

ENGINEERING TOMORROW

EMEA

Aeroquip[®] and Winner[®] by Danfoss[®] Core Hydraulic hose products catalog





Sometimes less is **more**.

Fewer products, **smarter** choices.

Dura-Tuff

9.5 mm (0.38 in) DN10

GH681-6

Acroquip by Danfoss

Danfoss is taking a new approach to helping you succeed by reducing the complexity of our hydraulics hose and fittings product offering, while developing new, more intuitive ways to help you find the right product fast. We know that your workforce demographics, regulatory environment and global economics require a new approach, and we're proactively leading the charge with a smaller but smarter—hydraulics offering to help you spend less time combing through product options and more time competing in expanded markets, improving responsiveness, and closing new business.



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From the ordinary to the extreme, Danfoss has a **solution that fits*.**

Abrasion

Suction

Standard

High-Temp Low-Temp

Premium

Winner by Danfoss EC215

- Veroquip by Danfoss

EC881-6

ĨN

Dura-Tuff Dynamax Premium and standard hydraulic hose **options**

Premium: Aeroquip by Danfoss **Standard:** Winner by Danfoss

For the ultimate in performance and safety fluid conveyance products need to be designed with specific applications in mind. At Danfoss, understand. Because fluid conveyance platforms run the extreme, from low-pressure to high, moderate impulse to intense, from stable familiar environments to unforgiving conditions Danfoss Rubber Hydraulic Hose & Fittings provides options. The option to choose between standardperformance value based hose for less extreme environments and premium hose deveoped for specific applications that push to the edge. We do that for our customers, our partners. For those that put their trust in us. We don't compromise our standards and neither should you. When it comes to safety, technology and performance, we pledge our best, everyday.

*All <u>core</u> premium and standard hoses in the catalog are designated with an icon highlighting premium, premium specialty or standard. See chart on following page for more information.



The Core Premium	Hose Specialty	Operating Temp	Abrasion Resistance	Bend Radius	Fluid Compatibility and Rubber	Impulse Cycles
PREMIUM		SAE ABS EN MS			Compounding	
According insures CH881-6 Tealing Dana Parl According insures CC881-6 Tealing Dana Parl According insures CH4825-6 Research According insures CH4825-7 Resea	Premium	High: 126 ℃ Low: -40 ℃	Bura-Tuff® Cover (8x greater than standard)	▲ 1/2 Bend	Danfoss Premium	Exceed Industry Standard
HIGH-TEMP	Certifications	SAE ABS EN MS	HA Customer spec		1	
Aeroquip to total CFCS10-04 44468444 16Pac	High-Temp	High: 150 °C Low: -40 °C	(8x greater than standard)	Full Bend	Danfoss Premium	Exceed Industry Standard
LOW-TEMP	Certifications	SAE EN MSHA C	Lustomer spec	1	1	1
Aeroquip tytantess GH120-6 ************************************	Low-Temp	High: 100 ℃ ● Low: -57 ℃	(8x greater than standard)	1/2 Bend	Danfoss Premium	Exceed Industry Standard
ABRASION	Certifications	SAE ABS EN DN	V Customer spec	1	' '	1
Accords to contract CH425B-6	Abrasion	│ High: 100 °C ● Low: -40 °C	(700x greater than standard)	1/2 Bend	Danfoss Premium	Exceed Industry Standard
SUCTION	Certifications	SAE ABS EN MS	HA ISO DNV USC	Ġ	·	1
Anoque synamics FC619-19 Name of the synamics	Suction	High: 135 ℃ Low: -40 ℃	Standard Cover	1/2 Bend	Danfoss Premium	Exceed Industry Standard
The Core Standard	Hose Specialty	Operating Temp	Abrasion Resistance	Bend Radius	Fluid Compatibility and Rubber	Impulse Cycles
STANDARD		ISAE EN MSH			Compounding	
	Standard	High: 100 °C Low: -40 °C	Standard Abrasion (10,000 Cycles per ISO 6945)	Tull Bend	Danfoss Standard	Industry Standard

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Premium & standard hydraulic hose. Know the **difference**.



temperature and abrasion resistance, with options adapted to handle your toughest jobs. resistance, offering the right product at a competitive price point for OEM markets.





GH681 Premium one wire braided hose

Meets or exceeds: SAE 100R1 Type S | EN857 1SC

	^{38 in)} Dura-Tuff	Exceeds SAE 100R17 / EN857 ISC +ISO 18752 MSHA IC-84/19+ ABS + DNV-GL + USCG +	🔿 235 BAR (3400 PSI)	1-46°C to +126°C 1-50°F to +260°F ∩ BEND IR UO
Typical application:	Agency specificatio	MSHA ABS DI	NV USCG	
Petroleum and fire-resistant hydraulic fluids, fuel and lubricating oils, gasoline, water and	Hose	Inner Tube:	Reinforcement	: Cover:
other industrial fluids.	constructio	n: Synthetic rubber	one wire braid	Dura-Tuff
	Operating temperatur	-46°C to +126°C (50°F to +260°F)	i
	Qualified fittings:	1A series 1R ser	ies	

PART	SIZE DIME	NSIONS			PRESSURE				BEND		WEIGHT	
#	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burs Pressure	t	Min. Beno Radius	b	Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
GH681-3	4.8	0.19	10.9	0.42	250	3 625	1 000	14 500	45	1.77	0.19	0.13
GH681-4	6.4	0.25	12.9	0.51	255	3 700	1 020	14 800	50	1.97	0.21	0.14
GH681-5	7.9	0.31	14.0	0.55	225	3 250	900	13 000	55	2.17	0.22	0.15
GH681-6	9.5	0.38	16.3	0.64	235	3 400	940	13 600	63	2.48	0.31	0.21
GH681-8	2.7	0.50	19.9	0.78	221	3 200	883	12 800	90	3.54	0.43	0.29
GH681-10	15.9	0.63	22.3	0.88	140	2 025	559	8 100	100	3.94	0.42	0.28
GH681-12	19.0	0.75	26.0	1.02	138	2 000	552	8 000	120	4.72	0.56	0.37
GH681-16	25.4	1.00	34.0	1.34	103	1 500	414	6 000	150	5.91	0.80	0.54
GH681-20	31.8	1.25	41.5	1.63	69	1 000	276	4 000	210	8.27	1.01	0.68
GH681-24	38.1	1.50	47.9	1.89	52	750	207	3 000	250	9.84	1.19	0.80
GH681-32	50.8	2.00	64.0	2.52	41	600	166	2 400	315	12.4	1.92	1.29

Also available with Bruiser cover for higher abrasion resistance.

