

Success made simple.

The new standard for hydraulic
hose and fittings.

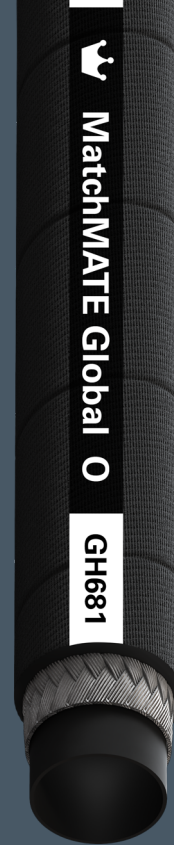


Powering Business Worldwide


Sometimes less is more.

Fewer products, smarter choices.

Eaton is taking a new approach to helping you succeed by reducing the complexity of our hydraulics hose and fittings product offering, while developing new, more intuitive ways to help you find the right product fast. We know that your workforce demographics, regulatory environment and global economics require a new approach, and we're proactively leading the charge with a smaller—but smarter—hydraulics offering to help you spend less time combing through product options and more time competing in expanded markets, improving responsiveness, and closing new business.




















Premium

Our new core premium hoses for OEM or aftermarket use exceed industry standards for pressure, temperature and abrasion resistance, with options adapted to handle your toughest jobs. Look for  Triple Crown hoses for the highest pressure and temperature ratings to extend the life of your hose.

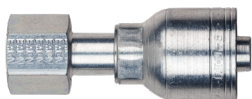
Standard

Eaton Winner[®] hoses meet all industry standards for pressure, temperature and abrasion resistance, offering the right product at a competitive price point for OEM markets.



	Premium	Premium Low Temp.	Premium High Temp.	Premium Abrasion	Standard
Operating Temperature Range	 High: 260°F Low: -40°F	 High: 212°F Low: -70°F	 High: 302°F Low: -40°F	 High: 212°F Low: -40°F	 High: 212°F Low: -40°F
Cover Abrasion Resistance	 DURA-TUFF™ Coverings (8x greater than standard)			 BRUISER Coverings (700x greater than standard)	 Standard Abrasion (10,000 Cycles per ISO 6945)
Bend Radius	 1/2 bend	 1/2 bend	 Full bend	 1/2 bend	 1/2 bend
Impulse Life	 Eaton Premium: All premium hoses exceed industry specifications for impulse cycles.				 Eaton Standard
Fluid Compatibility and Rubber Compounding	 Eaton Premium				 Eaton Standard
Certifications	SAE EN ISO Customer specs U.S. Coast Guard	SAE EN MSHA Customer specs	SAE EN Customer specs U.S. Coast Guard	SAE EN Customer specs	SAE EN MSHA Customer specs

Fittings



TTC Series

Eaton's best-selling one-piece "Bite-the-wire" style hose fitting that is qualified with virtually all Aeroquip one and two wire braided hydraulic hoses.



4S/6S Spiral Series

A higher performing spiral hose assembly for the most demanding applications while using a simple more user-friendly hose and hose fitting assembly process. Industry leading class "0" cool-down leakage and higher operating performance.



Two-piece Winner

A competitive non-skive two-piece hose fitting that is qualified with the Eaton Winner standard hoses.

1-Wire Braided

Premium

GH681 Hydraulic Hose



Exceeds SAE 100R1 AT Type S, EN 857 1SC, ISO 1436-1 Type 1SC Performance



Triple Crown

- Pressure
- Temperature
- Abrasion Resistance

Inner Tube:

Synthetic rubber tube

Reinforcement:

1 steel braid

Cover:

DURA-TUFF™ synthetic rubber

Typical Application:

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

MSHA Approved

Part #	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
GH681-4	6.4	0.25	12.9	0.51	255	3,700	1,020	14,800	50	1.97	0.14	0.09
GH681-6	9.5	0.38	16.3	0.64	235	3,400	940	13,600	63	2.48	0.22	0.15
GH681-8	12.7	0.50	19.9	0.78	221	3,200	883	12,800	90	3.54	0.29	0.20
GH681-10	15.9	0.63	22.3	0.88	140	2,025	559	8,100	100	3.94	0.28	0.19
GH681-12	19.0	0.75	26.0	1.02	138	2,000	552	8,000	120	4.72	0.37	0.25
GH681-16	25.4	1.00	34.0	1.34	103	1,500	414	6,000	150	5.91	0.54	0.36
GH681-20	31.8	1.25	41.5	1.63	69	1,000	276	4,000	210	8.27	0.68	0.45
GH681-24	38.1	1.50	47.9	1.89	52	750	207	3,000	250	9.84	0.80	0.54
GH681-32	50.8	2.00	64.0	2.52	41	600	166	2,400	315	12.40	1.29	0.87

Operating Temperature:

-46°C to +127°C (-50°F to +260°F)

Fittings:



Standard

EC115 Hydraulic Hose



Meets EN 857 Type 1SC

Inner Tube:

Synthetic rubber tube

Reinforcement:

1 steel braid

Cover:

Synthetic rubber cover

Typical Application:

Hydraulic system service with petroleum and waterbased fluids, for general industrial service.

