

EATON Hydraulic Hose Standards Quick Reference

Hose Series	SAE Standard	DIN/EN Standard	MatchMate® Global	Warranty	A Q P	DURA-TUFF	BRUISER	Less Force-To-Bend	USCG/MMT* SAE J1942	MSHA
NL500	-	-		1yr						
FC332	-	-		5yr	★					★
NL245	100R5/J1402	-		1yr						
1503	100R5/J1402	-		1yr					★	
FC300	100R5	-		5yr	★				★	
FC234	-	-		5yr	★				★	★
GH663	100R1AT	Type 1SN/EN 853	★	★	3yr		★		★	★
FRH1AT	100R1AT	-		1yr						★
NEW NL226	-	Type 1SN/EN 853		1yr						
FC639	100R17	-		1yr						★
FC839B	100R17	-		1yr			★			
FC849B	-	-		1yr			★			
GH793	100R2AT	Type 2SN/EN 853	★	★	3yr		★			★
FRH2AT	100R2AT	-		1yr						★
NEW NL326	-	Type 2SN/EN 853		1yr						
GH781	100R16	Type 2SC/EN 857	★	★	3yr		★		★	★
FC735	100R16	Type 2SN		5yr			★			
GH195	100R2AT	Type 2SN/EN 853		5yr	★				★	★
GH120	100R16	-	★	★	5yr		★			★
GH493	100R12	EN 856	★	★	3yr		★		★	★
FC736	100R12	EN 856		5yr			★			
NEW EC525	100R12	-		1yr	★					★
FC254	100R11	-		★	3yr		★		★	★
FC273	100R13	EN 856		3yr					★	★
FC500	100R13	-		3yr			★	★	★	★
EC810	-	EN 856		3yr						★
FC606	100R15	-		5yr			★			★
NEW EC850	100R15	-		5yr			★	★		★
FC619	100R4	-		3yr	★					★
2661	100R4	-		5yr					★	★

Government Agency & Industry Listings:

SAE - Society of Automotive Engineers

DIN/EN - Deutsche (German) Industrial Norme (Replaced by EN)

USCG/MMT* - U.S. Coast Guard, Merchant Marine Technical (SAE J1942 has replaced USCG approval)

MatchMate® Global - Stipulates which hoses are a part of the EATON Aeroquip MatchMate 3-minute assembly system - *For more information refer to the MatchMate promotional listing in this catalogue section or contact customer service.*

*USCG/MMT listings may vary by hose style and size, some hoses may require firesleeve or special procedures depending on specific applications, contact customer service.



- These hoses have been awarded the Triple Crown status by offering the highest pressure, temperature and abrasion resistance over any other manufactured hoses in their class - *For more information refer to the Triple Crown promotional listing in this catalogue section or contact customer service.*



- A special blend of high quality rubber compounds allows these hoses to remain flexible and last longer at higher operating temperatures (up to 300°F) - *For more information contact customer service.*



- These hoses incorporate a truly Extra-Heavy Duty cover for applications where abrasion is an issue - *For more information contact customer service.*



- These hoses offer 5-8x the abrasion resistance over standard hydraulic hose covers, providing extended service life & reduced downtime!



- Best-in Class products designed for superior bend radius, requiring less force-to-bend!



- U.S. Mine Safety & Health Administration



Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

Industry Flows Through Us™

©2015 New-Line Hose & Fittings

◆ A = Very Common Item - Good Stock ◆ B = Common Item - Moderate Stock
◆ C = Less Common Item ◆ P = Production ◆ N = Check for availability

EATON Hose Pressure & Coupling Quick Reference

Hose Series	Hydraulic Hose Dash Size												Recommended Couplings	Pg. #
	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48		
NL500	300 psi	300 psi	300 psi	300 psi	300 psi	300 psi	300 psi	-	-	-	-	-	N68000 Series Brass or Stainless Push-On Fittings	- Pg. 181
FC332	250 psi	250 psi	250 psi	250 psi	250 psi	250 psi	250 psi	-	-	-	-	-	N68000 Series Brass or Stainless Push-On Fittings	- Pg. 182
NL245	3000 psi	3000 psi	2250 psi	2000 psi	1750 psi	1500 psi	800 psi	-	-	-	-	-	N650xx & Aeroquip Series Field Attachables	- Pg. 183
1503	3000 psi	3000 psi	2250 psi	2000 psi	1750 psi	1500 psi	800 psi	625 psi	500 psi	350 psi	-	-	R5 Crimp, N650xx & Aeroquip Series Field Attachables	- Pg. 183
FC300	3000 psi	3000 psi	2250 psi	2000 psi	1750 psi	1500 psi	800 psi	625 psi	500 psi	300 psi	300 psi	-	R5 Crimp, N650xx & Aeroquip Series Field Attachables	- Pg. 183
FC234	-	1500 psi	1500 psi	1250 psi	1250 psi	750 psi	400 psi	-	-	-	-	-	R5 Crimp, N650xx & Aeroquip Series Field Attachables	- Pg. 184
GH663	3700 psi	-	3400 psi	2900 psi	-	2000 psi	1500 psi	1000 psi	750 psi	600 psi	-	-	1A Crimp, N610xx & FC7900 Series Field Attachables	- Pg. 185
FRH1AT	3000 psi	-	3000 psi	2000 psi	-	1250 psi	1000 psi	950 psi	725 psi	580 psi	-	-	1A Crimp, N610xx & FC7900 Series Field Attachables	- Pg. 185
NEW NL226	3250 psi	-	2600 psi	-	-	-	-	-	-	-	-	-	Sold in Bulk Only	- Pg. 185
FC639	3000 psi	-	3000 psi	3000 psi	3000 psi	3000 psi	3000 psi	-	-	-	-	-	1A Series Crimp	- Pg. 186
FC839B	3000 psi	-	3000 psi	3000 psi	3000 psi	3000 psi	3000 psi	-	-	-	-	-	1A Series Crimp	- Pg. 186
FC849B	4000 psi	-	4000 psi	4000 psi	4000 psi	4000 psi	-	-	-	-	-	-	1A Series Crimp	- Pg. 186
GH793	6500 psi	-	5800 psi	5000 psi	4000 psi	3500 psi	3000 psi	2500 psi	2000 psi	1600 psi	-	-	1A Crimp, N620xx & FC5900 Series Field Attachables	- Pg. 187
FRH2AT	5000 psi	-	4000 psi	3500 psi	-	2250 psi	2000 psi	-	-	-	-	-	1A Crimp, N620xx & FC5900 Series Field Attachables	- Pg. 187
NEW NL326	5800 psi	-	4800 psi	4000 psi	-	3125 psi	2400 psi	-	-	-	-	-	Sold in Bulk Only	- Pg. 187
GH781	6500 psi	-	5300 psi	4500 psi	4000 psi	3500 psi	3000 psi	2500 psi	2000 psi	1600 psi	-	-	1A Series Crimp	- Pg. 188
FC735	5000 psi	-	5000 psi	4250 psi	3625 psi	3125 psi	2500 psi	2250 psi	-	-	-	-	1A Series Crimp	- Pg. 188
GH195	5750 psi	-	5000 psi	4250 psi	3250 psi	3000 psi	2500 psi	2250 psi	1750 psi	1500 psi	-	-	1A Series Crimp	- Pg. 189
GH120	6000 psi	-	5000 psi	4500 psi	4000 psi	3500 psi	2800 psi	2300 psi	2000 psi	1500 psi	-	-	1A Series Crimp	- Pg. 189
GH493	-	-	6500 psi	6000 psi	6000 psi	5500 psi	5100 psi	4500 psi	4000 psi	4000 psi	-	-	1B Series Crimp	- Pg. 190
FC736	-	-	4000 psi	4000 psi	4000 psi	4000 psi	4000 psi	3000 psi	2500 psi	2500 psi	-	-	1B Series Crimp	- Pg. 190
NEW EC525	-	-	-	-	-	5000 psi	5000 psi	3500 psi	3500 psi	3250 psi	-	-	1B Series Crimp	- Pg. 192
FC254	-	-	-	7700 psi*	-	7500 psi	5900 psi	5100 psi	4350 psi	4000 psi	-	-	1E Series Crimp #08 Internal Skive Fittings Only	- Pg. 191
FC273	-	-	-	-	-	5000 psi	5000 psi	5000 psi	5000 psi	5000 psi	-	-	1E Series Crimp (-12 & -16) 1Z Series Crimp (-20 thru -32)	- Pg. 192
FC500	-	-	-	-	-	5076 psi	5076 psi	5076 psi	5076 psi	5076 psi	-	-	1E Series Crimp (-12 thru -24) 1Z Series Crimp (-32)	- Pg. 192
EC810	-	-	-	-	-	6100 psi	6100 psi	-	6100 psi	6100 psi	5100 psi	-	1E Series Crimp (-12 & -16) 1Z Series Crimp (-20 & -32)	- Pg. 193
FC606	-	-	-	-	-	-	6000 psi	6000 psi	6000 psi	-	-	-	1Z Series Crimp	- Pg. 193
NEW EC850	-	-	-	-	-	-	6000 psi	6000 psi	6000 psi	-	-	-	1W Series Skive Fittings	- Pg. 194
FC619	-	-	-	-	-	300 psi	250 psi	200 psi	150 psi	100 psi	62 psi	62 psi	1A, 1G & N1750 Series Crimp	- Pg. 195
2661	-	-	-	-	-	300 psi	250 psi	200 psi	150 psi	100 psi	62 psi	62 psi	1A & 1G Crimp	- Pg. 195

*FC254-08 is rated for 7700psi when coupled with Internal Skive Fittings.

Hydraulic

17



Introducing...MatchMate® Global

The 3 minute Crimp Hose Assembly System. NEW-LINE.COM/watchitwork



Delivers durability, precision and unbeatable ease of use!

1 Hose Selection

Choose the right MatchMate Global hose by matching construction & size for your requirements. Rings on the coloured layline indicate construction and the hose dash number indicates size.

2 Fitting Selection

Select a MatchMate Global fitting with the same dash number as the hose. Make sure the number of grooved rings on the crimp shell matches the number of rings on the hose. Insert hose into fitting. Skiving the hose is not necessary.

3 Final Assembly

Choose the correct die cage by matching the dash number and the colour code on the hose layline to the colour coded tabs on the die cage. Insert into crimp machine and select the pre-set crimp setting that right for your hose.

4 You're Ready to Perform!

From start to finish, it takes 3 minutes or less to make a MatchMate Global crimp hose assembly!



Match grooved rings on fitting with number of rings on the hose.

Easy quick reference colour coded system.



The MatchMate Global system utilizes TTC (Through-The-Cover) technology.



TRIPLE CROWN ADVANTAGE HYT



The Triple Crown Advantage

Better in every way that matters

Eaton engineering has once again raised the bar. Select Eaton Aeroquip hydraulic hoses offer distinct advantages in three areas, which exceed all SAE and EN spec competitive equivalents.

1 Pressure

Improved designs have enabled Eaton to increase pressures on selected Aeroquip hoses by an average of 24% over the competition.

+

2 Temperature*

Advanced rubber compounds have enable Eaton to raise temperatures on selected Aeroquip hoses to an industry leading +260°F (127°C).

+

3 Abrasion Resistance*

New Aeroquip DURA-TUFF cover provides better abrasion resistance than traditional rubber covered hose.

=



Look for this Triple Crown logo to determine which products exceed our competitors equivalent SAE or EN spec alternative!

*For extremely high temperature or abrasion resistant applications Eaton also offers specialty hose compounds such as; AQP & BRUISER, see catalogue specifications for further details.

Industry Flows Through Us

Push-on is a textile reinforced hose designed for low pressure hydraulic and pneumatic systems, such as robotics, shop air systems, and automotive applications. Push-on is used for quick field assembly, repairs, or installation where no assembly equipment is provided (all Push-on is maximum 250-300psi). It has an oil resistant tube which will handle air, water, lubricating oils, antifreeze, and mild resistance to gasoline (typically not recommended for gasoline). The standard colour is Black (NL505) or Grey (H201 or NL509), and we also offer blue (NL509), yellow (NL507), or red (NL508) for colour coding purposes. Our NL515 Black push-on is made of higher grade rubber compounds as compared to standard push-on hoses seen on the market and is MSHA approved for mining applications, as is NL506 and NL509 Series. Insta-Grip is non-conductive with a minimum electrical resistance greater than 1 megohm per inch of hose length at 1000 volts DC.



GOODYEAR
ENGINEERED PRODUCTS

In 2015 Goodyear EP Hose is becoming **Continental**

EATON
Powering Business Worldwide

Temperature Range: -40°C (-40°F) to +88°C (190°F); higher temperatures for hydraulic fluid (not air) available in the NL515H- series up to 300°F. Also see our high quality Aeroquip FC332 AQP push-on for high temp air or hydraulic fluids.

Construction: Tube: Black Chemivic rubber blend. Cover: Chemivic rubber blend. Reinforcement: Spiraled synthetic yarn (specially angled for push-on fittings).