And P by Dan	foss GH681B-6	9.5 MM (0.38 IN) DN10	Bruiser	Exceeds EN 857 1SC Performance / SAE 100R17 ISO 1436 1SN • ISO 18752 • MSHA IC-84/54 • DNV		235 BAR (3400 PSI)		-40°C to +126°C -40°F to +260°F 1/	
Core	Premium S	tandard	Braided	Spiral	High-Temp	Low-Temp	Abrasion	Suction	





Standard Standard one wire braid hose EC115

Meets or exceeds: EN 857 Type 1SC

	I (0.50 IN) EN857 1SC • MSI N12 DNV-GL • USCG		\R (2300 PSI)	to +100°C 1A · Z o +212°F 2PC · 1R
Typical application:	Agency specifications:	MSHA DNV USCG		
Hydraulic system service with petroleum and water based fluids, for general industrial	Hose	Inner Tube:	Reinforcement:`	Cover:
service.	construction:	Synthetic rubber	one wire braid	Synthetic rubber
	Operating temperature:	-40°C to +100°C (-40°F t	ro +212°F)`	
	Qualified fittings:	1A series 2-piece Winr	ner 1R series	

PART	SIZE DIME	NSIONS			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
EC115-05	7.9	0.31	14.5	0.57	215	3 125	860	12 500	55	2.17	0.20	0.13
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

Premium Standard Braided Spiral High-Temp Low-Temp Abrasion





Premium EC881

Premium Dynamax ultra-performance two wire braided hose

Meets or exceeds: SAE 100R16 Type S | EN 857 2SC | ISO 11237-1 Type 2SC

Acroquip by Danfoss EC881-6 9.5 MM (0.38 IN) Dura-Tuff Dynamax. ISO 18752 - ABS - DNV-GL - MSHA IC-84/56 (C) 400 BAR (5800 PSI) 440°C to +126°C 140°C 140°C

Typical application:

Low & medium pressure hydraulic systems, petroleum & water-based fluids, construction equipment, agriculture equipment.

High abrasion applications- with Bruiser cover.

Extra demanding applications requiring high performance- EC881 offers one million impulse cycle performance and 1/3 SAE bend radius.

Agency specifications:	MSHA ABS DNV		
Hose	Inner Tube:	Reinforcement:	Cover:
construction:	Dura-Pulse patented tube	two wire braid	Dura-Tuff
Operating temperature:	-46°C to +126°C (-50°F to	o +260°F)	
Qualified fittings:	1A series		

PART	SIZE DIMENSIONS					PRESSUP	RE			BEND		WEIGHT	
#	Hos			Hose O.E (nomina		Working Pressure		Min. Bur pressure		Min. Ben Radius	d	Weight	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC881-4	6	6.4	0.25	14.2	0.56	450	6 525	1 800	26 100	33	1.30	0.32	0.22
EC881-5	8	7.9	0.31	16	0.63	400	5 800	1 600	23 200	38	1.50	0.38	0.26
EC881-6	10	9.5	0.38	18.3	0.72	400	5 800	1 600	23 200	42	1.65	0.42	0.28
EC881-8	12	12.7	0.50	21.5	0.85	360	5 220	1 440	20 880	60	2.36	0.58	0.39
EC881-10	16	15.9	0.63	24.7	0.97	350	5 075	1 400	20 300	68	2.68	0.75	0.50
EC881-12	19	19	0.75	28.6	1.13	330	4 785	1 320	19 140	80	3.15	1.03	0.69
EC881-16	25	25.4	1.00	36.6	1.44	280	4 060	1 1 2 0	16 240	150	5.91	0.47	0.99
EC881-20	31	31.8	1.25	44.3	1.74	172	2 500	688	9 980	210	8.27	1.75	1.18
EC881-24	38	38.1	1.50	52.8	2.08	138	2 000	552	8 000	250	9.84	1.91	1.28
EC881-32	51	50.8	2.00	65.5	2.58	110	1 600	440	6 400	315	12.40	2.62	1.76

Also available with Bruiser cover for higher abrasion resistance.

	s EC881B-	6 9.5 MM (0.38 IN) DN 10	Dura-Tuff Dynamax		100R16 / 100R19 / E ABS + DNV-GL + MSH/		(-) 400 1	BAR (5800 PSI)	-46°C to +126°C -50°F to +260°F	M ^{1/3} Bend	14800
Core	Premium	Standard	Braid	ed	Spiral	Hi	gh-Temp	Low-Temp	Abrasion	Suc	tion





Standard

EC215 Standard two wire braid hose

Meets or exceeds: EN 857 Type 2SC

Winner by Danfoss EC215-06 9.5 mm (0.38 in DN10) EN857 2SC • ISO 18752 MSHA IC-84/41 • DNV-GL • U	scg+ (?) 345 BAR (500	0 PSI)	
Typical application:	Agency specifications:	MSHA DNV USCG		
Hydraulic system service with petroleum and water based fluids, for general industrial	Hose	Inner Tube:	Reinforcement:	Cover:
service.	construction:	Synthetic rubber	two wire braid	Synthetic rubber
	Operating temperature:	-40°C to +100°C (-40°F t	co +212°F)	
	Qualified fittings:	1A series 2-piece Wini	ner 2R series	

PART	SIZE DIMEN	SIZE DIMENSIONS							BEND		WEIGHT	
#	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burs Pressure	t	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
EC215-05	7.9	0.31	16.0	0.63	350	5 100	1 400	20 400	55	2.17	0.33	0.22
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

Premium Standard Braided Spiral High-Temp Low-Temp Abrasion

Danfoss



Premium GH425

Premium four wire spiral hose

Meets or exceeds: EN856 4SP

A90 BAR (7100 PSI) Dura-Tuff GH425-6 eroquip by Danfoss 1

Typical application:

High pressure hydraulic system service with petroleum and water-base fluids for low temperature applications.

Agency specifications:	MSHA							
Hose	Inner Tube:	Reinforcement:	Cover:					
construction:	Synthetic rubber four wire spiral Dura-Tuff							
Operating temperature:	-40°C to +100°C (-40°F to	-40°C to +100°C (-40°F to +212°F)						
Qualified fittings:	1T series (-6,-8,-10) 45/	65 series (-12,-16)						

PART	SIZE DIMENSIONS					PRESSUF	PRESSURE				BEND		WEIGHT	
#	Hose I.D			Hose O.E (nomina		Working Pressure		Min. Bur pressure		Min. Ber Radius	nd	Weight		
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	
GH425-6	10	9.5	0.38	20.9	0.82	490	7 100	1 960	28 400	180	7.09	0.70	0.47	
GH425-8	12	12.7	0.50	24.4	0.96	420	6 100	1 680	24 400	230	9.06	0.92	0.62	
GH425-10	16	15.9	0.62	28.1	1.11	420	6 100	1 680	24 400	250	9.84	1.13	0.76	
GH425-12	19	19.1	0.75	32.9	1.30	380	5 500	1 520	22 000	300	11.81	1.50	1.01	
GH425-16	25	25.4	1.00	39.8	1.57	320	4 650	1 280	18 600	340	13.39	2.15	1.44	

Also available with Bruiser cover for higher abrasion resistance.

eroquip by Danfoss	GH425B-6	9.5 MM (0.38 IN) DN10	Bruiser	Exceeds EN 856 4SP MSHA IC-84/54 • ABS • DNV	🗛 490 BAR (7100 PSI)	-40°C to +100°C -40°F to +212°F	178

Premium

Standard

Braided

Spiral

High-Temp Low-Temp Abrasion





Standard EC426 Standard four wire spiral hose

Meets or exceeds: EN856 4SP

Winner by Danfoss EC426-12		^{6 4SP} A IC-84/41 350 B	AR (5100 PSI) 🔒 -40	0°C to +100°C 0°F to +212°F ☐ 4S				
Typical application:	Agency specifications:	MSHA						
Hydraulic systems service with petroleum and water based fluids, for general use.	Hose	Inner Tube:	Reinforcement: Cover:					
	construction:	Synthetic rubber	four wire spiral	Synthetic rubber				
	Operating temperature:	-40°C to +100°C (-40°F to +212°F)						
	Qualified fittings:	1T series (-6,-8,-10) 4S/6S series (-12,-16, -20)						

