

AMER



Standard

Winner™ by Danfoss hydraulic hoses and fittings

Our competitively priced standard performance solutions are complemented by a complete system of qualified fittings and assembly machines. Built with the same commitment to quality as our premium products, Winner is a full line of solutions that can meet any standard performance need at a competitive price. Surrounded by a complete engineered system of qualified fittings and assembly machines, as well as outstanding value-added services, the Winner series is a dependable choice for leak-free performance, lower maintenance demands and reduced cost of ownership.

Need to know:



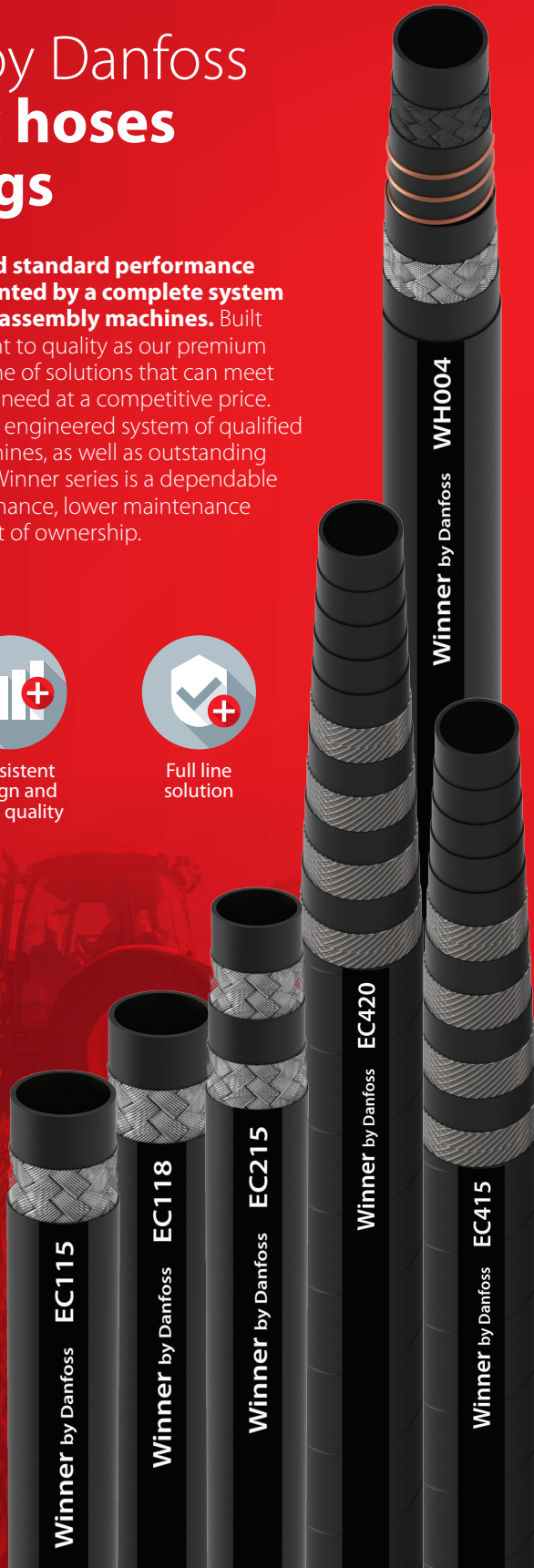
Meets EN and SAE industry specifications



Consistent design and build quality



Full line solution



Features:

- A full line of standard performance solutions that often surpass industry benchmarks in testing
- Surrounded by a complete engineered system for all aspects of assembly and manufacturing, including qualified fittings
- Produced with a commitment to manufacturing excellence: lean methodologies, clear quality guidelines and ISO 9001 certification
- Brings access to comprehensive value-added engineering services
- Fully documented capabilities, compatibility and assembly instructions

Benefits:

- A broad portfolio of cost-effective and dependable solutions that can meet any standard application need
- Hoses and fittings qualified together for safe, leak-free operations that reduce maintenance costs and equipment downtime
- Access to experienced engineers who can specify, design, test and deliver entire hose assemblies quickly and efficiently
- Value-added services that enhance competitiveness, productivity and agility in the market
- Detailed supporting documentation minimizes the risk of assembly failures due to errors and enables the best possible performance
- The confidence and convenience of working with one world-class supplier that can support you anywhere on the planet with short lead-times and reliable delivery

Winner
by Danfoss

Meet the Winner by Danfoss family

A complete engineered system backed by extensive value-added services.

The Winner series is a cost-effective alternative to our premium hoses that still delivers a level of quality craftsmanship and dependable standard performance that most entry-level hoses cannot equal.

We offer one- and two-wire braided hoses, four- and six-wire spiral hoses, textile and thermoplastic hoses, as well as one and two-piece no-skive fittings qualified together for reliable performance.

Other standard performance brands simply can't match the value beyond the hose that we deliver with the Winner series. To ensure high performance, safety and ease of use, we've surrounded our hoses with a complete engineered system of fittings and assembly machines, as well as fully documented certifications, type approvals, crimp specifications and assembly instructions.

