

Premium one-wire braided hose



Premium

# Aeroquip® by Danfoss GH681 one-wire braided hose

**Danfoss' one-wire braided hose combines high durability, flexibility and pressure tolerance for more efficient, leak-free operations.** The new generation of Aeroquip GH681 one-wire braided hose combines a longer in-application life, with a higher pressure rating and greater flexibility to enable leak-free operations. Our GH681 hose can even replace two-wire braided options where the pressure and temperature needs required a two-wire hose in the past.

**Need to know:**



1 Million qualified  
Impulse Cycles



26% Wider  
Temperature Range \*



33% Better  
Bend Radius \*



**Features:**

- Qualified to one million impulse cycles
- Highest pressure rating, 14% above standard
- Average of 33% better bend radius than EN857 Type 1SC standard
- 26% broader operating temperature
- 8X higher abrasion resistance
- Also available with Danfoss Bruiser® cover offering 700x higher abrasion resistance
- Use with Danfoss Global 1A non-skive one piece fittings rated for Class 0 leakage according to SAEJ 1176

**Benefits:**

- 6X the life expectancy of standard EN857 Type 1SC hoses lowers maintenance costs and increases safety
- Usable in a broader range of hydraulic systems where two-wire braided hoses may have been required in the past, reducing design and use complexity
- Higher operating temperature protects against heat in demanding environments, enabling longer hose life, lower maintenance costs, and use in broader applications
- Greater flexibility enables use in really tight spaces, allowing more design freedom, lower assembly costs, and reduced machine weight that increases fuel-efficiency
- 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 EN857 Type 1SC



# GH681

Core premium  
one-wire braided hose

Meets or exceeds: SAE 100R16 | EN 857 2SC | ISO 18752

**GH681-6**
9.5 mm (0.38 in) DN10
Dura-Tuff
Exceeds SAE 100R17 / EN857 1SC - ISO 18752 MSHA IC-84/19 - ABS - DNV-GL - USCG+
235 BAR (3400 PSI)
-46°C to +126°C (-50°F to +260°F)
HALF BEND 1A 1R 0

### Typical application:

Low and medium pressure hydraulic systems with petroleum and water-based fluids, construction equipment and agriculture equipment, industrial hydraulic systems.

Agency specifications: MSHA | ABS | DNV-GL

<b>Hose construction:</b>	<b>Inner Tube:</b> Nitrile	<b>Reinforcement:</b> 1-wire braid	<b>Cover:</b> Dura-Tuff Premium Abrasion
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**Operating Temperature:** -46°C to +126°C (-50°F to +260°F)

**Qualified fittings:** 1A | Class 0 leakage | SA J1176 on approved hose styles

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>GH681-3</b>	4,8	0.19	10,9	0.42	250,0	3625	1000	14500	45,0	1.77	0,19	0.13
<b>GH681-4</b>	6,4	0.25	12,9	0.51	255,0	3700	1020	14800	50,0	1.97	0,21	0.14
<b>GH681-5</b>	7,9	0.31	14,0	0.55	225,0	3250	900	13000	55,0	2.17	0,22	0.15
<b>GH681-6</b>	9,5	0.38	16,3	0.64	235,0	3400	940	13600	63,0	2.48	0,31	0.21
<b>GH681-8</b>	12,7	0.50	19,9	0.78	221,0	3200	883	12800	90,0	3.54	0,43	0.29
<b>GH681-10</b>	15,9	0.63	22,3	0.88	140,0	2025	559	8100	100,0	3.94	0,42	0.28
<b>GH681-12</b>	19,0	0.75	26,0	1.02	138,0	2000	552	8000	120,0	4.72	0,56	0.37
<b>GH681-16</b>	25,4	1.00	34,0	1.34	103,0	1500	414	6000	150,0	5.91	0,80	0.54
<b>GH681-20</b>	31,8	1.25	41,5	1.63	69,0	1000	276	4000	210,0	8.27	1,01	0.68
<b>GH681-24</b>	38,1	1.50	47,9	1.89	52,0	750	207	3000	250,0	9.84	1,19	0.80
<b>GH681-32</b>	50,8	2.00	64,0	2.52	41,0	600	166	2400	315,0	12.4	1,92	1.29

### Core hose I.D.

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

### MORE HIGHLIGHTS

600% or 6x more impulse life\*

14% Higher Pressure\*

Class 0 Leakage Fittings

8x Higher Abrasion

700x Higher Abrasion Resistance for optional Bruiser cover

Performance between 1 and 2-Wire Braided hoses

\* than EN857 Type 1SC

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