

ENGINEERING  
TOMORROW

*Danfoss*

North America

Winner™ by Danfoss  
**hose and fittings**



**NAHAD**  
HOSE SAFETY INSTITUTE  
MEMBER

# Table of contents

<b>CONTENTS</b>		<b>Page #</b>
<b>Safety and Ordering Information</b>		3
<b>Warranty Information</b>		3
<b>Winner Hose</b>		
	EC115 EN857 1SC Braided Hose	7
	EC215 EN857 2SC Braided Hose	7
	EC118 SAE100R17 Constant Pressure Hose	8
	WH004 SAE100R4 Suction & Return Hose	8
	EC415 SAE100R12 Spiral Hose	9
	EC420 SAE100R13 Spiral Hose	9
<b>Crimp Socket</b>		
	00110 Crimp Socket 1-Wire	12
	03310 Crimp Socket 2-Wire	12
<b>Hose Fittings (Braided)</b>		
	Female JIC/SAE 37° Swivel	13
	Female ORS Swivel	16
	Male Pipe - NPTF	19
	Male JIC/SAE 37°	19
	Male ORS	20
	Male Boss O-Ring	20

**⚠ WARNING**

Danfoss fitting tolerances are engineered to match approved Danfoss hose tolerances. The use of Danfoss fittings on hose supplied by other manufacturers and/or the use of Danfoss hoses with fittings supplied by other manufactures may result in the production of unreliable and unsafe hose assemblies and is neither recommended nor authorized by Danfoss or any of its affiliates or subsidiaries.

**⚠ WARNING**

Application considerations must be observed in selecting appropriate components for the application of these products contained herein. The failure to follow the recommendations set forth in this catalog may result in an unstable application which may result in serious personal injury or property damage.

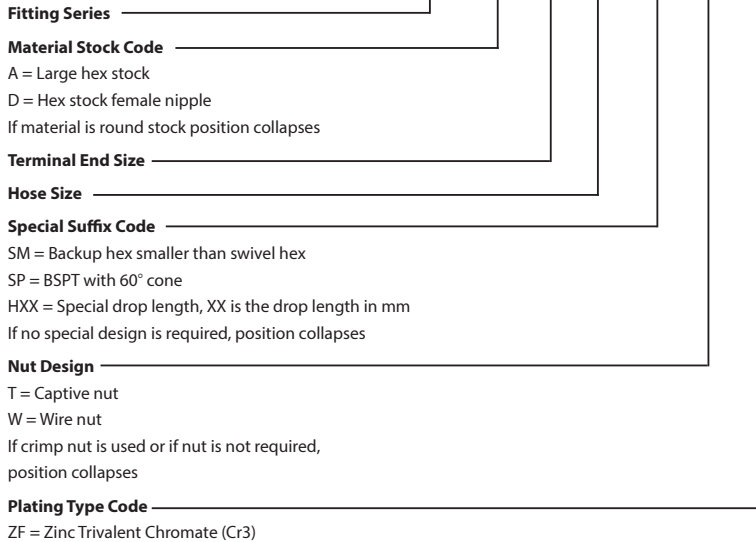
**DANFOSS OR ANY OF ITS AFFILIATES OR SUBSIDIARIES SHALL NOT BE SUBJECT TO AND DISCLAIMS ANY OBLIGATIONS OR LIABILITIES (INCLUDING BUT NOT LIMITED TO ALL CONSEQUENTIAL, INCIDENTAL AND CONTINGENT DAMAGES) ARISING FROM TORT CLAIMS (INCLUDING WITHOUT LIMITATION NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES OF LAW WITH RESPECT TO ANY HOSE ASSEMBLIES NOT PRODUCED FROM GENUINE DANFOSS HOSE FITTINGS, HOSE AND DANFOSS APPROVED EQUIPMENT, AND IN CONFORMANCE WITH DANFOSS' SYNDFLEX PROCESS AND PRODUCT INSTRUCTIONS FOR EACH SPECIFIC HOSE ASSEMBLY.**

Failure to follow these processes and product instructions and limitations could lead to premature hose assembly failures resulting in property damage, serious injury or death.

**Warranty**

Current warranty information can be found at:  
**[www.Danfoss.com/hydraulicswarranty](http://www.Danfoss.com/hydraulicswarranty)**

**Hose Fitting Part Number Nomenclature**     26711 D-04-04 SM W ZF



**Hose Installation**

Proper installation of the hose is essential to the proper operation and safe use of the hose and related equipment. Improper installation of the hose can result in serious injury or property damage caused by spraying fluids or flying projectiles. In order to avoid serious bodily injury or property damage resulting from improper installation of the hose, you should carefully review the information in this catalog regarding hose installation. Some of the factors you must consider in installing the hose properly are:

- Changes in length
- Proper bend radius
- Protection from high temperature sources
- Elbows and adapters to relieve strain
- Rubbing or abrasion
- Twisting
- Improper hose movement

These factors and the other information in this catalog regarding hose installation should be considered by you before installing the hose. If you have any questions regarding proper hose installation, please contact Danfoss Technical Support.

**Hose Maintenance**

Proper maintenance of the hose is essential to the safe use of the hose and related equipment. Hose should be stored in a dry place. Hose should also be visually inspected. Any hose that has a cut or gouge in the cover that exposes the reinforcement should be retired from service. Hoses should also be inspected for kinking or broken reinforcement. If the outside diameter of the hose is reduced by 20% at the spot where it is bent then the hose should be retired from service. Inadequate attention to maintenance of the hose can result in hose leakage, bursting, or other failure which can cause serious bodily injury or property damage from spraying fluids, flying projectiles, or other substances.

Danfoss **Intelligent** Layline

## Our laylines provide **vital hose data** instantly.

Engineering is complex. We just made it easier.  
Critical data at a glance.

When it comes to building the platforms and systems that drive the machines of the future, complex engineering makes it all possible. In hydraulics, specific hose capabilities and certifications must be tailored to the unique requirements of each application to optimize performance, maximize uptime and protect user safety. Danfoss' new laylines distill this complex engineering down into its essential parts for easy identification and simple assembly. Every key piece of information is located in one place, ensuring the right hose—with the right capabilities for the job—is easy to identify every time.

**Enhanced readability:** Danfoss' new laylines take the guesswork out of system assembly. Each layline is easy to read, including important information about the hose—such as the brand, part number, size, abrasion resistance, key specifications, pressure, temp and qualified fitting series.



Winner by Danfoss

EC415-06

9.5 mm (0.36 in)  
DN10

SAE 100R12

280 BAR (4000 PSI)



9.5 mm (0.38 in)  
DN10

Winner by Danfoss

EC215-06

EN857 2SC • ISO 18752  
MSHA IC-84741 • DNV-GL • USCG

BRAND	PART #	SIZE (I.D.)	AGENCY SPECIFICATIONS	PRESSURE	TEMP	SAE BEND	FITTING
Winner by Danfoss	EC215-06	9.5 mm (0.38 in) DN10	EN857 2SC • ISO 18752 MSHA IC-84/41 • DNV-GL • USCG+	345 BAR (5000 PSI)	-40°C to +100°C -40°F to +212°F	Half Bend	1A-Z 2R-2PC

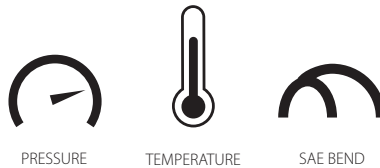
## Agency specifications

Hose agency specifications are clearly defined on each hose. SAE, ISO, MSHA, DNV-GL, USCG designation are displayed clearly on each hose, taking the guess work out of hose qualifications.

In addition, many of Danfoss' premium hydraulic hoses exceed SAE and EN specifications to offer superior performance. We will now consistently note this and other specification-related terms on the layline.

## Global comprehension

The new layline design also introduces easy-to-identify icons and pictograms, which allow more users around the world to intuitively identify performance characteristics associated with each of Danfoss' rubber hydraulic hoses. Icons include temperature, bend radius, pressure, correct fitting type and more.



