

# Triple Crown

- Higher Pressures
- Improved Temperatures
- Improved Abrasion Resistance



## Triple Crown

- Pressure
- Temperature
- Abrasion Resistance



*Powering Business Worldwide*

# Eaton Aeroquip® Triple Crown

Better in every way that matters



#### Triple Crown

- Pressure
- Temperature
- Abrasion Resistance

Eaton engineering does it again. Select Aeroquip hydraulic hoses, including new MatchMate® Global hoses, offer distinct advantages in three key areas.

1

#### Pressure

Designed for higher working pressures to provide higher performance levels.

+

2

#### Temperature

Improved working temperatures provide higher performance levels.

+

3

#### Abrasion Resistance

Aeroquip DURA-TUFF™ cover - made for longer service life than traditional rubber covered hose

=

Aeroquip  
Triple Crown

Our customers work in some of the most demanding industries, such as construction, refuse, agriculture, mining, and oil and gas. Their applications challenge the strength and durability of even the toughest components.

Select Aeroquip hydraulic hoses, including new MatchMate® Global hoses and FC254 hose, feature improved hose construction technologies such as; improved wire reinforcement designs and processing, new insulation materials, and improved hose manufacturing processes. Aeroquip Triple Crown means higher pressure ratings, improved working temperatures, and better abrasion resistance leading to longer hose life in applications requiring higher levels of performance.

For hydraulic hoses that deliver under pressure—and heat and abrasion—turn to Eaton's Aeroquip products.

# Raise Your Standards with Eaton's Aeroquip MatchMate Global Hose with the Triple Crown

Our improved designs have enabled us to increase pressures on select Aeroquip hose styles by an average of 24% over the competition.

Improvements in higher hose operating temperatures are the direct result of Eaton's advancements in rubber technology. Eaton now has the highest temperature ratings compared to similar competitive products designed to meet EN specifications. Select Aeroquip braided and spiral hose part numbers now meet -40°C to +127°C (-40°F to +260°F).

Aeroquip DURA-TUFF™ cover for better abrasion. **More resistant than the traditional rubber covers.**

## Benefits to you...

- Higher pressures and temperatures can extend the life of a hydraulic hose in a typical application.
- Hose products to meet market needs with a better long-term value.
- Meet the requirements of today's higher pressure hydraulic systems being introduced into the market.

## Some highlights of these hose products include:



### GH663

1-Wire Braided Construction  
Exceeds EN853 Type 1SN requirements  
Exceeds SAE 100R1AT Type S requirements  
Qualified fitting: TTC Series (non-skive) and global braided (skive) nipples with 1SA sockets  
DURA-TUFF abrasion resistant cover  
1/2 SAE minimum bend radius

### GH793

2-Wire Braided Construction  
Exceeds EN853 Type 2SN requirements  
Exceeds SAE 100RAT Type S requirements  
Qualified fitting: TTC Series (non-skive) and global braided (skive) nipples with 1SB sockets  
DURA-TUFF abrasion resistant cover

### GH120

2-Wire Braided Construction  
Exceeds EN857 Type 2SC performance  
Exceeds SAE 100R16 Type S low temperature performance -57°C to +100°C (-70°F to +212°F)  
Qualified fitting: TTC Series (non-skive) and global braided (skive) nipples with 1SB sockets  
DURA-TUFF abrasion resistant cover  
1/2 SAE minimum bend radius

### GH493

4-Wire Spiral Construction  
Exceeds SAE 100R12 requirements and meets EN856 Type 4SP performance in sizes -8 thru -16  
Qualified Fitting: TTC12 Series  
DURA-TUFF abrasion resistant cover  
1/2 SAE minimum bend radius

### GH781

2-Wire Braided Construction  
Exceeds EN857 Type 2SC requirements  
Exceeds SAE 100R16 Type S requirements  
Qualified fitting: TTC Series (non-skive) and global braided (skive) nipples with 1SB sockets  
DURA-TUFF abrasion resistant cover  
1/2 SAE minimum bend radius

### FC254

4-Wire Heavy Spiral Construction  
Exceeds EN856 Type 4SH performance  
Exceeds SAE 100R11 performance  
Qualified fitting: Global Spiral TTC & ISC  
DURA-TUFF abrasion resistant cover

