

Danfoss
Winner Standard
MatchMate
System



Danfoss Winner Standard MatchMate System Owner's Manual

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Danfoss

Danfoss Winner Standard MatchMate System



Product Information

Specifications:

- **Hose Type:** Rubber Hydraulic Hose & Fittings (RHHF)
- **Pressure Range:** Varies based on hose type and tier
- **Reinforcement:** Braided & Spiral
- **Cover:** Weather, oil, and abrasion-resistant

Product Usage Instructions

1. Understanding Hose Tiers:

The product line includes two tiers: Winner Standard and Weatherhead Premium. Winner Standard hoses offer standard performance at a competitive price, while Weatherhead Premium hoses are designed for more intense applications that require durability.

2. Hose Types & Construction:

The hoses are available in braided and spiral constructions, each offering different levels of flexibility and strength based on the application's pressure requirements.

TUBE:

- **1 WIRE:** Suitable for standard pressure applications
- **2 WIRE:** Offers higher strength for medium/high-pressure applications
- **4 SPIRAL:** Provides increased rigidity and strength for high-pressure applications
- **6 SPIRAL:** Designed for extreme high-pressure situations
- **REINFORCEMENT:**

The reinforcement gives the hose its strength. Braided hoses are flexible and suitable for medium/high pressure, while spiral hoses are stronger and work well in high-pressure applications.

- **COVER:**

The cover protects the hose from weather, oil, and abrasion. Special covers like Dura-Tuff™ and Bruiser™ provide enhanced protection.

3. Hose Assembly:

A hose assembly is created by combining the hose with fittings. Danfoss provides a Rubber Hydraulic MatchMate™ system for efficient assembly.

4. Technical Support:

If you have any questions or issues regarding the product, Danfoss offers responsive technical support. Contact their experts for assistance.

Frequently Asked Questions (FAQ):

- **Q: What is the difference between Winner Standard and Weatherhead Premium hoses?**

A: Winner Standard hoses offer standard performance at a competitive price, suitable for general applications. Weatherhead Premium hoses are designed for more demanding applications that require higher durability and performance under extreme conditions.

- **Q: How can I ensure I select the right hose for my application?**

A: Consider the pressure requirements, temperature conditions, abrasion resistance, and impulse life of your application. Consult with Danfoss technical support if needed to ensure you choose the most suitable hose type and tier.

Rubber Hydraulic Hose & fittings quick reference guide (RHHF: Rubber Hydraulic Hose & Fittings) REGION: NORTH AMERICA

Leading Brands

Weatherhead Premium

Weatherhead®, founded in the 1920's, has one of the industry's broadest offerings of hydraulic hose, hose ends, assembly equipment, tube fittings, couplings and support accessories. Weatherhead by Danfoss products are widely used in construction, mining, agriculture, truck and bus applications.

Winner Standard

Winner™ by Danfoss hose lives up to its name, delivering quality and craftsmanship at a standard-performance price. You get it all with the Winner by Danfoss hose line. Great value and system-matched performance — plus consultative engineering expertise and responsive technical support. Winner is the perfect standard tier hose to round out a complete portfolio, so you get the perfect hose for every application.

Value beyond products

We are more than our products

Danfoss provides more than quality products for every application; we provide an entire global team dedicated to:

- **System matched offerings:** Danfoss hoses, fittings, crimp machines and accessories are all engineered to work together to provide the most reliable hose assembly in the industry.
- **Design expertise:** Danfoss offers access to experienced engineers who are ready to help solve specific platform design issues or simply bring fresh engineering ideas.
- **Responsive technical support:** Questions on our products? Danfoss tech support is there for you. Call our tech support experts to review your issue step by step.
- **Robust supply chain:** Supply chain issues can affect your business. Danfoss has a supply chain with built in redundancy to reduce the impact of supply issues.

