

Aeroquip by Danfoss | GH681 EDGE series fact sheet

Aeroquip by Danfoss GH681 hose



Introducing the new GH681 EDGE series, a one-wire braided hose that combines high durability, flexibility, and pressure tolerance for more efficient, leak-free operations. Featuring a DuraTUFF+ cover for 100x better abrasion resistance, this next-generation hose offers a longer in-application life with a higher pressure rating and greater flexibility. It can even replace two-wire braided options where the pressure and temperature needs previously required a two-wire hose.

The EDGE six-point system

Features:	Benefits:
<ul style="list-style-type: none"> • 1,000,000 Impulse Cycles 	<ul style="list-style-type: none"> • Extends hose life, reduces downtime, and lowers replacement costs.
<ul style="list-style-type: none"> • Higher Pressure Performance 	<ul style="list-style-type: none"> • Allows for use in more powerful applications and provides a greater safety factor.
<ul style="list-style-type: none"> • Tighter Bend Radius DuraFLX™ technology offers 1/2 bend radius 	<ul style="list-style-type: none"> • Enables faster, easier installation, especially in tight spaces.
<ul style="list-style-type: none"> • Wide Temperature Range 	<ul style="list-style-type: none"> • Ensures reliable performance in extreme hot and cold conditions.
<ul style="list-style-type: none"> • 100x Abrasion Resistance DuraTUFF+™ cover with 100x the abrasion of standard hose 	<ul style="list-style-type: none"> • Protects against external wear, significantly increasing durability.
<ul style="list-style-type: none"> • Class 0 Leakage 	<ul style="list-style-type: none"> • Guarantees leak-free connections, improving safety and efficiency while preventing fluid loss.



Markets & Applications:

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

Learn more at
danfoss.com/edge



EDGE Premier Hydraulic Series • Braided

GH681

Core premium
one wire braided hose



Meets or exceeds:

SAE 100R17 | SAE 100R1 | EN 857 Type 1SC performance
ISO 18752 | ISO 1436 1SN

Typical application:

Petroleum and fire-resistant hydraulic fluids, fuel and lubricating oils, gasoline, water and other industrial fluids

Agency specifications:

ABS | DNV | MSHA | USCG

Hose construction:

Inner tube: Nitrile

Reinforcement: One wire braid

Cover: DuraTUFF+ premium abrasion

Operating temperature:

-46°C to +126°C (-50°F to +260°F)

Qualified fittings:

1A series | 1R series (-4, -6, -8, -12, -16)

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
GH681-3	4,8	0.19	10,9	0.43	250,0	3,650	1,000	14,500	45,0	1.77	0,16	0.11
GH681-4	6,4	0.25	12,9	0.51	255,0	3,700	1,020	14,800	50,0	1.97	0,21	0.14
GH681-5	7,9	0.31	14,1	0.55	225,0	3,250	900	13,000	55,0	2.17	0,22	0.15
GH681-6	9,5	0.38	16,3	0.64	235,0	3,400	940	13,600	63,0	2.48	0,31	0.21
GH681-8	12,7	0.50	19,9	0.78	221,0	3,200	883	12,800	90,0	3.54	0,43	0.29
GH681-10	15,9	0.62	22,3	0.88	140,0	2,025	559	8,100	100,0	3.94	0,44	0.29
GH681-12	19,0	0.75	26,0	1.02	138,0	2,000	552	8,000	120,0	4.72	0,56	0.37
GH681-16	25,4	1.00	34,0	1.34	103,0	1,500	414	6,000	150,0	5.91	0,84	0.56
GH681-20	31,8	1.25	41,5	1.63	69,0	1,000	276	4,000	210,0	8.27	1,01	0.68
GH681-24	38,1	1.50	47,9	1.89	52,0	750	207	3,000	250,0	9.84	1,23	0.83
GH681-32	50,8	2.00	64,0	2.52	41,0	600	166	2,400	315,0	12.40	2,01	1.32

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