

**Eaton Aeroquip GH681**  
Exceeds EN857 Type 1SC

# GH681 1 Million Impulse Cycle One Wire Braided Hose



Eaton is excited to introduce GH681, a new high performing one wire braided hose qualified to 1 Million impulse cycles. Impulse cycles are a key measure in the life expectancy and overall quality of a hydraulic hose. Standard EN857 Type 1SC hoses are only qualified to 200,000 cycles. Exceeding the standard by 5X means this hose was designed to last and withstand the toughest applications.

GH681 also exceeds the 1SC pressure ratings which extends the range in which hydraulic systems this hose can be used in. See below for some typical applications.

#### **Application**

- Compact construction equipment
- Agricultural equipment
- Aerial lift equipment
- Other industrial applications needing 1SC pressures

#### **Features**

- 1 million impulse cycle performance
- Higher pressure ratings than standard one wire braided hose
- Operating temperature rating up to +126°C (260°F)
- Dura-Tuff cover

#### **Benefits**

- Extended product life expectancy over standard EN857 Type 1SC hoses
- Allows for use in a broader range of hydraulic systems where two wire hoses may have been required in the past
- Additional protection against heat in demanding applications
- Provides additional abrasion resistance which is a leading cause of hydraulic hose failures

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# GH681

Exceeds: EN857 Type 1SC



# Part Number	Hose I.D.			Hose O.D.		Max. Operating Pressure		Burst Pressure		Min. Bend Radius		Weight	
	DN	mm	in	mm	in	bar	psi	bar	in	mm	in	kg/m	lb/ft
GH681-3	5	4.8	0.9	11.5	0.45	250	3625	1000	14500	45	1.77	0.13	0.09
GH681-4	6	6.4	0.25	13.5	0.53	255	3700	1020	14800	50	1.97	0.14	0.09
GH681-5	8	7.9	0.31	14.5	0.57	225	3250	900	13000	55	2.17	0.15	0.10
GH681-6	10	9.5	0.38	16.9	0.66	235	3400	940	13600	63	2.48	0.22	0.15
GH681-8	12	12.7	0.50	20.4	0.80	221	3200	883	12800	90	3.54	0.29	0.20
GH681-10	16	15.9	0.63	23.0	0.91	140	2025	559	8100	100	3.94	0.28	0.19
GH681-12	19	19.0	0.75	26.7	1.05	138	2000	552	8000	120	4.72	0.37	0.25
GH681-16	25	25.4	1.00	34.9	1.37	103	1500	414	6000	150	5.91	0.54	0.36
GH681-20	31	31.8	1.25	42.3	1.67	69	1000	276	4000	210	8.27	0.68	0.45
GH681-24	38	38.1	1.50	48.9	1.93	52	750	207	3000	250	9.84	0.80	0.54
GH681-32	51	50.8	2.00	65.5	2.58	41	600	166	2400	315	12.40	1.29	0.87

### Construction

- Synthetic rubber tube
- One wire braid reinforcement
- Duratuff cover
- Ink transfer layline

### Operating temperature

-46°C to +126°C  
(-50°F to +260°F)

### Agency listings

MSHA approved

### Application

- Low & medium pressure hydraulic systems
- Petroleum & water-based fluids
- Construction equipment
- Agriculture equipment

### Approved fittings

- TTC series