Our wide range of value-added engineering services enables even more confidence and market competitiveness. Our experts can collaborate on specific

platform design issues, optimize hydraulic systems, or provide Value Analysis and Value Engineering (VAE) services like hose routing and cost rationalization. We also offer additional services for OEM partners that include hose selection, ready-made hose assemblies, just-in-time delivery, kit-ting and more.

In addition, our robust global supply chain means we can deliver Winner hoses and fittings according to local needs.

Certifications & Approvals:

Our Winner series is ready for any applications requiring standard performance for pressure, temperature or abrasion resistance and meets the following industry specifications:

EN853 1SN/2SN | EN857 1SC/2SC |
EN856 4SP/4SH | SAE 100 R12/R13/R15 |
EN854 1TE/2TE/3TE | SAE 100 R4

Several third party approvals, including DNV-GL and BAAINBw

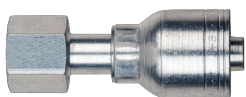
Fittings

We offer both one and two-piece no-skive fittings for all our braided, textile and thermoplastic Winner hoses.

Additionally, Winner braided hydraulic hoses are qualified with our well-known 1A (TTC)/ Z series fittings, as well as our cost

competitive two-piece Winner fittings. Winner spiral hydraulic hoses are also qualified with our 4S/6S series fittings.

Premium 1A/Z Series (TTC)



Our bestselling one-piece "bite-the-wire" type hose fitting is qualified for use with all Winner one- and two-wire braided hydraulic hoses.

Premium 4S/6S Spiral Series



This high-performance spiral hose assembly for the most demanding applications uses a simple and user-friendly process for assembling the hose and hose fittings. It also offers industry-leading class "0" cool-down leakage and a higher operating performance.

Standard Two-piece Winner



This competitive two-piece hose fitting is qualified for use with Winner braided hoses. Non-skive for easier and quicker assembly, as well as safe and leak-free connections.



Standard

EC115

Core Standard
one wire braided hose

Meets: EN 857 Type 1SC

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
2PC

Typical application:

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

Agency specifications: MSHA | DNV | USCG

Hose construction:	Inner Tube: Synthetic rubber	Reinforcement: One steel braid	Cover: Synthetic rubber
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Operating Temperature: -40°C to +100°C (-40°F to +212°F)

Qualified fittings: 1A/Z Series | Two-piece Winner

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

Core hose I.D.

- Premium
- **Standard**
- Braided
- Spiral
- High-Temp
- Low-Temp
- Abrasion
- Suction

MORE HIGHLIGHTS



Complete system-engineered offerings



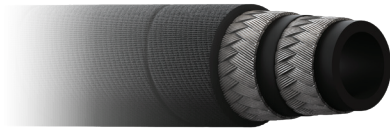
Access to extensive value-added services



Cost-effective standard performance solutions



Stock available & short lead-times



Standard

EC215

Core Standard
two wire braided hose

Meets: EN857 2SC | ISO 18752

Winner by Danfoss **EC215-06** 9.5 mm (0.38 in) DN70 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 2PC

Typical application:

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

Agency specifications: MSHA | DNV | USCG

Hose construction:	Inner Tube: Synthetic rubber	Reinforcement: Two steel braid	Cover: Synthetic rubber
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Operating Temperature: -40°C to +100°C (-40°F to +212°F)*

Qualified fittings: 1A/Z Series | Two-piece Winner

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure	Min. Burst Pressure	Min. Bend Radius	Weight	mm	in	kg/m	lbs/ft
	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

- Core hose I.D.**
- Premium
 - **Standard**
 - Braided
 - Spiral
 - High-Temp
 - Low-Temp
 - Abrasion
 - Suction

MORE HIGHLIGHTS

- Complete system-engineered offerings
- Access to extensive value-added services
- Cost-effective standard performance solutions
- Stock available & short lead-times



Standard

EC118

Core Standard
one and two wire braided hose

Meets: SAE 100R17 | ISO 18752

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
2PC

Typical application:

Low and medium pressure hydraulic systems with petroleum and water-based fluids.
Construction equipment and agriculture equipment.

Agency specifications: MSHA | USCG

Hose construction:	Inner Tube:	Reinforcement:	Cover:
	Synthetic rubber	One wire braid: -0,4, -0,6, -0,8 Two wire braid: -10, -12, -16	Synthetic rubber

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

Qualified fittings: 1A/Z Series | Two-piece Winner

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
EC118-04	6.4	0.25	12.2	0.48	210	3,050	840	12,200	50.8	2.00	0.18	0.12
EC118-06	9.5	0.38	15.5	0.61	210	3,050	840	12,200	63.5	2.50	0.27	0.18
EC118-08	12.7	0.50	19.0	0.75	210	3,050	840	12,200	88.9	3.50	0.36	0.24
EC118-10	15.9	0.62	23.8	0.94	210	3,050	840	12,200	101.6	4.00	0.69	0.46
EC118-12	19.0	0.75	27.7	1.09	210	3,050	840	12,200	120.7	4.75	0.81	0.54
EC118-16	25.4	1.00	36.0	1.42	210	3,050	840	12,200	152.4	6.00	1.21	0.81

Core hose I.D.