## SAE bend radius

Each SAE hose standard specifies the minimum bend radius of a hose. This is defined as the smallest diameter the hose can be bent without kinking. However, Danfoss recognizes that merely meeting a standard is often not good enough for the tight routing needs of your applications. Many of our core hoses have long been engineered to perform at half or even one-third of the bend radius required by SAE.

For the first time, our laylines will now indicate when a hose exceeds the SAE bend radius requirement. This improvement in bend means easier routing, better performance and reduced hose length requirements.

## Fitting info

As part of this layline refresh, all of Danfoss' rubber hydraulic hoses will now utilize the simple, intuitive MatchMate hose & fitting system.

▶ Braided

**MatchMate:**  
1A/Z on fitting pairs with layline 1A/Z

**Braided:**  
Number of rings on fitting correspond to ring icons on layline

1-wire braided

▶ Braided

**MatchMate:**  
4S/6S on fitting pairs with layline 4S/6S

**Braided:**  
Number of rings on fitting correspond to ring icons on layline

2-wire braided

▶ Spiral

**MatchMate:**  
4S/6S on fitting pairs with layline 4S/6S

**Spiral:**  
Number of rings on fitting correspond to 4S or 6S icons on layline

4-wire spiral | 6-wire spiral

Winner™ by Danfoss hoses

Winner hoses:  
The choice when  
**every job** matters.

Reliability and performance are essential, every day, for every project. Winner™ by Danfoss hose is the go-to everyday hose when every job matters. Designed specifically for less extreme applications that still need critical hose certifications, Winner hose fills the gap for more moderate applications.



# EC115 Hydraulic hose

Meets: EN 857 Type 1SC



**Layline Example:**

**Winner** by Danfoss **EC115-08** 12.7 MM (0.50 IN) DN12 | EN857 1SC • MSHA IC-84/41 DNV-GL • USCG+ | 160 BAR (2300 PSI) -40°C to +100°C -40°F to +212°F | 1A • Z 2PC • 1R

**Construction:** Inner Tube: Synthetic rubber Reinforcement: 1 steel braid Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC115-04	6.4	0.25	12.6	0.50	225	3,250	900	13,000	50	1.97	0.18	0.12
EC115-06	9.5	0.38	16.0	0.63	180	2,600	720	10,400	63	2.48	0.26	0.17
EC115-08	12.7	0.50	19.4	0.77	160	2,300	640	9,200	90	3.54	0.34	0.23
EC115-10	15.9	0.62	22.4	0.88	130	1,900	520	7,600	100	3.94	0.42	0.28
EC115-12	19.0	0.75	26.0	1.02	105	1,525	420	6,100	120	4.72	0.50	0.34
EC115-16	25.4	1.00	33.8	1.33	88	1,275	352	5,100	160	6.30	0.74	0.50
EC115-20	31.8	1.25	41.2	1.62	63	925	252	3,700	210	8.27	0.99	0.67
EC115-24	38.1	1.50	48.0	1.89	50	725	200	2,900	300	11.81	1.20	0.81
EC115-32	50.8	2.00	61.0	2.41	40	580	160	2,320	400	15.75	1.50	1.01

**Typical Application:**

Hydraulic system service with petroleum and water based fluids, for general industrial service.

**Agency Specifications:**

MSHA Approved  
DNV-GL  
USCG

**Operating Temperature:** -40°C to +100°C (-40°F to +212°F)

**Fittings:** 1A/Z-Series | Two-piece Winner | 1R Field Attachable

# EC215 Hydraulic hose

Meets: EN 857 Type 2SC



**Layline Example:**

**Winner** by Danfoss **EC215-06** 9.5 mm (0.38 in) DN10 | EN857 2SC • ISO 18752 MSHA IC-84/41 • DNV-GL • USCG+ | 345 BAR (5000 PSI) -40°C to +100°C -40°F to +212°F | Half Bend | 1A • Z 2R • 2PC

**Construction:** Inner Tube: Synthetic rubber Reinforcement: 2 steel braid Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC215-04	6.4	0.25	13.5	0.53	400	5,800	1,600	23,200	50	1.97	0.28	0.19
EC215-06	9.5	0.38	17.5	0.69	345	5,000	1,380	20,000	65	2.56	0.41	0.28
EC215-08	12.7	0.50	20.8	0.82	275	4,000	1,100	16,000	90	3.54	0.57	0.38
EC215-10	15.9	0.62	24.0	0.94	250	3,650	1,000	14,600	100	3.94	0.68	0.46
EC215-12	19.0	0.75	27.9	1.10	215	3,125	860	12,500	120	4.72	0.81	0.54
EC215-16	25.4	1.00	35.7	1.40	165	2,400	660	9,600	160	6.30	1.17	0.79
EC215-20	31.8	1.25	43.9	1.73	125	1,800	500	7,200	250	9.84	1.56	1.05
EC215-24	38.1	1.50	51.0	2.01	100	1,450	400	5,800	300	11.81	1.81	1.22
EC215-32	50.8	2.00	63.4	2.50	90	1,300	360	5,200	400	15.75	2.36	1.59

**Typical Application:**

Hydraulic system service with petroleum and water based fluids, for general industrial service.

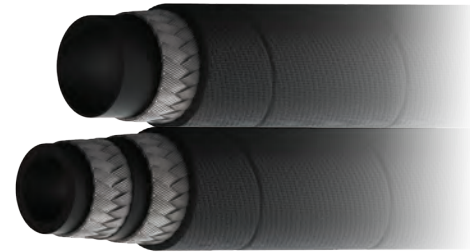
**Agency Specifications:**

MSHA Approved  
DNV-GL  
USCG

**Operating Temperature:** -40°C to +100°C (-40°F to +212°F)

**Fittings:** 1A/Z-Series | Two-piece Winner | 2R Field Attachable

## Winner braided hose / suction & return hose



# EC118

Hydraulic hose  
Meets: SAE 100R17

### Layline Example:

**Winner** by Danfoss **EC118-08** 12.7 mm (0.50 in) DN12 | SAE 100R17 • ISO 18752 MSHA IC-84/41 • USCG | 210 BAR (3050 PSI) | -40°C to +100°C -40°F to +212°F | 1A • Z 2PC

**Construction:** Inner Tube: Synthetic rubber Reinforcement: 1 wire braid: -04, -06, -08; 2 wire braid: -10, -12, -16 Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
<b>EC118-04</b>	6.4	0.25	12.2	0.48	210	3,050	840	12,200	50.8	2.00	0.18	0.12
<b>EC118-06</b>	9.5	0.38	15.5	0.61	210	3,050	840	12,200	63.5	2.50	0.27	0.18
<b>EC118-08</b>	12.7	0.50	19.0	0.75	210	3,050	840	12,200	88.9	3.50	0.36	0.24
<b>EC118-10</b>	15.9	0.62	23.8	0.94	210	3,050	840	12,200	101.6	4.00	0.69	0.46
<b>EC118-12</b>	19.0	0.75	27.7	1.09	210	3,050	840	12,200	120.7	4.75	0.81	0.54
<b>EC118-16</b>	25.4	1.00	36.0	1.42	210	3,050	840	12,200	152.4	6.00	1.21	0.81

### Typical Application:

Low and medium pressure hydraulic systems with petroleum and water-based fluids

Construction equipment and agriculture equipment

### Agency Specifications:

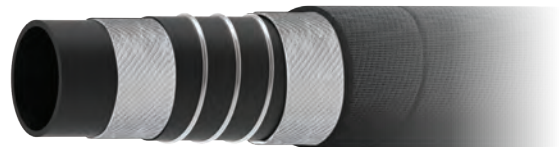
MSHA Approved  
USCG

**Operating Temperature:** -40°C to +100°C (-40°F to +212°F)

**Fittings:** 1A/Z-Series | Two-piece Winner

# WH004

Suction & return hose  
Meets: SAE 100R4



### Layline Example:

**Winner** by Danfoss **WH004-12** 19 mm (0.75 in) DN19 | Exceeds SAE 100R4 Performance MSHA IC-261/5 | 21 BAR (305 PSI) | -40°C to +100°C -40°F to +212°F | 1A • Z 1G • 2 pc

