

Eaton Limited Warranty

Aeroquip®
Arrow®
Airflex®
Boston®

Char-Lynn®
Eaton®
Everflex®
Gromelle™

Hydrokraft®
Hansen™
Hydro-Line®
Integrated Hydraulics™

Synflex®
Vickers®
Weatherhead®
Walterscheid®



Powering Business Worldwide

General Information

Eaton Hydraulics LLC, Eaton Aeroquip LLC, Eaton Industries Limited Partnership and Eaton Corporation* (hereinafter referred to as "Eaton"), warrants to the original purchaser that products sold shall be free from defects in material and workmanship for the warranty period applicable to the purchased product as specified in Appendix A.

If buyer claims that a product violates such warranty, Eaton, upon notice promptly given, will either examine the product at buyer's site, or issue shipping instructions for return to Eaton at buyer's expense, transportation charges prepaid.

Eaton's sole obligation under its warranty shall be, at its option, to repair, replace or refund the price of any product thereof which is proved to violate such warranty.

In no event, whether based on contract, indemnity, warranty, tort (including negligence), strict liability or otherwise, shall Eaton be liable to the buyer for special, indirect, incidental or consequential damages whatsoever including, without limita-

tion, loss of profit or revenue. The above warranty is buyer's exclusive remedy and Eaton hereby expressly disclaims all other warranties, express or implied, including the implied warranty of merchantability and the implied warranty of fitness for a particular purpose.

The foregoing shall constitute the sole remedy of the buyer and the sole liability of Eaton.

This Limited Warranty shall not apply to any product or component thereof which has been repaired or altered by anyone other than Eaton authorized personnel in any manner so as, in Eaton's sole judgment, to affect its serviceability, or to any product that has been subject to alteration, accident, misuse, abuse, neglect or normal wear.

This Limited Warranty shall not apply to products which have been assembled or installed or used in a manner contrary to Eaton's printed instructions, or due to failure to follow Eaton printed instructions for operation and maintenance.

Any technical assistance provided by Eaton's personnel or representatives in system design is construed to be a proposal and not a recommendation. The responsibility for determining feasibility rests with the user and should be subject to test.

Only the terms expressed in this Limited Warranty shall apply and no distributor, corporation or individual is authorized to amend, modify or extend this Limited Warranty in any way on resale.

For product return authorization:

Eaton Aeroquip LLC
Eaton Hydraulics LLC
Eaton Corporation*
1-888-258-0222

(In Europe)
Eaton Industries Limited
Partnership – EILP
++ 49 (0) 7221 682-0

For additional information contact:

Eaton Aeroquip LLC
Eaton Hydraulics LLC
Eaton Corporation*
1-888-258-0222

Warranty Department
14615 Lone Oak Rd
Eden Prairie, MN 55344
Web site: www.eaton.com/hydraulics/warranty

* Eaton Corporation refers to Eaton's Aurora, OH location which provides Synflex branded products.

Appendix A - Level 5

The following products carry a five year limited warranty from the warranty start date, which is the date of manufacture.

Brand	Product	Series	Description
Eaton	Hose	EH049, EH089 EH857† SC-GTW	ESP® Fuel Hose and Tubing API 1529 Fuel Hose† LPG Hose
Aeroquip*	Hose	2661 2807, 2808 FC234 FC300 FC325 FC332 FC350, FC355 FC363, FC364 FC465, FC469, FC493 FC498 FC510 FC563 FC606 FC650 FC699 FC735 FC736 FC273B GH120 GH194 GH195 GH466	AQP – SAE100R4 Hose with Teflon® Smooth Bore AQP – SAE100R5 - USCG/MMT, NMMA/BIA AQP – SAE100R5 Truck AQP – Multi Spiral AQP – Socketless - General Purpose AQP – Truck - FMVSS 106 Convoluted Hose with Teflon® Conductive Hose with Teflon® Smooth Bore AQP – SAE100R6 AQP – Hi-Pac - SAE100R16 Non-Conductive Convoluted Hose with Teflon® Multi Spiral – SAE100R15 AQP – Truck - Hi-Temperature Fuel & Oil AQP – Truck - Hi-Temperature Fuel Bruiser® – SAE100R16 Type S - EN857 Type 2SC Bruiser® – SAE100R12 - EN856 Type R12 Bruiser® – SAE100R13 - EN856 Type R13 MatchMate® ICE – Low Temp. - SAE100R16 AQP – SAE100R1AT Type S - EN853 Type 1SN AQP – SAE100R2AT Type S - EN853 Type 2SN Multi-Spiral – SAE100R15 - 2 Million Flex Impulse Hose
Weatherhead*	Hose	H145R H190H H243 H245L H277 H290H H332 H430R H569 H485	RhinoHide® II – SAE100R17 WeatherBLAZE® – SAE100R1AT Type S - EN853 Type 1SN Non-Conductive Hose with Teflon® WeatherFROST® – Low Temperature - SAE100R16 Conductive Hose with Teflon® WeatherBLAZE® – SAE100R2AT Type S - EN853 Type 2SN CPE– General Low Purpose RhinoHide® II – SAE100R12 - EN 856 Type R12 CPE – SAE100R5 Truck Multi Spiral – SAE100R15
Everflex*	Hose with Teflon®		S, B STW, SCTW 8000, 8500, Hi-pressure
Eaton	Carbon Steel and Stainless Steel Adapters		STC® SAE Flanges Code 61 & 62 ORS SAE 45* & 37* (JIC) SAE ORB DKOL, DKOS BSPP JIS ISO 6149 NPTF/NPSM BSPT Tube-O
Eaton	Quick Disconnect Couplings	FD14 FD15 FD86 FD90	Oil Pan Drain Oil Sampling Valve Low Spill High Impulse Diagnostic
Walterscheid	All Tube Fittings		All Metric Tube Fittings

† To coincide with API (American Petroleum Institute) regulations, EH857 hose is warranted for seven years from the date of manufacture.