Typical Fittings: Brass or stainless "Push-On fittings" which are specifically designed for use on "Push-On" hoses up to 300 psi (do not use on any other type of hose). When used with Push-On hose, the defined barb on the fitting and the special hose reinforcement will provide sufficient grip thereby eliminating the need for any hose clamps.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
Standard Black - 250 psi										
1/4"	NL505-04	.50"	250 psi	3.0"	.08	A	\$ 2.03	\$ 1.72	\$ 1.56	500 ft
3/8"	NL505-06	.65"	250	3.5"	.12	A	2.66	2.25	2.04	500
1/2"	NL505-08	.80"	250	6.0"	.17	A	3.22	2.72	2.47	500
5/8"	NL505-10	.94"	250	7.0"	.23	B	4.57	3.87	3.51	500
3/4"	NL505-12	1.08"	250	8.0"	.28	B	6.37	5.39	4.90	500
1"	NL505-16	1.39"	200	10.0"	.38	C	8.60	7.28	6.61	250
Standard Grey - 300 psi										
1/4"	H20104GY-250R	.50"	300 psi	3.0"	.09	C	\$ 2.99	\$ 2.53	\$ 2.30	250 ft
3/8"	H20106GY-250R	.65"	300	3.0"	.13	C	3.61	3.05	2.77	250
1/2"	H20108GY-250R	.75"	300	5.0"	.15	C	4.31	3.65	3.31	250
5/8"	H20110GY-250R	.93"	300	6.0"	.23	C	6.73	5.69	5.17	250
3/4"	H20112GY-250R	1.03"	300	6.0"	.26	C	7.67	6.49	5.90	250
1"	H20116GY-250R	1.39"	200	10.0"	.38	C	9.18	7.77	7.06	250
*Premium Black - 300 psi *MSHA Approved on all NEW mfg'd stock*										
1/4"	NL515-04	.54"	300 psi	2.5"	.09	B	\$ 2.63	\$ 2.23	\$ 2.02	500 ft
5/16"	NL515-05	.62"	300	3.0"	.12	C	3.49	2.95	2.68	500
3/8"	NL515-06	.69"	300	3.0"	.14	B	3.74	3.16	2.87	500
1/2"	NL515-08	.81"	300	5.0"	.16	B	4.54	3.84	3.49	500
5/8"	NL515-10	.93"	300	6.0"	.20	N	7.00	5.92	5.38	500
3/4"	NL515-12	1.07"	300	7.0"	.25	C	9.27	7.85	7.13	500
*Grey - 300 psi *MSHA Approved on all NEW mfg'd stock*										
1/4"	NL506-04	.54"	300 psi	2.5"	.09	B	\$ 3.15	\$ 2.67	\$ 2.42	500 ft
3/8"	NL506-06	.69"	300	3.0"	.14	B	3.74	3.16	2.87	500
1/2"	NL506-08	.81"	300	5.0"	.16	C	4.54	3.84	3.49	500
5/8"	NL506-10	.93"	300	6.0"	.20	C	7.00	5.92	5.38	500
3/4"	NL506-12	1.07"	300	7.0"	.25	C	9.27	7.85	7.13	500
*Blue - 300 psi *MSHA Approved on all NEW mfg'd stock*										
1/4"	NL509-04	.54"	300 psi	2.5"	.09	C	\$ 3.15	\$ 2.67	\$ 2.42	500 ft
3/8"	NL509-06	.69"	300	3.0"	.14	C	3.74	3.16	2.87	500
1/2"	NL509-08	.81"	300	5.0"	.16	C	4.54	3.84	3.49	500

*Yellow and red colours also available from the factory in full reels only.

Hydraulic

17



This hose is used in similar applications as our regular push-on, but is MSHA approved for underground mining and has an ultra-abrasion resistant cover (it is also available in the 1" size whereas the NL515- listed above is only available up to 3/4"). It provides greater durability over regular push-on hose in abusive environments.



In 2015 Goodyear EP Hose is becoming **Continental**



Temperature Range: -40°C (-40°F) to +93°C (200°F)

Construction: Tube: Black seamless, Chemivac rubber. Cover: Black Carbryn rubber. Reinforcement: One textile braid (specially angled for push-on fittings).

Typical Fittings: Brass or stainless "Push-On fittings" which are specifically designed for use on "Push-On" hoses up to 300 psi (do not use on any other type of hose). When used with Push-On hose, the defined barb on the fitting and the special hose reinforcement will provide sufficient grip thereby eliminating the need for any hose clamps.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	NL520-04	.51"	300 psi	2.5"	.08	N	-	-	\$ 4.22	500 ft
3/8	NL520-06	.67	300	3.0	.13	N	-	-	4.82	500
1/2	NL520-08	.76	300	5.0	.14	N	-	-	5.26	500
5/8	NL520-10	.93	300	6.0	.19	N	-	-	5.91	500
3/4	NL520-12	1.06	300	7.0	.24	N	-	-	8.01	500
1	NL520-16	1.34	300	8.0	.34	C	\$ 13.26	\$ 11.73	10.20	500

FC332 ~ AEROQUIP HI-TEMP PUSH-ON (SOCKETLESS) w/ AQP ELASTOMER

This is a quality, high temperature 250 psi push-on hose suitable for hydraulic oil up to 300°F. It will also handle air up to 250°F and water up to 300°F. Due to its special AQP elastomer construction it is suitable for higher continuous operating temperatures and it is estimated it will last 5 times longer than standard push-on hoses in high temperature applications. It is not recommended for hydraulic impulse applications and not approved for air brake applications. **NEW 2013 - All new manufactured stock is MSHA approved for underground mining applications.**



Powering Business Worldwide




Temperature Range: -40°C (-40°F) to + 150°C (300°F); air not to exceed +121°C (250°F). AQP is not rated for steam use.

Construction: Tube: Black seamless, oil and heat resistant AQP elastomer. Cover: Blue, oil, abrasion, and weather resistant AQP elastomer. Reinforcement: Textile braids (specially angled for push-on fittings).

Typical Fittings: Brass or stainless "Push-On fittings" which are specifically designed for use on "Push-On" hoses up to 300 psi (do not use on any other type of hose). When used with Push-On hose, the defined barb on the fitting and the special hose reinforcement will provide sufficient grip thereby eliminating the need for any hose clamps.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	FC332-04	.49"	250 psi	3.0"	.08	C	\$ 9.08	\$ 8.32	\$ 7.56	650 ft
3/8	FC332-06	.63	250	3.0	.12	C	10.29	9.43	8.57	550
1/2	FC332-08	.75	250	5.0	.15	C	11.39	10.44	9.49	600
5/8	FC332-10	.91	250	6.0	.20	C	16.46	15.09	13.71	450
3/4	FC332-12	1.04	250	7.0	.28	C	16.73	17.12	15.56	350



Did you Know?

We offer leak detection systems!

Close-up view through fluorescence enhancing glasses at a typical hydraulic system that faces vibration resulting in loose connections & leakage, greatly affecting equipment efficiency!





Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

Industry Flows Through Us™
© 2015 New-Line Hose & Fittings

♦ A = Very Common Item - Good Stock ♦ B = Common Item - Moderate Stock
♦ C = Less Common Item ♦ P = Production ♦ N = Check for availability

NL245 is designed for high temperature, medium pressure hydraulic, air, water, gasoline, or oil service. It is most commonly used in commercial vehicle applications for air brake (meets DOT FMVSS-106), power steering, oil filtration, and coolant lines. It is also SAE/USCG marine listed for SAE J1402 Type A2 requirements. The external fabric braided cover permits heat loss, but it is not designed to withstand abrasion.

GOODYEAR
ENGINEERED PRODUCTS
In 2015 Goodyear EP Hose is becoming **Continental**



Temperature Range: -40°C (-40°F) to +100°C (212°F). Intermittent to +149°C (300°F).

Construction: Tube: Black seamless, oil & heat resistant synthetic rubber. Cover: Black rubber impregnated with oil and weather resistant textile. Reinforcement: One textile braid and one single wire braid.

Typical Fittings: N650xx Field attachables, Aeroquip R5 Series field attachables.

Inside* Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
3/16"	NL245-04	.52"	3000 psi	3.0"	.14	A	\$ 4.48	\$ 4.11	\$ 3.73	250 ft
1/4"	NL245-05	.58	3000	3.4	.18	C	5.13	4.70	4.27	250
5/16"	NL245-06	.67	2250	4.0	.23	A	4.52	4.14	3.76	250
13/32"	NL245-08	.77	2000	4.6	.26	A	5.34	4.90	4.45	250
1/2"	NL245-10	.92	1750	5.5	.36	A	6.74	6.18	5.61	250
5/8"	NL245-12	1.08	1500	6.5	.44	B	7.46	6.84	6.21	250
7/8"	NL245-16	1.23	800	7.4	.46	B	10.65	9.76	8.87	250

*Larger sizes available upon request. Also refer to EATON series 1503 listed below.

1503 ~ SAE100R5 SINGLE WIRE

1503 is a standard SAE100R5 hose designed for high temperature (up to 250°F), medium pressure hydraulic, air, water, gasoline, or oil service. It is most commonly used in commercial vehicle applications for air brake, power steering, oil filtration, and coolant lines. The external fabric braided cover permits heat loss, but it is not designed to withstand abrasion. This hose meets DOT 106 Type A2, USCG/MMT, AAMVA, SAEJ1402, and SAE100R5 requirements.

EATON
Powering Business Worldwide



Temperature Range: -40°C (-40°F) to +121°C (250°F). Air not to exceed +160°F (+71°C).

Construction: Tube: Black seamless, oil & heat resistant synthetic rubber. Cover: Black rubber impregnated with oil and weather resistant textile. Reinforcement: One textile braid & one single wire braid.

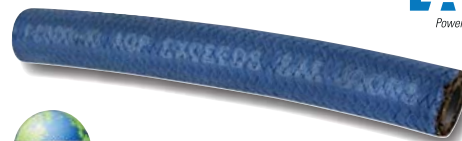
Typical Fittings: N650xx Reusables, Aeroquip R5 reusables, Aeroquip R5 permanent crimp ends with special dies.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
3/16"	1503-4	.52"	3000 psi / 210 bar	3.0"	.13	B	\$ 6.60	\$ 5.66	\$ 4.71	650 ft
5/16"	1503-6	.68	2250 / 157	4.0	.23	B	7.38	6.33	5.27	400
13/32"	1503-8	.77	2000 / 140	4.6	.26	B	7.89	6.76	5.63	500
1-1/8"	1503-20	1.50	625 / 43	9.0	.52	C	15.63	-	13.02	50
1-3/8"	1503-24	1.75	500 / 35	10.5	.67	C	28.96	-	24.13	50
1-13/16"	1503-32	2.23	350 / 24	13.3	.94	C	37.42	-	31.18	50

FC300 ~ HI-TEMP BLUE TEXTILE SAE100R5 SINGLE WIRE w/ AQP ELASTOMER

FC300 is a popular, blue textile covered SAE100R5 hose used for high temperature (hydraulic oil up to 300°F), medium pressure hose for hydraulic, air, water, gasoline, diesel, or various coolants. Due to its special AQP elastomer construction it is suitable for higher continuous operating temperatures and it is estimated to last 5 times longer than standard SAE100R5. The external fabric braided cover permits heat loss, but it is typically not designed to withstand abrasion. FC300 meets DOT/FMVSS 106 Type A2, USCG/MMT (contact New-Line for exact approvals), AAMVA, DNV, ABS, and SAE100R5, SAEJ1019, SAEJ1402 requirements.

EATON
Powering Business Worldwide



Temperature Range: -49°C (-55°F) to +150°C (300°F); air not to exceed +121°C (250°F). AQP is not rated for steam use.

Construction: Tube: Black seamless, oil & heat resistant AQP elastomer. Cover: Blue AQP rubber impregnated with oil and weather resistant textile. Reinforcement: One textile braid & one brass plated steel wire braid.

Typical Fittings: Aeroquip R5 Series field attachables, N650xx Field attachables, Aeroquip R5 permanent crimp ends with special dies.

Inside Diameter*	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
3/16"	FC300-04	.52"	3000 psi / 210 bar	3.0"	.13	B	\$ 14.26	\$ 13.07	\$ 11.88	600 ft
1/4"	FC300-05	.58	3000 / 210	3.4	.16	C	15.10	13.84	12.58	500
5/16"	FC300-06	.67	2250 / 157	4.0	.23	B	16.61	15.23	13.84	350
13/32"	FC300-08	.76	2000 / 140	4.6	.26	B	17.31	15.87	14.42	600
1/2"	FC300-10	.93	1750 / 122	5.5	.37	B	21.59	19.79	17.99	350
5/8"	FC300-12	1.08	1500 / 105	6.5	.44	B	26.54	24.33	22.11	300
7/8"	FC300-16	1.27	800 / 56	7.4	.46	A	29.38	26.93	24.48	200
1-1/8"	FC300-20	1.50	625 / 43	9.0	.52	C	36.46	-	30.38	50
1-3/8"	FC300-24	1.75	500 / 35	10.5	.67	C	46.06	-	38.38	50
1-13/16"	FC300-32	2.22	300 / 21	13.3	.94	C	57.46	-	47.88	50
2-3/8"	FC300-40	2.88	300 / 21	24.0	1.5	C	90.99	-	75.82	50

◆ A = Very Common Item - Good Stock ◆ B = Common Item - Moderate Stock
◆ C = Less Common Item ◆ P = Production ◆ N = Check for availability



Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

FC234 is designed with a special AQP elastomer for high temperature air, water, gasoline, diesel, various coolants, or hot lube oil service. It has a brass plated steel inner wire reinforcement which is ideal for marine vessels or other applications where added corrosion resistance is required. FC234 meets MSHA flame resistance specifications, SAE J1527 Type A1 requirements, and is USCG/MMT, DNV, and NMMA/BIA approved.



