

EPDM Hose

Hydraulic Hose Designed for Use on Aviation
Ground Support Equipment

Innovation Sheet

Aeroquip engineers have developed a new EPDM hose compound intended for use on aviation Ground Support Equipment (GSE) with phosphate ester hydraulic fluids.

GSE allows aircraft hydraulic systems to be tested on the ground without starting the engines. Because straight phosphate ester hydraulic fluids are used in some GSE systems, Aeroquip EPDM hose compound has been specially formulated and tested to provide maximum resistance to their chemically degrading effects.

Please note that these hose styles are for use on support equipment and not on the aircraft itself.

EPDM hose can be selected from three construction choices:

- FC611 one wire braid and FC693 two wire braid constructions for use with TTC (Through-The-Cover) Fittings
- FC636 four spiral wire construction for use with TTC12 (Through-The-Cover) Fittings

**Features**

- Requires no skiving of hose
- High pressure performance up to 5,000 psi operating pressure
- Extensive temperature range from -40° F. to +175° F.
- Specifically developed for use with the following phosphate ester fluids:
 - Skydrol LD4
 - Skydrol 500B
 - Hyjet IVA Plus

Benefits

- Meets most operating pressure requirements of GSE systems
- Helps provide longer service life in the typical GSE operating temperature ranges



FC611
Single Wire Braid
Medium Pressure
EPDM Hose



PART NUMBER	HOSE I.D.	HOSE O.D.	MAXIMUM OPERATING PRESSURE	MINIMUM BURST PRESSURE	MINIMUM BEND RADIUS	VACUUM SERVICE	WEIGHT PER FOOT
#							
FC611-04	.25	.53	3000	12000	4.00		.16
FC611-06	.38	.68	2250	9000	5.00		.22
FC611-08	.50	.80	2000	8000	7.00		.28
FC611-12	.75	1.10	1250	5000	9.50		.43
FC611-16	1.00	1.41	100	4000	12.00		.60
FC611-20	1.25	1.71	625	2500	16.50		.80
FC611-24	1.50	1.99	500	2000	20.00		1.02
FC611-32	2.00	2.52	375	1500	25.00		1.28

FC693
Double Wire Braid
High Pressure
EPDM Hose



PART NUMBER	HOSE I.D.	HOSE O.D.	MAXIMUM OPERATING PRESSURE	MINIMUM BURST PRESSURE	MINIMUM BEND RADIUS	VACUUM SERVICE	WEIGHT PER FOOT
#							
FC693-04	.25	.60	5000	20000	4.00		.25
FC693-06	.38	.75	4000	16000	5.00		.36
FC693-08	.50	.87	3500	14000	7.00		.40

FC636
Four Spiral Wire
High Pressure
EPDM Hose



PART NUMBER	HOSE I.D.	HOSE O.D.	MAXIMUM OPERATING PRESSURE	MINIMUM BURST PRESSURE	MINIMUM BEND RADIUS	VACUUM SERVICE	WEIGHT PER FOOT
#							
FC636-12	.75	1.20	4000	16000	9.50		.88
FC636-16	1.00	1.48	4000	16000	12.00		1.17
FC636-20	1.25	1.83	3000	12000	16.50		1.55
FC636-24	1.50	2.12	2500	10000	20.00		1.96



WARNING: It is important to use the correct fitting with any hose product to ensure a proper connection.

Only use the fittings suggested by Eaton for this hose product. The mixing of fittings and hoses by different manufacturers can lead to an unstable connection due to the difference in manufacturing techniques and tolerances. Such connections can fail with the potential for spraying and causing personal injury or property damage. EPDM Hose is not designed for use with petroleum based fluids.

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