



GlobalCore Frequently Asked Questions

What is GlobalCore?

GlobalCore is a family of hydraulic hoses based on constant working pressure ratings. The hoses are designed and rated at the same pressure regardless of the size of the hose.

What hoses are part of the GlobalCore family?

The GlobalCore hoses are 187 (rated to 1,000) psi, 387 (rated to 3,000) psi, 487 (rated to 4,000) psi, 722 (rated to 4,000) psi, 787 (rated to 5,000) psi, and 797 (rated to 6,000) psi.

What fittings are part of the GlobalCore family?

The GlobalCore hoses are compatible with either the 43 Series fitting or the 77 Series fitting.

What is the size range of the GlobalCore hoses?

The GlobalCore hoses range in size from -4 (1/4" internal diameter) to -48 (3" internal diameter).

Do the layline colors have significance?

The layline color signifies the pressure rating of the hose so you can identify the pressure rating without having to look at the part number on the hose. The layline colors are 1,000 psi; green, 3,000 psi; white, 4,000 psi; gray, 5,000 psi; red, and 6,000 psi; yellow.

Can I use GlobalCore hoses in place of other Parker hoses?

Yes, GlobalCore hoses can replace other Parker hoses of similar pressure. Many of the current Parker hoses are variable pressure, meaning the pressure rating of the hose varies depending on the size or internal diameter of the hose. If your current hose falls between the pressure ratings of the GlobalCore hoses, always use the higher pressure rated GlobalCore hose.

What is ISO 18752?

ISO 18752 is a hose specification that was developed based on the pressure rating of the hose and not the construction of the hose, like some of the older hose specs. For example, the SAE 100R2 spec is based on a two-wire braid construction. Because the hose is based on construction, the pressure rating of the SAE 100R2 hose gets lower as the hose gets bigger. This makes it difficult to keep track of the pressure rating of the hose since it is different for every size. The ISO 18752 specification groups hoses by pressure rating, so a hose rated to 21 MPa (3,000 psi) is rated to 3,000 psi in all sizes.

Why are these hoses made to the ISO 18752 spec?

For two primary reasons. First, the ISO18752 spec is easier to understand which makes selecting a hose for your application much more straight forward. If you know the pressure rating of your application, you are on your way to selecting the correct hose.

Secondly, using an international specification like ISO means the spec is used and understood all over the world and is not limited to a certain region of the world. For example, the SAE specs are primarily a North American spec, so if your equipment containing SAE hoses is shipped to Asia, will they understand the hoses that are on the vehicle and will they be able to replace them?

What does AC, AS, BC, CC, and DC mean?

The ISO 18752 spec contains different grades and types of hoses. The first digit refers to the hose grade which indicates how many pressure cycles the hose is tested to, at what percent over the rated pressure, and at what temperature. The second digit indicates whether the hose is a standard (S) or a compact (C) construction. The performance definitions chart can be found at www.parker.com/globalcore.

What are the advantages of GlobalCore?

There are several advantages:

1. Having the entire family of hoses specified under one spec, the ISO 18752, allows for ease of specification for design teams working in different locations.
2. Using a single international spec, the ISO 18752, means the hoses will more likely be recognized in more regions of the world than they would be if a regional specification is used. This recognition will help identify and replace the hose meaning the end user will be back up and running sooner.
3. The GlobalCore family of hoses all exceed the performance requirements of the ISO 18752 spec meaning you are going to get longer life from GlobalCore hoses translating to longer times between maintenance cycles.
4. The GlobalCore program is simple. It's easy to select the hose you need for your application and will reduce the number of hoses you need to keep in stock.
5. The GlobalCore family is manufactured and sold by Parker locations worldwide, meaning technical support and replacement hose is available everywhere you are.

Do all hose manufacturers use ISO 18752?

No, not all hose manufacturers have adopted the ISO spec. Many are still using the regional specifications to rate their hoses.

Why are there two 4,000 psi hoses?

The two 4,000 psi hoses are different due to their construction. We offer both a braided construction and a spiral wire reinforcement construction. Based on your application demands, one construction may be a better fit.

Where can I buy GlobalCore hoses?

You can buy GlobalCore hose from an authorized Parker distributor. Visit www.parkerhose.com.