**Construction:** Inner Tube: Oil resistant NBR Reinforcement: Textile with helical and anti-static wire Cover: Abrasion Resistant Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		VACUUM		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Vacuum		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kPa	in/Hg	kg/m	lbs/ft
<b>WH004-12</b>	19.0	0.75	30.0	1.18	21	305	84	1,220	40	1.57	94.8	28	0.54	0.36
<b>WH004-16</b>	25.4	1.00	36.2	1.43	17	245	68	980	45	1.77	94.8	28	0.68	0.46
<b>WH004-20</b>	31.8	1.25	43.0	1.69	14	205	56	820	60	2.36	94.8	28	0.85	0.57
<b>WH004-24</b>	38.1	1.50	50.2	1.98	10.5	150	42	600	65	2.56	94.8	28	1.20	0.81
<b>WH004-32</b>	50.8	2.00	63.2	2.49	7	100	28	400	100	3.94	94.8	28	1.53	1.03
<b>WH004-40</b>	53.5	2.50	76.7	3.02	4	60	16	240	140	5.51	94.8	28	2.05	1.38
<b>WH004-48</b>	76.2	3.00	89.4	3.52	4	60	16	240	180	7.09	94.8	28	2.62	1.76

### Typical Application:

Suitable for use in suction applications for hydraulics, crude fuel, lubricating oils, gasoline, air, water and chemical transfer

### Agency Specifications:

SAE 100R4  
MSHA IC-261/5

**Operating Temperature:** -40° C to +100° C (-40° to +212° F)

**Fittings:** 1A/Z Series and 1G: -12, -16, -20, -24 and -32 | 4T Optimum & Winner 2 pc Series: -12 and -16  
**Hose barb with band clamps:** -12 thru -48 with a reduced operating pressure rating of 4 bar (60 psi)



# EC415 Hydraulic hose

Meets: SAE 100R12



**Layline example:**

**Winner** by Danfoss **EC415-08** 12.7 mm (0.50 in) DN12 | SAE 100R12 - EN856 R12 - ISO 18752 | MSHA IC-84/41 - USCG ⚡ | 280 BAR (4050 PSI) | -40°C to +121°C (-40°F to +250°F) | Half Bend | 4S

**Construction:** Inner Tube: Synthetic rubber Reinforcement: 4 wire spiral Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC415-06	9.5	0.38	20.3	0.80	280	4,050	1,120	16,200	63	2.48	0.60	0.40
EC415-08	12.7	0.50	23.8	0.94	280	4,050	1,120	16,200	90	3.54	0.74	0.50
EC415-10	15.9	0.62	27.7	1.09	280	4,050	1,120	16,200	100	3.94	1.03	0.69
EC415-12	19.0	0.75	30.7	1.21	280	4,050	1,120	16,200	120	4.72	1.16	0.78
EC415-16	25.4	1.00	38.0	1.50	280	4,050	1,120	16,200	150	5.91	1.76	1.18
EC415-20	31.8	1.25	47.0	1.85	210	3,050	840	12,200	210	8.27	2.46	1.65
EC415-24	38.1	1.50	53.5	2.11	207	3,000	827	12,000	250	9.84	2.87	1.92
EC415-32	50.8	2.00	66.7	2.63	207	3,000	827	12,000	320	12.60	4.03	2.70

**Typical Application:**

Hydraulic systems service with petroleum and water based fluids, for general use.

**Agency Specifications:**

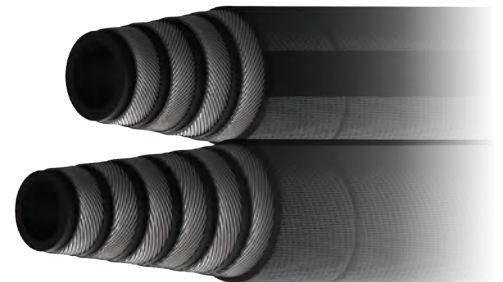
MSHA Approved  
USCG

**Operating Temperature:** -40°C to +121°C (-40°F to +250°F)

**Fittings:** 4S Series

# EC420 Hydraulic hose

Meets: SAE 100R13



**Layline Example:**

**Winner** by Danfoss **EC420-12** 19 mm (0.75 in) DN11 | SAE 100R13 - EN856 R13 - ISO 18752 | MSHA IC-84/41 - USCG ⚡ | 350 BAR (5100 PSI) | -40°C to +121°C (-40°F to +250°F) | Half Bend | 4S

**Construction:** Inner Tube: Synthetic rubber Reinforcement: 4 wire spiral: -12, -16; 6 wire spiral: -20 to -32 Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC420-12	19.0	0.75	32.1	1.27	350	5,100	1,400	20,400	120	4.72	1.54	1.03
EC420-16	25.4	1.00	38.7	1.53	350	5,100	1,400	20,400	150	5.91	2.01	1.35
EC420-20	31.8	1.25	49.8	1.96	350	5,100	1,400	20,400	210	8.27	3.78	2.54
EC420-24	38.1	1.50	57.3	2.26	350	5,100	1,400	20,400	250	9.84	4.73	3.18
EC420-32	50.8	2.00	71.6	2.82	350	5,100	1,400	20,400	320	12.60	6.26	4.21

**Typical Application:**

Suitable for use in hydraulic systems with high peak pressures and arduous operating conditions.

**Agency Specifications:**



MSHA Approved  
USCG

**Operating Temperature:** -12,-20, -24, And -32: -40°C To +121°C (-40°F to +250°F)  
-16: -40°C To +100°C (-40°F To +212°F)

**Fittings:** 4S/6S Series

# Standard and premium fittings - the **right** product for every **application**

Braided or spiral, premium or standard, there is a Danfoss fitting for your application.

<p>Braided Hose Fittings</p>	<p>Features:</p>
<p><b>Premium</b> 1A / Z-series</p> 	<ul style="list-style-type: none"> <li>• New <b>Dura-Kote™</b> plating technology for up to 1,000 hours of corrosion resistance</li> <li>• Bite the wire technology for best in class connection and sealing</li> <li>• Class zero leakage SAE J1176 on approved hose styles</li> <li>• Over 550 1A Series part numbers available</li> <li>• Danfoss' <b>MatchMate®</b> program provides identification markings on the hose, hose fittings, and crimp dies for quick and easy assembly</li> </ul>
<p><b>Standard</b> Two-piece Winner</p> 	<ul style="list-style-type: none"> <li>• Non-skive, two-piece crimp fitting</li> <li>• One nipple part number for EC115, EC215 and EC118 standard hoses</li> <li>• Meets industry specifications when used with the EC115, EC215 and EC118 standard hoses</li> <li>• Clear silver hexavalent chromium-free plating</li> <li>• Carbon steel material</li> </ul>
<p>Spiral Hose Fittings</p>	<p>Features:</p>
<p><b>Premium</b> 4S/6S Spiral Series</p> 	<ul style="list-style-type: none"> <li>• New <b>Dura-Kote</b> plating technology for up to 1,000 hours of corrosion resistance</li> <li>• New patent pending <b>Dura-Seal™</b> technology to eliminate hose assembly cool-down leakage</li> <li>• Class zero leakage SAE J1176 on approved hose styles</li> <li>• Danfoss' <b>MatchMate</b> spiral-hose/fitting identification system program provides identification markings on the hose, hose fittings, and crimp dies for quick and easy assembly</li> </ul>
<p>Reusable Hose Fittings</p>	<p>Features:</p>
<p><b>Premium</b> Reusable</p> 	<ul style="list-style-type: none"> <li>• New <b>Dura-Kote</b> plating technology for up to 1,000 hours of corrosion resistance</li> <li>• Engineered to provide peak performance with Danfoss' core braided hose products</li> <li>• Can be assembled in the field without special tooling</li> <li>• Reduced downtime</li> <li>• Quick repair</li> </ul>