Temperature Range: -40°C (-40°F) to +150°C (300°F). AQP is not rated for steam use.

Construction: Tube: Black seamless, oil & heat resistant, AQP elastomer. Cover: Blue oil, abrasion and weather resistant AQP elastomer. Reinforcement: One brass plated steel wire braid and a braided refractory insulation.

Typical Fittings: Aeroquip R5 Series Field attachables, Aeroquip R5 permanent crimp ends with special dies.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	FC234-05	.58"	1500 psi / 103 bar	1.00"	.22	N	\$ 26.37	\$ 22.60	\$ 18.83	500 ft
5/16	FC234-06	.68	1500 / 103	1.25	.25	C	29.26	25.08	20.90	400
13/32	FC234-08	.76	1250 / 86	1.75	.30	C	30.26	25.94	21.61	500
1/2	FC234-10	.94	1250 / 86	2.25	.45	C	35.16	30.14	25.11	400
5/8	FC234-12	1.08	750 / 52	2.75	.48	C	42.48	36.41	30.34	300
7/8	FC234-16	1.24	400 / 28	3.50	.51	C	50.61	43.38	36.15	200



Did you Know?

SAE SAE J1273 specifies the recommended practices for hydraulic hose assemblies. It includes information related to the fabrication of hose assemblies, conformance, safety, performance, installation, routing, and maintenance. It should be noted that a hose assembly must be an **ENGINEERED SYSTEM** in order to be SAE compliant. Just because a hose is stamped with an SAE specification, it doesn't mean the hose **ASSEMBLY** is SAE conforming and safe for service. Improper selection, fabrication, installation, or maintenance of hose assemblies may result in serious property damage, an explosion, injury, or death.

Key Points of SAE J1273:

- ♦ **6.0** Hose Assembly Fabrication - Persons fabricating hose assemblies should be trained in the proper use of equipment and materials. The manufacturer assembly instructions and practices listed in SAE J1273 must be followed. Properly assembled fittings are vital to the integrity of a hose assembly.
- ♦ **6.2** Hose Fittings - Hose fitting components from one manufacturer are not usually compatible with fitting components supplied by another manufacturer. For example, do not use a hose nipple from one manufacturer with a hose socket from another manufacturer. It is the responsibility of the fabricator to consult the manufacturer's written instructions or the manufacturer directly for proper information.
- ♦ **6.3** Hose and Fitting Compatibility - Care must be taken to determine proper compatibility between the hose and fitting. Base selection on the manufacturers' recommendations substantiated by testing to industry standards such as SAE J517. Hose from one manufacturer is not usually compatible with fittings from another. Do not intermix hose and fittings from two manufacturers without written approval from both manufacturers.
- ♦ **6.4** Hose Assembly Equipment - Assembly equipment from one manufacturer is usually not interchangeable with that from another manufacturer. Hoses and fittings from one manufacturer should not generally be assembled with the equipment of another manufacturer.
- ♦ **6.6** Reuse of Hose and Fittings - When fabricating hose assemblies, DO NOT reuse: field-attachable fittings that have blown or pulled off hose; any part of hose fittings that were permanently crimped to hose; hose that has been in service after system checkout (after the initial testing).
- ♦ **6.7** Cleanliness of Hose Assemblies - Hose assemblies may be contaminated during fabrication. Clean hoses to specified cleanliness levels (see 5.13).

The complete standard can be ordered on-line at www.sae.org or contact our sales staff for further information on SAE J1237. Information on SAE J2593 "Installation of Fluid Conductors and Connectors" is also available.



Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

Industry Flows Through Us™
©2015 New-Line Hose & Fittings

♦ A = Very Common Item - Good Stock ♦ B = Common Item - Moderate Stock
♦ C = Less Common Item ♦ P = Production ♦ N = Check for availability

GH663 is a 100R1AT single wire braid hydraulic hose that offers 1/2 the bend radius as compared to other 100R1AT products on the market. It is commonly used for low to medium pressure lines on mobile equipment, machine tools, farm implements, and other hydraulic applications. Being a "Matchmate" & "Triple Crown" product, it is not only designed to reduce assembly time and simplify identification when coupling (contact us for more information) it is also manufactured with advanced technology & superior rubber compounds allowing for increased pressure ratings, greater temperature range & better abrasion resistance as compared to other SAE100R1AT hoses - making it truly a longer lasting product. This hose will handle petroleum based hydraulic fluids, gasoline, water, diesel, and lubricating oils. Its cover is resistant to oil, weathering, and abrasion. GH663 meets MSHA flame resistance specifications, USCG/MMT SAE J1942 (-4 thru -16 sizes, contact New-Line for exact approvals), DNV, ABS, and exceeds EN 853 Type 1SN, DIN 20 022 Type 1SN & SAE100R1AT requirements.



MatchMate® Global DURA-TUFF

Temperature Range: NEW 2013 -45°C (-50°F) to +127°C (260°F)

Construction: Tube: Black, high quality, seamless, oil resistant synthetic rubber. Cover: DURA-TUFF black, high quality, oil, abrasion and weather resistant synthetic rubber. Reinforcement: One braid high tensile steel wire.

Typical Fittings: 1A Series permanent crimp, N610xx Field attachables, Aeroquip 100R1 TTC Field attachables.

*Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	GH663-4	.53"	3700 psi / 255 bar	2.0"	.16	A	\$ 6.42	\$ 5.89	\$ 5.35	250 ft
3/8	GH663-6	.69	3400 / 234	2.5	.25	A	7.23	6.63	6.02	250
1/2	GH663-8	.81	2900 / 200	3.5	.30	B	7.94	7.28	6.61	250
3/4	GH663-12	1.09	2000 / 138	4.75	.45	A	12.38	11.35	10.31	250
1	GH663-16	1.41	1500 / 103	6.00	.68	A	15.80	14.48	13.16	150
1-1/4	GH663-20	1.71	1000 / 69	8.25	.88	B	27.90	-	23.25	50
1-1/2	GH663-24	1.99	750 / 52	10.0	1.05	C	30.40	-	25.33	50
2	GH663-32	2.52	600 / 41	12.5	1.31	N	40.77	-	33.97	50

* For 3/16" #03 size, refer to our NL225-03.

FRH1AT ~ SAE100R1AT AG SINGLE WIRE

FRH1AT is an economical single wire braid hydraulic hose specifically designed for OEM markets where a generic, non-critical, lower end, price competitive hose is preferred over higher quality Matchmate SAE100R1AT hose. FRH is normally sold in full reels only and used for low pressure lines on mobile equipment, machine tools, farm implements, and other hydraulic applications. This hose will handle petroleum based hydraulic fluids, gasoline, water, diesel, and lubricating oils. Its cover is resistant to oil, weathering, and light abrasion. FRH1AT meets MSHA flame resistance specifications & SAE100R1AT requirements.



Temperature Range: -40°C (-40°F) to +100°C (212°F)

Construction: Tube: Black seamless, synthetic rubber. Cover: Black, oil and weather resistant, synthetic rubber. Reinforcement: One high tensile steel wire braid.

Typical Fittings: 1A Series permanent crimp, N610xx Field attachables, Aeroquip 100R1 TTC Field attachables.

*Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	FRH1AT-4	.53"	3000 psi / 207 bar	4.0"	.15	B	\$ 4.23	\$ 4.23	\$ 3.25	450 ft
3/8	FRH1AT-6	.69	3000 / 207	5.0	.24	B	5.00	5.00	3.84	450
1/2	FRH1AT-8	.81	2000 / 138	7.0	.29	B	5.36	5.36	4.12	450
3/4	FRH1AT-12	1.09	1250 / 86	9.5	.46	A	7.51	6.64	5.77	250
1	FRH1AT-16	1.41	1000 / 69	12.0	.80	A	12.47	12.47	9.59	200

* For 3/16" #03 size, refer to our NL225-03.

NL226 ~ EN853 TYPE 1SN SINGLE WIRE

NL226 is an economical single wire braid hydraulic hose specifically designed for OEM markets where a generic, non-critical, lower end, price competitive hose is preferred over higher quality Matchmate SAE100R1AT hose. This hose is **sold in full reels only** and used for low pressure lines on mobile equipment, machine tools, farm implements, and other hydraulic applications. This hose will handle petroleum based hydraulic fluids, gasoline, water, diesel, and lubricating oils. Its cover is resistant to oil, weathering, and light abrasion. NL226 meets MSHA flame resistance specifications & EN853 Type 1SN requirements.



Temperature Range: -40°C (-40°F) to +100°C (212°F)

Construction: Tube: Black seamless, synthetic rubber. Cover: Black, oil and weather resistant, synthetic rubber. Reinforcement: One high tensile steel wire braid.

Typical Fittings: Due to the nature of this OEM hose, only factory approved customers are permitted to assemble it.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	NL226-04	.56"	3250 psi / 225 bar	3.99"	.15	B	Bulk	Bulk	\$ POR	500 ft
3/8	NL226-06	.71	2600 / 180	5.12	.22	C	Only	Only	POR	500

♦ A = Very Common Item - Good Stock ♦ B = Common Item - Moderate Stock
♦ C = Less Common Item ♦ P = Production ♦ N = Check for availability



Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

FC639 is a very flexible multi-wire braid 3000 psi "constant pressure hose" which means all sizes offer the same working pressure rating, eliminating the need for multiple hose specs on one piece of equipment. It is recommended for high-pressure oil lines used on construction equipment and other off-the-road applications. This hose offers comparable or higher pressures than standard SAE100R1/100R2 hoses, without the added weight and has up to half the bend radius. It will handle petroleum based hydraulic fluids, gasoline, water, diesel, and lubricating oils. Its cover is resistant to ozone, abrasion, oil, weathering, and meets MSHA flame resistance specifications. Also available with the BRUISER abrasion resistant cover (FC839B).



Temperature Range: -40°C (-40°F) to +100°C (212°F)

Construction: Tube: Black seamless, oil resistant synthetic rubber. Cover: Black oil, weather, fire, and ozone resistant synthetic rubber. Reinforcement: One high tensile steel wire braid (two wire braids in -10 through -16 sizes).

Typical Fittings: 1A Series permanent crimp. **This hose is not rated for use with field attachable fittings.**

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	FC639-04	.52"	3000 psi / 210 bar	2.0"	.15	A	\$ 5.37	\$ 4.92	\$ 4.47	250/500 ft
3/8	FC639-06	.67	3000 / 210	2.5	.23	A	6.10	5.59	5.08	250/500
1/2	FC639-08	.81	3000 / 210	3.5	.32	A	6.88	6.31	5.73	250/500
5/8	FC639-10	1.00	3000 / 210	4.0	.51	C	11.27	10.33	9.39	250
3/4	FC639-12	1.14	3000 / 210	4.8	.63	A	15.48	14.19	12.90	250
1	FC639-16	1.43	3000 / 210	6.0	.83	C	20.22	18.54	16.85	150

FC849B ~ BRUISER DOUBLE WIRE 4000 PSI

FC849B is an extremely tough, very flexible 4000 psi wire braid hydraulic hose recommended for service in construction, forestry, and on a wide variety of machinery. It incorporates the BRUISER cover which is truly extra-heavy duty for applications where abrasion (which eventually leads to hose failure) is a problem and a protective wrap would typically be required. This hose offers comparable or higher pressures than standard SAE100R12 hoses without the added weight and has up to half the bend radius. It will handle petroleum based hydraulic fluids, gasoline, water, diesel, and lubricating oils. Its cover is resistant to ozone, abrasion, oil and weathering.



Temperature Range: -40°C (-40°F) to +100°C (212°F)

Construction*: Tube: Black seamless, oil resistant synthetic rubber. Cover: Black oil, abrasion, and weather resistant synthetic rubber intermediate cover with additional extremely abrasion resistant BRUISER outer cover. Reinforcement: Two high tensile steel wire braids.