- Premium
- **Standard**
- **Braided**
- Spiral
- High-Temp
- Low-Temp
- Abrasion
- Suction

MORE HIGHLIGHTS



Complete system-engineered offerings



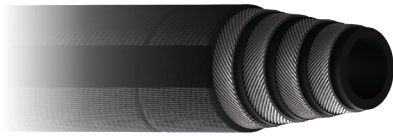
Access to extensive value-added services



Cost-effective standard performance solutions



Stock available & short lead-times



Standard

EC415

Core Standard
four wire spiral hose

Meets: SAE 100R12 | EN856 R12 | ISO 18752

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

Typical application:

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

Agency specifications: MSHA | USCG

Hose construction:	Inner Tube: Synthetic rubber	Reinforcement: Four wire spiral	Cover: Synthetic rubber
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Operating Temperature: -40°C to +121°C (-40°F to +250°F)

Qualified fittings: 4S-Series

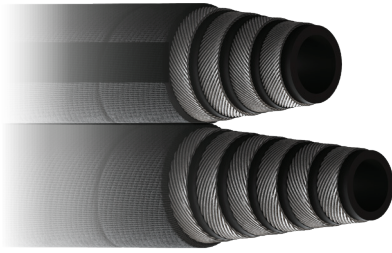
PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC415-06	9.5	0.38	20.3	0.80	280	4,050	1,120	16,200	63	2.48	0.60	0.40
EC415-08	12.7	0.50	23.8	0.94	280	4,050	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	2.10	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

Core hose I.D.

- Premium
- **Standard**
- Braided
- **Spiral**
- High-Temp
- Low-Temp
- Abrasion
- Suction

MORE HIGHLIGHTS

- Complete system-engineered offerings
- Access to extensive value-added services
- Cost-effective standard performance solutions
- Stock available & short lead-times



Standard

EC420

Core Standard
four and six wire spiral hose

Meets: SAE 100R13 | EN856 R13 | ISO 18752

Winner by Danfoss **EC420-16**

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

Typical application:

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

Agency specifications: MSHA | USCG | DNV

Hose construction:	Inner Tube:	Reinforcement:	Cover:
	Synthetic rubber	Four wire spiral: -12, -16 Six wire spiral: -20 to -32	Synthetic rubber

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

Qualified fittings: 4S-Series | 6S-Series

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	1.26	350	5,100	1,400	20,400	120	4.72	1.54	1.03
EC420-16	25.4	1.00	38.7	1.52	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	71.5	2.81	350	5,100	1,400	20,400	315	12.40	7.26	4.88

Core hose I.D.

- Premium
- **Standard**
- Braided
- **Spiral**
- High-Temp
- Low-Temp
- Abrasion
- Suction

MORE HIGHLIGHTS



Complete system-engineered offerings



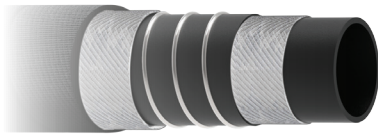
Access to extensive value-added services



Cost-effective standard performance solutions



Stock available & short lead-times



Standard

WH004

Core Standard
textile hose

Meets: SAE 100R4

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

Typical application:

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

Agency specifications: MSHA

Hose construction:	Inner Tube: Oil-resistant NBR	Reinforcement: Textile with helical & anti-static wire	Cover: Abrasion Resistant Synthetic rubber
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Operating Temperature: -40°C to +100°C (-40°F to +212°F)

Qualified fittings:

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

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
WH004-12	19.0	0.75	30.0	1.18	21	305	84	1220	40	1.57	94.8	28	0,54	0.36
WH004-16	25.4	1.00	36.2	1.43	17	245	68	980	45	1.77	94.8	28	0,68	0.46
WH004-20	31.8	1.25	43.0	1.69	14	205	56	820	60	2.36	94.8	28	0,85	0.57
WH004-24	38.1	1.50	50.2	1.98	10.5	150	42	600	65	2.56	94.8	28	1,20	0.81
WH004-32	50.8	2.00	63.2	2.49	7	100	28	400	100	3.94	94.8	28	1,53	1.03
WH004-40*	53.5	2.50	76.7	3.02	4	60	16	240	140	5.51	94.8	28	2,05	1.38
WH004-48*	76.2	3.00	89.4	3.52	4	60	16	240	180	7.09	94.8	28	2,62	1.76

* Only bulk hose

- Core hose I.D.**
- Premium
 - **Standard**
 - Braided
 - Spiral
 - High-Temp
 - Low-Temp
 - Abrasion
 - **Suction**

MORE HIGHLIGHTS

- Complete system-engineered offerings
- Access to extensive value-added services
- Cost-effective standard performance solutions
- Stock available & short lead-times

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