MSHA Approved

Part #	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
EC115-04	6.4	0.25	12.6	0.50	225	3,250	900	13,000	50	1.97	0.18	0.12
EC115-06	9.5	0.38	16.0	0.63	180	2,600	720	10,400	63	2.48	0.26	0.17
EC115-08	12.7	0.50	19.4	0.77	160	2,300	640	9,200	90	3.54	0.34	0.23
EC115-10	15.9	0.62	22.4	0.88	130	1,900	520	7,600	100	3.94	0.42	0.28
EC115-12	19.0	0.75	26.0	1.02	105	1,525	420	6,100	120	4.72	0.50	0.34
EC115-16	25.4	1.00	33.8	1.33	88	1,275	352	5,100	160	6.30	0.74	0.50
EC115-20	31.8	1.25	41.2	1.62	63	925	252	3,700	210	8.27	0.99	0.67
EC115-24	38.1	1.50	48.0	1.89	50	725	200	2,900	300	11.81	1.20	0.81
EC115-32	50.8	2.00	61.0	2.41	40	580	160	2,320	400	15.75	1.50	1.01

Operating Temperature :

-40°C to +100°C (-40°F to +212°F)

Fittings:



Premium High Temp.
GH194 AQP
 HI-IMPULSE® MATCHMATE
 BLUE Hydraulic Hose



Exceeds SAE 100R1 AT Type S, EN 853 1SN, ISO 1436-1 Type 1SN Performance

Part #	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
GH194-4	6.4	0.25	13.5	0.53	225	3,250	900	13,000	100	4.00	0.25	0.17
GH194-6	9.7	0.38	17.5	0.69	215	3,125	860	12,500	125	5.00	0.37	0.25
GH194-8	12.7	0.50	20.6	0.81	175	2,550	700	10,200	180	7.00	0.45	0.30
GH194-10	16.0	0.63	23.9	0.94	140	2,050	560	8,200	205	8.00	0.54	0.36
GH194-12	19.1	0.75	27.7	1.09	125	1,800	500	7,200	240	9.50	0.68	0.46
GH194-16	25.4	1.00	35.8	1.41	90	1,300	360	5,200	300	12.00	0.98	0.66
GH194-20	31.8	1.25	43.9	1.73	65	950	260	3,800	420	16.50	1.26	0.85
GH194-24	38.1	1.50	50.6	1.99	50	725	200	2,900	500	19.69	1.58	1.06
GH194-32	50.8	2.00	64.0	2.52	40	580	160	2,320	630	24.80	2.04	1.37

Operating Temperature:

-40°C to +150°C (-40°F to +302°F)

Fittings:



Inner Tube:

AQP elastomer tube

Reinforcement:

1 steel braid

Cover:

Blue AQP elastomer cover

Typical Application:

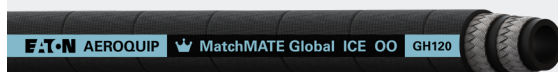
Petroleum and fire-resistant hydraulic fluids, fuel and lubricating oils, gasoline, water and other industrial fluids.

MSHA Approved

Premium Low Temp.

Use compatible 2-Wire Braided Premium Low Temperature hose

GH120 MatchMate ICE™ Hydraulic Hose



Exceeds SAE 100R16 Type S, EN 857 Type 2SC, ISO 11237-1 Type 2SC Performance

Full specs on page 7

Premium Abrasion
FC839B BRUISER
 Ultra-abrasion Resistant Cover
 3000 PSI Constant Pressure



Exceeds SAE 100R17 Performance

Part #	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
FC839B-04	6.4	0.25	12.7	0.50	210	3,050	840	12,200	50	1.97	0.22	0.15
FC839B-06	9.5	0.38	16.6	0.65	210	3,050	840	12,200	65	2.56	0.34	0.23
FC839B-08	12.7	0.50	20.9	0.82	210	3,050	840	12,200	90	3.54	0.48	0.32
FC839B-10	16.0	0.63	24.9	0.98	210	3,050	840	12,200	100	3.94	0.71	0.48
FC839B-12	19.1	0.75	28.5	1.12	210	3,050	840	12,200	120	4.72	0.89	0.60
FC839B-16	25.4	1.00	37.1	1.46	210	3,050	840	12,200	150	5.91	1.43	0.96

Operating Temperature:

-40°C to +100°C (-40°F to +212°F)

Fittings:



Inner Tube:

Synthetic rubber tube

Reinforcement:

4 to 8 size: 1 steel braid
10 to 16 size: 2 steel braids

Cover:

Synthetic rubber intermediate cover and BRUISER outer cover

Typical Application:

High abrasion industrial and hydraulic system applications with petroleum and water-based fluids. Recommended for use on critical applications in construction, forestry, and other off-highway vehicles. BRUISER outer cover offers unmatched abrasion, chemical, and environmental protection.