Typical Fittings: 1A Series permanent crimp. **This hose is not rated for use with field attachable fittings.**

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	FC849B-04	.60"	4000 psi / 280 bar	2.0"	.24	C	\$ 8.24	\$ 7.55	\$ 6.86	250 ft
3/8	FC849B-06	.76	4000 / 280	2.5	.36	C	10.60	9.72	8.83	250
1/2	FC849B-08	.84	4000 / 280	3.5	.43	C	12.84	11.77	10.70	250
5/8	FC849B-10	1.01	4000 / 280	4.0	.60	N	18.02	16.52	15.01	250
3/4	FC849B-12	1.18	4000 / 280	4.75	.72	C	22.48	20.61	18.73	250

*Also available with non-BRUISER cover (FC849-Size)



Did you Know?



- ✓ Designed to work where there is constant wear & abrasion
- ✓ Reduces downtime due to abrasion failures
- ✓ Low friction coefficient promotes faster installation
- ✓ Eliminate need & cost of abrasion sleeve



Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

Industry Flows Through Us™
©2015 New-Line Hose & Fittings

♦ A = Very Common Item - Good Stock ♦ B = Common Item - Moderate Stock
♦ C = Less Common Item ♦ P = Production ♦ N = Check for availability

GH793 is a flexible, double wire braid hydraulic hose for medium to high pressures. Being a "Matchmate" & "Triple Crown" product, it is not only designed to reduce assembly time and simplify identification when coupling (contact us for more information) it is also manufactured with advanced technology & superior rubber compounds allowing for increased pressure ratings, greater temperature range & better abrasion resistance as compared to other SAE100R2AT hoses - making it truly a longer lasting product. It will handle petroleum based hydraulic fluids, gasoline, water, diesel fuels and lubricating oils. Its cover is resistant to abrasion, oil, and weathering. GH793 meets MSHA flame resistance specifications, USCG/MMT SAE J1942 (contact New-Line for exact approvals), DNV, ABS, EN 853 Type 2SN, DIN 20 022 Type 2SN, and SAE100R2AT requirements.



MatchMate® Global DURA-TUFF

Temperature Range: -40°C (-40°F) to +127°C (260°F)

Construction: Tube: Black, high quality, seamless, oil resistant synthetic rubber. Cover: DURA-TUFF black, high quality, oil, abrasion and weather resistant synthetic rubber. Reinforcement: Two high tensile steel wire braids.

Typical Fittings: 1A Series permanent crimp, N620xx Field attachables, Aeroquip 100R2 TTC reusables.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	GH793-4	.60"	6500 psi / 448 bar	4.0"	.26	A	\$ 7.74	\$ 6.48	\$ 6.45	250 ft
3/8"	GH793-6	.75"	5800 / 400	5.0	.38	A	8.99	7.50	7.49	250
1/2"	GH793-8	.87"	5000 / 345	7.0	.46	A	10.22	8.50	8.51	250
5/8"	GH793-10	.98"	4000 / 276	8.0	.54	A	13.26	11.13	11.05	250
3/4"	GH793-12	1.16"	3500 / 241	9.5	.66	A	16.07	13.34	13.39	250
1"	GH793-16	1.50"	3000 / 207	12.0	1.01	B	21.24	17.62	17.70	150
1-1/4"	GH793-20	1.92"	2500 / 172	16.5	1.54	A	40.19	-	33.49	50
1-1/2"	GH793-24	2.15"	2000 / 138	20.0	1.68	C	48.63	-	40.52	50
2"	GH793-32	2.51"	1600 / 110	25.0	2.22	C	55.40	-	46.16	50

FRH2AT ~ SAE 100R2AT AG DOUBLE WIRE

FRH2AT is an economical double wire braid hydraulic hose specifically designed for OEM markets where a generic, non-critical, lower end, price competitive hose is preferred over higher quality Matchmate SAE100R2AT hose. FRH is normally sold in full reels only and used for low to medium pressure lines on mobile equipment, machine tools, farm implements, and other hydraulic applications. This hose will handle petroleum based hydraulic fluids, gasoline, water, diesel, and lubricating oils. Its cover is resistant to oil, weathering, and light abrasion. FRH2AT meets MSHA flame resistance specifications & SAE100R2AT requirements.



Temperature Range: -40°C (-40°F) to +100°C (212°F)

Construction: Tube: Black seamless, oil resistant synthetic rubber. Cover: Black, oil, abrasion and weather resistant synthetic rubber. Reinforcement: Two high tensile steel wire braids.

Typical Fittings: 1A Series permanent crimp, N620xx Field attachables, Aeroquip 100R2 TTC reusables.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	FRH2AT-4	.60"	5000 psi / 350 bar	4.0"	.27	A	\$ 5.44	\$ 4.81	\$ 4.18	450 ft
3/8"	FRH2AT-6	.75"	4000 / 280	5.0	.38	A	6.22	5.50	4.78	550
1/2"	FRH2AT-8	.88"	3500 / 245	7.0	.46	A	6.89	6.10	5.30	450
3/4"	FRH2AT-12	1.16"	2250 / 157	9.5	.66	B	10.42	9.22	8.01	250
1"	FRH2AT-16	1.50"	2000 / 140	12.0	1.00	B	15.47	13.69	11.90	200

NL326 ~ EN853 TYPE 2SN DOUBLE WIRE

NL326 is an economical double wire braid hydraulic hose specifically designed for OEM markets where a generic, non-critical, lower end, price competitive hose is preferred over higher quality Matchmate SAE100R2AT hose. This hose is **sold in full reels only** and used for low to medium pressure lines on mobile equipment, machine tools, farm implements, and other hydraulic applications. This hose will handle petroleum based hydraulic fluids, gasoline, water, diesel, and lubricating oils. Its cover is resistant to oil, weathering, and light abrasion. NL326 meets MSHA flame resistance specifications & EN853 Type 2SN requirements.



Temperature Range: -40°C (-40°F) to +100°C (212°F)

Construction: Tube: Black seamless, synthetic rubber. Cover: Black, oil and weather resistant, synthetic rubber. Reinforcement: Two high tensile steel wire braids.

Typical Fittings: Due to the nature of this OEM hose, only factory approved customers are permitted to assemble it.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	NL326-04	.62"	5800 psi / 400 bar	3.94"	.26	B	Bulk	Bulk	\$ POR	500 ft
3/8"	NL326-06	.78"	4800 / 330	5.12	.36	B	Only	Only	POR	500
1/2"	NL326-08	.91"	4000 / 275	7.09	.43	A	-	-	POR	500
3/4"	NL326-12	1.09"	3125 / 215	9.45	.62	C	Bulk	Bulk	POR	250
1"	NL326-16	1.53"	2400 / 165	11.81	.87	B	Only	Only	POR	250

♦ A = Very Common Item - Good Stock ♦ B = Common Item - Moderate Stock
♦ C = Less Common Item ♦ P = Production ♦ N = Check for availability



Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

GH781 is a very popular double wire braid hydraulic hose for medium to high pressure lines requiring a 'compact', highly flexible hose such as grease lines, water lines, oil lines, and other hydraulic applications. Being a "Matchmate" & "Triple Crown" product, it is not only designed to reduce assembly time and simplify identification when coupling (contact us for more information) it is also manufactured with advanced technology & superior rubber compounds allowing for increased pressure ratings, greater temperature range & better abrasion resistance as compared to other SAE100R16 hoses - making it truly a longer lasting product. It meets/exceeds DIN requirements at half the bend radius of standard SAE hoses. It will handle petroleum based hydraulic fluids, gasoline, diesel, and lubricating oils. Its cover is resistant to abrasion, oil, and weathering. GH781 meets MSHA flame resistance specifications, USCG/MMT SAE J1942 (contact New-Line for exact approvals), EN 857 Type 2SC, DNV, ABS, DIN 20 022 Type 2SN, and SAE100R16 requirements.



MatchMate® Global DURA-TUFF

Temperature Range: NEW 2013 -45°C (-50°F) to +127°C (260°F)

Construction: Tube: Black seamless, oil resistant synthetic rubber. Cover: DURA-TUFF black, high quality, oil, abrasion and weather resistant synthetic rubber. Reinforcement: Two braid high tensile steel wire.

Typical Fittings: 1A Series permanent crimp. **This hose is not rated for use with field attachable fittings.**

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	GH781-4	.53"	6500 psi / 448 bar	2.0"	.22	A	\$ 7.70	\$ 6.37	\$ 5.79	250 ft
3/8	GH781-6	.69	5300 / 366	2.5	.29	A	8.99	7.45	6.77	250
1/2	GH781-8	.81	4500 / 310	3.5	.39	A	9.98	8.43	7.66	250
5/8	GH781-10	.93	4000 / 276	4.0	.44	A	13.23	11.09	10.08	250
3/4	GH781-12	1.10	3500 / 241	4.75	.53	B	15.99	13.30	12.09	250
1	GH781-16	1.42	3000 / 207	6.00	.72	B	21.04	17.44	15.85	150
1-1/4	GH781-20	1.65	2500 / 172	8.25	1.09	B	39.99	-	30.79	50
1-1/2	GH781-24	2.03	2000 / 138	10.0	1.40	C	48.39	-	37.24	50
2	GH781-32	2.53	1600 / 110	12.5	1.90	C	55.13	-	42.44	50

FC735 ~ BRUISER SAE100R16AT/DIN 20 022 TYPE 2SC DOUBLE WIRE

FC735 is an extremely tough, flexible, double wire braid hydraulic hose. It incorporates the BRUISER cover which is truly extra-heavy duty for applications where abrasion (which eventually leads to hose failure) is a problem and a protective wrap would typically be required. Seeing is believing, the cover is very difficult to dig into and tests show it is more abrasion resistant than traditional rubbers. This hose is also much more flexible than standard SAE hoses. It will handle petroleum based hydraulic fluids, gasoline, water, diesel, and lubricating oils.



Temperature Range: -40°C (-40°F) to +100°C (212°F)

Construction: Tube: Black seamless, oil resistant synthetic rubber. Cover: Black oil, abrasion, and weather resistant synthetic rubber intermediate cover with additional extremely abrasion resistant BRUISER outer cover. Reinforcement: Two braid high tensile steel wire.

Typical Fittings: 1A Series permanent crimp.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	FC735-04	.53"	5000 psi / 350 bar	2.0"	.22	N	\$ 11.31	\$ 10.37	\$ 9.42	250 ft
3/8	FC735-06	.69	5000 / 350	2.5	.29	N	13.00	11.92	10.83	250
1/2	FC735-08	.81	4250 / 297	3.5	.39	C	14.82	13.59	12.35	250
5/8	FC735-10	.93	3625 / 250	4.0	.44	N	20.07	18.40	16.72	250
3/4	FC735-12	1.10	3125 / 216	4.8	.53	N	30.33	27.80	25.27	250
1	FC735-16	1.42	2500 / 175	6.0	.72	C	36.48	33.44	30.40	150
1-1/4	FC735-20	1.70	2250 / 157	8.3	1.09	N	53.86	-	44.88	50



Did you Know?

DURA-TUFF

- ✓ Provides 5-8x the abrasion resistance over standard hydraulic hose covers
- ✓ Extend service life & reduce downtime
- ✓ Now standard on all Triple Crown hose specifications

GH195 is a double wire braid hydraulic hose built with special AQP elastomers for use where higher operating temperatures are encountered and standard SAE100R2AT two-wire hose will not stand up. This hose is suitable up to 300°F with petroleum based fluids and certain fire resistant fluids (must contact Aeroquip with application). GH195 meets MSHA flame resistance specifications, ABS, EN 853 Type 2SN, DIN 20 022 Type 2SN, and SAE100R2AT requirements.




Temperature Range: -40°C (-40°F) to +150°C (300°F). AQP is not rated for steam use.

Construction: Tube: Black AQP elastomer. Cover: Blue oil and weather resistant AQP elastomer. Reinforcement: Two high tensile brass plated steel wire braids.

Typical Fittings: 1A Series permanent crimp.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	GH195-4	.60"	5750 psi / 400 bar	4.0"	.27	C	\$ 16.73	\$ 15.34	\$ 13.94	250 ft
3/8	GH195-6	.75	5000 / 350	5.0	.39	C	19.30	17.69	16.08	250
1/2	GH195-8	.87	4250 / 297	7.0	.46	C	22.48	20.61	18.73	250
5/8	GH195-10	.99	3250 / 227	8.0	.54	C	26.74	24.51	22.28	250
3/4	GH195-12	1.16	3000 / 210	9.5	.67	C	30.36	27.83	25.30	250
1	GH195-16	1.49	2500 / 175	12.0	.97	C	39.11	35.85	32.59	150
1-1/4	GH195-20	1.92	2250 / 157	16.5	1.60	C	63.88	-	53.23	50
1-1/2	GH195-24	2.15	1750 / 122	20.0	1.74	C	70.91	-	59.09	50
2	GH195-32	2.67	1500 / 105	25.0	2.27	C	94.00	-	78.33	50



Did you Know?

After 30 hours of testing in a oil bath @ 150°C (300°F) standard SAE Buna-N tube compound becomes completely rigid & brittle, while AQP elastomer remains flexible & robust!