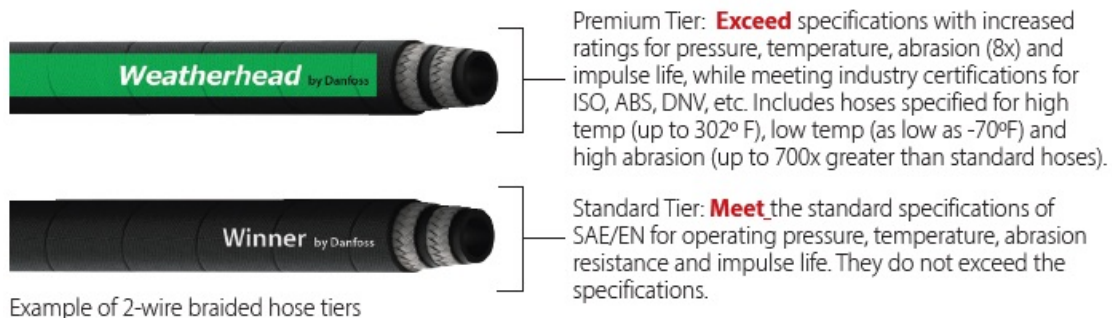
- **Competitive pricing:** Danfoss' two-tier strategy provides options. Need a cost competitive hose that meets specs? Review our Winner hose options. Have a more intense application that needs to stand the test of time? Check out options in our Weatherhead premium brands.

2-tier selling

Premium & standard

Always consider the best product for the application. Understand the application requirements and customer needs. Some platforms will be able to utilize both premium and standard product.

- **Premium Tier:** Exceed specifications with increased ratings for pressure, temperature, abrasion (8x) and impulse life, while meeting industry certifications for ISO, ABS, DNV, etc. Includes hoses specified for high temp (up to 302° F), low temp (as low as -70°F) and high abrasion (up to 700x greater than standard hoses).
- **Standard Tier:** Meet the standard specifications of SAE/EN for operating pressure, temperature, abrasion resistance, and impulse life. They do not exceed the specifications.



Hose types & construction Braided & spiral

- **TUBE:** Conveys fluid. Danfoss has several specialty tubes including Dura-Pulse®, AQP/CPE elastomer tube and Nitrile
- **REINFORCEMENT:** Gives hose its strength. Braided hose is flexible and is suited for medium/high pressure applications. Spiral hose is more rigid than braided, but stronger and works well in high pressure applications.
- **COVER:** Protects the hose. Weather, oil and abrasion resistance. Danfoss specialty covers include Dura-Tuff™ and Bruiser™.



RHHF hose assemblies






RHHF hose assemblies (Hose + Fitting = Hose Assembly)
 Rubber hydraulic MatchMate™ system



Core two-tier hoses

NOTE:

This chart is a representation of our core hoses, NOT a complete list of our RHHF hose product portfolio.

Specs		Hose type				Pressure range	WEATHERHEAD & WINNER CORE HOSES				
SAE	EN	Braided		Spiral		PSI	Winner Standard Tier	Weatherhead Premium Tier			
		1 BRAID	2 BRAID	4 SPIRAL	6 SPIRAL						
							STANDARD	PREMIUM	LOW-TEMP	HIGH-TEMP	ABRASION
SAE 100R1	EN 857 Type 1SC	X				580 to 3,625	EC115	H180	-	H190H	H145R
SAE 100R2	EN 857 Type 2SC		X			1,300 to 6,500	EC215	H280/H881	H245L	H290H	-
SAE 100R4			X			60 to 305	WH004	H039	-	-	-
SAE 100R12	EN 856 R12			X		2,550 to 6,500	EC415	H430	-	H525H	-
SAE 100R13	EN 856 R13			X	X	5,100	EC420	H471	-	-	H430R
SAE 100R15				X	X	6,100	-	H600	H810L	-	-
SAE 100R17		X	X			3,000	EC118	H145	-	-	-

Fittings

Braided hose fittings



Premium: Z series*

- Dura-Kote™ plating technology for up to 1,000 hours of corrosion resistance
- Bite the wire technology for best-in-class connection and sealing
- Class zero leakage SAE J1176 on approved hose styles