2-Wire Braided

Premium

GH781 MatchMate Global™ Hydraulic Hose



Triple Crown

- Pressure
- Temperature
- Abrasion Resistance



Exceeds SAE 100R16 Type S, EN 857 Type 2SC, ISO 11237-1 Type 2SC Performance

Part #	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
GH781-4	6.4	0.25	14.1	0.56	448	6,500	1,792	26,000	50	1.97	0.33	0.22
GH781-6	9.5	0.38	17.4	0.69	400	5,800	1,600	23,200	65	2.56	0.43	0.29
GH781-8	12.7	0.50	20.8	0.82	345	5,000	1,380	20,000	90	3.54	0.58	0.39
GH781-10	15.9	0.62	24.9	0.98	276	4,000	1,104	16,000	100	3.94	0.65	0.44
GH781-12	19.0	0.75	28.4	1.12	241	3,500	964	14,000	120	4.72	0.79	0.53
GH781-16	25.4	1.00	35.7	1.41	207	3,000	828	12,000	150	5.91	1.07	0.72
GH781-20	31.8	1.25	43.3	1.71	172	2,500	688	10,000	210	8.27	1.62	1.09
GH781-24	38.1	1.50	51.5	2.03	138	2,000	552	8,000	250	9.84	2.08	1.40
GH781-32	50.8	2.00	63.9	2.52	110	1,600	440	6,400	315	12.40	2.82	1.90

Operating Temperature:

-46°C to +127°C (-50°F to +260°F)

Fittings:



Standard

EC215 Hydraulic Hose



Meets EN 857 Type 2SC

Part #	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
EC215-04	6.4	0.25	13.5	0.53	400	5,800	1,600	23,200	50	1.97	0.28	0.19
EC215-06	9.5	0.38	17.5	0.69	330	4,800	1,320	19,200	65	2.56	0.41	0.28
EC215-08	12.7	0.50	20.8	0.82	275	4,000	1,100	16,000	90	3.54	0.57	0.38
EC215-10	15.9	0.62	24.0	0.94	250	3,650	1,000	14,600	100	3.94	0.68	0.46
EC215-12	19.0	0.75	27.9	1.10	215	3,125	860	12,500	120	4.72	0.81	0.54
EC215-16	25.4	1.00	35.7	1.40	165	2,400	660	9,600	160	6.30	1.17	0.79
EC215-20	31.8	1.25	43.9	1.73	125	1,800	500	7,200	250	9.84	1.56	1.05
EC215-24	38.1	1.50	51.0	2.01	100	1,450	400	5,800	300	11.81	1.81	1.22
EC215-32	50.8	2.00	63.4	2.50	90	1,300	360	5,200	400	15.75	2.36	1.59

Operating Temperature :

-40°C to +100°C (-40°F to +212°F)

Fittings:



Inner Tube:

Synthetic rubber tube

Reinforcement:

2 steel braids

Cover:

DURA-TUFF™ synthetic rubber

Typical Application:

Low & medium pressure hydraulic systems, petroleum & water-based fluids, Construction equipment, Agriculture equipment.

MSHA Approved

Inner Tube:

Synthetic rubber tube

Reinforcement:

2 steel braids

Cover:

Synthetic rubber cover

Typical Application:

Hydraulic system service with petroleum and waterbased fluids, for general industrial service.

MSHA Approved

Premium High Temp. GH195 AQP HI-IMPULSE® MATCH MATE BLUE Hydraulic Hose

Exceeds SAE 100R2AT Type S, EN 853 2SN, ISO 1436-1 Type 2SN Performance



Part #	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
GH195-4	6.4	0.25	15.2	0.60	400	5,800	1,600	23,200	102	4.02	0.40	0.27
GH195-6	9.7	0.38	19.1	0.75	345	5,000	1,380	20,000	125	4.92	0.60	0.39
GH195-8	12.7	0.50	22.1	0.87	293	4,250	1,172	17,000	180	7.09	0.68	0.46
GH195-10	16.0	0.63	25.2	0.99	250	3,650	1,000	14,600	205	8.07	0.80	0.54
GH195-12	19.1	0.75	29.5	1.16	215	3,125	860	12,500	240	9.45	1.00	0.67
GH195-16	25.4	1.00	37.9	1.49	175	2,550	700	10,200	300	11.81	1.44	0.97
GH195-20	31.8	1.25	48.8	1.92	155	2,250	620	9,000	420	16.54	2.39	1.60
GH195-24	38.1	1.50	54.6	2.15	125	1,800	500	7,200	500	19.68	2.60	1.74
GH195-32	50.8	2.00	67.8	2.67	105	1,525	420	6,100	630	24.80	3.38	2.27

Operating Temperature:

-40°C to +150°C (-40°F to +302°F)

Fittings:



Premium Low Temp. GH120 MatchMate ICE™ Hydraulic Hose

Exceeds SAE 100R16 Type S, EN 857 Type 2SC, ISO 11237-1 Type 2SC Performance



Part #	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
GH120-4	6.4	0.25	14.2	0.56	414	6,000	1656	24,000	50.8	2.00	0.30	0.20
GH120-6	9.7	0.38	17.3	0.68	345	5,000	1380	20,000	63.5	2.50	0.40	0.27
GH120-8	12.7	0.50	20.8	0.82	310	4,500	1240	18,000	88.9	3.50	0.58	0.39
GH120-10	15.9	0.63	24.9	0.98	276	4,000	1104	16,000	101.6	4.00	0.74	0.50
GH120-12	19.1	0.75	28.4	1.12	241	3,500	964	14,000	120.7	4.75	0.92	0.62
GH120-16	25.4	1.00	35.8	1.41	193	2,800	772	11,200	152.4	6.00	1.22	0.82
GH120-20	31.8	1.25	43.4	1.71	159	2,300	636	9,200	209.6	8.25	1.60	1.07
GH120-24	38.1	1.50	51.6	2.03	138	2,000	552	8,000	254.0	10.00	2.11	1.42
GH120-32	50.8	2.00	63.8	2.51	103	1,500	412	6,000	317.5	12.50	2.80	1.88

Operating Temperature:

-57°C to +100°C (-70°F to +212°F)

Triple Crown

- Pressure
- Temperature
- Abrasion Resistance

Fittings:



Premium Abrasion FC735 BRUISER Ultra-abrasion Resistant Hydraulic Hose

Exceeds SAE 100R16 Type S, EN 857 Type 2SC, ISO 11237-1 Type 2SC Performance



Part #	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
FC735-04	6.4	0.25	13.5	0.53	400	5,800	1,600	23,200	50.8	2.00	0.33	0.22
FC735-06	9.5	0.38	17.5	0.69	366	5,300	1,464	21,200	63.5	2.50	0.43	0.29
FC735-08	12.7	0.50	20.6	0.81	295	4,275	1,180	17,100	88.9	3.50	0.58	0.39
FC735-10	15.9	0.63	23.6	0.93	275	4,000	1,100	16,000	101.6	4.00	0.65	0.44
FC735-12	19.1	0.75	27.9	1.10	215	3,125	860	12,500	120.7	4.75	0.79	0.53
FC735-16	25.4	1.00	36.1	1.42	175	2,550	700	10,200	152.4	6.00	1.07	0.72
FC735-20	31.8	1.25	43.2	1.70	155	2,250	620	9,000	209.6	8.25	1.62	1.09

Operating Temperature:

-40°C to +100°C (-40°F to +212°F)

Fittings:



Inner Tube:

AQP elastomer tube

Reinforcement:

2 steel braids

Cover:

Blue AQP elastomer cover

Typical Application:

Petroleum and fire-resistant hydraulic fluids, fuel and lubricating systems.

MSHA Approved

Inner Tube:

Aeroquip brand exclusive low temperature compound

Reinforcement:

2 steel braids

Cover:

DURA-TUFF™ synthetic rubber

Typical 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.

MSHA Approved

Inner Tube:

Synthetic rubber tube

Reinforcement:

2 steel braids

Cover:

Synthetic rubber intermediate cover, and BRUISER outer cover

Typical Application:

High abrasion applications. Hydraulic system service with petroleum and water-base fluids, for general industrial service.

Premium

GH493 MatchMate Global™ Hydraulic Hose



Triple Crown

- Pressure
- Temperature
- Abrasion Resistance



Exceeds SAE 100R12, EN 856 Type R12, EN 856 Type 4SP Performance

Part #	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
GH493-6	9.5	0.38	20.1	0.79	448	6,500	1792	26,000	62.5	2.50	0.70	0.47
GH493-8	12.7	0.50	23.4	0.92	415	6,000	1660	24,000	90.0	3.50	0.88	0.59
GH493-10	15.9	0.63	28.2	1.11	415	6,000	1660	24,000	100.0	4.00	1.03	0.69
GH493-12	19.1	0.75	30.5	1.20	380	5,500	1520	22,000	120.0	4.75	1.37	0.92
GH493-16	25.4	1.00	37.6	1.48	350	5,100	1400	20,400	150.0	6.00	1.82	1.22
GH493-20	31.8	1.25	46.5	1.83	310	4,500	1240	18,000	210.0	8.25	2.44	1.64
GH493-24	38.1	1.50	53.8	2.12	275	4,000	1100	16,000	250.0	10.00	3.12	2.10
GH493-32	50.8	2.00	67.1	2.64	275	4,000	1100	16,000	320.0	12.50	4.18	2.81

Operating Temperature:

-40°C to +127°C (-40°F to +260°F)

Fittings:



4S/6S Series

Inner Tube:

Synthetic rubber tube

Reinforcement:

4 wire spiral

Cover:

DURA-TUFF™ synthetic rubber cover

Typical Application:

For very high pressure hydraulic lines subjected to pressure surges and flexing. Typical applications include construction, mining, farming, and high performance industrial equipment.