## GH663 MatchMate Global™

1/2 SAE Bend Radius

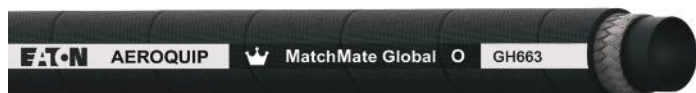
Meets and exceeds

SAE 100R1AT Type S, EN853 1SN, ISO 1436-1 Type 1SN



**Triple Crown**

- Pressure
- Temperature
- Abrasion Resistance



# Part No.	DN	Hose I.D.		Hose O.D.		Max Operating Pressure		Burst Pressure		Minimum Bend Radius		Weight	
		mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
GH663-4	6	6,4	0.25	13,5	0.53	255	3700	1020	14800	51,0	2.00	0,24	0.16
GH663-6	10	9,7	0.38	17,5	0.69	235	3400	940	13600	62,5	2.50	0,37	0.25
GH663-8	12	12,7	0.50	20,6	0.81	200	2900	800	11600	90,0	3.50	0,45	0.30
GH663-12	19	19,1	0.75	27,8	1.09	138	2000	552	8000	120,3	4.75	0,67	0.45
GH663-16	25	25,4	1.00	35,8	1.41	103	1500	412	6000	150,8	6.00	1,01	0.68
GH663-20	31	31,8	1.25	43,4	1.71	69	1000	276	4000	210,1	8.25	1,31	0.88
GH663-24	38	38,1	1.50	50,6	1.99	52	750	208	3000	250,0	10.00	1,56	1.05
GH663-32	51	50,8	2.00	64,0	2.52	41	600	164	2400	315,0	12.50	1,95	1.31

**Construction:**

**Tube:** Synthetic rubber tube

**Reinfortment:** Single wire braid

**Cover:** DURA-TUFF™ synthetic rubber

**Operating Temperature:**

-40°C to +127°C

(-40°F to +260°F)

**Application:**

- Hydraulic system service with petroleum and water-based fluids, for general industrial service.

**Qualified Fittings:**

TTC Series (non-skive) and Global Braided (skive) nipples with 1SA sockets

**MSHA Accepted ISO 1436a Marine Application J1942/1 Hydraulic Service**

## GH120 MatchMate ICE™

Cold Temperature Applications

Meets and exceeds

SAE 100R16 Type S, EN857 Type 2SC Performance



# Part No.	DN	Hose I.D.		Hose O.D.		Max Operating Pressure		Burst Pressure		Minimum Bend Radius		Weight	
		mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
GH120-4	6	6,4	0.25	14,2	0.56	414	6000	1656	24000	50,8	2.00	0,30	0.20
GH120-6	10	9,7	0.38	17,3	0.68	345	5000	1380	20000	63,5	2.50	0,40	0.27
GH120-8	12	12,7	0.50	20,8	0.82	310	4500	1240	18000	88,9	3.50	0,58	0.39
GH120-10	16	16,0	0.63	24,9	0.98	276	4000	1104	16000	101,6	4.00	0,74	0.50
GH120-12	19	19,1	0.75	28,4	1.12	241	3500	964	14000	120,7	4.75	0,92	0.62
GH120-16	25	25,4	1.00	35,8	1.41	193	2800	772	11200	152,4	6.00	1,22	0.82
GH120-20	31	31,8	1.25	43,4	1.71	159	2300	636	9200	209,6	8.25	1,60	1.07
GH120-24	38	38,1	1.50	51,6	2.03	138	2000	552	8000	254,0	10.00	2,11	1.42
GH120-32	51	50,8	2.00	63,8	2.51	103	1500	412	6000	317,5	12.50	2,80	1.88

**Construction:**

**Tube:** Aeroquip brand exclusive low temperature compound

**Reinfortment:** Double wire braid

**Cover:** DURA-TUFF™ synthetic rubber

**Operating Temperature:**

-57°C to +100°C

(-70°F to +212°F)

**Application:**

- Low temperature flexing and hydraulic system service with petroleum and water-base fluids. For use in frigid environments on construction equipment and other mobile applications.