Teflon® is a registered trademark of Dupont used under license by Eaton.

Appendix A - Level 3

The following products carry a three year limited warranty from the warranty start date, which is the date of manufacture.

Brand	Product	Series	Description
Eaton Vickers Char-Lynn Hydro-Line Hydrokraft Eaton	Various	Various	All products except electric or electronic components, certain cylinders (See Level 1 of this document) and remanufactured pumps (2 years from date of remanufacture)
	DuraForce	HMV / HMR HMF / HMA HPV / HPR	Hydraulic Motor Hydraulic Pump
Integrated Hydraulics	Various	Various	All products except electric or electronic components. (See Level 1 of this document)
Aeroquip*	Hose	2681 2781 CR170 FC254 FC273 FC555 FC619 FC629 FC802 GH134 GH493 GH506 GH663 GH781 GH793 GH275 SH222 27J81	SAE100R1A – EN853 Type 1ST SAE100R2A – EN853 Type 2ST LPG – CGA Type III Multi Spiral – EN856 Type 4SH Multi Spiral – SAE 100R13 - EN856 Type R13 A/C & Refrigeration (Factory Crimp Only) Hi-Temp SAE100R4 – 1/2 Bend Truck Airbrake – SAEJ1402 - FMVSS 106 A/C & Refrigeration – 100R5 Fittings A/C & Refrigeration – SAEJ2064 Type Class 1 MatchMate® Global – Multi Spiral - SAE100R12 -EN856 Type R12 Multi Spiral – EN856 Type 4SH MatchMate® Global – SAE100R1AT Type S - EN853 Type 1SN MatchMate® Global – SAE100R16 Type S- EN857 Type 2SC MatchMate® Global – SAE100R2AT Type S - EN853 Type 2SN DIN 4SP hose 2 wire-braided construction DIN 2 -wire braided construction
Weatherhead*	Hose	GH134W H039 H190 H213 H239 H280 H290 H429 H430 H464 H470 H471 H487 H545	A/C & Refrigeration – SAEJ2064 Type Class 1 Hi-Temp SAE100R4 – 1/2 Bend WeatherSHIELD® – SAE100R1AT Type S - EN853 Type 1SN CPE – Truck -SAEJ1402 Type AI DOT AI CPE – Truck -SAEJ1402 Type AII DOT AII WeatherSHIELD® – SAE100R16 Type S - EN857 Type 2SC WeatherSHIELD® – SAE100R2AT Type S - EN 853 Type 2SN CPE – Truck - SAEJ1019 WeatherSHIELD® – SAE100R12 - EN856 Type R12 Multi Spiral – EN856 Type 4SH Multi Spiral – SAE100R13 - EN856 Type R13 Multi Spiral – SAE100R13 Performance – EN856 Type 13 Performance Multi Spiral – WeatherFROST - Low Temp RhinoHide® – 3,000 psi Constant Pressure
Eaton*	Hose	All GH100	All Silicone Hose* Biofuels – Truck
Eaton* Synflex* Polyon* Arrow Beverage*	Thermoplastic Hose* and Thermoplastic Tubing*	Various	All thermoplastic hose and thermoplastic tubing products except Subsea hoses (2 years)
Eaton Gromelle Hansen	Quick Disconnect Couplings	Various	All Quick Disconnect Couplings (except the items listed in Level 5 of this document)
Airflex	Various	Various	All products carry a 2 year warranty period
Eaton Quick Seal®	Various	Various	All Quick Seal® products

Appendix A - Level 1

The following products carry a one year limited warranty from the warranty start date, which is the date of manufacture.

Brand	Product	Series	Description
Eaton Vickers Char-Lynn Hydro-Line Integrated Hydraulics	Various	Various	Electric or Electronic Components
Hydrowa	Cylinders & Remanufactured Cylinders	XL	All Products
Eaton	Cylinders & Remanufactured Cylinders	XL	All Products
Airflex	Various	Various	All products
Aeroquip	High Performance Hose & Fittings	Various	FBA and StartLite® hose, and all aluminum crimp and reusable fittings
Aeroquip* Eaton Industrial Eaton Weatherhead*	Hose, Accessories & Connectors	Various	All other products not listed as Level 5 or Level 3 of this document

* The Limited Warranty shall not apply to any hose product offered for sale by Eaton which are used in conjunction with products not sold by Eaton. Additionally, the Limited Warranty shall not apply to any hose product or hose fitting offered for sale by Eaton that is assembled, crimped, mended or swaged using non-Eaton assembly machines, crimp dies or swage tooling.

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