PART	SIZE DIM	ENSIONS				PRESSUR	E			BEND		WEIGHT	
#	Hose I.D			Hose O.E (nomina		Working Pressure		Min. Bur pressure		Min. Ben Radius	ıd	Weight	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC426-6	10	9.5	0.37	20.9	0.82	445	6 450	1 780	25 800	180	7.09	0.74	0.50
EC426-8	12	12.7	0.50	25.4	1.00	415	6 000	1 660	24 000	230	9.06	0.88	0.59
EC426-10	16	15.9	0.62	29.0	1.14	350	5 100	1 400	20 400	250	9.84	1.04	0.70
EC426-12	19	19.0	0.75	33.0	1.30	350	5 100	1 400	20 400	300	11.81	1.47	0.99
EC426-16	25	25.4	1.00	40.9	1.61	280	4 050	1 120	16 200	340	13.39	1.90	1.28
EC426-20	31	31.8	1.25	48.6	1.91	210	3 050	840	12 200	460	18.11	2.46	1.65





Premium **GH506**

Premium four wire spiral hose

Meets or exceeds: EN 856 Type 4SH | ISO 18752 | ISO 3862 Type 4SH

19.0 mm (0.75 in) DN19 GH506-12 (-) 420 BAR (6100 PSI) -40°C to +100°C -40°F to +212°F **₿1W** Dura-Tuff Exceeds EN 856 / ISO 18752 / ISO 3862

Typical application:

High pressure hydraulic systems with petroleum based fluids. Challenging applications like construction equipment, agriculture machines, stationary applications. 2 Million flex impulse cycle performance according ISO6802 for size 12' and 16'.

Agency specifications:	MSHA DNV ABS		
Hose	Inner Tube:	Reinforcement:	Cover:
construction:	Synthetic rubber	four wire spiral	Dura-Tuff
Operating temperature:	-40°C to +100°C (-40°F to	o +212°F), Short term to -	+120°C (+248°F)
Qualified fittings:	1W series		

PART	SIZE DIN	IENSIONS				PRESSURE				BEND		WEIGHT	
#	Hose I.D.			Hose O.D. (nominal		Working Pressure		Min. Bur Pressure		Min. Ben Radius	d	Weight	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
GH506-12*	19	19	0.75	33	1.30	420	6 100	1 680	24 400	280	11.02	1.49	1.00
GH506-16*	25	25.4	1	39.9	1.57	420	6 100	1 680	24 400	340	13.39	2.05	1.38
GH506-20	31	31.8	1.25	47.1	1.85	350	5 100	1 400	20 300	460	18.11	2.54	1.71
GH506-24	38	38.1	1.5	55.1	2.17	300	4 350	1 200	17 400	560	22.05	3.27	2.20
GH506-32	51	50.8	2	69.7	2.74	250	3 650	1 000	14 500	700	27.56	4.58	3.08

* 2 Million flex impulse cycle performance according ISO6802

Standard

Braided

Spiral





Standard **C512** E

Operating temperature:

Qualified

Standard four wire spiral hose

40°C to +100°C (-40°F to +212°F)

4S/6S series

Meets or exceeds: EN 856 Type 4SH

Winner by Danfoss EC512-16	25.4 MM (1.00 IN) EN856 DN25 MSHA I	45H C-84/41 • DNV	BAR (5500 PSI)	₿-40°C to +100°C -40°F to +212°F ₽4S			
Typical application:	Agency specifications:	MSHA DNV					
Hydraulic systems service with petroleum and water based fluids, for general use.	Hose	Inner Tube:	Reinforcement:	Cover:			
	construction:	Synthetic rubber	four wire spiral	Synthetic rubber			

				ings:	4.	S/6S serie	25					
SIZE DIM	ENSIONS				PRESSURE				BEND		WEIGHT	
Hose I.D.					Working Pressure				Min. Ben Radius	d	Weight	
DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
19	19	0.75	33.0	1.30	420	6 100	1 680	24 400	280	11.02	1.47	0.99
25	25.4	1.00	39.9	1.57	380	5 500	1 520	22 000	340	13.39	2.04	1.37
31	31.8	1.25	47.1	1.85	350	5 100	1 400	20 400	460	18.11	2.39	1.61
38	38.1	1.05	55.1	2.17	290	4 200	1 160	16 800	560	22.05	3.19	2.14
51	50.8	2.00	69.7	2.74	250	3 650	1 000	14 600	700	27.56	4.37	2.94
	Hose I.D. DN 19 25 31 38	DN mm 19 19 25 25.4 31 31.8 38 38.1	Hose I.D. DN mm in 19 19 0.75 25 25.4 1.00 31 31.8 1.25 38 38.1 1.05	fitt SIZE DIMENSIONS Hose I.D. DN mm Ino Mose O.D. (nominal DN 19 0.75 33.0 19 19 0.75 33.0 25 25.4 1.00 39.9 31 31.8 1.25 47.1 38 38.1 1.05 55.1	fittings: SIZE DIMENSIONS Hose O.D. (nominal) Mose I.D. Hose O.D. (nominal) DN mm in mm in DN mm in mm in 19 0.75 33.0 1.30 25 25.4 1.00 39.9 1.57 31 31.8 1.25 47.1 1.85 38 38.1 1.05 55.1 2.17	fittings: 4 SIZE DIMENSIONS PRESSURE Hose I.D. Hose O.D. (nominal) Working Pressure DN mm in mm in bar 19 19 0.75 33.0 1.30 420 25 25.4 1.00 39.9 1.57 380 31 31.8 1.25 47.1 1.85 350 38 38.1 1.05 55.1 2.17 290	fittings: 45/05 Series SIZE DIMENSIONS PRESSURE Hose I.D. Hose O.D. (nominal) Working Pressure DN mm in mm in psi 19 19 0.75 33.0 1.30 420 6 100 25 25.4 1.00 39.9 1.57 380 5 500 31 31.8 1.25 47.1 1.85 350 5 100 38 38.1 1.05 55.1 2.17 290 4 200	Fittings:45/05 seriesSIZE DIMENSIONSPRESSUREPRESSUREHose I.D.Hose O.D. (nominal)Working PressureMin. Burg PressureDNmminmminbarpsibar19190.7533.01.3042061001.6802525.41.0039.91.573805 5001 5203131.81.2547.11.853505 1001 4003838.11.0555.12.172904 2001 160	Hittings:45/56 seriesSIZE DIMENSIONSPRESSUREMin. BurstHose O.D. (nominal)Working PressureMin. BurstDNmminmminbarpsiDNmminmminbarpsi24 40019190.7533.01.304206 1001 68024 4002525.41.0039.91.573805 5001 52022 0003131.81.2547.11.853505 1001 40020 4003838.11.0555.12.172904 2001 16016 800	SIZE DIMENSIONSPRESSUREBENDHose I.D.Hose O.D. (nominal)Working PressureMin. Burst PressureMin. Barst PressureMin. Burst PressureMin. Barst PressureMin. Barst PressureMin. Burst PressureMin. Barst PressureMin. Burst PressureMin. Barst PressureMin. Burst PressureMin. Burst PressureMin. Barst PressureMin. Burst PressureMin. Barst PressureMin. Burst Pressure<	Hore of tittings:Hore of tittings:Hore of tittings:Hore of tittings:SIZE DIMENSIONSPRESSUREBENDMose I.D.Mose O.D. (nominal)More of tittings)Min.BurstMin.BurstMin.BurstMin.BurstDNmminmminbarpsibarpsimmin19190.7533.01.304206100168024 40028011.022525.41.0039.91.5738055001 52022 00034013.393131.81.2547.11.853505 1001 40020 40046018.113838.11.0555.12.172904 2001 1601 6 8005602.205	4-5/05 Series fittings: 4-5/05 Series SIZE DIMENSIONS PRESSURE BEND WeiGHT Mose I.D. Mose O.D. Mose O.D. More Maduation Min. Burst Min. Bend Meight DN mm in mm in bar psi bar psi mm in kg/m 19 19 0.75 33.0 1.30 420 6 100 1680 24 400 280 11.02 1.47 25 25.4 1.00 39.9 1.57 380 5 500 1 520 22 000 340 13.39 2.04 31 31.8 1.25 47.1 1.85 350 5 100 1 400 20 400 460 18.11 2.39 38 38.1 1.05 55.1 2.17 290 4 200 1160 16 800 560 22.05 3.19

