCHIVES HERE](#)

The 2024 Nextelligence Training Schedule Is Here!

The 2024 Training Schedule is now available and can be viewed via the Nextelligence webpage, or on the Heil Dealer Portal.

2024 Live Online Webinar Heil Training Schedule

Online Training Dates	Product	Time
May 21st, 22nd, & 23rd	DuraPack Rapid Rail	2:00 - 4:30pm CST
June 4th & 5th	Rapid Rail	9:00 - 11:30am CST
July 9th, 10th, 11th	DuraPack Python	2:00 - 4:30pm CST

2024 Heil Factory Training Schedule

Factory Training Dates*	Product	Time
April 16th & 17th	HalfPack w/Odyssey Controls	8am – 4pm CST
June 18th & 19th	RevAMP	8am – 4pm CST

* Subject to change

** 3rd Eye training can be scheduled as a REQUESTED third half day upon request.

[VIEW FULL 2024 TRAINING SCHEDULE](#)

Nextelligence Class Registration

Feel free to contact us anytime if you have any training questions or to register for one of our training classes.

[EMAIL TRAINING](#)



Service Shack

Visit the Heil Service Shack for helpful training and instructional videos

[View Service Shack](#)

Sign Up for the Nextelligence Newsletter!

To sign up or add team members, click the button below!

EMAIL TRAINING



BRONZE



SILVER



GOLD



PLATINUM



DISCLAIMER: REFER TO THE SERVICE MANUAL BEFORE ATTEMPTING ANY WORK OR REPAIRS. THIS DOCUMENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO WARRANTY, GUARANTEE, OR PROMISE IS MADE AS A RESULT. PLEASE SEE THE RESPECTIVE ESG TERMS OF SALE AND/OR APPLICABLE WARRANTY STATEMENT FOR THE SOLE AND EXCLUSIVE WARRANTY OFFERED. WE

CANNOT CONTROL THE SAFETY OF YOU, YOUR PROCESSES, OR YOUR WORKSPACE – PLEASE ACT ACCORDINGLY.

Copyright © 2024 The Heil Co. - All rights reserved.

Our mailing address is:

Environmental Solutions Group
201 W. Main Street, Ste 300
Chattanooga, TN 37408

Want to change how you receive these emails?

You can [update your preferences](#) or [unsubscribe from this list](#).