

Eaton Aeroquip® Triple Crown

GH120
GH663

GH781
GH793

GH493
FC254

Triple Crown

- Higher Pressures
- Improved Temperatures
- Improved Abrasion Resistance



Triple Crown

- Pressure
- Temperature
- Abrasion Resistance

EATON

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

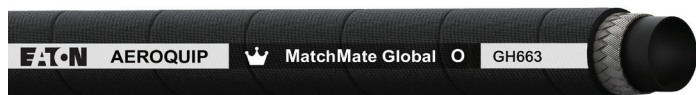
Meets and exceeds

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)
- 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	530	7700	21200	30800	203,2	8.00	0,70	0.47
FC254-12	19	19,1	0.75	32,0	1.26	497	7200	19880	28800	279,4	11.00	0,88	0.59
FC254-16	25	25,4	1.00	38,6	1.52	415	6000	16600	24000	304,8	12.00	1,03	0.69
FC254-20	31	31,8	1.25	45,7	1.80	350	5100	14000	20400	419,1	17.00	1,37	0.92
FC254-24	38	38,1	1.50	54,1	2.13	300	4350	12000	17400	508,0	20.00	1,82	1.22
FC254-32	51	50,8	2.00	68,1	2.68	275	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

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