# Dura-Kote and Dura-Seal technology **extends the life** of your hose assembly



**3X** Carbon Steel  
Corrosion Protection

## **Dura-Kote Plating Technology**

Hose fittings that will now offer 3x the corrosion protection on carbon steel fittings as compared to competitive hose fittings. Danfoss' Dura-Kote fittings provide up to 1000 hours of corrosion protection. This is a huge step forward in metal fitting corrosion protection. (Only on TTC/Z-Series and 4S/6S fittings)



4S/6S Fitting

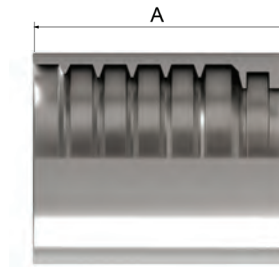
**Class 0** Cool-Down Leakage  
Protection

## **Dura-Seal™ Technology**

This patent-pending innovation from Danfoss eliminates hose assembly cool-down leakage, while extending hose assembly life, reducing equipment down-time. (Only on 4S/6S fittings)

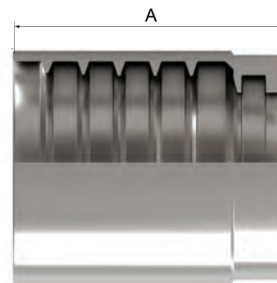


## 00110 Crimp Socket 1-wire



PART	HOSE SIZE INFO		DIMENSIONS				WEIGHT	
	#	DN	Dash Size	A	OD	Weight		
			mm	in	mm	in	kg	lb
<b>00110-04ANZF</b>	6	-04	27,5	1.08	21.0	0.83	0.03	0.07
<b>00110-06ANZF</b>	10	-06	30,0	1.18	24.3	0.96	0.04	0.08
<b>00110-08ANZF</b>	12	-08	34,0	1.34	28.0	1.10	0.05	0.10
<b>00110-10ANZF</b>	16	-10	37,0	1.46	31.3	1.23	0.06	0.13
<b>00110-12ANZF</b>	20	-12	42,0	1.65	28.7	1.13	0.08	0.17
<b>00110-16ANZF</b>	25	-16	51,0	2.01	43.5	1.71	0.13	0.28

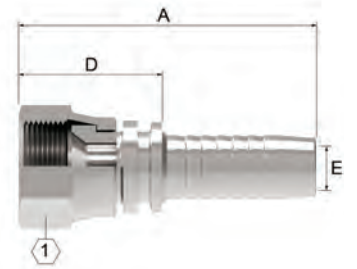
## 03310 Crimp Socket 2-wire



PART	HOSE SIZE INFO		DIMENSIONS				WEIGHT	
	#	DN	Dash Size	A	OD	Weight		
			mm	in	mm	in	kg	lb
<b>03310-04NZF</b>	6	-04	30.5	1.20	23.0	0.91	0.04	0.09
<b>03310-06NZF</b>	10	-06	32.0	1.26	26.0	1.02	0.04	0.09
<b>03310-08NZF</b>	12	-08	34.0	1.34	29.0	1.14	0.05	0.10
<b>03310-10ANZF</b>	16	-10	35.0	1.38	34.5	1.36	0.06	0.14
<b>03310-12NZF</b>	20	-12	42.0	1.65	37.0	1.46	0.08	0.18
<b>03310-16NZF</b>	25	-16	52.0	2.05	46.7	1.84	0.15	0.33

## 26711 Female JIC/SAE 37° Swivel

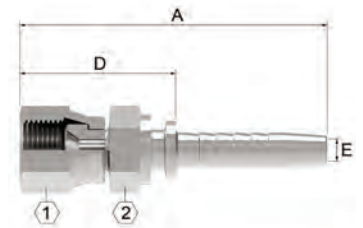
For use with hose: EC115, EC215 and EC118



PART		HOSE SIZE INFO			DIMENSIONS							WEIGHT	
#	Terminal End	Thread	Hose Size	A	D Cut Off Factor		E Ø		1	Weight			
	Dash Size		DN	Dash Size	mm	in	mm	in	mm	in	mm	kg	lb
<b>26711-04-04ZF</b>	-04	7/16"-20	6	-04	43.0	1.69	15.0	0.59	4.0	0.16	14	0.020	0.044
<b>26711-06-04ZF</b>	-06	9/16"-18	6	-04	43.5	1.71	15.5	0.61	4.0	0.16	19	0.032	0.071
<b>26711-06-06ZF</b>	-06	9/16"-18	10	-06	45.5	1.79	15.5	0.61	7.0	0.28	19	0.037	0.082
<b>26711-08-06ZF</b>	-08	3/4"-16	10	-06	47.5	1.87	17.5	0.69	7.0	0.28	22	0.054	0.119
<b>26711-08-08ZF</b>	-08	3/4"-16	12	-08	50.0	1.97	18.5	0.73	9.9	0.39	22	0.060	0.132
<b>26711-10-08ZF</b>	-10	7/8"-14	12	-08	50.5	1.99	19.0	0.75	10.0	0.39	27	0.090	0.198
<b>26711-10-10ZF</b>	-10	7/8"-14	16	-10	53.5	2.11	19.5	0.77	12.0	0.47	27	0.100	0.220
<b>26711-12-12ZF</b>	-12	1 1/16"-12	20	-12	60.0	2.36	21.5	0.85	15.0	0.59	32	0.130	0.287
<b>26711-16-16ZF</b>	-16	1 5/16"-12	25	-16	70.0	2.76	23.0	0.91	21.0	0.83	41	0.210	0.463

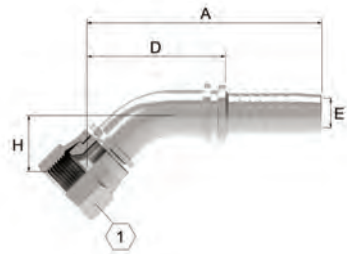
## 26711D Female JIC/SAE 37° Swivel\*

For use with hose: EC115, EC215 and EC118



PART		HOSE SIZE INFO			DIMENSIONS							WEIGHT		
#	Terminal End	Thread	Hose Size	A	D Cut Off Factor		E Ø		1	2	Weight			
	Dash Size		DN	Dash Size	mm	in	mm	in	mm	in	mm	mm	kg	lb
<b>26711D-04-04ZF</b>	-04	7/16"-20	6	-04	57.0	2.24	29.0	1.14	4.0	0.16	14	14	0.03	0.07
<b>26711D-06-04ZF</b>	-06	9/16"-18	6	-04	59.0	2.32	31.0	1.22	3.9	0.15	19	19	0.04	0.10
<b>26711D-06-06ZF</b>	-06	9/16"-18	10	-06	61.0	2.40	31.0	1.22	6.9	0.27	19	19	0.05	0.10
<b>26711D-08-06ZF</b>	-08	3/4"-16	10	-06	66.0	2.60	36.0	1.42	6.9	0.27	22	22	0.08	0.18
<b>26711D-08-08ZF</b>	-08	3/4"-16	12	-08	67.0	2.64	35.5	1.40	9.8	0.38	22	22	0.08	0.17
<b>26711D-10-08ZF</b>	-10	7/8"-14	12	-08	70.5	2.78	39.0	1.54	9.9	0.39	27	27	0.10	0.23
<b>26711D-10-10ZF</b>	-10	7/8"-14	16	-10	61.0	2.40	27.0	1.06	12.0	0.47	27	27	0.12	0.26
<b>26711D-12-10ZF</b>	-12	1 1/16"-12	16	-10	79.5	3.13	45.5	1.79	11.9	0.47	32	32	0.18	0.39
<b>26711D-12-12ZF</b>	-12	1 1/16"-12	20	-12	84.5	3.33	46.0	1.81	14.9	0.59	32	32	0.19	0.41
<b>26711D-12-16ZF</b>	-12	1 3/16"-12	25	-16	95.0	3.74	48.0	1.89	20.9	0.82	32	36	0.23	0.50
<b>26711D-16-12ZF</b>	-16	1 5/16"-12	20	-12	86.6	3.41	48.1	1.89	14.9	0.59	41	41	0.30	0.65
<b>26711D-16-16ZF</b>	-16	1 5/16"-12	25	-16	96.7	3.81	49.7	1.96	20.9	0.82	41	41	0.32	0.71

\*Note: This part has a backup hex.