Standard SAE Buna-N Hi-Temp AQP Elastomer

GH120 ~ MATCHMATE GLOBAL ICE SAE100R16/DIN 20 022 TYPE 2SC DOUBLE WIRE

GH120 Matchmate ICE is a flexible, double wire braid hydraulic hose for medium to high pressure applications specifically in extremely cold environments. Being a "Matchmate" & "Triple Crown" product, it is not only designed to reduce assembly time and simplify identification when coupling (contact us for more information) it is also manufactured with advanced technology & superior rubber compounds allowing for increased pressure ratings, greater temperature range & better abrasion resistance as compared to other SAE100R16 hoses - making it truly a longer lasting product. It will handle petroleum based hydraulic fluids, gasoline, diesel, and lubricating oils. Its cover is resistant to general abrasion, oil, and weathering. GH120 meets MSHA flame resistance specifications.



MatchMate® Global ICE™ DURA-TUFF

Temperature Range: -57°C (-70°F) to +100°C (212°F)

Construction: Tube: Black seamless, oil resistant synthetic rubber. Cover: DURA-TUFF black oil, abrasion and weather resistant synthetic rubber. Reinforcement: Two braid high tensile steel wire.

Typical Fittings: 1A Series permanent crimp.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	GH120-4	.56"	6000 psi / 414 bar	2.0"	.20	C	\$ 8.25	\$ 7.56	\$ 6.87	500 ft
3/8	GH120-6	.68	5000 / 345	2.5	.27	C	9.04	8.29	7.53	500
1/2	GH120-8	.82	4500 / 310	3.5	.39	C	11.46	10.51	9.55	500
5/8	GH120-10	.98	4000 / 276	4.0	.50	N	18.29	15.68	13.06	250
3/4	GH120-12	1.12	3500 / 241	4.75	.62	C	17.20	15.77	14.33	250
1	GH120-16	1.41	2800 / 193	6.00	.82	C	23.42	21.47	19.51	150
1-1/4	GH120-20	1.71	2300 / 159	8.25	1.07	N	44.04	-	36.70	50
1-1/2	GH120-24	2.03	2000 / 138	10.0	1.42	N	53.25	-	44.37	50
2	GH120-32	2.51	1500 / 103	12.5	1.88	N	60.60	-	50.50	50

◆ A = Very Common Item - Good Stock ◆ B = Common Item - Moderate Stock
◆ C = Less Common Item ◆ P = Production ◆ N = Check for availability



Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

GH493 is a high pressure, four-spiral hose which exceeds SAE100R12 requirements and meets 4SP performance in sizes -6 thru -16, but is more flexible (NEW design) and also meets MSHA flame resistance specifications, is USCG/MMT SAE J1942 listed (contact factory for exact USCG approvals), and meets DNV and ABS requirements. When used in conjunction with MatchMate TTC12 fittings this hose offers very high pressure at half the bend radius of standard SAE hoses and competing brands - thereby permitting easier installation and routing. Being a "Matchmate" & "Triple Crown" product, it is not only designed to reduce assembly time and simplify identification when coupling (contact us for more information) it is also manufactured with advanced technology & superior rubber compounds allowing for increased pressure ratings, greater temperature range & better abrasion resistance as compared to other SAE100R12 hoses - making it truly a longer lasting product. It will handle petroleum based hydraulic fluids, water, gasoline, diesel, and lubricating oils. Its cover is resistant to abrasion, oil, and weathering.



MatchMate® Global DURA-TUFF

Temperature Range: -40°C (-40°F) to +127°C (260°F) - higher temperatures available with the AQP construction on FC324 Series.
Construction: Tube: Black seamless, oil resistant synthetic rubber. Cover: DURA-TUFF black, high quality, oil, abrasion and weather resistant synthetic rubber. Reinforcement: Four high tensile steel wire spirals.
Typical Fittings: *This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully. 1B Series permanent crimp.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
3/8"	GH493-6	.79	6500 psi / 448 bar	2.5"	.47	C	\$ 19.36	\$ 17.75	\$ 16.13	250 ft
1/2	GH493-8	.92	6000 / 414	3.5	.59	A	20.73	19.00	17.27	250
5/8	GH493-10	1.11	6000 / 414	4.0	.69	C	25.71	23.57	21.42	200
3/4	GH493-12	1.20	5500 / 379	4.75	.92	A	25.31	23.20	21.09	200
1	GH493-16	1.48	5100 / 352	6.00	1.22	A	28.96	26.55	24.13	150
1-1/4	GH493-20	1.83	4500 / 310	8.25	1.64	B	51.24	0.00	42.70	50
1-1/2	GH493-24	2.12	4000 / 276	10.0	2.10	C	64.34	0.00	53.61	50
2	GH493-32	2.64	4000 / 276	12.5	2.81	C	91.89	0.00	76.57	50

*This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully.

FC736 ~ BRUISER SAE100R12 4-SPIRAL

FC736 is an extremely tough, flexible, 4-spiral hydraulic hose. It incorporates the BRUISER cover which is truly extra-heavy duty for applications where abrasion (which eventually leads to hose failure) is a problem and a protective wrap would typically be required. Seeing is believing, the cover is very difficult to dig into and tests show it is more abrasion resistant than traditional rubbers. This hose is also much more flexible than standard SAE hoses. It will handle petroleum based hydraulic fluids, gasoline, water, diesel, and lubricating oils.



Temperature Range: -40°C (-40°F) to +121°C (250°F)
Construction: Tube: Black seamless, oil resistant synthetic rubber. Cover: Black oil, abrasion, and weather resistant synthetic rubber intermediate cover with additional extremely abrasion resistant BRUSIER outer cover. Reinforcement: Four heavy spirals of high tensile steel wire.
Typical Fittings: *This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully. 1B Series permanent crimp.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
3/8"	FC736-06	.79	5500 psi / 280 bar	5.0"	.47	N	\$ 30.79	\$ 26.39	\$ 21.99	250 ft
1/2	FC736-08	.92	5000 / 280	7.0	.59	N	35.42	30.36	25.30	250
5/8	FC736-10	1.11	5000 / 280	9.5	.80	N	41.08	35.21	29.34	250
3/4	FC736-12	1.20	4050 / 280	9.5	.92	C	43.96	37.68	31.40	200
1	FC736-16	1.48	4050 / 280	12.0	1.22	C	57.04	48.89	40.74	150
1-1/4	FC736-20	1.83	3050 / 210	16.5	1.64	N	83.13	-	69.27	50

*This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully.

Hydraulic

17



Did you Know?

We can supply Eaton STC Push-to-Connect Crimp Fittings & Adapters!





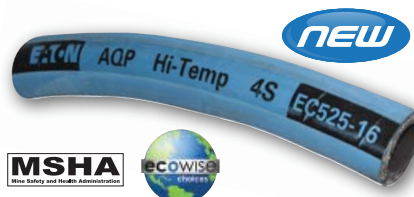


Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

Industry Flows Through Us™
©2015 New-Line Hose & Fittings

◆ A = Very Common Item - Good Stock ◆ B = Common Item - Moderate Stock
◆ C = Less Common Item ◆ P = Production ◆ N = Check for availability

EC525 is used in similar applications as other 4-spiral hose, but is made of special high temperature AQP "Plus" elastomers making it the only high temperature 4-spiral hose approved for use with TTC12 crimp fittings. EC525 is rated for operating temperatures of petroleum based fluids up to +150°C (302°F).



Temperature Range: -40°C (-40°F) to +150°C (302°F). Air not to exceed +121°C (250°F). AQP is not rated for steam use.
Construction: Tube: Black seamless, oil resistant AQP PLUS elastomer. Cover: Blue oil and weather resistant AQP PLUS elastomer.
Reinforcement: Four high tensile steel wire spirals.

Typical Fittings: *This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully. 1B Series permanent crimp.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
3/4"	EC525-12	1.24"	5000 psi / 345 bar	9.5"	0.86	N	\$ POR	\$ POR	\$ POR	150 ft
1	EC525-16	1.52	5000 / 345	12.0	1.16	C	POR	POR	POR	100
1 1/4	EC525-20	1.87	3500 / 240	16.5	1.55	C	POR	POR	POR	50
1 1/2	EC525-24	2.16	3500 / 240	20.0	1.99	C	POR	POR	POR	50
2	EC525-32	2.70	3250 / 225	25.0	2.97	N	POR	POR	POR	50

*This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully.

Industry Flows Through Us



EC525 AQP "PLUS" is ideal for high temperature environments!

FC254 ~ SAE100R11 4-SPIRAL

FC254 is an ultra high pressure, high temperature, four-spiral heavy steel wire reinforced hose that is used for higher pressures than SAE100R12, up to 7700 psi (depending on size). Being a "Triple Crown" product, it is manufactured with advanced technology & superior rubber compounds allowing for increased pressure ratings, greater temperature range & better abrasion resistance as compared to other SAE100R11 hoses - making it truly a longer lasting product. Its cover is abrasion, oil, and weather resistant. FC254 meets MSHA flame resistance, USCG/MMT SAE J1942 (contact New-Line for exact approvals), DNV, and ABS requirements.



DURA-TUFF

Temperature Range: -40°C (-40°F) to +127°C (260°F)

Construction: Tube: Black seamless, oil resistant synthetic rubber. Cover: DURA-TUFF black, high quality, oil, abrasion and weather resistant synthetic rubber. Reinforcement: Four heavy spirals of high tensile steel wire.

Typical Fittings: *This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully. 1E Series permanent crimp for all sizes except 1/2" which uses Internal Skive crimp fittings, contact customer service for further details.

Inside Diameter	Part #	Outside Diameter	*W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/2"	FC254-08*	.98"	7700 psi / 530 bar	8.0"	.72	C	\$ 24.65	\$ POR	\$ 24.65	150 ft
3/4	FC254-12	1.26	7500 / 517	11.0	1.06	C	27.51	POR	27.51	150
1	FC254-16	1.52	5900 / 406	12.0	1.32	C	35.51	POR	35.51	150
1-1/4	FC254-20	1.80	5100 / 351	16.5	1.63	N	46.30	POR	46.30	50
1-1/2	FC254-24	2.13	4350 / 300	20.0	2.03	C	48.54	POR	48.54	50
2	FC254-32	2.68	4000 / 280	25.0	3.02	B	53.33	POR	53.33	50

*This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully. 1/2" requires internal skive fittings.



FC500 (replaces FC273) is manufactured with the latest technologies, advanced materials and compounds which permits a dramatic improvement in flexibility, durability and pressure rating. In fact, FC500 exceeds SAE100R13 heavy spiral high pressures at the 1/2 the bend radius & 46% lower "Force-To-Bend". This hose also utilizes 1E series TTC crimp fittings (in all sizes up to -24) permitting for less inventory of duplicate end configurations. FC500 incorporates multiple heavy spiral steel wires for severe pressure or high impulse hydraulic service in drilling, construction, mining, or forestry applications. FC500 will handle petroleum based hydraulic fluids, water, gasoline, diesel, and lubricating oils. Its DURA-TUFF cover is resistant to abrasion, oil, and weathering. FC500 meets MSHA flame resistance specifications and exceeds SAE100R13 requirements at half the bend radius.



Image shows X-Flex FC500 at 1/2 standard SAE100R13 bend radius



DURA-TUFF

Temperature Range: -40°C (-40°F) to +127°C (260°F)

Construction: Tube: Black seamless, oil resistant synthetic rubber. Cover: DURA-TUFF black, high quality, oil, abrasion and weather resistant synthetic rubber. Reinforcement: -12 to -24 have four heavy spiraled layers and -32 has six heavy spiraled layers of high tensile steel wire.

Typical Fittings: *This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully. 1E Series permanent crimp for sizes -12 to -24, 1Z Series permanent crimp for -32 size.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
3/4"	FC500-12	1.26"	5076 psi / 350 bar	4.75"	.84	C	\$ 40.31	\$ 36.95	\$ 33.59	300 ft
1	FC500-16	1.54	5076 / 350	6.00	1.24	B	52.25	47.90	43.54	300
1-1/4	FC500-20	1.85	5076 / 350	8.25	1.69	B	60.82	55.75	50.68	150
1-1/2	FC500-24	2.17	5076 / 350	10.0	2.25	C	82.30	75.44	68.58	150
2	FC500-32	2.86	5076 / 350	12.5	4.06	C	130.13	119.29	108.44	150

*This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully.



Did you Know?