**Qualified Fittings:**

TTC Series (non-skive) and Global Braided (skive) nipples\* with 1SB sockets

\*-04 thru -20 only

## GH781 MatchMate Global™

Meets and exceeds  
SAE 100R16 Type S, EN857 2SC, ISO 11237-1 Type 2SC



**Triple Crown**

- Pressure
- Temperature
- Abrasion Resistance



# Part No.	DN	Hose I.D.		Hose O.D.		Max Operating Pressure		Burst Pressure		Minimum Bend Radius		Weight	
		mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
GH781-4	6	6,4	0.25	13,5	0.53	448	6500	1792	26000	50,8	2.00	0,33	0.22
GH781-6	10	9,7	0.38	17,5	0.69	366	5300	1464	21200	63,5	2.50	0,43	0.29
GH781-8	12	12,7	0.50	20,6	0.81	310	4500	1240	18000	88,9	3.50	0,58	0.39
GH781-10	16	15,9	0.63	23,6	0.93	276	4000	1104	16000	101,6	4.00	0,65	0.44
GH781-12	19	19,1	0.75	27,9	1.10	241	3500	964	14000	120,7	4.75	0,79	0.53
GH781-16	25	25,4	1.00	36,1	1.42	207	3000	828	12000	152,4	6.00	1,07	0.72
GH781-20	31	31,8	1.25	41,9	1.65	172	2500	688	10000	209,6	8.25	1,62	1.09
GH781-24	38	38,1	1.50	51,6	2.03	138	2000	552	8000	254,0	10.00	2,08	1.40
GH781-32	51	50,8	2.00	64,3	2.53	110	1600	440	6400	317,5	12.50	2,83	1.90

**Construction:**

Meets or exceeds EN requirements at 1/2 SAE Bend Radius.

**Tube:** Synthetic rubber

**Reinfortment:** Double wire braid

**Cover:** DURA-TUFF™ synthetic rubber

**Operating Temperature:**

-40°C to +127°C  
(-40°F to +260°F)

**Application:**

- Hydraulic system service with petroleum and water-based fluids, for general industrial service.

**Qualified Fittings:**

TTC Series (non-skive) and Global Braided (skive) nipples with 1SB sockets

## GH793 MatchMate Global™

Meets and exceeds  
SAE 100R2AT Type S, EN853 2SN, ISO 1436-1 Type 2SN



# Part No.	DN	Hose I.D.		Hose O.D.		Max Operating Pressure		Burst Pressure		Minimum Bend Radius		Weight	
		mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
GH793-4	6	6,4	0.25	15,2	0.60	448	6500	1792	26000	101,6	4	0,39	0.26
GH793-6	10	9,7	0.38	19,1	0.75	400	5800	1600	23000	127,0	5	0,57	0.38
GH793-8	12	12,7	0.50	22,1	0.87	345	5000	1380	20000	177,8	7	0,68	0.46
GH793-10	16	16,0	0.63	24,9	0.98	276	4000	1104	16000	203,2	8	0,80	0.54
GH793-12	19	19,1	0.75	29,5	1.16	241	3500	964	14000	241,3	9.5	0,98	0.66
GH793-16	25	25,4	1.00	38,1	1.50	207	3000	828	12000	304,8	12	1,50	1.01
GH793-20	31	31,8	1.25	48,8	1.92	172	2500	688	10000	419,1	16.5	2,29	1.54
GH793-24	38	38,1	1.50	54,6	2.15	138	2000	552	8000	508,0	20	2,50	1.68
GH793-32	51	50,8	2.00	63,8	2.51	110	1600	440	6400	635,0	25	3,30	2.22

**Construction:**

**Tube:** Synthetic rubber

**Reinfortment:** Double wire braid

**Cover:** DURA-TUFF™ synthetic rubber

**Operating Temperature:**

-57°C to +100°C  
(-70°F to +212°F)

**Application:**

- Hydraulic system service with petroleum and water-based fluids, for general industrial service.