Premium: 1R/2R reusable

- Dura-Kote plating technology for up to 1,000 hours of corrosion resistance
- Option to assemble in the field without special tooling
- Reduced downtime and quick repair
- Engineered to provide peak performance with Danfoss' core braided hose products



Standard: Two-piece Winner

- Non-skive, two-piece crimp fitting
- One nipple part number for EC115, EC215 and EC118 standard hoses
- Meets industry specifications when used with the EC115, EC215, and EC118 standard hoses
- Clear silver hexavalent chromium-free plating
- Carbon steel material

Spiral hose fittings



Premium: 4S/6S spiral series

- Dura-Kote plating technology for up to 1,000 hours of corrosion resistance
- Our patented Dura-Seal™ technology eliminates hose assembly cool-down leakage
- Class zero leakage SAE J1176 on approved hose styles

Machines

NOTE:

More crimp machines can be found in the Core Crimp & Tooling brochure AI426662111733en-000101

ET1187



- VOLUME: Low
- TYPE: Variable
- BRAIDED: Up to 1.25"
- SPIRAL: Up to 1"
- APPLICATION: Portable, job shops, maintenance departments

ET1000



- VOLUME: Low
- TYPE: Positive stop
- BRAIDED: Up to 1"
- SPIRAL: Up to 1"
- APPLICATION: Portable, job shops, maintenance departments

FT1380/FT1380e



- VOLUME: Medium
- TYPE: Variable
- BRAIDED: Up to 1.25"
- SPIRAL: Up to 1.25"
- APPLICATION: Hose distributors, small assembly shops

T-420



- VOLUME: Medium
- TYPE: Positive stop
- BRAIDED: Up to 1.25"
- SPIRAL: Up to 1.25"
- APPLICATION: Hose distributors, small assembly shops, factory, construction, mines

Literature & tools

Weatherhead Rubber Hydraulics Catalog Coming Soon



Weatherhead Field Guide [AV463753396526en-000101](#)



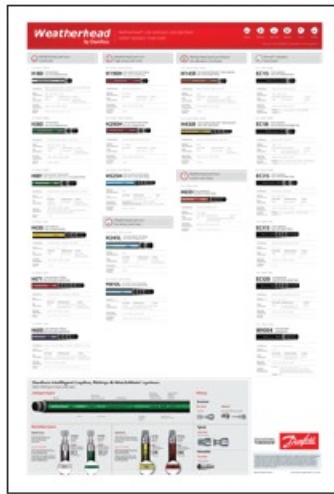
Core Machines & Tooling [AI426662111733en-000101](#).



Winner Hose & Fittings [AD427561072277en-US0201](#).



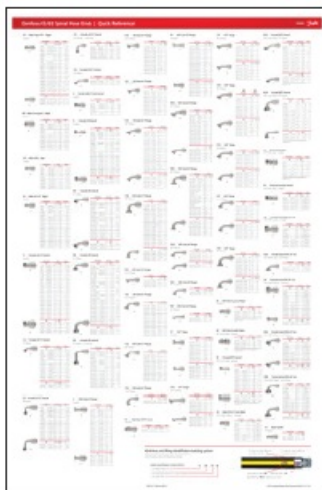
Weatherhead Hose Chart [BC452872734752en-000101](#)



Z Series Fitting Chart [BC452872609750en-000101](#)



4S/6S Fitting Chart [AV435153171853en-000101](#)



Important links:

- danfosspowersource.com
- danfoss.com/crimp

Digital copies:

This literature is available digitally at: danfosspowersource.com then navigate to the Tools drop-down menu and choose literature.

Contacts

- **Customer Service:**

(Order management, delivery, expedites) 1-[800-258-0222](tel:800-258-0222) or email account CSR

- **Product Technical Support:**

(Product technical questions) fpgproductsupport@danfoss.com

- **Product Training:**


hydraulicstraining@danfoss.com

- **Crimp Machine Information:** www.danfosscrimpersupport.com.

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Documents / Resources

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References

-  [Crimp Specs | Danfoss PowerSource](#)
-  [Home Page | Danfoss PowerSource](#)
- [User Manual](#)

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