- ✓ 46% Less Force to Bend
- ✓ 1/2 SAE Minimum Bend Radius
- ✓ 5076 psi / 350 BAR in All Sizes

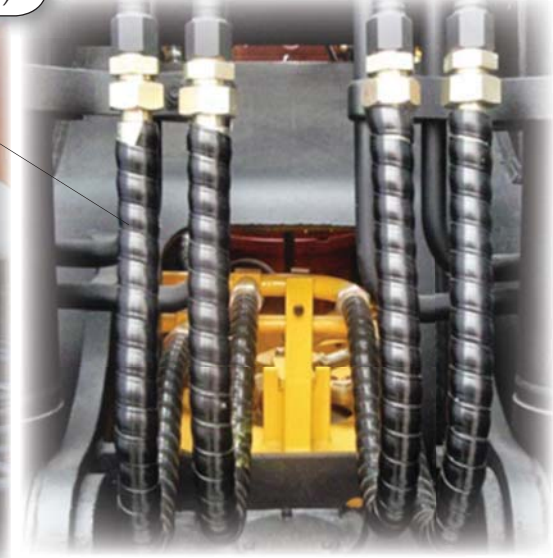
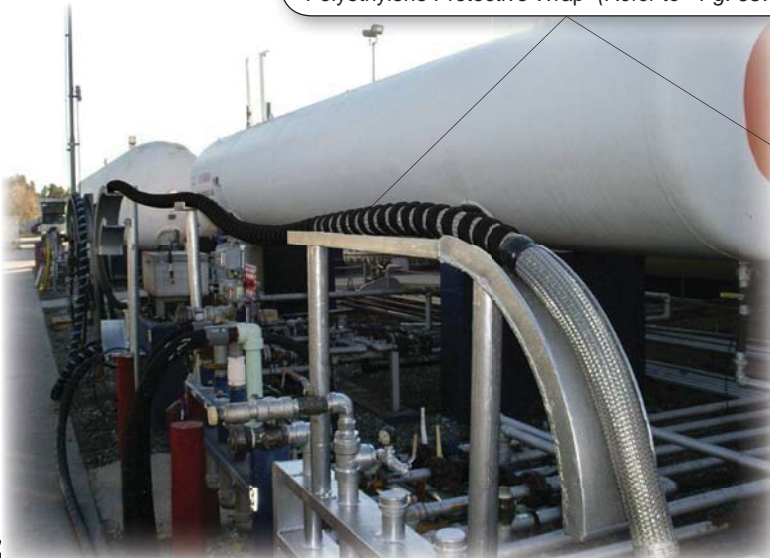
Features of X-Flex



Images show N60010 series Heavy Duty Extruded Polyethylene Protective Wrap (Refer to - Pg. 637)

Hydraulic

17



19:



Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

Industry Flows Through Us™
© 2015 New-Line Hose & Fittings

◆ A = Very Common Item - Good Stock ◆ B = Common Item - Moderate Stock
◆ C = Less Common Item ◆ P = Production ◆ N = Check for availability

EC810 Ice Champion takes the bite out of cold temperature applications. This spiral wire hose withstands temperatures as low as -57°C (-70°F) and pressures as high as 6,100 psi (420 bar), making it ideal for hydraulic system use in frigid polar climates. EC810 Ice Champion hose is rugged MSHA approved and abrasion-resistant cover, making it a suitable choice for extreme-duty applications including construction equipment, oil and gas rigs, mining equipment, and other high pressure applications in frigid environments.



Temperature Range: -57°C (-70°F) to +100°C (212°F).

Construction: Tube: Black seamless, oil resistant synthetic rubber. Cover: Black oil and weather resistant synthetic rubber.

Reinforcement: -12 & -16 have four heavy spiraled layers and -20 to -32 have six heavy spiraled layers of high tensile steel wire.

Typical Fittings: *This is a **CRITICAL PRESSURE HOSE**, follow assembly procedures carefully. 1E Series permanent crimp for sizes -12 to -16, 1Z Series for -20 to -32.

Inside** Diameter	Part #	Outside Diameter	*W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
3/4"	EC810-12	1.29	6100 psi / 420 bar	11.0"	1.08	C	\$ 37.70	\$ 34.56	\$ 31.41	200 ft
1	EC810-16	1.57	6100 / 420	13.4	1.36	C	46.68	42.79	38.90	150
1-1/4	EC810-20	1.94	6100 / 420	16.5	2.39	C	69.84	POR	58.20	50
1-1/2	EC810-24	2.25	6100 / 420	20.1	3.19	C	98.31	POR	81.92	50
2	EC810-32	2.82	5100 / 350	24.8	4.50	C	134.85	POR	112.37	50

*This is a **CRITICAL PRESSURE HOSE**. follow assembly procedures carefully.

Industry Flows Through Us



EC810 ICE Champion is ideal for extreme cold temperature environments!

FC606 ~ SAE100R15 6-SPIRAL

FC606 is an ultra-high pressure (all sizes 6000 psi), high temperature, six-spiral heavy steel wire reinforced hose that is used for higher pressures than SAE100R11, R12, and R13. Its cover is abrasion, oil, and weather resistant. FC606 meets MSHA flame resistance specifications, ABS, SAE100R15 requirements.

SPECIAL NOTE: Modern manufacturing methods by Eaton have permitted higher working pressures in lighter hoses with less spirals; also consider utilizing our EC810 Ice Champion 6100 psi 4-6 spiral wire hose as well.



Temperature Range: -40°C (-40°F) to +121°C (250°F); FC606-24 up to +100°C (212°F) only.

Construction: Tube: Black seamless, oil resistant synthetic rubber. Cover: DURA-TUFF black, high quality, oil, abrasion and weather resistant synthetic rubber. Reinforcement: Six heavy spirals of high tensile steel wire.

Typical Fittings: *This is a **CRITICAL PRESSURE HOSE**, follow assembly procedures carefully. 1Z Series permanent crimp.

Inside Diameter	Part #	Outside Diameter	*W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Bulk Price/ft	Bulk Length
1"	FC606-16	1.65"	6000 psi / 420 bar	12.0"	1.79	C	\$ 80.63	\$ 73.30	50 ft
1-1/4	FC606-20	1.95	6000 / 420	16.5	2.43	C	90.12	81.92	50
1-1/2	FC606-24	2.30	6000 / 420	20.0	3.17	C	113.98	103.61	50

*This is a **CRITICAL PRESSURE HOSE**, follow assembly procedures carefully.

Hydraulic

17



Over the years, hydraulic system pressures have steadily increased, higher pressures provide greater power, EC850 DYNAMAX is designed for such demanding applications! DYNAMAX is manufactured with the latest technologies, advanced materials and compounds which permits a dramatic improvement in flexibility, durability and pressure rating. In fact, EC850 exceeds EN856/4SP (Size -10) & SAE100R15 (Sizes -12 thru -20) heavy spiral high pressures with 10% reduced bend radius, 27% lower "Force-To-Bend", and 8x better abrasion resistance. To ensure long-lasting and effective hose performance, specific tests on EC850 were performed up to three million impulse cycles at working pressure, as compared to typical spiral hose specifications which require substantially fewer impulse cycles. Eaton's EC850 DYNAMAX hose and fitting combination yielded a cool down leakage of Class 0 in accordance with SAE J1176.

DYNAMAX incorporates multiple heavy spiral steel wires for severe pressure or high impulse hydraulic service in drilling, construction, mining, or forestry applications. It will handle petroleum based hydraulic fluids, water, gasoline, diesel, and lubricating oils. Its DURA-TUFF cover is resistant to abrasion, oil, and weathering. This hose meets IC-84, DIN 5510 & MSHA flame resistance specifications.



Temperature Range: -40°C (-40°F) to +100°C (212°F)

Construction: Tube: Black seamless, oil resistant synthetic rubber. Cover: DURA-TUFF black, high quality, oil, abrasion and weather resistant synthetic rubber. Reinforcement: -10, -12 & -16 have four heavy spiralled layers and -20 has six heavy spiralled layers of high tensile steel wire.

Typical Fittings: *This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully. 1W Series skive fittings.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Bulk Price/ft	Bulk Length
5/8"	EC850-10	1.14"	7250 psi / 500 bar	7.8"	0.82	N	\$ POR	\$ POR	50 ft
3/4"	EC850-12	1.31"	7250 / 500	8.5"	1.01	C	POR	POR	50
1"	EC850-16	1.59"	7250 / 500	10.6"	1.54	C	POR	POR	50
1 1/4"	EC850-20	2.00"	7250 / 500	15.0"	2.69	N	POR	POR	50

*This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully.

Industry Flows Through Us



Hydraulic

17



Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

Industry Flows Through Us™

©2015 New-Line Hose & Fittings

♦ A = Very Common Item - Good Stock ♦ B = Common Item - Moderate Stock
♦ C = Less Common Item ♦ P = Production ♦ N = Check for availability

FC619 is a low pressure, wire helix reinforced, hydraulic return line (or suction hose up to 25"/Hg). Depending on the application, temperature, and pressure range, many users prefer to use our NL3020/NL3025 Petroleum or NL4940 Wonderflex where an SAE branded product is **not** required. FC619 will handle petroleum based hydraulic fluids, water, gasoline, diesel, and lubricating oils. Sizes -40 & -48 are not available in the FC619 series although they are available, upon special request, in our 2661 series. 2661 is made with a special AQP elastomer which allows for a higher temperature range. FC619 & 2661 both meet MSHA flame resistance specifications.



Temperature Range: -40°C (-40°F) to +135°C (275°F); -40 & -48 up to +150°C (300°F)

Construction: Tube: -12 to -32 Black seamless, oil resistant synthetic rubber, -40 & -48 AQP elastomer tube. Cover: -12 to -32 Black oil, abrasion and weather resistant synthetic rubber, -40 & -48 Blue AQP elastomer cover. Reinforcement: Textile reinforcement with steel wire helix.

Typical Fittings: 1A Series permanent crimp (1AV for -20 size), 1G Series permanent crimp, FC8150 Series crimp, and certain barbed industrial fittings in non-SAE applications. We do not recommend the use of gear clamps on this hose (rated working pressures vary significantly depending on the clamping method).

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Bulk Price/ft	Bulk Length
3/4"	FC619-12	1.21"	300 psi	2.5"	.46	C	\$ 21.78	\$ 18.15	50 ft
1	FC619-16	1.48	250	3.0	.56	A	20.66	17.21	50
1-1/4	FC619-20	1.75	200	4.0	.78	A	27.02	22.51	50
1-1/2	FC619-24	2.04	150	5.0	1.00	B	32.44	27.03	50
2	FC619-32	2.55	100	6.0	1.23	C	39.69	33.07	50
2-1/2	2661-40	3.08	60	14.0	1.72	N	118.23	98.52	50
3	2661-48	3.58	60	18.0	1.96	N	134.36	111.96	50

*Also see NL3020 Petroleum Transfer and NL4940 Wonderflex for applications where an SAE product is not required.

Eliminator HTP

Eliminate Contamination
In Hose, Tube & Pipe

www.new-line.com



Actual projectile after cleaning a NEW hose assembly! (Refer to section Z - Hose Protection & Cleaning of this catalogue).

Images show N60010 series Heavy Duty Extruded Polyethylene Protective Wrap (Refer to - Pg. 637)



FC579 is an easily recognized/branded, high quality, safe, double wire braided non-skive hydraulic hose which is suitable for most high pressure hydraulic jacks and other high pressure tool applications. This hose meets Material Handling Institute Specification IJ100 and is MSHA approved. Popular assemblies are listed below. ***This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully.**



AFC579 With Cuffs
(suffix -91 & -92)



AFC579 No Cuffs
(suffix -89 & -90)



This is a **CRITICAL PRESSURE HOSE**, follow assembly procedures carefully.

Temperature Range: -40°C (-40°F) to +100°C (212°F)

Construction: Tube: Black seamless, oil resistant synthetic rubber. Cover: Black oil, abrasion and weather resistant synthetic rubber. Reinforcement: Two high tensile steel wire braids.

Typical Fittings: ***This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully.** ONLY Solid Male NPT Series or 1A Series permanent crimp recommended (do NOT use male NPT "swivel" ends or JIC ends due to pressure ratings, surges and swivel integrity). Hydraulic jack hose quick disconnect couplings, bend restrictors are optional and are not included on Jack hose assemblies.

Inside Diameter	Part #	Outside Diameter	*W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	FC579-04	.53"	10000 psi / 700 bar	2.0"	.22	B	\$ 10.68	\$ 9.79	\$ 8.90	600 ft
3/8"	FC579-06	.69"	10000 / 700	2.5"	.29	C	11.70	10.73	9.75	600

***This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully.**

Size	Length	Part Number	Ends	Weight	◆ Stk	Price/ea
1/4"	Various	AFC57904X_-90	1/4" MNPT		B	\$ POR
1/4"	Various	AFC57904X_-89	3/8" MNPT		C	POR
3/8"	Various	AFC57906X_-90	3/8" MNPT		B	POR

***Bend restrictors are not included on Jack hose assemblies.**

NL460 is lower priced alternative to other brand name high pressure jack hoses. This hose is a double wire braided non-skive hydraulic hose which is suitable for most high pressure hydraulic jacks and other high pressure tool applications. This hose meets Material Handling Institute Specification IJ100. ***This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully.**



This is a **CRITICAL PRESSURE HOSE**, follow assembly procedures carefully.

Temperature Range: -40°C (-40°F) to +100°C (212°F)

Construction: Tube: Black seamless, oil resistant nitrile rubber. Cover: Black oil, abrasion and weather resistant neoprene rubber. Reinforcement: Two high tensile steel wire braids.

Typical Fittings: ***This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully.** N60411 Solid Male NPT crimp (do NOT use male NPT "swivel" ends or JIC ends due to pressure ratings, surges and swivel integrity).