MSHA Approved Marine Application J1942/1 - Hydraulic only, ABS

Standard

EC415 Hydraulic Hose



Meets SAE 100R12

Part #	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
EC415-06	9.5	0.38	20.3	0.80	280	4,050	1120	16,200	125	4.92	0.60	0.40
EC415-08	12.7	0.50	23.8	0.94	280	4,050	1120	16,200	180	7.09	0.74	0.50
EC415-10	15.9	0.62	27.7	1.09	280	4,050	1120	16,200	200	7.87	1.03	0.69
EC415-12	19.0	0.75	30.7	1.21	280	4,050	1120	16,200	240	9.45	1.16	0.78
EC415-16	25.4	1.00	38.0	1.50	280	4,050	1120	16,200	300	11.81	1.76	1.18
EC415-20	31.8	1.25	47.0	1.85	210	3,050	840	12,200	420	16.54	2.46	1.65
EC415-24	38.1	1.50	53.5	2.11	175	2,550	700	10,200	500	19.68	2.87	1.92
EC415-32	50.8	2.00	66.7	2.63	175	2,550	700	10,200	630	24.80	4.03	2.70

Operating Temperature:

-40°C to +121°C (-40°F to +250°F)

Fittings:



4S/6S Series

Inner Tube:

Synthetic rubber tube

Reinforcement:

4 wire spiral

Cover:

Synthetic rubber cover

Typical Application:

Hydraulic systems service with petroleum and water based fluids, for general use.

MSHA Approved

Premium High Temp.
EC525 AQP™ PLUS Hydraulic Hose
 Exceeds SAE 100R12, EN 856 Type R12 Performance



Inner Tube:
 AQP elastomer tube

Reinforcement:
 4 wire spiral

Cover:
 AQP elastomer cover

Typical Application:
 Hydraulic system service with petroleum, fire-resistant and water based fluids, fuel and lubricating systems.

MSHA Approved

Part #	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
EC525-12	19.1	0.75	30.7	1.21	345	5,000	1380	20,000	241.3	9.50	1.28	0.86
EC525-16	25.4	1.00	37.9	1.49	345	5,000	1380	20,000	304.8	12.00	1.73	1.16
EC525-20	31.8	1.25	46.6	1.84	240	3,500	960	14,000	419.1	16.50	2.30	1.55
EC525-24	38.1	1.50	53.9	2.12	240	3,500	960	14,000	508.0	20.00	2.95	1.99
EC525-32	50.8	2.00	67.3	2.65	225	3,250	900	13,000	635.0	25.00	4.40	2.97

Operating Temperature:
 -40°C to +149°C (-40°F to +300°F)



Premium Low Temp.

Use compatible Spiral R15 Premium Low Temperature hose

EC810 Hydraulic Hose

Exceeds SAE 100R15, EN 856 Type R15 Performance

Full specs on page 13

Premium Abrasion
FC736 BRUISER Ultra-abrasion resistant cover
 Exceeds SAE 100R12, EN 856 Type R12 Performance



Inner Tube:
 Synthetic rubber tube

Reinforcement:
 4 wire spiral

Cover:
 Synthetic rubber intermediate cover, and BRUISER outer cover

Typical Application:
 High abrasion industrial and hydraulic system applications with petroleum and water-based fluids. Recommended for use on critical applications in construction, forestry, and other off-highway vehicles. BRUISER outer cover offers unmatched abrasion, chemical and environmental protection.

Part #	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
FC736-06	9.7	0.38	20.1	0.79	380	5,500	1520	22,000	127.0	5.00	0.70	0.47
					280	4,061*	1120	16,244*				
FC736-08	12.7	0.50	23.4	0.92	345	5,000	1380	20,000	177.0	7.00	0.88	0.59
					280	4,061*	1120	16,244*				
FC736-10	16.0	0.63	28.2	1.11	345	5,000	1380	20,000	241.3	9.50	1.19	0.80
					280	4,061*	1120	16,244*				
FC736-12	19.1	0.75	30.5	1.20	280	4,050	1120	16,200	241.3	9.50	1.37	0.92
FC736-16	25.4	1.00	37.6	1.48	280	4,050	1120	16,200	304.8	12.00	1.82	1.22
FC736-20	31.8	1.25	46.5	1.83	210	3,050	840	12,200	419.1	16.50	2.44	1.64

*Pressure rating with reusable fittings

Operating Temperature:
 -40°C to +121°C (-40°F to +250°F)



Premium

FC500 Hydraulic Hose



Exceeds SAE 100R13, EN 856 Type R13, ISO 3862 Type R13 Performance

Part #	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
FC500-12	19.1	0.75	31.0	1.22	350	5,100	1400	20,400	121.0	4.75	1.24	0.84
FC500-16	25.4	1.00	38.4	1.51	350	5,100	1400	20,400	152.0	6.00	1.85	1.24
FC500-20	31.8	1.25	45.5	1.79	350	5,100	1400	20,400	210.0	8.25	2.52	1.69
FC500-24	38.1	1.50	53.5	2.11	350	5,100	1400	20,400	254.0	10.00	3.35	2.25
FC500-32	50.8	2.00	71.8	2.83	350	5,100	1400	20,400	476.0	18.75	6.05	4.06

Temp. Range:

-40°C to +127°C (-40°F to +260°F)

Fittings:



Inner Tube:

Synthetic rubber tube

Reinforcement:

4 wire spiral

Cover:

DURA-TUFF™ rubber cover

Typical Application:

High pressure hydraulic system service with petroleum and water-base fluids for low temperature applications.