Braided Spiral High-Temp Low-Temp Abrasion





High pressure hydraulic system service with petroleum and water-base fluids for applications where extra flexibility needed. FC500

Premium X-Flex four and six wire spiral hose

Meets or exceeds: SAE 100R13 | EN 856 Type R13 | ISO 3862 Type R13

		FC500-12	19.0 mm (0.75 in) DN19	X-Flex	Exceeds SAE 100R13 / EN856 ISO 3862	() 350 BAR (5100 PSI)	↓-40°C to +127°C -40°F to +260°F	Half Bend	₿45 65
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Typical application:

Agency specifications:

Hose	Inner Tube:	Reinforcement:	Cover:				
construction:	Synthetic rubber	Dura-Tuff					
Operating temperature:	-40°C to +127°C (-40°F to +260°F)						
Qualified fittings:	4S series 6S series						

PART	SIZE DIMEN	NSIONS			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
FC500-12	19.0	0.75	31.0	1.22	350	5 100	1 400	20 400	121	4.75	1.28	0.86
FC500-16	25.4	1.00	38.4	1.51	350	5 100	1 400	20 400	152	6.00	1.85	1.24
FC500-20	31.8	1.25	45.5	1.79	350	5 100	1 400	20 400	210	8.25	2.50	1.68
FC500-24	38.1	1.50	53.5	2.11	350	5 100	1 400	20 400	254	10.00	3.38	2.27
FC500-32	50.8	2.00	71.8	2.83	350	5 100	1 400	20 400	476	18.75	6.07	4.08

Braided

Spiral







Standard four and six wire spiral hose

Meets or exceeds: SAE 100R13

	n (0.75 in) SAE 100R13 • EN856 DN11 DNV • MSHA IC-84/4	R13 • ISO 18752 1 • USCG 🕈	BAR (5100 PSI)	°C Half °F MBend			
Typical application:	Agency specifications:	MSHA USCG DNV					
Suitable for use in hydraulic systems with high peak pressures and arduous operating		Inner Tube:	Reinforcement:	Cover:			
conditions.	Hose construction:	Synthetic rubber	four wire spiral (-12, -16) six wire spiral (-20 to -32)	Synthetic rubber			
	Operating temperature:		-12, -16, -20, -24, and -32: -40°C to +121°C (-40°F to +250°F) -40°C to +100°C (-40°F to +212°F)				
	Qualified fittings:	4S series 6S series					

PART	SIZE DIMEN	NSIONS			PRESSURE	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	

Danfoss



Premium **GH466**

Premium six wire spiral hose

Meets or exceeds: SAE 100R15 | ISO 3862 Type R15

eroquip by Danfoss GH466-24 31.8 mm (1.25 in) Dura-Tuff 2M Cycles MSHA IC-84/19 - ABS - DNV $(2 - 40^{-1} $

Typical application:

High pressure hydraulic systems with constant high working pressure for use with petroleum based fluids. 2 Million flex impulse cycle performance according ISO6802.

Agency specifications:	MSHA DNV ABS	MSHA DNV ABS					
Hose	Inner Tube:	Reinforcement:	Cover:				
construction:	Synthetic rubber	Synthetic rubber six wire spiral					
Operating temperature:	-40°C to +121°C (-40°F to +250°F)						
Qualified fittings:	6S series 1W series						

PART	SIZE DIM	SIZE DIMENSIONS			PRESSUR	PRESSURE			BEND		WEIGHT		
#	Hose I.D.			Hose O.D (nominal	•	Working Pressure		Min. Burs Pressure	st	Min. Ben Radius	d	Weight	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
GH466-20	31	31.8	1.25	51.3	2.02	420	6 100	1 680	24 400	420	16.54	3.48	2.34
GH466-24	38	38.1	1.50	58.8	2.31	420	6 100	1 680	24 400	500	19.69	4.63	3.11
GH466-32	51	50.8	2.00	72.7	2.86	420	6 100	1 680	24 400	630	24.80	6.70	4.50

 Premium
 Standard
 Braided
 Spiral
 High-Temp
 Low-Temp
 Abrasion





Standard

EC615 Standard four and six wire spiral hose

Meets or exceeds: SAE 100R15

Typical application:	Agency specifications:	MSHA	MSHA				
High pressure hydraulic systems with constant high working pressure for use with	Hose construction:	Inner Tube:	Reinforcement:	Cover:			
petroleum based fluids.		Synthetic rubber	four wire & six wire spiral	Synthetic rubber			
	Operating temperature:	-40°C to +100°C (-40°F to +212°F)					
	Qualified fittings:	4S series 6S series					

PART	SIZE DIME	NSIONS			PRESSURE				BEND		WEIGHT	
#	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure	:	Min. Beno Radius	b	Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC615-16	25.4	1.00	39.9	1.57	420	6 100	1 680	24 400	330	12.99	2.00	1.35
EC615-20	31.8	1.25	51.3	2.02	420	6 100	1 680	24 400	445	17.52	3.77	2.53
EC615-24	38.1	1.50	58.8	2.31	420	6 100	1 680	24 400	530	20.87	5.17	3.47
EC615-32*	50.8	2.00	72.8	2.87	420	6 100	1 680	24 400	600	23.62	7.26	4.88

*Only bulk hose

Premium Standard Braided Spiral High-Temp Low-Temp Abrasion







Dynamax ultra-performance four and six wire spiral hose

Meets or exceeds: SAE 100R15 | ISO 18752

eroquip by Danfoss	eroquip by Danfoss EC850-12 19.01		Dura-Tuff Dynamax	SAE 100R15 / EN 856R13 Type ISO 18752 • MSHA IC-84/56	(1W 🖁
Typical application:		Agency specific	ations:	MSHA			
Demanding high pressure applic ing SAE J517 100R15 compliant s		Hose		Inner Tube:	Reinforcement:	Cover:	

pressures up to 500 bar-including hydrostatic drives, direct drive steering systems and critical subsystems in off-highway equipment.

specificationsi								
Hose	Inner Tube:	Reinforcement:	Cover:					
construction:	Synthetic rubber	four wire spiral (-10, -12, -16) six wire spiral (-20)	Dura-Tuff					
Operating temperature:	-40°C to +100°C (-40°F to +212°F)							
Qualified fittings:	1W series							