**Qualified Fittings:**

TTC Series (non-skive) and Global Braided (skive) nipples with 1SB sockets

**MSHA Accepted  
Marine Application J1942/1 -  
Hydraulic only**

# GH493 MatchMate Global™

1/2 SAE Bend Radius

Meets and exceeds

SAE 100R12, EN856 Type R12, EN856 4SP Performance (-8 thru -16)



**Triple Crown**

- Pressure
- Temperature
- Abrasion Resistance



# Part No.	DN	Hose I.D.		Hose O.D.		Max Operating Pressure		Burst Pressure		Minimum Bend Radius		Weight	
		mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
GH493-6	10	9,7	0.38	20,1	0.79	448	6500	1792	26000	62,5	2.50	0,70	0.47
GH493-8	12	12,7	0.50	23,4	0.92	415	6000	1660	24000	90,0	3.50	0,88	0.59
GH493-10	16	16,0	0.63	28,2	1.11	415	6000	1660	24000	100,0	4.00	1,03	0.69
GH493-12	19	19,1	0.75	30,5	1.20	380	5500	1520	22000	120,0	4.75	1,37	0.92
GH493-16	25	25,4	1.00	37,6	1.48	350	5100	1400	20400	150,0	6.00	1,82	1.22
GH493-20	31	31,8	1.25	46,5	1.83	310	4500	1240	18000	210,0	8.25	2,44	1.64
GH493-24	38	38,1	1.50	53,8	2.12	275	4000	1100	16000	250,0	10.00	3,12	2.10
GH493-32	51	50,8	2.00	67,1	2.64	275	4000	1100	16000	320,0	12.50	4,18	2.81

**Construction:**

**Tube:** Synthetic rubber

**Reinforcement:** 4-spiral wire

**Cover:** DURA-TUFF™ synthetic rubber

**Operating Temperature:**

-40°C to +127°C  
(-40°F to +260°F)

**Application:**

- Hydraulic system service with petroleum and water-based fluids, for general industrial service.

**Qualified Fittings:**

TTC12 Series

**MSHA Accepted  
Marine Application J1942/1  
Hydraulic Only, ABS**

## FC254 Very High Pressure Hose

Meets and exceeds

SAE 100R11, EN856 4SP Performance



### Triple Crown

- Pressure
- Temperature
- Abrasion Resistance



# Part No.	DN	Hose I.D.		Hose O.D.		Max Operating Pressure		Burst Pressure		Minimum Bend Radius		Weight	
		mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
FC254-08*	12	12,7	0.50	24,9	0.98	5300	7700	21200	30800	203,2	8.00	0,70	0.47
FC254-12	19	19,1	0.75	32,0	1.26	4970	7200	19880	28800	279,4	11.00	0,88	0.59
FC254-16	25	25,4	1.00	38,6	1.52	4150	6000	16600	24000	304,8	12.00	1,03	0.69
FC254-20	31	31,8	1.25	45,7	1.80	3500	5100	14000	20400	419,1	17.00	1,37	0.92
FC254-24	38	38,1	1.50	54,1	2.13	3000	4350	12000	17400	508,0	20.00	1,82	1.22
FC254-32	51	50,8	2.00	68,1	2.68	2750	4000	11000	16000	635,0	25.00	2,44	1.64

\* Available with BRUISER cover as FC854-08.

#### Construction:

**Tube:** Synthetic rubber

**Reinforcement:** 4-heavy spiral wire

**Cover:** DURA-TUFF™ synthetic rubber

#### Operating Temperature:

-40°C to +127°C

(-40°F to +260°F)

#### Application:

- Hydraulic system service with petroleum and water-based fluids, for general industrial service.

#### Qualified Fittings:

Global Spiral TTC & ISC

Eaton  
Hydraulics Group USA  
14615 Lone Oak Road  
Eden Prairie, MN 55344  
USA  
Tel: 952-937-9800  
Fax: 952-294-7722  
[www.eaton.com/hydraulics](http://www.eaton.com/hydraulics)

Eaton  
Hydraulics Group Europe  
Route de la Longeraie 7  
1110 Morges  
Switzerland  
Tel: +41 (0) 21 811 4600  
Fax: +41 (0) 21 811 4601

Eaton  
Hydraulics Group Asia Pacific  
Eaton Building  
No.7 Lane 280 Linhong Road  
Changning District,  
Shanghai 200335  
China  
Tel: (+86 21) 5200 0099  
Fax: (+86 21) 2230 7240