MSHA Approved

Standard

EC420 Hydraulic Hose



Meets SAE 100R13

Part #	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
EC420-12	19.0	0.75	32.1	1.27	350	5,100	1,400	20,400	240	9.45	1.54	1.03
EC420-16	25.4	1.00	38.7	1.53	350	5,100	1,400	20,400	300	11.81	2.01	1.35
EC420-20	31.8	1.25	49.8	1.96	350	5,100	1,400	20,400	420	16.54	3.78	2.54
EC420-24	38.1	1.50	57.3	2.26	350	5,100	1,400	20,400	500	19.69	4.73	3.18
EC420-32	50.8	2.00	71.6	2.82	350	5,100	1,400	20,400	630	24.80	6.26	4.21

Operating Temperature :

-40°C to +121°C (-40°F to +250°F)

Fittings:



Inner Tube:

Synthetic rubber tube

Reinforcement:

-12, -16 size: 4 wire spiral
-20 to -32 size: 6 wire spiral

Cover:

Synthetic rubber cover

Typical Application:


Suitable for use in hydraulic systems with high peak pressures and arduous operating conditions.

MSHA Approved

Premium High Temp.

Use compatible Spiral R12 Premium High Temperature hose

EC525 AQP™ PLUS Hydraulic Hose



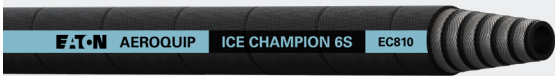
Full specs on page 9

Exceeds SAE 100R12, EN 856 Type R12 Performance

Premium Low Temp.

Use compatible Spiral R15 Premium Low Temperature hose

EC810 Hydraulic Hose



Full specs on page 13

Exceeds SAE 100R15, EN 856 Type R15 Performance

**Premium Abrasion
FC273B BRUISER
Ultra-abrasion resistant cover**



Exceeds SAE 100R13, EN 856 Type R13, ISO 3862 3862 Type R13 Performance

Part #	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
FC273B-12	19.1	0.75	32.1	1.26	350	5,100	1400	20,400	240.0	9.50	1.55	1.04
FC273B-16	25.4	1.00	38.7	1.53	350	5,100	1400	20,400	300.0	12.00	1.95	1.31
FC273B-20	31.8	1.25	50.3	1.98	350	5,100	1400	20,400	420.0	16.50	3.63	2.44
FC273B-24	38.1	1.50	57.7	2.27	350	5,100	1400	20,400	500.0	20.00	4.78	3.21
FC273B-32	50.8	2.00	71.8	2.83	350	5,100	1400	20,400	640.0	25.00	7.05	4.74

Operating Temperature:

-40°C to +121°C (-40°F to +250°F)

Fittings:



Inner Tube:

Synthetic rubber tube

Reinforcement:

4 wire spiral

Cover:

Synthetic rubber intermediate cover, and BRUISER outer cover

Typical Application:

High abrasion industrial and hydraulic system applications with petroleum and water-based fluids. Recommended for use on critical applications in construction, forestry, and other off-highway vehicles. BRUISER outer cover offers unmatched abrasion, chemical and environmental protection.

Premium

EC600 Hydraulic Hose



Exceeds SAE 100R15, ISO 18752-DC Performance

Part #	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
EC600-12	19.1	0.75	32.2	1.27	420	6,100	1,680	24,400	135	5.31	1.52	1.01
EC600-16	25.4	1.00	38.6	1.52	420	6,100	1,680	24,400	165	6.5	2.04	1.36
EC600-20	31.8	1.25	49.7	1.96	420	6,100	1,680	24,400	225	8.86	3.89	2.61

Temp. Range:

-40°C to +121°C (-40°F to +250°F)

Fittings:



4S/6S Series

Inner Tube:

Synthetic rubber tube

Reinforcement:

-12, -16 size: 4 wire spiral
-20 size: 6 wire spiral

Cover:

High abrasion resistant cover (DURA-TUFF™)

Typical Application:

High pressure hydraulic system service with petroleum and water-base fluids for low temperature applications.

MSHA Approved

Standard

EC615 Hydraulic Hose



SAE 100R15 Performance

Part #	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
EC615-16	25.4	1.00	38.7	1.52	420	6,100	1,680	24,400	330	12.99	2.00	1.35
EC615-20	31.8	1.25	49.8	1.96	420	6,100	1,680	24,400	445	17.52	3.77	2.53
EC615-24	38.1	1.50	57.3	2.26	420	6,100	1,680	24,400	530	20.87	5.17	3.47

Operating Temperature :

-40°C to +121°C (-40°F to +250°F)

Fittings:



4S/6S Series

Inner Tube:

Synthetic rubber tube

Reinforcement:

-16 size: 4 wire spiral
-20, -24 size: 6 wire spiral

Cover:

Synthetic rubber cover

Typical Application:


Suitable for use in hydraulic and oil systems.

MSHA Approved

Premium High Temp.