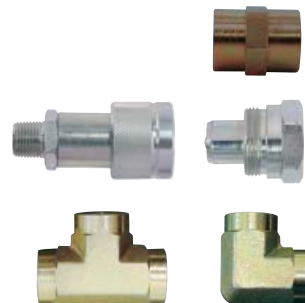
Inside Diameter	Part #	Outside Diameter	*W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	NL460-04	.55"	10,000 psi / 700 bar	2.0"	-	C	\$ 4.30	\$ 3.94	\$ 3.58	600 ft
3/8"	NL460-06	.67"	10,000 / 700	2.5"	-	C	5.07	4.65	4.65	600

***This is a CRITICAL PRESSURE HOSE, follow assembly procedures carefully.**



Did you Know?

We also carry Jack Hose Quick Connects & 10,000psi Hydraulic Adapters!



EATON Synflex Hose Selection Chart

Synflex® Series	SAE Standard	Polyon Equivalent	Pressure Range	Temp Range	Key Features & Applications
3130	100R7	FC372	1,000-3,000 psi	-40°C (-40°F) to +100°C (+212°F)	General Hydraulics/Pneumatics, Best Value 100R7
3770-21	100R7	FC902	1,000-3,000 psi	-40°C (-40°F) to +100°C (+212°F)	General Hydraulics/Pneumatics, Best Value 100R7
30CT	100R18	N/A	3,000 psi	-54°C (-65°F) to +94°C (+200°F)	General Hydraulics, Cold Temp Applications
3740	100R7/ANSI	FC373	1,000-3,000 psi	-40°C (-40°F) to +100°C (+212°F)	Aerial Lift Equipment, General Hydraulics
37AL	100R7/ANSI	FC373	3,000 psi	-54°C (-65°F) to +100°C (+212°F)	Aerial Lift Equipment, General Hydraulics
3770-27A	100R7/ANSI Twin	FC901	3,000 psi	-54°C (-65°F) to +100°C (+212°F)	Aerial Lift Equipment, General Hydraulics
3800	100R8	FC374	3,500-5,000 psi	-40°C (-40°F) to +100°C (+212°F)	Greater Hose Performance w/100R7 Dimensions
3770-28	100R8	FC914	3,500-5,000 psi	-40°C (-40°F) to +100°C (+212°F)	Greater Hose Performance w/100R7 Dimensions
3R80	100R8	N/A	2,000-5,000 psi	-40°C (-40°F) to +100°C (+212°F)	Long Life in High Impulse & Flexing Applications
3VE0	N/A	N/A	8,000-10,000 psi	-40°C (-40°F) to +66°C (+150°F)	Very High Pressure, Rescue Equipment Applications

3130 ~ SAE100R7 BLACK THERMOPLASTIC SINGLE & TWINLINE

3130 is a black, polyurethane covered hose for medium pressure applications (same working pressure as SAE100R1 rubber hose) but is used where a rubber hose is not suitable. This hose is widely found in instrumentation and control applications because of its low expansion in impulse applications, such as on hydraulic lifts. This low expansion permits more accurate control and more direct response, whereas a rubber hose with wire reinforcement will tend to slightly flex or bulge. It is a lightweight hose that is highly compact and resistant to a wide range of fluids and chemicals.

Eaton Synflex has designed a thermoplastic crimp sleeve which allows this hose to be crimped with their standard 1A-Series crimp fittings. Synflex crimp sleeves allow for reduced inventory of duplicate thread configurations and also offer more readily available end configurations with their broad line of 1A series crimp fittings. Refer to the Crimp Fittings Section.



3130 Single Line



3130-Size-2 Twinline (old spec 3770-21)

EATON | Synflex

Temperature Range: -40°C (-40°F) to +100°C (212°F); can be used up to +66°C (150°F) with water based or fire-resistant fluids.
Construction: Tube: Seamless, oil resistant nylon. Cover: Black, oil & abrasion resistant polyurethane (pin pricked). Reinforcement: Spiraled or braided synthetic fibre braid.

Typical Fittings: Series 903 swage/crimp fittings, **NEW** 1A Series Crimp with Synflex Thermoplastic Crimp Sleeve (-04 to -16 only).

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
Single Line										
1/8***	3130-02	.33"	2500 psi / 175 bar	0.5"	.03	A	\$ 3.28	\$ 3.01	\$ 2.73	250 ft
3/16	3130-03	.43	3000 / 210	0.8	.05	B	3.60	3.30	3.00	250
1/4	3130-04	.51	3000 / 2100	1.3	.06	A	3.89	3.57	3.24	250/750
5/16	3130-05	.59	2500 / 175	1.8	.08	C	4.65	4.26	3.87	250/500
3/8	3130-06	.66	2250 / 157	2.0	.09	A	4.92	4.51	4.10	250/500
1/2	3130-08	.82	2000 / 140	3.0	.12	B	6.27	5.75	5.22	250/400
3/4	3130-12	1.07	1250 / 87	5.0	.18	B	13.01	11.93	10.84	200
1	3130-16	1.34	1000 / 70	8.0	.31	N	18.42	16.89	15.35	200
Twin-Line***										
1/4"	3130-04-2	.51"	3000 psi / 210 bar	1.3"	.12	C	\$ 7.05	\$ 6.46	\$ 5.87	250/500 ft
5/16	3130-05-2	.59	2500 / 175	1.8	.08	N	POR	POR	POR	250/500 new
3/8	3130-06-2	.66	2250 / 157	2.0	.18	C	9.04	8.29	7.53	250/500
1/2	3130-08-2	.82	2000 / 140	3.0	.24	C	15.03	13.78	12.52	250/400
Eaton Polyon Brand - Discontinued Product in Stock While Supplies Lasts										
5/16"	FC902-02	.59	2500 / 172 bar	1.8"	.18	C	\$ 5.04	\$ 4.62	\$ 4.20	250 ft
3/4	FC902-05	1.07	1250 / 86	5.0	.54	C	7.85	7.20	6.54	50

*Always confirm inside diameter to corresponding dash size.

**SAE100R7 rating does not apply to 1/8" size.

**3130-Size-2 Twinline used to be spec 3770-21.



3580 is a black, polyurethane covered hose for medium pressure applications (meets or exceeds SAE100R1 rubber hose specifications) but is used where a rubber hose is not suitable. It offers the same low expansion in impulse applications advantage of a thermoplastic hose, however, it incorporates a wire braid for more rugged environments where crushing or gouging of regular thermoplastic hoses is a concern. This hose is widely found in instrumentation and control applications in impulse applications, such as on truck mounted cranes, forestry delimiters & hydraulic lifts.

EATON | Synflex



Temperature Range: -40°C (-40°F) to +107°C (225°F); can be used up to +60°C (140°F) with water based or fire-resistant fluids.
Construction: Tube: Seamless, oil resistant polyester elastomer. Cover: Black, oil & abrasion resistant polyurethane (pin pricked).
Reinforcement: One high tensile bronze-coated steel wire braid.
Typical Fittings: Series 903 swage/crimp fittings.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	3580-04	.51"	3500 psi / 240 bar	1.75	.10	N	\$ POR	\$ POR	\$ POR	250/500
3/8"	3580-06	.66"	3250 / 225	2.25	.18	C	POR	POR	POR	250/500
1/2"	3580-08	.82"	3000 / 207	3.25	.21	C	POR	POR	POR	200
3/4"	3580-12	1.07"	2250 / 155	5.0	.34	N	POR	POR	POR	200

30CT ~ SAE100R18 BLACK CONSTANT PRESSURE SINGLE & TWINLINE HYX

30CT is a black, polymeric covered constant pressure hose for medium pressure applications. This hose is designed to remain flexible even at very low temperatures. Its lightweight yet rugged construction is highly compact and resistant to a wide range of fluids and chemicals. 30CT is also available in a twinline hose which would normally be found in applications where the hose travels on self retracting reels, such as on boom lines of forklifts or on hydraulic lifts where dual lines are required.

EATON | Synflex



30CT Single Line



30CT-Size-2 Twinline (old spec 3770-21)



Temperature Range: -54°C (-65°F) to +94°C (200°F); water based or fire-resistant fluids not to exceed +66°C (150°F).
Construction: Tube: Seamless, oil resistant polymeric core. Cover: Dual-line, black, oil & abrasion resistant polymeric (pin pricked).
Reinforcement: Synthetic fibre braid.
Typical Fittings: 903 swage/crimp fittings.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
Single Line										
3/16"	30CT-03	.42"	3000 psi / 210 bar	1.0"	.05	N	\$ POR	\$ POR	\$ POR	250 ft
1/4"	30CT-04	.48"	3000 / 210	1.3	.06	N	6.66	6.11	5.55	250
5/16"	30CT-05	.61"	3000 / 210	1.5	.10	C	6.95	6.37	5.79	250 NEW
3/8"	30CT-06	.66"	3000 / 210	2.0	.12	C	7.16	6.56	5.96	250
1/2"	30CT-08	.85"	3000 / 210	3.5	.17	N	8.88	8.14	7.40	250
5/8"	30CT-10	1.06"	3000 / 210	4.0	.28	N	14.01	12.84	11.67	250 NEW
Twin-Line**										
1/4"	30CT-04-2	.48"	3000 psi / 210 bar	1.3"	.06	N	\$ 7.05	\$ 6.46	\$ 5.87	250 ft
5/16"	30CT-05-2	.61"	3000 / 210	1.5	.10	C	POR	POR	POR	250 NEW
3/8"	30CT-06-2	.66"	3000 / 210	2.0	.12	C	9.04	8.29	7.53	250
1/2"	30CT-08-2	.85"	3000 / 210	3.5	.17	C	15.03	13.78	12.52	250
5/8"	30CT-10-2	1.06"	3000 / 210	4.0	.28	N	POR	POR	POR	250 NEW

**30CT-Size-2 Twinline used to be spec 3770-21.



Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

3740 is the only Eaton Synflex non-conductive hose that can be crimped using the new Eaton Synflex thermoplastic crimp sleeves. It has an orange, non-conductive, non-perforated cover so it will not allow moisture/condensation through the cover of the hose - hence allowing it to remain non-conductive (without perforations it cannot be used for air or gases). It will normally be found on machinery that has electronic or computer driven controls or is also popular on hydro or utility boom trucks (complies with ANSI A92.2 for vehicle mounted aerial devices).

Eaton Synflex has designed a thermoplastic crimp sleeve which allows this hose to be crimped with their standard 1A-Series crimp fittings. Synflex crimp sleeves allow for reduced inventory of duplicate thread configurations and also offer more readily available end configurations with their broad line of 1A series crimp fittings. Refer to the Crimp Fittings Section.

Temperature Range: -40°C (-40°F) to +100°C (212°F); water based or fire-resistant fluids not to exceed +60°C (150°F).

Construction: Tube: Seamless, oil resistant nylon. Cover: Orange, oil and abrasion resistant polyurethane (non-perforated or non-pin pricked). Reinforcement: Multiple plies high tensile synthetic fibre braid.

Typical Fittings: 903 Series swage/crimp fittings. **NEW** 1A Series Crimp with Synflex Thermoplastic Crimp Sleeve (-04 to -16 only). **This hose must be capped and plugged to prevent moisture from entering the tube.**

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	3740-04	.51"	2750 psi / 190 bar	1.3"	.07	C	\$ POR	\$ POR	\$ POR	250 ft
3/8"	3740-06	.66"	2250 / 155	2.0	0.10	C	POR	POR	POR	250
1/2"	3740-08	.82"	2000 / 138	3.0	0.14	N	POR	POR	POR	250
3/4"	3740-12	1.1"	1250 / 86	5.0	0.19	C	POR	POR	POR	250
1"	3740-16	1.3"	1000 / 69	8.0	0.26	N	POR	POR	POR	250



37AL ~ SAE100R7 ORANGE NON-CONDUCTIVE SINGLE & TWINLINE

37AL is similar to 3130 except this hose has an orange, non-conductive, non-perforated cover so it will not allow moisture/condensation through the cover of the hose - hence allowing it to remain non-conductive (without perforations it cannot be used for air or gases). It will normally be found on machinery that has electronic or computer driven controls or is also popular on hydro or utility boom trucks (complies with ANSI A92.2 for vehicle mounted aerial devices). If conductivity is not an issue, see our black 3130 SAE100R7. It can be used in non-flexing applications down to -54°C (-65°F).

Temperature Range: -54°C (-65°F) to +100°C (212°F); water based or fire-resistant fluids not to exceed +60°C (140°F).

Construction: Tube: Seamless, oil resistant polyester elastomer (non-conductive). Cover: Orange, oil & abrasion resistant polyurethane (NON-perforated or NON-pin pricked). Reinforcement: Synthetic fibre braid.