PART	SIZE DIM	SIZE DIMENSIONS				PRESSURE			BEND		WEIGHT		
#	Hose I.D.			Hose O.D (nominal		Working Pressure		Min. Bur Pressure		Min. Ber Radius	nd	Weight	
		mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC850-10	16	15.9	0.63	29.0	1.14	500	7 250	2 000	29 000	200	7.87	1.23	0.83
EC850-12	19	19.0	0.75	33.3	1.31	500	7 250	2 000	29 000	215	8.46	1.52	1.02
EC850-16	25	25.4	1.00	40.4	1.59	500	7 250	2 000	29 000	270	10.63	2.31	1.55
EC850-20	31	31.8	1.25	50.9	2.00	500	7 250	2 000	29 000	380	14.96	4.01	2.69

Braided

Spiral High-Temp Low-Temp Abrasion







Premium X-Flex four and six wire spiral hose

Meets or exceeds: SAE 100R15 | ISO 18752-DC

eroquip by Danfoss EC600-12		EDS SAE 100R15 • ISO 18752 \IC-84/19 • ABS • DNV-GL • USCG +	(~) 420 BAR (6100 PSI)	to +121°C Half Bend 1W 24S		
Typical application:	Agency specifications:	MSHA ABS USCG DNV				
High-pressure hydraulics, hydrostatic transmis- sions. Hydraulic system with petroleum and		Inner Tube:	Reinforcement:	Cover:		
water-glycol base fluids, for lubricants oils and	Hose construction:	Dura-Pulse	four wire spiral (-12 to -1	6) Dura-Tuff		

water.

lless	Inner Tube:	Reinforcement:	Cover:				
Hose construction:	Dura-Pulse patented tube	four wire spiral (-12 to -16) six wire spiral (-20 to -32)	Dura-Tuff				
Operating Temperature:	-40°C to +121°C (-40°F to +250°F)						
Qualified fittings:	4S series 6S series 1W series						

PART	SIZE DIM	PRESSUR	E			BEND		WEIGHT					
#	Hose I.D.		Hose O.D. (nominal)		Working Pressure	Working Pressure		Min. Burst Pressure		d	Weight		
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC600-12	19	19.0	0.75	33.3	1.31	420	6 100	1 680	24 400	135	5.31	1.52	1.01
EC600-16	25	25.4	1.00	39.4	1.55	420	6 100	1 680	24 400	165	6.50	2.04	1.36
EC600-20	31	31.8	1.25	50.5	1.99	420	6 100	1 680	24 400	225	8.86	3.89	2.61
EC600-24	38	38.1	1.50	57.7	2.27	350	5 100	1 400	20 400	508	20.00	4.78	3.21
EC600-32*	51	50.8	2.00	71.8	2.83	350	5 100	1 400	20 400	635	25.00	7.05	4.74

*-32 size is qualified for 500.000 cycles (ISO 18752-CC) *With the 6S fitting the -32 size working pressure is 380 bar (5500 psi) with a 4:1 safety factor





(Ĵ≡) High-Temp Premium HI-PAC one wire braided hose **FC510**

Meets or exceeds: SAE 100R2 | EN857 Type 1SC

	0-04 6.4 mm (0.25 in) Hi-Pac	SAE 100R2 / EN857) 350 BAR (5000 PSI) 🌡	-40°C to +150°C 1A		
Typical application:	Agency specifications:	MSHA				
For applications operating in high tempera- ture conditions, or applications with higher than average hydraulic fuid temperatures such as: mini excavators, skid steer loaders,		Inner Tube: AQP Elastomer	Reinforcement: HI-PAC one wire braid	Cover: Blue AQP Elastomer		
mini hydraulic breakers, industrial high pres sure compact power packs.	Operating temperature:	-40°C to +150°C (-40°F to +302°F)				
	Qualified fittings:	1A series				

PART	SIZE DIME	ENSIONS				PRESSURE				BEND		WEIGHT	
#	Hose I.D.			Hose O.D (nominal	•	Working Pressure		Min. Burs Pressure		Min. Ben Radius	d	Weight	
		mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
FC510-04	6	6.4	0.25	14.9	0.59	345	5 000	1 380	20 000	76	3.00	0.34	0.23
FC510-06	10	9.5	0.37	18.2	0.72	275	4 000	1 100	16 000	89	3.50	0.43	0.29
FC510-08	12	12.7	0.50	20.7	0.81	240	3 500	960	14 000	127	5.00	0.50	0.34
FC510-10	16	15.9	0.63	24.4	0.96	190	2 750	760	11 000	152	6.00	0.66	0.44
FC510-12	19	19.0	0.75	28.2	1.11	155	2 250	620	9 000	178	7.00	0.77	0.52
FC510-16	25	25.4	1.00	35.2	1.39	138	2 000	552	8 000	229	9.00	1.05	0.71
FC510-20	31	31.8	1.25	43.7	1.72	112	1 625	448	6 500	279	11.00	1.61	1.08





GH195 Premium high-temp AQP HI-IMPULSE, two wire braided hose

Meets or exceeds: SAE 100R2 Type S | EN 853 2SN | ISO 1436-1 Type 2SN

AQP SAE 10072 / EN 853 2SN - ISO 1436-1 2SN State 10 (5000 PSI)

Typical application:

For applications operating in high temperature conditions, or applications with higher than average hydraulic fuid temperatures such as: mini excavators, skid steer loaders, mini hydraulic breakers, industrial high pressure compact power packs.

Agency specifications:	MSHA ABS DNV U	MSHA ABS DNV USCG							
Hose	Inner Tube:	Reinforcement:	Cover:						
construction:	AQP elastomer	AQP elastomer two wire braid							
Operating temperature:	-40°C to +150°C (-40°F to +300°F)								
Qualified fittings:	1A series								

PART	SIZE DIMEN	ISIONS			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
GH195-4	6.4	0.25	15.1	0.60	400.0	5 800	1 600	23 200	102	4.02	0.40	0.27
GH195-6	9.5	0.38	19.2	0.75	345.0	5 000	1 380	20 000	127	5.00	0.58	0.39
GH195-8	12.7	0.50	22.1	0.87	293.0	4 250	1 172	17 000	178	7.01	0.68	0.46
GH195-10	15.9	0.62	25.5	1.00	250.0	3 650	1 000	14 600	203	7.99	0.80	0.54
GH195-12	19.0	0.75	29.5	1.16	215.0	3 125	860	12 500	241	9.49	1.00	0.67
GH195-16	25.4	1.00	37.8	1.49	175.0	2 550	700	10 200	305	12.01	1.44	0.97
GH195-20	31.8	1.25	48.5	1.91	155.0	2 250	620	9 000	419	16.50	2.38	1.60
GH195-24	38.1	1.50	55.1	2.17	125.0	1 800	500	7 250	508	20.00	2.59	1.74
GH195-32	50.8	2.00	67.8	2.67	105.0	1 525	420	6 100	635	25.00	3.38	2.27

Standard Br

Braided

Spiral

High-Temp

Low-Temp

Abrasion





High-Temp J **EC525**

Premium high-temp four and six wire spiral hose

Meets or exceeds: SAE 100R12 | EN 856 Type R12 performance

eroquip by Danfoss EC525-12 ^{19 mm (0, DN1)}		Exceeds SAE 100R12 / EN 856	(つ 345 BAR (5000 PSI) 🌡 🕻	40°C to +149°C 10°F to +300°F
Typical application:	Agency specifications:	MSHA		
For applications operating in high tempera- ture conditions, or applications with higher		Inner Tube:	Reinforcement:	Cover:
than average hydraulic fuid temperatures such	Hose construction:	AOP Elastomer	four wire spiral (-12 to -24)	Blue AOP elastome

as: mini excavators, skid steer loaders, mini hydraulic breakers, industrial high pressure compact power packs.