Use compatible Spiral R12 Premium High Temperature hose

EC525 AQP™ PLUS Hydraulic Hose

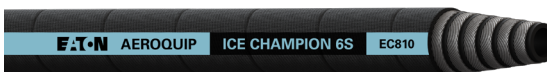


Exceeds SAE 100R12, EN 856 Type R12 Performance

Full specs on page 9

Premium Low Temp. EC810 Hydraulic Hose

Exceeds SAE 100R15, EN 856 Type R15 Performance



Inner Tube:

Exclusive Low Temperature Tube

Reinforcement:

-12, -16 size: 4 wire spiral
-20 to -32 size: 6 wire spiral

Cover:

MSHA approved abrasion resistant rubber cover

Typical Application:

Hydraulic system with petroleum based fluids for low temperature applications.

MSHA Approved

Part #	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
EC810-12	19.0	0.75	32.2	1.27	420	6,100	1,680	24,400	280	11.02	1.61	1.08
EC810-16	25.4	1.00	39.0	1.54	420	6,100	1,680	24,400	340	13.39	2.02	1.36
EC810-20	31.8	1.25	49.4	1.95	420	6,100	1,680	24,400	420	16.54	3.55	2.39
EC810-24	38.1	1.50	57.3	2.26	420	6,100	1,680	24,400	510	20.08	4.74	3.19
EC810-32	50.8	2.00	71.1	2.80	420	6,100	1,490	21,610	630	24.80	6.70	4.50

Operating Temperature :

-57°C to +100°C (-70°F to +212°F)

Fittings



4S/6S Series

Premium Abrasion

Use compatible Spiral R13 Premium Abrasion hose

FC273B BRUISER Ultra-abrasion resistant cover



Exceeds SAE 100R13, EN 856 Type R13, ISO 3862 3862 Type R13 Performance

Full specs on page 11

Braided Hose Fittings

Premium TTC Series



Features:

- New **DURA-KOTE™** plating technology for up to 1,000 hours of corrosion resistance
- Bite the wire technology for best in class connection and sealing
- Class zero leakage SAE J1176 on approved hose styles
- Over 550 TTC Series part numbers available
- Eaton's **MatchMate™** program provides identification markings on the hose, hose fittings, and crimp dies for quick and easy assembly

Standard Two-piece Winner



Features:

- Non-skive, two-piece crimp fitting
- One nipple part number for both EC115 & EC215 standard hoses
- Meets industry specifications when used with the EC115 & EC215 standard hoses
- Clear silver hexavalent chromium-free plating
- Carbon steel material

Spiral Hose Fittings

Premium 4S/6S Spiral Series



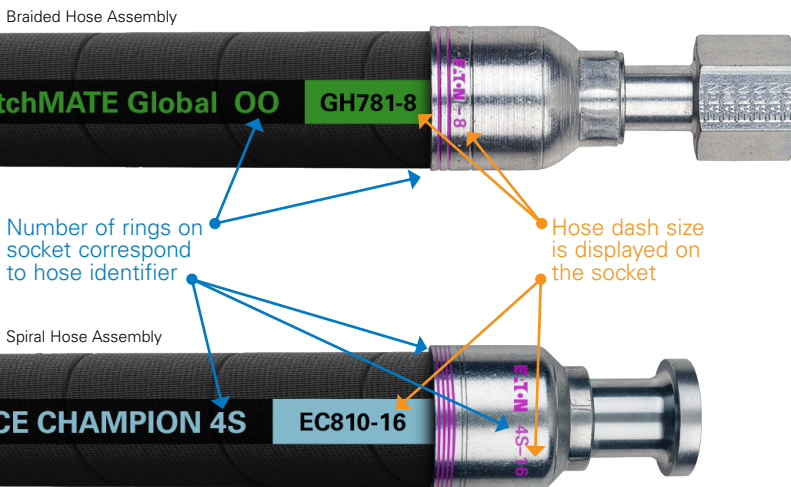
Features:

- New **DURA-KOTE™** plating technology for up to 1,000 hours of corrosion resistance
- New patent pending **DURA-SEAL™** technology to eliminate hose assembly cool-down leakage
- Class zero leakage SAE J1176 on approved hose styles
- Eaton's **MatchMate™** spiral - hose/fitting identification system program provides identification markings on the hose, hose fittings, and crimp dies for quick and easy assembly

Engineered Assemblies

Eaton's Aeroquip hoses and fittings are engineered and qualified to work as a system ensuring your confidence in a high quality hose assembly. The 4-Step **MatchMate™** system for braided and spiral hose assemblies ensures proper mating of hose and qualified fittings.

4 Step Hose Identification System



DURA-KOTE™ Plating Technology

Hose fittings that will now offer 3x the corrosion protection on carbon steel fittings as compared to competitive hose fittings. Eaton's DURA-KOTE fittings provide up to 1000 hours of corrosion protection. This is a huge step forward in metal fitting corrosion protection.

3X Carbon Steel Corrosion Protection



DURA-SEAL™ Technology

This patent-pending innovation from Eaton eliminates hose assembly cool-down leakage, while extending hose assembly life, reducing equipment down-time.

Class 0 Cool-Down Leakage Protection



ET1187 Portable Variable Crimp Machine

Eaton is proud to add the ET1187 crimp machine to its line of portable crimpers. While being our most economical variable crimp machine to date, the new ET1187 machine boasts a broad crimp capability with a new "ease-of-use" that is sure to please hose assemblers in the field.