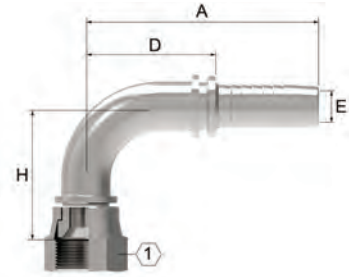
# 26741 Female JIC/SAE 37° Swivel 45° Elbow

For use with hose: EC115, EC215 and EC118

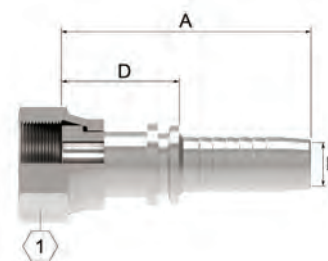
PART	HOSE SIZE INFO			DIMENSIONS								WEIGHT			
#	Terminal End	Thread	Hose Size	A		D Cut Off Factor		E Ø		H		1	Weight		
	Dash Size		DN	Dash Size	mm	in	mm	in	mm	in	mm	in	mm	kg	lb
<b>26741-04-04ZF</b>	-04	7/16"-20	6	-04	63.1	2.48	35.1	1.38	4.0	0.16	13.0	0.51	14	0.035	0.077
<b>26741-06-06ZF</b>	-06	9/16"-18	10	-06	68.8	2.71	38.8	1.53	7.0	0.28	14.8	0.58	19	0.062	0.137
<b>26741-08-08ZF</b>	-08	3/4"-16	12	-08	76.8	3.02	45.3	1.78	10.0	0.39	19.0	0.75	22	0.105	0.231
<b>26741-10-10ZF</b>	-10	7/8"-14	16	-10	88.4	3.48	54.4	2.14	12.0	0.47	22.1	0.87	27	0.146	0.322
<b>26741-12-12ZF</b>	-12	1.1/16"-12	20	-12	97.8	3.85	59.3	2.33	15.0	0.59	24.2	0.95	32	0.240	0.529
<b>26741-16-16ZF</b>	-16	1.5/16"-12	25	-16	121.3	4.78	74.3	2.93	21.0	0.83	28.7	1.13	41	0.400	0.882
<b>26741-04-04H10ZF</b>	-04	7/16"-12	6	-04	59.0	2.32	31.0	1.22	3.9	0.15	10.0	0.39	14	0.01	0.01
<b>26741-06-06H11ZF</b>	-06	9/16"-18	6	-04	60.0	2.36	3.02	1.26	3.9	0.15	11.0	0.43	19	0.01	0.02
<b>26741-06-06H11ZF</b>	-06	9/16"-18	10	-06	65.7	2.59	35.7	1.41	6.9	0.27	11.0	0.43	19	0.05	0.11
<b>26741-08-06TZF</b>	-08	3/4"-16	10	-06	70.4	2.77	40.4	1.59	6.9	0.27	15.0	0.59	22	0.07	0.15
<b>26741-08-08H15ZF</b>	-08	3/4"-16	12	-08	78.9	3.11	47.4	1.87	9.9	0.39	15.0	0.59	22	0.07	0.16
<b>26741-10-10H16ZF</b>	-10	7/8"-14	16	-10	87.4	3.44	53.4	2.10	11.9	0.47	16.0	0.63	27	0.12	0.26
<b>26741-12-12H21ZF</b>	-12	1 1/16"-12	20	-12	95.4	3.76	56.9	2.24	14.9	0.59	21.0	0.83	32	0.19	0.42
<b>26741-16-16H24ZF</b>	-16	1 5/16"-12	25	-16	119.47	4.7	72.47	2.85	20.9	0.82	24.0	0.94	41	0.36	0.80

# 26791 Female JIC/SAE 37° Swivel 90° Elbow

For use with hose: EC115, EC215 and EC118



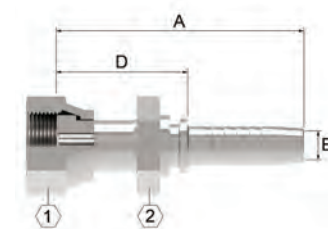
PART		HOSE SIZE INFO				DIMENSIONS							WEIGHT		
#	Terminal End	Thread	Hose Size		A		D Cut Off Factor		E Ø		H		①	Weight	
	Dash Size		DN	Dash Size	mm	in	mm	in	mm	in	mm	in	mm	kg	lb
<b>26791-04-04ZF</b>	-04	7/16"-20	6	-04	58.0	2.28	30.0	1.18	4.0	0.16	26.3	1.04	14	0.040	0.088
<b>26791-06-04ZF</b>	-06	9/16"-18	6	-04	58.0	2.28	30.0	1.18	4.0	0.16	27.0	1.06	19	0.048	0.106
<b>26791-06-06ZF</b>	-06	9/16"-18	10	-06	64.5	2.54	34.5	1.36	7.0	0.28	31.5	1.24	19	0.070	0.154
<b>26791-08-08ZF</b>	-08	3/4"-16	12	-08	71.0	2.80	39.5	1.56	10.0	0.39	40.0	1.57	22	0.118	0.260
<b>26791-10-08ZF</b>	-10	7/8"-14	12	-08	71.0	2.80	39.5	1.56	10.0	0.39	42.0	1.65	27	0.132	0.291
<b>26791-10-10ZF</b>	-10	7/8"-14	16	-10	83.0	3.27	49.0	1.93	12.0	0.47	47.5	1.87	27	0.190	0.419
<b>26791-12-12ZF</b>	-12	1.1/16"-12	20	-12	93.0	3.66	54.5	2.15	15.0	0.59	53.5	2.11	32	0.300	0.661
<b>26791-16-16ZF</b>	-16	1.5/16"-12	25	-16	118.0	4.65	71.0	2.80	21.0	0.83	66.1	2.60	41	0.460	1.014
<b>26791-04-04H21ZF</b>	-04	7/16"-20	6	-04	55.3	2.18	27.3	1.07	3.9	0.15	21.0	0.83	14	0.03	0.06
<b>26791-06-04H23ZF</b>	-06	9/16"-18	6	-04	55.3	2.18	27.3	1.07	3.9	0.15	23.0	0.91	19	0.04	0.09
<b>26791-06-06H23ZF</b>	-06	9/16"-18	10	-06	61.8	2.43	31.8	1.25	6.9	0.27	23.0	0.91	19	0.05	0.11
<b>26791-06-06H54ZF</b>	-06	9/16"-18	10	-06	64.5	2.54	34.5	1.36	6.9	0.27	54.0	2.13	19	0.08	0.17
<b>26791-08-06H29ZF</b>	-08	3/4"-16	10	-06	68.5	2.7	38.5	1.52	6.9	0.27	29.0	1.14	22	0.08	0.17
<b>26791-08-08H29ZF</b>	-08	3/4"-16	12	-08	78.5	3.09	47.0	1.85	9.9	0.39	29.0	1.14	22	0.08	0.18
<b>26791-10-08H32ZF</b>	-10	7/8"-14	12	-08	76.0	2.99	44.5	1.75	9.9	0.39	32.0	1.26	27	0.11	0.25
<b>26791-10-10H32ZF</b>	-10	7/8"-14	16	-10	83.5	3.29	49.5	1.95	11.9	0.47	32.0	1.26	27	0.12	0.27
<b>26791-12-10H48ZF</b>	-12	1 1/16"-12	16	-10	83.0	3.27	49.0	1.93	11.9	0.47	48.0	1.89	32	0.21	0.46
<b>26791-12-10H96ZF</b>	-12	1 1/16"-12	16	-10	83.0	3.27	49.0	1.93	12.0	0.47	96.0	3.78	32	0.26	0.58
<b>26791-12-12H48ZF</b>	-12	1 1/16"-12	20	-12	92.8	3.65	54.3	2.14	14.9	0.59	48.0	1.89	32	0.22	0.49
<b>26791-12-12H96ZF</b>	-12	1 1/16"-12	20	-12	93.0	3.66	54.5	2.15	14.9	0.59	96.0	3.78	32	0.33	0.72
<b>26791-16-16H56ZF</b>	-16	1 5/16"-12	25	-16	118.3	4.66	71.3	2.81	20.9	0.82	56.0	2.2	41	0.48	1.06