Typical Fittings: 903 Series swage/crimp fittings, 902 Series Field attachable fittings. **This hose must be capped and plugged to prevent moisture from entering the tube.**

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	♦ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk* Length
Single Line										
3/16"	37AL-03	.43"	3000 psi / 210 bar	0.4"	.05	N	\$ 6.30	\$ 5.78	\$ 5.25	250/500 ft
1/4"	37AL-04	.49"	3000 / 210	1.3	.06	C	5.72	5.24	4.76	250/500
5/16"	37AL-05	.58"	3000 / 210	1.8	.08	C	6.45	5.91	5.37	250/500
3/8"	37AL-06	.64"	3000 / 210	2.0	.10	B	5.75	5.27	4.79	250/500
1/2"	37AL-08	.82"	3000 / 210	3.0	.14	B	7.01	6.43	5.84	250/500
Twin-Line**										
1/4"	37AL-04-2	.49"	3000 psi / 210 bar	1.3"	.12	N	\$ 12.11	\$ 11.10	\$ 10.09	250 ft
3/8"	37AL-06-2	.64"	3000 / 210	2.0	.20	C	13.70	12.56	11.41	250
1/2"	37AL-08-2	.82"	3000 / 210	3.0	.28	C	15.16	13.90	12.63	250

*500ft lengths are supplied in one continuous piece.

**37AL-Size-2 Twinline used to be spec 3770-27A.



Twin-Line Separating Tool

For more information refer to the: **Miscellaneous Product - Pg. 674**



3800 is a thermoplastic hose with a high tensile aramid fibre reinforcement which permits it to be used where pressure ratings exceed SAE100R7 specifications (in fact, SAE100R8 has the same pressure ratings of SAE100R2 rubber hose). 3800 offers the performance of SAE100R8 hose with 100R7 dimensions for fitting versatility. 3800 is a low volumetric expansion hose, this low expansion permits more accurate control and more direct response, whereas a rubber hose with wire reinforcement will tend to slightly flex or bulge. For larger sizes refer to our 3R80 Series SAE100R8. This hose can be used in non-flexing applications down to -54°C (-65°F). 3800 is also available in a twinline hose which would normally be found in applications where the hose travels on self retracting reels, such as on boom lines of forklifts or on hydraulic lifts where dual lines are required.



Temperature Range: -40°C (-40°F) to +100°C (212°F); water based or fire-resistant fluids not to exceed +66°C (150°F).
Construction: Tube: Seamless, oil resistant nylon. Cover: Black, oil and abrasion resistant polyurethane (pin-pricked). Reinforcement: High tensile aramid fibre braid.
Typical Fittings: 903 Series swage/crimp fittings.

Inside* Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length	
Single Line											
1/8"	3800-02	.34"	6000 psi / 350 bar	.81"	.03	C	\$ 6.54	\$ 6.00	\$ 5.45	250 ft	NEW
3/16	3800-03	.43	5000 / 350	1.5	.06	N	9.56	8.76	7.96	250	
1/4	3800-04	.53	5000 / 350	2.0	.08	C	9.68	8.87	8.06	250	
3/8	3800-06	.68	4000 / 280	2.5	.11	C	11.36	10.41	9.46	250	
1/2	3800-08	.84	3500 / 245	4.0	.15	C	12.38	11.35	10.31	250	
Twin-Line**											
3/8"	3800-06-2	.68"	4000 psi / 280 bar	2.5"	.11	C	\$ 12.70	\$ 11.64	\$ 10.58	250 ft	
1/2	3800-08-2	.84	3500 / 245	4.0	.15	C	POR	POR	POR	250	

*1/8" available upon special request which require 98E Series permanent fittings.
 **3800-Size-2 Twinline used to be spec 3770-28.

3R80 ~ SAE100R8 BLACK THERMOPLASTIC SINGLE & TWINLINE

3R80 is a thermoplastic SAE100R8 hose that offers the same working pressures as our 3800 series but is built with heavy layers of synthetic fibre reinforcement which is designed for long life in impulse and high flexing applications. 3R80 is also designed for either permanent swage/crimp or field attachable fittings. This hose can be used in non-flexing applications down to -54°C (-65°F). Bonded hoses/twinline is available on special request.

Eaton Synflex has designed a thermoplastic crimp sleeve which allows this hose to be crimped with their standard 1A-Series crimp fittings. Synflex crimp sleeves allow for reduced inventory of duplicate thread configurations and also offer more readily available end configurations with their broad line of 1A series crimp fittings. Refer to the Crimp Fittings Section.



Temperature Range: -40°C (-40°F) to +100°C (212°F); water based or fire-resistant fluids not to exceed +66°C (150°F).
Construction: Tube: Seamless, oil resistant nylon. Cover: Black, oil and abrasion resistant polyurethane (pin-pricked). Reinforcement: High tensile synthetic fibre braid.
Typical Fittings: 90H Series swage/crimp fittings, 90J Series field attachables. **NEW** 1A Series Crimp with Synflex Thermoplastic Crimp Sleeve (-06 to -16 only).

Inside* Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length	
Single Line											
3/16"	3R80-03	.52"	5100 psi / 350 bar	1.5"	.08	N	\$ POR	\$ POR	\$ POR	250 ft	NEW
1/4	3R80-04	.63	5100 / 350	2.0	.12	C	POR	POR	POR	250	
3/8	3R80-06	.77	4000 / 280	2.5	.15	C	POR	POR	POR	250	
1/2	3R80-08	.89	3500 / 245	4.0	.19	C	POR	POR	POR	250	
3/4	3R80-12	1.14	2250 / 157	6.5	.26	C	POR	POR	POR	250	
1	3R80-16	1.47	2000 / 140	10.0	.39	N	POR	POR	POR	250	
Twinline											
1/4"	3R80-04-2	.63"	5100 psi / 350 bar	2.0"	.12	N	\$ POR	\$ POR	\$ POR	250	NEW
3/8	3R80-06-2	.77	4000 / 280	2.5	.15	C	POR	POR	POR	250	NEW
1/2	3R80-08-2	.89	3500 / 245	4.0	.19	C	POR	POR	POR	250	NEW
3/4	3R80-12-2	1.14	2250 / 157	6.5	.26	N	POR	POR	POR	250	NEW

3E80 is a thermoplastic hose to be used where pressure ratings exceed SAE100R7 specifications and where electrical conductivity is of concern. It is used in similar applications as our 37AL Orange SAE100R7 but it is built with heavy layers of synthetic fibre reinforcement designed for higher pressures and long life in impulse and high flexing applications. This hose can be used in non-flexing applications down to -54°C (-65°F). Bonded hoses/twinline is available on special request.

Eaton Synflex has designed a thermoplastic crimp sleeve which allows this hose to be crimped with their standard 1A-Series crimp fittings. Synflex crimp sleeves allow for reduced inventory of duplicate thread configurations and also offer more readily available end configurations with their broad line of 1A series crimp fittings. Refer to the Crimp Fittings Section.



Temperature Range: -40°C (-40°F) to +100°C (212°F); water based or fire-resistant fluids not to exceed +66°C (150°F).

Construction: Tube: Seamless, oil resistant nylon. Cover: Orange, oil and abrasion resistant polyurethane (non-perforated or non-pin pricked). Reinforcement: Multiple plies high tensile synthetic fibre braid.

Typical Fittings: 90H Series swage/crimp fittings, **NEW** 1A Series Crimp with Synflex Thermoplastic Crimp Sleeve (-06 to -16 only). **This hose must be capped and plugged to prevent moisture from entering the tube.**

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
3/16"	3E80-03	.52"	5100 psi / 350 bar	1.5"	.08	N	\$ POR	\$ POR	\$ POR	250 ft NEW
1/4"	3E80-04	.63"	5100 / 350	2.0	.12	C	POR	POR	POR	250 NEW
3/8"	3E80-06	.77"	4000 / 276	2.5	.15	C	POR	POR	POR	250
1/2"	3E80-08	.89"	3500 / 241	4.0	.19	C	POR	POR	POR	250
3/4"	3E80-12	1.13"	2250 / 155	6.5	.26	N	POR	POR	POR	250
1"	3E80-16	1.47"	2000 / 138	10.0	.39	N	POR	POR	POR	250

NL620 ~ GOODYEAR RED NON-CONDUCTIVE SAFLEX

NL620 is a very flexible, red, non-conductive "rubber" hose typically used on medium pressure hydraulic systems such as cherry pickers, tree-cutters, electric & telephone company equipment and other hydraulic systems requiring a non-conductive hose. Its rubber construction with textile reinforcement creates a flexible alternative to traditional "thermoplastic" hoses like SAE100R7/R8.



In 2015 Goodyear EP Hose is becoming **Continental**

Temperature Range: -40°C (-40°F) to +100°C (212°F)

Construction: Tube: Smooth, black nitrile, RMA Class B. Cover: Smooth Red Chemivic non-conductive rubber, RMA Class B. Reinforcement: Two plies synthetic braided yarn.

Typical Fittings: N604xx Swage/crimp permanent fittings.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
1/4"	NL620-04	.56"	2750 psi / 192 bar	-	.11	N	\$ 12.60	\$ 10.80	\$ 9.00	500 ft
3/8"	NL620-06	.75"	2250 / 157	-	.19	C	17.55	14.85	13.50	500
1/2"	NL620-08	.94"	2000 / 140	-	.27	N	19.53	16.74	13.95	500



Industry Flows Through Us

Hydraulic

17



3VE0 is a very high pressure thermoplastic hose with a high tensile aramid fibre reinforcement. It has an orange, non-conductive, non-perforated cover so it will not allow moisture/condensation through the cover of the hose - hence allowing it to remain non-conductive (without perforations it cannot be used for air or gases). It is most commonly found on rescue equipment such as the "jaws-of-life" or high pressure hydraulic systems that may come in contact with high voltage sources.



EATON | Synflex

WARNING Do not attempt to repair or assemble. Factory assembled only!

Temperature Range: -40°C (-40°F) to +66°C (150°F).

Construction: Tube: Seamless, oil resistant nylon. Cover: Orange, oil & abrasion resistant polyurethane (NON-perforated or NON-pin pricked). Reinforcement: Multiple plies of high tensile aramid fibre braid.

Typical Fittings: *WARNING: Custom Manufactured Factory Assemblies Only. All assemblies must be tested & certified and supplied with warning tag. **This hose must be capped and plugged to prevent moisture from entering the tube.**

Inside* Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
3/16"	3VE0-03	.52"	10000 psi / 700 bar	1.5"	.08	N	\$ POR	\$ POR	\$ POR	250 ft
1/4	3VE0-04	.60	10000 / 700	2.5	.11	C	POR	POR	POR	250
3/8	3VE0-06	.78	8000 / 560	3.0	.16	C	POR	POR	POR	250

3V10 ~ VERY HIGH PRESSURE BLACK SINGLE LINE

3V10 is a very high pressure thermoplastic hose with a high tensile aramid fibre reinforcement. It can be found on high pressure test equipment and hydraulic tools.



EATON | Synflex



WARNING Do not attempt to repair or assemble. Factory assembled only!

Temperature Range: -40°C (-40°F) to +66°C (150°F).

Construction: Tube: Seamless, oil resistant nylon. Cover: Black, oil & abrasion resistant perforated polyurethane. Reinforcement: Multiple plies of high tensile aramid fibre braid.

Typical Fittings: *WARNING: Custom Manufactured Factory Assemblies Only. All assemblies must be tested & certified and supplied with warning tag.

Inside* Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
Single Line										
3/16"	3V10-03	.52"	10000 psi / 700 bar	1.5"	.08	N	\$ POR	\$ POR	\$ POR	250 ft
1/4	3V10-04	.60	10000 / 700	2.5	.11	C	POR	POR	POR	250
3/8	3V10-06	.78	8000 / 560	3.0	.16	C	POR	POR	POR	250
Twinline										
1/4"	3V10-04-2	.60"	10000 psi / 700 bar	2.5"	.11	C	\$ POR	\$ POR	\$ POR	250

NL695 ~ HYDRAULIC TEST PORT MICRO HOSE

NL695 micro hose is designed specifically for high pressure hydraulic test port applications & temporary or permanent gauge installations. Various pre-made assemblies are available from stock (part # NTHFF-).



i For more information refer to the: Hydraulic Adapters Section - Pg. 524

Temperature Range: -40°C (-40°F) to +100°C (212°F)

Construction: Tube: Seamless, thermoplastic polyester. Cover: Black, abrasion resistant polyurethane. Reinforcement: High tensile aramid fibre kevlar braid.

Typical Fittings: *WARNING: Factory Certified Assemblers Only - N909 Series swage/crimp fittings.

Inside Diameter	Part #	Outside Diameter	W.Pressure @20°C (70°F)	Bend Radius	Weight lbs/ft	◆ Stock	Regular Price/ft	Std 50' Increments	Bulk Price/ft	Bulk Length
2mm	NL695-DN2	-	9135 psi / 630 bar	.75"	.04	B	\$ 3.75	\$ 3.44	\$ 3.12	650 ft
4mm*	NL695-DN4*	-	7250 / 500	1.4	.05	C	7.26	6.66	6.05	650

*Can also be used as a custom grease line.

Turnkey Complete Test Port Kit

i For more information refer to the: Adapters Section - Pg. 523



Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