This new crimp machine has been approved to crimp:

- Aeroquip TTC braided fittings and applicable hoses in sizes 1/4" through 1 1/4"
- Aeroquip 4S spiral fittings and applicable hoses in sizes 3/8" through 1"



AVAILABLE WITH BENCH AND TRUCK MOUNT BRACKETS

Features:

- Can be mounted on service vehicles or bench tops
- Can be used remotely
- Can be powered with virtually any 10,000 psi hydraulic power source (minimum of 36 cu. inch pump reservoir capacity is required)
- Utilizes existing FT1380 dies

Benefits:

- Color coded collar for core hose products makes setup fast and easy
- Easily transported between job sites
- Versatile power source options
- Lower investment cost than FT1380/ET1280
- Electricity is only required when using an electric style pump

It's Never Been Easier to Crimp with Confidence

This machine has a new, patent pending design to easily adjust to the Aeroquip and Weatherhead core products (see above). It's as simple as turning the collar to the correct color to match the layline on the hose, adjust the ring so that the correct size dot aligns with the correct size line on the collar and the machine is set for the correct crimp. Load the correct crimp die based on the crimp die chart attached to the machine, and the machine is ready to crimp.



GH681 / H180

Standard machine comes with GH681/H180 settings built in for use with TTC fittings in sizes -4 through -20.

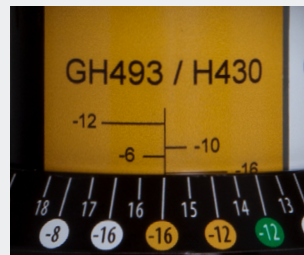
-12 size setting shown



GH781 / H280

Standard machine comes with GH781/H280 settings built in for use with TTC fittings in sizes -4 through -20.

-8 size setting shown



GH493 / H430

Standard machine comes with GH493/H430 settings built in for use with 4S fittings in sizes -6 through -10, and 4S fittings in sizes -12 and -16.

-16 size setting shown



Micrometer Dial

The micrometer section can be used to crimp other products not captured on the 3 primary collar settings, based on crimp target settings available in PowerSource.

Technical Data



ET1187-001
(Bench Mount)



ET1187-002
(Truck Mount)



Bench Mount



Truck Mount

SPECIFICATIONS

Dimensions – 22" High x 9" Wide x 11" Deep

Weight – 65 lbs

CRIMP MACHINE PART NUMBERS

ET1187-001 = Bench Mount Machine, no pump, no tooling, base machine only
(for premium hose GH681/H180, GH781/H280, GH493/H430)

ET1187-002 = Truck Mount Machine, no pump, no tooling, base machine only
(for premium hose GH681/H180, GH781/H280, GH493/H430)

ET1187-003 = Bench Mount Machine, no pump, no tooling, base machine only
(for standard hose EC115, EC215, EC415)

ET1187-004 = Truck Mount Machine, no pump, no tooling, base machine only
(for standard hose EC115, EC215, EC415)

ET1187C-0017 = Bench Mount Bracket

ET1187C-0019 = Truck Mount Bracket

CRIMP DIES

ET4020TP-0002 – Die Package for -4, -6, -8, -12, -16 Braided and -6, -8, -10, -12 Spiral
(Includes M150, M180, M210, M240, M280, M320, M370 Dies)

FT1380-200-M420 – Die for -16 Spiral

FT1382-200-M465 – Die for -20 Braided

PUMP PART NUMBERS*

ET1000PK-001 = 2-Stage Hand Pump

ET1000PK-002 = Air/Hydraulic Pump

ET1000PK-003 = 110 Volt Electric Pump

ET1000PK-004 = 12 Volt DC Electric Pump

ACCESSORY PART NUMBERS

T-400-G = 1.5 oz. Tube, High Efficiency PTFE Grease

FF91455 = 16 oz. Can, High Efficiency PTFE Grease

* These pump kits include the pump, connecting hose assembly, and all of the adapters necessary to connect the pump to the ET1187 crimp machine.

Die Cage Part Number	1 Wire Braid Z-Series/Winner	2 Wire Braid Z-Series/Winner	Spiral Hose 4S Fitting	Spiral Hose Z12 Fitting	ET4020TP-0002
FT1380-200-M150	-4	-4			x
FT1380-200-M180	-6	-4 [†]			x
FT1380-200-M210	-8	-6	-6	-6	x
FT1380-200-M240	-10	-8	-8 ^{††}	-8 ^{††}	x
FT1381-200-M280	-12	-10, -12 [†]	-8, -10	-8, -10	x
FT1380-200-M320		-12	-12	-12	x
FT1380-200-M370	-16	-16			x
FT1380-200-M420			-16	-16	
FT1382-200-M465	-20	-20			

[†] - Die cage used to crimp Winner Hose with Two Piece Winner Fitting ^{††}- Die cage used to crimp Winner Hose with 4S Fitting
Note: Additional dies and die cages also available. Refer to website or contact Eaton.

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