

Premium four/six-wire spiral hose



Premium

Aeroquip® by Danfoss EC850 Dynamax® four/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.

Need to know:



500 bars
in all sizes



Tested to 3.000.000
impulse cycles



19% better
bend radius*



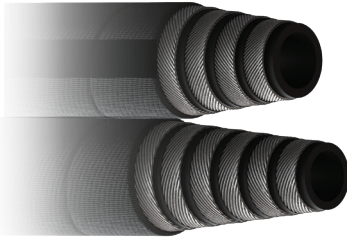
Features:

- 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 SAEJ 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 SAE J517 100R15



Premium

EC850

Core Dynamax ultra-performance
four & six-wire spiral hose

Meets or exceeds: SAE 100R15 | ISO 18752

by Danfoss	EC850-12	19.0 mm (0.75 in) DN19	Dura-Tuff Dynamax	SAE 100R15 / EN 856R13 Type ISO 18752 - MSHA IC-84/56	500 BAR (7250 PSI)	-40°C to +100°C -40°F to +212°F	1W
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Typical application:

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.

Agency specifications: MSHA IC-84 | DIN 5510

Hose construction:	Inner Tube: Synthetic rubber	Reinforcement: Four-wire spiral (-10, -12,-16) Six-wire spiral (-20)	Cover: Dura-Tuff® Premium Abrasion
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Operating Temperature: -40°C to +100°C (-40°F to +212°F)

Qualified fittings: 1W 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
EC850-10	15,9	0.63	27,4	1.08	500	7,250	2,000	29,000	200,0	7.87	1,23	0.82
EC850-12	19,1	0.75	31,5	1.24	500	7,250	2,000	29,000	215,0	8.46	1,52	1.01
EC850-16	25,4	1.00	39,4	1.55	500	7,250	2,000	29,000	270,0	10.63	2,31	1.54
EC850-20	31,8	1.25	49,5	1.95	500	7,250	2,000	29,000	380,0	14.96	4,01	2.69

Core hose I.D.

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

MORE HIGHLIGHTS



Very high burst pressure of 2,000 bar



6x longer lifecycle in sizes -10 and -12



8x Higher Abrasion Resistance



Class 0 Leakage Fittings



Multi-bent fittings support up to 500 bar

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