Hose	Inner Tube:	Reinforcement:	Cover:				
construction:	AQP Elastomer	four wire spiral (-12 to -24) six wire spiral (-32)`	Blue AQP elastomer				
Operating Temperature:	Typical fluids: -40°C To +149°C(-40°F To +300°F) Phosphate-ester base fluids: -40°C To +82°C(-40°F To +180°F)						
Qualified fittings:	4S series 6S series	;					

PART	SIZE DIMEN	ISIONS			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
EC525-12	19.0	0.75	30.7	1.21	345.0	5000	1380.0	20000	241.3	9.50	1.28	0.86
EC525-16	25.4	1.00	37.9	1.49	345.0	5000	1380.0	20000	304.8	12.00	1.73	1.16
EC525-20	31.8	1.25	46.6	1.84	240.0	3500	960.0	14000	419.1	16.50	2.31	1.55
EC525-24	38.1	1.50	53.9	2.12	240.0	3500	960.0	14000	508.0	20.00	2.96	1.99
EC525-32	50.8	2.00	67.3	2.65	225.0	3250	900.0	13000	635.0	25.00	4.42	2.97

Abrasion





H120 Premium low-temp two wire braided hose

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Agency

Meets or exceeds: SAE 100R16 Types | EN 857 Type 2SC | ISO 11237-1 Type 2SC

eroquip by Danfoss GH120-6 9.5 mm (0.38 in) Low-Temp Exceeds SAE 100R16 / EN857 2SC (?) 345 BAR (5000 PSI) -57°F to +100°F to +212°F

Typical application:

For applications operating in low temperature conditions, cold climate, extreme outdoor conditions such as snow snowploughs or material handling in freezer stores.

specifications:					
Hose	Inner Tube:	Reinforcement:	Cover:		
construction:	AQP Elastomer	two wire braid	Dura-Tuff		
Operating temperature:	-57°C to +100°C (-70°F to	o +212°F)			
Qualified fittings:	1A series				

PART	SIZE DIMEN	ISIONS			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
GH120-4	6.4	0.25	13.8	0.54	414.0	6000	1656.0	24025	51.0	2.00	0.30	0.20
GH120-6	9.5	0.38	17.4	0.68	345.0	5000	1380.0	20025	64.0	2.50	0.40	0.27
GH120-8	12.7	0.50	20.8	0.82	310.0	4500	1240.0	18000	89.0	3.50	0.58	0.39
GH120-10	15.9	0.62	24.9	0.98	276.0	4000	1104.0	16000	102.0	4.00	0.74	0.50
GH120-12	19.0	0.75	28.4	1.12	241.0	3500	964.0	14000	121.0	4.75	0.92	0.62
GH120-16	25.4	1.00	35.7	1.41	193.0	2800	772.0	11200	152.0	6.00	1.22	0.82
GH120-20	31.8	1.25	43.3	1.71	159.0	2300	636.0	9225	210.0	8.25	1.59	1.07
GH120-24	38.1	1.50	51.5	2.03	138.0	2000	552.0	8000	254.0	10.00	2.11	1.42
GH120-32	50.8	2.00	63.9	2.51	103.0	1500	412.0	6000	318.0	12.50	2.80	1.88

Standard Braided

Spiral

al Hig

High-Temp Low-Temp

mp Abrasion





Low-Temp (🕒 **EC810**

Premium low-temp four and six wire spiral hose

Meets or exceeds: SAE 100R15 | EN 856 Type R15

eroquip by Danfoss EC810-12 ^{19.0} mm (0.75 in) Low-Temp Exceeds SAE 100R16 / EN856 (?) 420 BAR (6100 PSI) 1-57°C to +100°C 44S 6
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Typical application:

Agency specifications:

For applications operating in low temperature
conditions, cold climate, extreme outdoor
conditions such as snow snowploughs or
material handling in freezer stores.

Hose construction:	Inner Tube:	Reinforcement:	Cover:			
	AQP Elastomer	four wire spiral (-12 to -16) six wire spiral (-20 to -32)	Synthetic rubber			
Operating temperature:	-57°C to +100°C (-70°F to +212°F)					
Qualified fittings:	4S series 6S series					

PART	SIZE DIMEI	NSIONS			PRESSURE				BEND		WEIGHT	
#	Hose I.D.		Hose O.D. (nominal)		Working	Pressure	Min. Burs	t Pressure	Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC810-12	19.0	0.75	32.2	1.27	420	6 100	1 680	24 360	280	11.02	1.61	1.08
EC810-16	25.4	1.00	39.0	1.54	420	6 100	1 680	24 360	340	13.39	2.02	1.36
EC810-20	31.8	1.25	49.4	1.95	420	6 100	1 680	24 360	420	16.54	3.55	2.39
EC810-24	38.1	1.50	57.3	2.26	420	6 100	1 680	24 360	510	20.08	4.74	3.19
EC810-32	50.8	2.00	71.1	2.80	350	5 100	1 400	20 305	630	24.80	6.70	4.50

Braided

Spiral

Abrasion

Danfoss



Premium suction one wire braided hose FC619

Meets or exceeds: SAE 100R4 | ISO 18752

🕥 Suction

Agency

eroquip by Danfoss FC619-19	Exceeds SAE 100R4 / ISO 18752	🔿 21 BAR (300 PSI)	-40°C to +135°C -40°F to +275°F	HALF	1Aਊ
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Typical application:

industrial fluids.

Suction and transfer applications for petroleum hydraulic fluids, fuel, lubricating oils, gasoline, water and many other

Hose construction:	Inner Tube:	Reinforcement:	Cover:			
	Synthetic rubber	Helical wire between two textile reinforcement layers	Synthetic rubbe			
Operating temperature:	-40°C to +135°C (-40°F to +275°F)					
Qualified fittings:	1A series (-12 to -32)					

PART	SIZE DIN	IENSIONS			PRESSU	RE			BEND		VACUUN	1	WEIGHT	
#	Hose I.D		Hose O. (nomina		Working sure	g Pres-	Min. Bu Pressure		Min. Ber Radius	nd	Vacuum Service		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft	kg/m	lbs/ft
FC619-12	19.1	0.75	30.7	1.21	21.0	300 †	84	1 200	63.5	2.50	94.8	28	0.68	0.46
FC619-16	25.4	1.00	37.6	1.48	17.0	250†	70	1 000	76.2	3.00	94.8	28	0.83	0.56
FC619-20	31.8	1.25	44.5	1.75	14.0	200 †	56	800	102.0	4.00	94.8	28	1.16	0.78
FC619-24	38.1	1.50	51.8	2.04	10.5	150 †	42	600	127.0	5.00	94.8	28	1.49	1.00
FC619-32	50.8	2.00	64.8	2.55	7.0	100 †	28	400	152.4	6.00	94.8	28	1.83	1.23
FC619-40	63.5	2.50	79.2	3.12	4.0	62	17	250	355.6	14.00	94.8	28	2.35	1.58
FC619-48	76.2	3.00	95.3	3.75	4.0	62	16	225	457.2	18.00	94.8	28	3.36	2.26

+ Maximum working pressure for band clamp type fittings is 3,4 bar [50 psi].

