

# Aeroquip® by Danfoss EC850 hose



## EC850 four and six wire spiral hose

Look no further than the EC850 spiral hose to handle high-pressure demands without compromise. Designed to accommodate the most current pump technologies, rigorously tested up to 500 bar, the EC850 hose enables more durable and efficient machines with extreme power density. The hose is also built to last - meeting typical lifecycle requirements in all sizes, but delivering up to 3 million impulse cycles in sizes -10 and -12, six times higher than the standard.

### Features:

- Supports applications up to 500 bar in all sizes, 17% higher than SAE J517 100R15 standard
- Very high burst pressure of 2,000 bar
- 6X longer lifecycle in sizes -10 and -12
- 19% better bend radius than SAE J517 100R15 standard
- 8X higher abrasion resistance with Danfoss Dura-Tuff® cover
- Use with Danfoss Global non-skive one piece 1W fittings for Class 0 leakage according to SAE J 1176
- Customized multi-bent fittings available that support working pressures up to 500 bar

### Benefits:

- Extremely high pressure allows for the creation of more power dense machines
- Long lifecycle in demanding applications maximizes machine uptime and lowers maintenance spending
- Above standard flexibility enables easier hose assembly installation
- Higher abrasion resistance lessens a leading cause of hose failure, increasing in-application life and reducing maintenance costs
- High-performance fittings enable better sealing and leak-free operations

\*than standard hose



### Markets & Applications:

Demanding high pressure applications requiring SAE J517 100R15 compliant solutions at pressures up to 500 bar - including hydrostatic drives, direct drive steering systems and critical subsystems in off-highway equipment.

# EC850

Core premium  
four and six wire spiral hose

Meets: SAE 100R15 | ISO 18752



**EC850-12**

19.0 mm (0.75 in)  
DN19

**Dura-Tuff  
Dynamax**

Exceeds SAE 100R15 / EN 856 R13 Type  
ISO 18752 • MSHA IC-84/56

**500 BAR (7250 PSI)**

-40°C to +100°C  
-40°F to +212°F

1W 

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
EC850-10	15,9	0.62	27,9	1.10	500	7,250	2,000	29,000	200,0	7.87	1,23	0.82
EC850-12	19,0	0.75	32,2	1.27	500	7,250	2,000	29,000	215,0	8.46	1,52	1.01
EC850-16	25,4	1.00	39,2	1.54	500	7,250	2,000	29,000	270,0	10.63	2,31	1.54
EC850-20*	31,8	1.25	49,4	1.94	500	7,250	2,000	29,000	380,0	14.96	4,01	2.69

**Agency specifications:** MSHA IC-84 | DIN 5510

<b>Hose construction:</b>	<b>Inner tube:</b> Nitrile	<b>Reinforcement:</b> Four wire spiral (-10, -12 -16) Six wire spiral (-20)	<b>Cover:</b> DuraTUFF+ premium abrasion
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**Operating temperature:** -40°C to +100°C (-40°F to +212°F)

**Qualified fittings:** 1W series

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