## 24211 Female ORS Swivel

For use with hose: EC115, EC215 and EC118

PART		HOSE SIZE INFO			DIMENSIONS							WEIGHT	
#	Terminal End	Thread	Hose Size	A	D Cut Off Factor		E Ø		1	Weight			
	Dash Size	DN	Dash Size	mm	in	mm	in	mm	in	mm	kg	lb	
24211-04-04ZF	-04	9/16"×18	6	-04	50.5	1.99	22.5	0.89	4.0	0.16	17	0.034	0.075
24211-06-06ZF	-06	11/16"×16	10	-06	55.5	2.19	25.5	1.00	7.0	0.28	22	0.055	0.121
24211-08-08ZF	-08	13/16"×16	12	-08	59.5	2.34	28.0	1.10	10.0	0.39	27	0.086	0.190
24211-10-10ZF	-10	1"×14	16	-10	67.0	2.64	33.0	1.30	12.0	0.47	30	0.120	0.265
24211-12-12ZF	-12	1.3/16"×12	20	-12	73.5	2.89	35.0	1.38	15.0	0.59	36	0.195	0.430
24211-16-16TZF	-16	1.7/16"×12	25	-16	82.0	3.23	35.0	1.38	21.0	0.83	41	0.260	0.573



## 24211D Female ORS Swivel\*

For use with hose: EC115, EC215 and EC118

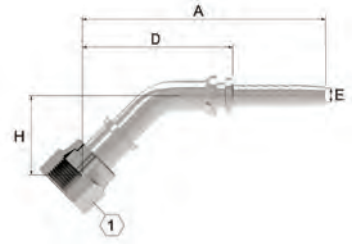
PART		HOSE SIZE INFO			DIMENSIONS							WEIGHT		
#	Terminal End	Thread	Hose Size	A	D Cut Off Factor		E Ø		1	2	Weight			
	Dash Size	DN	Dash Size	mm	in	mm	in	mm	in	mm	mm	kg	lb	
24211D-04-04ZF	-04	9/16"-18	6	-04	56.0	2.20	28.0	1.10	4.00	0.16	19	17	0.04	0.09
24211D-06-04ZF	-06	11/16"-16	6	-04	60.5	2.38	32.5	1.28	4.00	0.16	22	22	0.07	0.15
24211D-06-06ZF	-06	11/16"-16	10	-06	63.5	2.50	33.5	1.32	7.00	0.28	22	22	0.08	0.17
24211D-06-08ZF	-06	11/16"-16	12	-08	65.5	2.58	34.0	1.34	10.0	0.39	22	22	0.09	0.19
24211D-08-06ZF	-08	13/16"-16	10	-06	65.5	2.58	35.5	1.40	7.00	0.28	24	24	0.11	0.24
24211D-08-08ZF	-08	13/16"-16	12	-08	67.5	2.66	36.0	1.42	10.0	0.39	24	24	0.11	0.24
24211D-08-10ZF	-08	13/16"-16	16	-10	71.0	2.80	37.0	1.46	11.9	0.47	24	24	0.13	0.29
24211D-10-08SMZF	-10	1"-14	12	-08	70.0	2.76	38.5	1.52	10.0	0.39	24	30	0.14	0.30
24211D-10-08ZF	-10	1"-14	12	-08	72.5	2.85	41.0	1.61	9.90	0.39	30	30	0.17	0.36
24211D-10-10SMZF	-10	1"-14	16	-10	74.0	2.91	39.0	1.54	11.5	0.45	24	30	0.16	0.35
24211D-10-10ZF	-10	1"-14	16	-10	76.0	2.99	42.0	1.65	11.9	0.47	30	30	0.18	0.39
24211D-10-12ZF	-10	1"-14	20	-12	81.5	3.21	43.0	1.69	15.0	0.59	30	30	0.20	0.44
24211D-12-08ZF	-12	1 3/16"-12	12	-08	75.8	2.98	44.3	1.74	9.90	0.39	36	36	0.25	0.56
24211D-12-10ZF	-12	1 3/16"-12	16	-10	79.5	3.13	45.5	1.79	11.9	0.47	36	36	0.26	0.56
24211D-12-12ZF	-12	1 3/16"-12	20	-12	84.0	3.31	45.5	1.79	14.9	0.59	36	36	0.26	0.58
24211D-12-16ZF	-12	1 3/16"-12	25	-16	93.5	3.68	46.5	1.83	20.9	0.82	36	36	0.29	0.65
24211D-16-12ZF	-16	1 7/16"-12	20	-12	86.5	3.41	48.0	1.89	14.9	0.59	41	41	0.33	0.73
24211D-16-16ZF	-16	1 7/16"-12	25	-16	96.0	3.78	49.0	1.93	20.9	0.82	41	41	0.36	0.78

\*Note: This part has a backup hex.

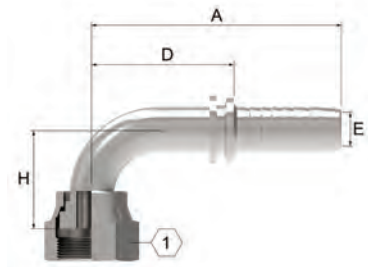


# 24241 Female ORS Swivel 45° Elbow

For use with hose: EC115, EC215 and EC118



PART		HOSE SIZE INFO			DIMENSIONS								WEIGHT		
#	Terminal End	Thread	Hose Size	A		D Cut Off Factor		E Ø		H		1	Weight		
	Dash Size	DN	Dash Size	mm	in	mm	in	mm	in	mm	in	mm	kg	lb	
<b>24241-04-04H10ZF</b>	-04	9/16"-18	6	-04	59.5	2.34	34.5	1.36	3.9	0.15	10	0.39	17	0.03	0.07
<b>24241-04-06H10ZF</b>	-04	9/16"-18	10	-06	66.9	2.63	36.9	1.45	7.0	0.28	10	0.39	17	0.04	0.09
<b>24241-06-04H11TZF</b>	-06	11/16"-16	6	-04	63.5	2.50	35.5	1.40	3.9	0.15	11	0.43	22	0.06	0.13
<b>24241-06-06H11ZF</b>	-06	11/16"-16	10	-06	64.9	2.56	34.9	1.37	7.0	0.28	11	0.43	22	0.06	0.12
<b>24241-08-06H15TZF</b>	-08	13/16"-16	10	-06	71.3	2.81	41.3	1.63	6.9	0.27	15	0.59	24	0.08	0.17
<b>24241-08-08H15ZF</b>	-08	13/16"-16	12	-08	80.9	3.19	49.4	1.94	9.9	0.39	15	0.59	24	0.11	0.24
<b>24241-10-08H16TZF</b>	-10	1"-14	12	-08	82.4	3.24	50.9	2.00	10.0	0.39	16	0.63	30	0.15	0.34
<b>24241-10-10H16ZF</b>	-10	1"-14	16	-10	86.6	3.41	52.6	2.07	11.9	0.47	16	0.63	30	0.14	0.30
<b>24241-12-12H21ZF</b>	-12	1 3/16"-12	20	-12	106.9	4.21	68.4	2.69	14.9	0.59	21	0.83	36	0.29	0.64
<b>24241-16-16H24TZF</b>	-16	1 7/16"-12	25	-16	123.4	4.86	76.4	3.01	20.9	0.82	24	0.94	41	0.36	0.80



