Eaton Brand GH100 ESP™ Hose For Biodiesel And High Temperature Synthetic Oils

Simply put, Eaton does it better...with innovation for biodiesel use in heavy duty engines and high temperature resistance for tough synthetic oil use in oil cooler applications.

GH100 ESP™ Hose - Launched November 2008

Eaton is launching GH100 ESP™, a new hose designed to work with B100 (100% biodiesel) and the various blends of biodiesel fuel commercially available today! GH100 ESP will go the distance with soy (SME) and rapeseed (RME) blends of B5, B20 and B100 fuels in under the hood fuel hose applications. This development is yet another example of Eaton's quest to deliver solutions that support and protect our environment, and provide technically superior products for our customers and partners, while doing our part to conserve the world's resources. Whether transferring biofuel tank to tank or used in a mobile on or off-highway vehicle, Eaton has product solutions such as GH100 ESP that deliver performance and value to the market.

In addition, Eaton GH100 has proven to significantly extend hose life in (transmission oil cooler) TOC and engine oil applications where new synthetic oils provide extended time between oil changes and are designed to operate at intermittent temperatures well above 150°C.

Features

- Qualified with B5, B20, B100, ULSD and ethanol
- Hot Fuel Circulation tested with B20 and B100
- Lightweight, extremely flexible
- Polyester braided cover
- Excellent oil compatibility including Synthetic oil rating of -40°C to +150°C (175°C intermittent)
- Hot air rating of -40°C to +125°C

Benefits

- One hose for many fuel choices
- Proven durability when subjected to the largest truck engines and heat, including EPA 07 and 2010
- Easy to install, but with Aramid reinforcement for strength
- Extremely abrasion resistant
- Exceptional hose life in tough TOC and turbo oil applications

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Specifications and Performance

Part Number	Hose I.D. mm	Hose I.D. inch	Hose O.D. mm	Hose O.D. inch	Max. Oper. Pressure bar	Max. Oper. Pressure psi	Min. Burst Pressure bar	Min. Burst Pressure psi	Min. Bend Radius mm	Min. Bend Radius inch	Weight PER/FT pounds
GH100-4	6.4	0.25	13.3	.53	28	400	112	1,600	31.8	1.25	.08
GH100-6	9.5	0.38	15.9	0.62	28	400	112	1,600	38.1	1.50	.10
GH100-8	12.7	0.50	19.1	0.75	28	400	112	1,600	50.8	2.00	.13
GH100-10	15.9	0.63	23.1	0.91	24	350	96	1,400	63.5	2.50	.18
GH100-12	19.2	0.75	27.9	1.10	24	350	96	1,400	76.2	3.00	.20

Fitting Design

- Standard SAE hose ends and STC
- Formed hose nipple design for custom tube applications
- Brass low pressure, quick connects

Advantages

- Longer hose life when used with varying blends of biodiesel, along with increased heat from EPA 07 and 2010 engine platforms
- Avoid pressure loss due to hose tube I.D. swell associated with use of varying formulations and blends of biodiesel
- Longer hose life when used with high temperature synthetic oils designed for demanding TOC applications

Temperature Range

- -40°C to +150°C with biodiesel, B2, B5 and B20
- -40°C to +125°C with B100 biodiesel
- -40°C to +150°C with synthetic oils (175°C intermittent)

Fitting Material Recommendations

- B2 to B20, brass, steel or stainless
- Above B50, brass is not recommended. Stainless steel may be the best fitting material for use

Testing and Qualifications

- Tested with ASTM D6751 Temperature Range -40°C to +150°C
- Hot Fuel Circulation, B20 at 100°C and 150°C
- Hot Fuel Circulation, B100 at 125°C

Test summaries available for customer review include:

- Material properties
- Elongation
- Hardness
- Tensile
- Volume change
- Hot fuel circulation
- Permeation

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