Braided

Danfoss





Standard suction and return hose

Meets or exceeds: SAE 100R4

Winn	er by Danfoss WHC	004-12 ^{19 mm} D	n (0.75 in) Exceeds SAE 10 N19 MSHA IC-261/5	DR4 PERFORMANCE	() 21 BAR	R (305 PSI)	↓ -40°C to +100°C ↓ -40°F to +212°F	
Typical applicatior	:		Agency specifications:	MSHA				
	use in suction applie			Inner Tube	2:	Reinforcem	ent: C	over:
for hydraulics, crude fuel, lubricating oils, gasoline, air, water and chemical transfer.			Hose construction:	Oil-resistan	t NBR	Textile with & anti-static	S	nthetic rubber/
			Operating temperature:	-40°C to +1	00°C (-40°F t	o +212°F)		
			Qualified fittings:	Hose barb v	1A and 1G & Winner 2 pc: -12 to -32 Hose barb with band clamps: -12 thru -48 with a reduced operating pressure rating of 4 bar (60 psi)			
PART	SIZE DIMENSION	S	PRESSURE		BEND	VA	CUUM	WEIGHT
#	Hose I.D.	Hose O.D. (nominal)	Working Pres- sure	Min. Burst Pressure	Min. Be Radius		Icuum	Weight

	mm	in	mm					-	Radius		Vacuum	I	Weight	
				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	1 220	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

Premium Standard Braided Spiral High-Temp Low-Temp Abrasion

We're changing the crimping game.

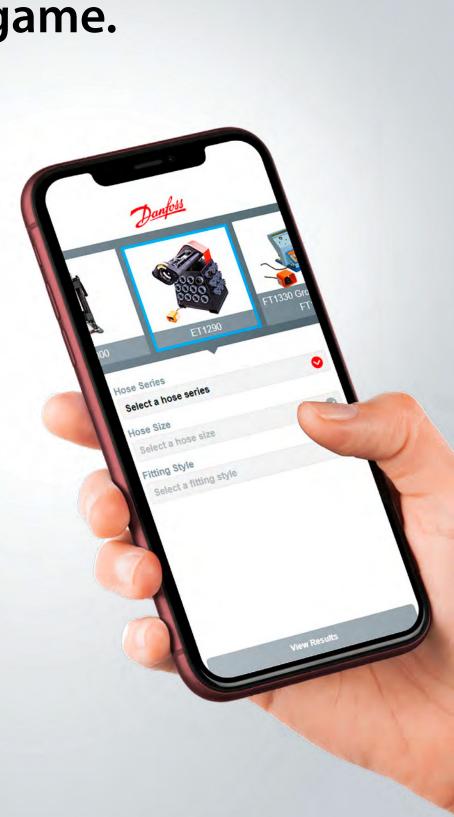
Mobile crimp tool

We've made it easier to help your customers find the proper crimp spec anytime, anywhere with the new mobile crimp spec tool on PowerSource.

Visit **www.Danfoss.com/crimp** on your mobile device and follow these steps:

- 1. Find your machine
- 2. Select your hose series
- 3. Select your hose size
- 4. Find your fitting style

Then view your results. Add the tool to your home screen for even quicker access.





New laylines

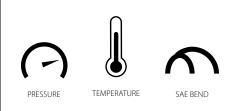
BRAND	PART #	SIZE (I.D.)	AGENCY SPECIFICATIONS	PRESSURE	TEMP	SAE BEND	FITT	ING
Winner by Danfoss	EC215-06	9.5 mm (0.38 in) DN10	EN857 25C • ISO 18752 MSHA IC-84/41 • DNV • USCG +	(~) 345 BAR (5000 PSI)	↓ -40°C to +100°C ● -40°F to +212°F	HALF	1A 2PC	800

Agency specifications

Hose agency specifications are clearly defined on each hose. SAE, ISO, MSHA, DNV, 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 easyto-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.



EN standards

Each 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 different standards.

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

Spiral

Fitting info

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







Fittings

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.



DURA-SEAL[™] Technology

This patent-pending innovation from Danfoss eliminates hose assembly cool-down leakage, while extending hose assembly life, reducing equipment down-time.

Braided Hose Fittings	Features					
Premium	 New Dura-Kote[™] plating technology for up to 1,000 hours of corrosion resistance 					
1A (TTC Series)	Bite the wire technology for best in class connection and sealing					
	Class zero leakage SAE J1176 on approved hose styles					
	Over 550 TTC Series part numbers available					
and a second sec	 Danfoss' MatchMate^m program provides identification markings on the hose, hose fittings, and crimp dies for quick and easy assembly 					
Standard	Non-skive, two-piece crimp fitting					
Two-piece Winner	One nipple part number for EC115, EC215 and EC118 standard hoses					
	\cdot 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	Features					
Premium	New Dura-Kote plating technology for up to 1,000 hours of corrosion resistance					
4S/6S Spiral Series	New patent pending Dura-Seal [™] technology to eliminate hose assembly cool-down leakage					
	Class zero leakage SAE J1176 on approved hose styles					
	• Danfoss' MatchMate spiral-hose/fitting identification system program provides identification markings on the hose, hose fittings, and crimp dies for quick and easy assembly					
Premium	Internal Skive Hi-Performance Spiral Fitting with design related sockets					
1W – Internal Skive Series	Blow off prevention for critical applications					
	• Designed to withstand high-pressure environments, with a capacity of up to working 500 bar (7250 psi).					
	· Tested to two million flex impulse cycles, proving their durability and reliability over the long-term.					
	Class 0 Cool Down Leakage per SAE J1176					
	 Double O-Ring Dura-Seal[™] for sizes -20 to -32 providing extra protection and durability for large size hoses 					
ReusableHose Fittings	Features					
Premium	New Dura-Kote plating technology for up to 1,000 hours of corrosion resistance					
Reusable	Engineered to provide peak performance with Danfoss' core braided hose products					
	Can be assembled in the field without special tooling					
	Reduced downtime					
	Quick repair					



Ordering & hose numbering system

How to order

Accurate processing and prompt delivery of your order depends on easy identification of your requirements. Please order Aeroquip and Winner brand parts using correct part numbers as described in this guide. Inquiries and orders should be directed to your distributor or:

Danfoss Distribution II

A/S Nordborgvej 81, 6430 Nordborg, denmark www.Danfoss.com/hydraulics Inside.Sales.DPS.EMEA@danfoss. com

Part numbers and dash sizes

Dash size designates the nominal size in 16th of an inch. This number immediately follows the part number and is separated from it with a dash.

Dimensions

Dimensions given in this guide for Aeroquip and Winner products are approximate and should be used for reference only. Exact dimensional information for a given product is subject to change and varying tolerances; contact Danfoss directly for full current information.



Danfoss manufactures the terminal ends of our hose fittings to the appropriate requirements established by the SAE or DIN. Therefore, the performance ratings of these hose fittings meet the SAE or DIN requirements. It is possible to order a hose assembly with a fitting terminal end that has a performance rating lower than the hose rating. When ordering hose assemblies, please keep the connecting end performance rating in mind since this may affect overall hose assembly performance. Hose assembly components (hose and fittings) are easily assembled in the field. However, factory assembled reusable and crimped hose assemblies are available. For complete information, contact Danfoss.

Numbering system - hydraulic hose

Depending on the production type, hoses will be bundled in pre-defined hose lengths:



Danfoss is committed to providing pre-defined hose lengths with as few cuts as possible. Nevertheless, please note that following specifications will be valid for the bundled part numbers:

	< MT61	> MT61
Max number of pieces in one bundled coil	Max. 3 pieces	Max. 5 pieces
Shortest length	5 meter	5 meter
Overall length tolerance	+/- 1%	+/- 1%

Bulk hose

Bulk hose should be ordered by specifying length in feet as shown below.