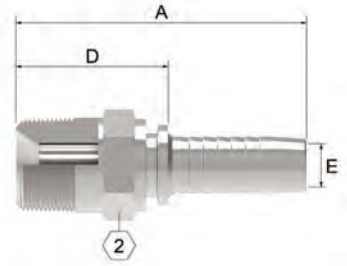
## 24291 Female ORS Swivel 90° Elbow

For use with hose: EC115, EC215 and EC118

PART		HOSE SIZE INFO			DIMENSIONS								WEIGHT		
#	Terminal End	Thread	Hose Size	A	D Cut Off Factor		E Ø		H		1	Weight			
	Dash Size	DN	Dash Size	mm	in	mm	in	mm	in	mm	in	mm	kg	lb	
<b>24291-04-04ZF</b>	-04	9/16"×18	6	-04	58.0	2.28	30.0	1.18	4.0	0.16	41.0	1.61	17	0,052	0.115
<b>24291-06-06ZF</b>	-06	11/16"×16	10	-06	65.3	2.57	35.3	1.39	7.0	0.28	42.5	1.67	22	0,090	0.198
<b>24291-08-08ZF</b>	-08	13/16"×16	12	-08	72.5	2.85	41.0	1.61	10.0	0.39	57.5	2.26	27	0,145	0.320
<b>24291-10-10ZF</b>	-10	1"×14	16	-10	90.0	3.54	56.0	2.20	12.0	0.47	66.0	2.60	30	0,235	0.518
<b>24291-12-12ZF</b>	-12	1.3/16"×12	20	-12	104.0	4.09	65.5	2.58	15.0	0.59	77.0	3.03	36	0,390	0.860
<b>24291-16-16TZF</b>	-16	1.7/16"×12	25	-16	123.9	4.88	76.9	3.03	21.0	0.83	67.5	2.66	41	0,504	1.111
<b>24291-04-04H21ZF</b>	-04	9/16"-18	6	-04	59.5	2.34	31.5	1.24	4.0	0.16	21.0	0.83	17	0.04	0.08
<b>24291-06-04H23TZF</b>	-06	11/16"-16	6	-04	59.5	2.34	31.5	1.24	3.9	0.15	23.0	0.91	22	0.06	0.13
<b>24291-06-04H38TZF</b>	-06	11/16"-16	6	-04	58.0	2.28	30.0	1.18	3.9	0.15	38.0	1.50	22	0.07	0.15
<b>24291-06-04H54TZF</b>	-06	11/16"-16	6	-04	58.0	2.28	30.0	1.18	3.9	0.15	54.0	2.13	22	0.08	0.17
<b>24291-06-06H23ZF</b>	-06	11/16"-16	10	-06	64.5	2.54	34.5	1.36	7.0	0.28	23.0	0.91	22	0.06	0.12
<b>24291-06-06H38ZF</b>	-06	11/16"-16	10	-06	66.0	2.60	36.0	1.42	6.9	0.27	38.0	1.50	22	0.07	0.16
<b>24291-06-06H54ZF</b>	-06	11/16"-16	10	-06	65.3	2.57	35.3	1.39	7.0	0.28	54.0	2.13	22	0.08	0.17
<b>24291-06-08H23ZF</b>	-06	11/16"-16	12	-08	72.9	2.87	41.4	1.63	9.9	0.39	23.0	0.91	22	0.08	0.17
<b>24291-08-06H29TZF</b>	-08	13/16"-16	10	-06	66.0	2.60	36.0	1.42	7.0	0.28	29.0	1.14	24	0.08	0.18
<b>24291-08-08H29ZF</b>	-08	13/16"-16	12	-08	73.0	2.87	41.5	1.63	9.0	0.35	29.0	1.14	24	0.10	0.21
<b>24291-08-08H41ZF</b>	-08	13/16"-16	12	-08	79.0	3.11	47.5	1.87	9.9	0.39	41.0	1.61	24	0.13	0.28
<b>24291-08-08H64ZF</b>	-08	13/16"-16	12	-08	72.5	2.85	41.0	1.61	9.9	0.39	64.0	2.52	24	0.15	0.34
<b>24291-08-10H29ZF</b>	-08	13/16"-16	16	10	86.7	3.41	52.7	2.07	11.9	0.47	29.0	1.14	24	0.13	0.28
<b>24291-10-08H32TZF</b>	-10	1"-14	12	-08	74.0	2.91	42.5	1.67	10.0	0.39	32.0	1.26	30	0.15	0.34
<b>24291-10-08H47TZF</b>	-10	1"-14	12	-08	72.5	2.85	41.0	1.61	9.9	0.39	47.0	1.85	30	0.17	0.37
<b>24291-10-08H70TZF</b>	-10	1"-14	12	-08	72.5	2.85	41.0	1.61	9.9	0.39	70.0	2.76	30	0.19	0.42
<b>24291-10-10H32ZF</b>	-10	1"-14	16	-10	83.5	3.29	49.5	1.95	12.0	0.47	32.0	1.26	30	0.14	0.32
<b>24291-10-10H47ZF</b>	-10	1"-14	16	-10	90.0	3.54	56.0	2.20	11.9	0.47	47.0	1.85	30	0.20	0.45
<b>24291-10-10H70ZF</b>	-10	1"-14	16	-10	90.0	3.54	56.0	2.20	12.0	0.47	70.0	2.76	30	0.24	0.54
<b>24291-10-12H32ZF</b>	-10	1"-14	20	-12	90.8	3.57	52.3	2.06	14.9	0.59	32.0	1.26	30	0.00	0.00
<b>24291-12-10H48TZF</b>	-12	1 3/16"-12	16	-10	90.0	3.54	56.0	2.20	12.0	0.47	48.0	1.89	36	0.26	0.58
<b>24291-12-10H96TZF</b>	-12	1 3/16"-12	16	-10	90.0	3.54	56.0	2.20	11.9	0.47	96.0	3.78	36	0.33	0.73
<b>24291-12-12H48ZF</b>	-12	1 3/16"-12	20	-12	106.0	4.17	67.5	2.66	14.9	0.59	48.0	1.89	36	0.31	0.68
<b>24291-12-12H58ZF</b>	-12	1 3/16"-12	20	-12	106.0	4.17	67.5	2.66	14.9	0.59	58.0	2.28	36	0.32	0.71
<b>24291-12-12H96ZF</b>	-12	1 3/16"-12	20	-12	104.0	4.09	65.5	2.58	14.9	0.59	96.0	3.78	36	0.46	1.01
<b>24291-16-12H56TZF</b>	-16	1 7/16	20	-12	104.0	4.09	65.5	2.58	14.9	0.59	56.0	2.20	41	0.41	0.90
<b>24291-16-16H56TZF</b>	-16	1 7/16"-12	25	-16	119.8	4.72	72.8	2.87	20.9	0.82	56.0	2.20	41	0.44	0.96
<b>24291-16-16H114TZF</b>	-16	1 7/16"-12	25	-16	123.9	4.88	76.9	3.03	20.0	0.79	114	4.49	41	0.64	1.41

# 15611 Male Pipe - NPTF

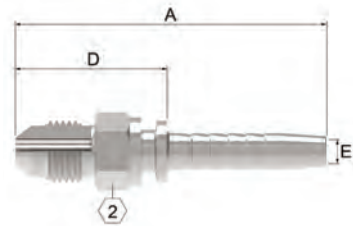
For use with hose: EC115, EC215 and EC118



