

## Premium four wire spiral hose



Premium

# Aeroquip® by Danfoss GH493 four wire spiral hose

**When reliable performance in demanding applications is critical, GH493 hose is the perfect solution. The GH493 hose exceeds four leading industry standards, including EN856 Type R12, EN856 Type 4SP, SAE 100R12 and ISO 18752.** Tested up to one million impulse cycles, GH493 hose offers long in-application life, as well as above-standard pressure tolerance and flexibility. A versatile solution for a wide range of mobile machines, the GH493 hose can help maximize uptime and minimize maintenance.

## Need to know:



Meeting or  
exceeding 4 key  
standards



38% higher  
average pressure  
rating\*



43% tighter  
minimum bend  
radius\*



## Features:

- Tested up to 1 million impulse cycles—twice the requirements of SAE 100R12, EN856 Type 4SP and EN856 Type R12
- Better average pressure performance - exceeds SAE 100R12 (37% better), EN856 Type 4SP (22% better) and EN856 Type R12 (38% better)
- Better minimum bend radius - 18% tighter than EN856 Type 4SP and 43% tighter than EN856 Type R12
- Meets ISO 18752 constant pressure standards
- 8X higher abrasion resistance with Danfoss Dura-Tuff® cover
- Pair with Danfoss 4S spiral fittings utilizing Dura-Seal™ technology for Class 0 leakage (SAE J1176)
- Customized multi-bent fittings available up to one meter length

## Benefits:

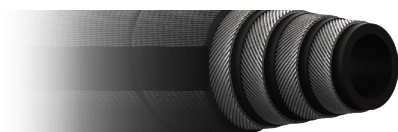
- Long lifecycle in demanding applications maximizes machine uptime and lowers maintenance spending
- Above-standard pressure rating enables use in a broader range of hydraulic systems and allows for the creation of more power dense machines
- High pressure rating helps maintain the desired pressure levels and ensures efficient system operation, while enabling safer operations and longer application life.
- 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 EN856 Type R12 standard



Premium



# GH493

 | Core premium  
four wire spiral hoseMeets or exceeds: SAE 100R12 | EN856 Type 4SP |  
EN856 Type R12 | ISO 18752

by Danfoss

GH493-6

9.5 mm (0.38 in)  
DN10

Dura-Tuff

Exceeds SAE 100R12 / EN 856 R12  
MSHA IC-84/19 • ABS • DNV • USCG+

448 BAR (6500 PSI)

-40°C to +126°C  
-40°F to +260°F

Half Bend

4S

### Typical application:

Subsystems requiring SAE J517 - 100R12, EN856 Type 4SP, EN856 Type R12 and ISO 18752 compliant solutions, such as the high pressure hydraulic systems in mobile machinery, mining equipment and oil & gas applications.

**Agency specifications:** MSHA | ABS | DNV | USCG+**Hose construction:****Inner Tube:**  
Synthetic rubber**Reinforcement:**  
Four wire spiral**Cover:**Dura-Tuff®  
Premium Abrasion**Operating temperature:**

-40°C to +126°C (-40°F to +260°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
<b>GH493-6</b>	9.5	0.38	20.2	0.80	448	6,500	1,792	26,000	62.5	2.46	0.71	0.47
<b>GH493-8</b>	12.7	0.50	23.6	0.93	415	6,000	1,660	24,000	90	3.54	0.88	0.59
<b>GH493-10</b>	15.9	0.62	27.4	1.08	415	6,000	1,660	24,000	100	3.94	1.04	0.70
<b>GH493-12</b>	19.0	0.75	30.7	1.21	380	5,500	1,520	22,000	120	4.72	1.34	0.90
<b>GH493-16</b>	25.4	1.00	37.9	1.49	350	5,100	1,400	20,400	150	5.91	1.79	1.20
<b>GH493-20</b>	31.8	1.25	46.6	1.83	310	4,500	1,240	18,000	210	8.27	2.23	1.50
<b>GH493-24</b>	38.1	1.50	53.9	2.12	275	4,000	1,100	16,000	250	9.84	3.03	2.03
<b>GH493-32</b>	50.8	2.00	66.8	2.63	275	4,000	1,100	16,000	320	12.60	4.38	2.94

### Core hose I.D.

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

### MORE HIGHLIGHTS

Providing reliable  
high pressureTested up to 1 million  
impulse cycles8x Higher  
Abrasion ResistanceClass 0  
Leakage FittingsMulti-bent  
fittings

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