	500 ft 2651 -10
Complete number quantity (in feet)	
Hose type	
Hose size (in 16ths of an inch) ————	

NOTE: Length tolerance for hose, assemblies and sleeves is:

Up to and including 12 inches: ±1/8"

Above 12 inches to and including 18 inches: $\pm 3/16''$ Above 18 inches to and including 36 inches: $\pm 1/4''$ Above 36 inches: $\pm 1\%$ of length

NOTE: For bulk hose prices please contact your sales representative.



Hose fitting numbering system

Numbering system - hose fittings

Part numbering system

Part numbers collapse to the shortest possible number of digits:

It is assumed that a fitting has a straight configuration unless a code is added to designate otherwise.

e.g., 1AA8FJ8 has a straight configuration 1AA8FJA8 has a 45° elbow configuration

Dashes and unnecessary zeros are not used.

e.g., 1/4" is designated by "4" not "-4" or "04" 5/8" is designated by "10" not "-10"

Crimp fittings

Crimp fittings			
Complete nipple part number:	<u>1</u>	<u>A A 8</u>	<u>FJ A 8</u>
Product group code –]	
1A = TTC fitting part number			
4S = 4S fitting part number for			
four spiral hose			
6S = 6S fitting part number for			
six spiral hose			
1R = Reusable fitting part #			
for one wire braided hose			
2R = Reusable fitting part #	-		
for two wire braided hos	đ		
4T = One piece fitting for			
Synflex 100R7, 100R8	-		
and 100R18 Thermoplastic			
1W = Internal Skive Hi-Perform		g	
with design related socke	ets		
Material stock code –			
If material is round stock, then	this		
position collapses.			
A = inch hex stock			
(metric hex, this position o	ollapses)		
End connection size*			
End connection code —			
BF = BSP Female Swivel (1 hex)			
BP = BSP Male Parallel			
BT = BSP Male Tapered			
CT = Cat Flange			
DK = 24 Male (light duty)			
DL = DKO Female Swivel (light c	uty)		
DS = DKO Female Swivel (heavy	duty)		
EK = 24 Male (heavy duty)			
FH = Flange Code 62			
FJ = Female JIC Swivel			
FL = Flange Code 61			
FR = Female ORS			
FS = Female SAE Swivel			
JF = JIS Female Swivel			
JM = BSP Female Swivel (2 hexes	5)		
KF = Komatsu Female Swivel			
KS = Komatsu Split Flange			
MB = Male Boss O-Ring			
MF = Male Inverted Flare			
MJ = Male JIC			
MP = Male Pipe			
MR = Male ORS			
PF = Female Pipe Swivel			
PS = Pipe Swivel			
Connecting end configuration of			
If nipple has a straight configuration	on, then this		
position collapses.			
$A = 45^{\circ} D = 22 - 1/2^{\circ}$			
$B = 90^\circ$, standard or	$E = 67 - 1/2^{\circ}$		
short drop	$F = 30^{\circ}$		
C = 90°, long drop	$G = 60^{\circ}$		
Hose size* –]
Material Designation –			
C = stainless steel, if fitting is zinc	olated carbon st	eel	

 stainless steel, if fitting is zinc plated carbon steel (standard), this position collapses.

*When ordering sizes 3, 4, 5, 6 and 8 the part number requires only single digits.

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Crimp machine comparison chart









ET4300





ET4100

ET4200

ET4250

1

ET4350

ET4400

Description	Manual Crimper	Electric Crimper 1 Phase or 3 Phase	Mobile Electric Crimper with 12V	Electric Crimper 1 Phase or 3 Phase	Mobile Electric Crimper with 12V	Electric Crimper 1 Phase or 3 Phase
Production volume	Low	medium	medium	medium	medium	medium
Pump option**	manual	230V / 380 V	DC 12V - Mobile	230V / 380 V	DC 12V - Mobile	230V / 380 V
Application	Portable Crimper	Workshop Crimper	Portable Crimper	Workshop Crimper	Portable Crimper	Workshop Crimper
Capability Braided	1 1/4"	1 1/2"	1 1/2"	2"	2"	2"
(up to)*	(Size -20)	(Size –24)	(Size –24)	(Size –32)	(Size -32	(Size – 32)
Capability 4-Spiral	3/4"	1"	1"	1 1/4"	1 1/4"	2"
(up to)*	(Size -12)	(Size -16)	(Size -16)	(Size - 20)	(Size -20)	(Size -32)
Capability 6-Spiral	-	-	-	1 1/4"	1 1/4"	1 1/2"
(up to)*				(Size -20)	(Size -20)	(Size -24)

*Capabilities based on Danfoss core hose and fitting products

*See pump ordering options for each machine for specific kit numbers



Crimp machine comparison chart



ET4500-002







ET4500

ET5020

ET5025

ET5070

Description	Electric Crimper 1 Phase or 3 Phase	Electric Crimper 3 Phase with Controller	Electric Crimper 3 Phase with Controller	Electric Crimper 3 Phase with Controller	Electric Crimper 3 Phase with Controller
Production volume	medium	medium	high	high	high
Pump option**	230V / 380 V	380 V	380 V	380 V	380 V
Application	plication Workshop Crimper		Production Crimper	Production Crimper	Production Crimper
Capability Braided	Capability Braided 3"		1 1/2"	2″	3"
(up to)*	p to)* (Size -48)		(Size -24)	(Size -32)	(Size –48)
Capability 4-Spiral	2"	2"	1"	1 1⁄4″	3"
(up to)*	(Size -32)	(Size -32)	(Size -16)	(Size -20)	(Size -48)
Capability 6-Spiral	1 1/2"	1 1/2"	_	-	2 1/2"
(up to)*	(Size -24)	(Size -24)			(Size -40)

*Capabilities based on Danfoss core hose and fitting products

*See pump ordering options for each machine for specific kit numbers

A broad portfolio of leading technology expertly **matched to your needs...**



Tooling is a costly investment that you must get right. Whether your challenge is a mobile workshop, a full hose assembly manufacturing branch, or anything in between, our high-quality tooling can meet your needs and ensure a strong return-on-investment.

We offer an extensive portfolio of portable, workshop, and production line crimping machines that can suit any environment, as well as versatile cutting, skiving, nipple insertion, and marking machines. There's no need to waste time and money researching appropriate solutions—our experts have pre-selected market-leading tooling that's the best technical match for Danfoss hoses and fittings.

We also offer expert technical guidance and recommendations that consider your unique needs to ensure 'right-sized' solutions that can support you over the long term. We'll advise you on the most appropriate tooling and methods to use when assembling individual hoses and fittings, so you can accelerate production speeds, ensure optimal assembly performance, and minimize the risk of errors that can cause leaks and safety issues.





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
- DCV directional control valves
- Electric converters
- Electric machines
- Electric motors
- Hydrostatic motors
- Hydrostatic pumps
- Orbital motors

- PLUS+1[®] controllers
- PLUS+1[®] displays
- PLUS+1[®] joysticks and pedals
- PLUS+1[®] operator interfaces
- PLUS+1[®] sensors
- 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 Optimum by Danfoss
- Telematics
- Weatherhead by Danfoss
- Winner by Danfoss

Go to www.danfoss.com for further product information.

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