PART		HOSE SIZE INFO			DIMENSIONS						WEIGHT		
#	Terminal End	Thread	Hose Size	A	D Cut Off Factor		E Ø		2	Weight			
	Dash Size	DN	Dash Size	mm	in	mm	in	mm	in	mm	kg	lb	
<b>15611-F02-04ZF</b>	-02	1/8"x27	6	-04	50.5	1.99	22.5	0.89	4.0	0.16	12	0.015	0.033
<b>15611-F04-04ZF</b>	-04	1/4"x18	6	-04	56.0	2.20	28.0	1.10	4.0	0.16	17	0.030	0.066
<b>15611-F04-06ZF</b>	-04	1/4"x18	10	-06	57.5	2.26	27.5	1.08	7.0	0.28	17	0.032	0.070
<b>15611-F06-06ZF</b>	-06	3/8"x18	10	-06	59.0	2.32	29.0	1.14	7.0	0.28	19	0.048	0.106
<b>15611-F08-06ZF</b>	-08	1/2"x14	10	-06	64.0	2.52	34.0	1.34	7.0	0.28	22	0.068	0.150
<b>15611-F08-08ZF</b>	-08	1/2"x14	12	-08	66.0	2.60	34.5	1.36	10.0	0.39	22	0.075	0.165
<b>15611-F12-12ZF</b>	-12	3/4"x14	20	-12	77.0	3.03	38.5	1.52	15.0	0.59	27	0.130	0.286
<b>15611-F16-16ZF</b>	-16	1"x11.5	25	-16	93.5	3.68	46.5	1.83	21.0	0.83	36	0.230	0.506

# 16711 Male JIC/SAE 37°

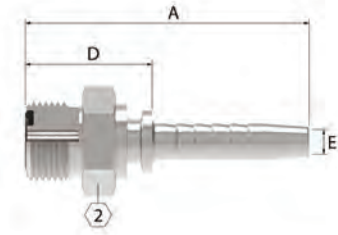
For use with hose: EC115, EC215 and EC118



PART		HOSE SIZE INFO			DIMENSIONS						WEIGHT		
#	Terminal End	Thread	Hose Size	A	D Cut Off Factor		E Ø		2	Weight			
	Dash Size	DN	Dash Size	mm	in	mm	in	mm	in	mm	kg	lb	
<b>16711-06-04ZF</b>	-06	9/16"x18	6	-04	54.5	2.15	26.5	1.04	4.00	0.16	17	0.03	0.07
<b>16711-08-06ZF</b>	-08	3/4"x16	10	-06	61.5	2.42	31.5	1.24	7.00	0.28	22	0.06	0.14
<b>16711-08-08ZF</b>	-08	3/4"x16	12	-08	63.5	2.50	32.0	1.26	9.90	0.39	22	0.06	0.13
<b>16711-10-08ZF</b>	-10	7/8"x14	12	-08	65.5	2.58	34.0	1.34	10.0	0.39	24	0.08	0.19
<b>16711-10-10ZF</b>	-10	7/8"x14	16	-10	69.0	2.72	35.0	1.38	12.0	0.47	24	0.09	0.20
<b>16711-12-10ZF</b>	-12	1 1/16"x12	16	-10	73.5	2.89	39.5	1.56	12.0	0.47	30	0.12	0.26
<b>16711-16-12ZF</b>	-16	1 5/16"x12	20	-12	81.5	3.21	43.0	1.69	15.0	0.59	36	0.19	0.42

# 14211 Male ORS

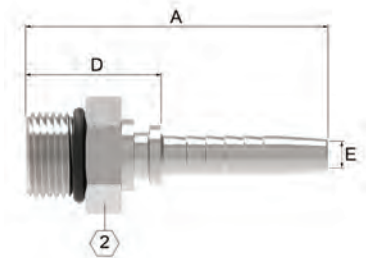
For use with hose: EC115, EC215 and EC118



PART		HOSE SIZE INFO			DIMENSIONS							WEIGHT	
#	Terminal End	Thread	Hose Size	A	D Cut Off Factor		E Ø		1	Weight			
	Dash Size	DN	Dash Size	mm	in	mm	in	mm	in	mm	kg	lb	
14211-06-04ZF	-06	11/16"-16	6	-04	52.0	2.05	24.0	0.94	3.9	0.15	19	0.04	0.08
14211-06-06ZF	-06	11/16"-16	10	-06	54.0	2.13	24.0	0.94	6.7	0.26	19	0.04	0.09
14211-08-06ZF	-08	13/16"-16	10	-06	57.5	2.26	27.5	1.08	7.0	0.28	22	0.06	0.13
14211-08-08ZF	-08	13/16"-16	12	-08	60.0	2.36	28.5	1.12	9.6	0.38	22	0.07	0.15
14211-10-08ZF	-10	1"-14	12	-08	64.0	2.52	32.5	1.28	10.0	0.39	27	0.11	0.24
14211-12-10ZF	-12	1 3/16"-12	16	-10	70.0	2.76	36.0	1.42	12.0	0.47	32	0.16	0.36
14211-12-12ZF	-12	1 3/16"-12	20	-12	75.0	2.95	36.5	1.44	15.0	0.59	32	0.17	0.38
14211-16-12ZF	-16	1 7/16"-12	20	-12	75.5	2.97	37.0	1.46	14.9	0.59	38	0.23	0.50

# 16011 Male Boss O-Ring

For use with hose: EC115, EC215 and EC118



PART		HOSE SIZE INFO			DIMENSIONS							WEIGHT	
#	Terminal End	Thread	Hose Size	A	D Cut Off Factor		E Ø		1	Weight			
	Dash Size	DN	Dash Size	mm	in	mm	in	mm	in	mm	kg	lb	
16011-06-04ZF	-06	9/16"-18	6	-04	50.5	1.99	22.5	0.89	3.9	0.15	17	0.03	0.06
16011-06-06ZF	-06	9/16"-18	10	-06	52.5	2.07	22.5	0.89	6.9	0.27	17	0.03	0.07
16011-08-06ZF	-08	3/4"-16	10	-06	53.5	2.11	23.5	0.93	6.9	0.27	22	0.05	0.10
16011-08-08ZF	-08	3/4"-16	12	-08	55.5	2.19	24.0	0.94	9.9	0.39	22	0.06	0.12







## About

### Danfoss Power Solutions

**Danfoss Power Solutions** is a global manufacturer and supplier of high-quality hydraulic and electric components. We specialize in providing state-of-the-art technology and solutions that excel in the harsh operating conditions of the mobile off-highway market as well as the marine sector. Building on our extensive applications expertise, we work closely with you to ensure exceptional performance for a broad range of applications. We help you and other customers around the world speed up system development, reduce costs and bring vehicles and vessels to market faster.

We offer you expert worldwide support for ensuring the best possible solutions for outstanding performance. And with an extensive network of Global Service Partners, we also provide you with comprehensive global service for all of our components.

Danfoss Power Solutions – your strongest partner in mobile hydraulics and mobile electrification.

#### Products we offer:

- Aeroquip by Danfoss
- Boston by Danfoss
- Danfoss Hansen
- Danfoss Waltech
- DCV directional control valves
- Electric converters
- Electric machines
- Electric motors
- Hydrostatic motors
- Hydrostatic pumps
- Orbital motors
- PLUS+1® controllers
- PLUS+1® displays and sensors
- PLUS+1® joysticks and pedals
- PLUS+1® operator interfaces
- PLUS+1® software services, support and training
- PLUS+1® software
- Position controls and sensors
- PVG proportional valves
- SEL by Danfoss
- Steering components and systems
- Synflex by Danfoss
- Telematics
- Weatherhead by Danfoss
- Winner by Danfoss

Go to [www.danfoss.com](http://www.danfoss.com) for further product information.

#### Danfoss Power Solutions (US) Company

2800 East 13th Street  
Ames, IA 50010, USA  
Phone: +1 515 239 6000

#### Danfoss Power Solutions ApS

Nordborgvej 81  
DK-6430 Nordborg, Denmark  
Phone: +45 7488 2222

#### Danfoss Power Solutions GmbH & Co. OHG

Krokamp 35  
D-24539 Neumünster, Germany  
Phone: +49 4321 871 0

#### Danfoss Power Solutions Trading (Shanghai) Co. Ltd.

Building #22, No. 1000 Jin Hai Rd  
Jin Qiao, Pudong New District  
Shanghai, China 201206  
Phone: +86 21 3418 5200