

**EAT•N**

**Aeroquip**

**AQP Hose**  
Technical Manual



# FC300 AQP Hose

## FC300 AQP Hose

Exceeds SAE100R5 requirements.



Meets AAMVA requirements.

Meets The Maintenance Council (TMC), American Trucking Association (ATA), Recommended Practice RP305b.

Meets DOT FMVSS 106 Type All requirements.

Polyester and Wire Braided Reinforcement and Polyester Braided Cover – SAE100R5 with Standard Reusable Fittings.

FC300 AQP hose, with its exclusive high temperature tube material, provides resistance to high ambient and fluid temperatures plus superior abrasion and chemical resistance.

Having withstood over 1,000,000 impulse cycles at a continuous +302° F. fluid temperature, it outlasted standard SAE100R5 hose under the same impulse test conditions by factors up to 40 to 1. (The SAE100R5 specification only requires 150,000 cycles at +200° F.).

FC300 AQP hose is compatible with standard reusable fittings used with other Aeroquip SAE100R5 dimensioned hose.

Under long-term test conditions of +302° F., circulating engine oil, combined with flexing and high ambient temperatures FC300 AQP hose outlasted competitive SAE100R5 and SAEJ1402 constructions by a minimum of 2 to 1, and in some cases as high as 5 to 1.

After 1,000 hours exposure to +302° F. ambient air, the polyester cover was virtually unaffected, providing superior resistance to high ambient temperature conditions.

# Part Number	Hose I.D.		Hose O.D.		Maximum Operating Pressure		Minimum Burst Pressure		Minimum Bend Radius		Vacuum Service		Weight of Hose	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kPa	in/Hg	Kg/m	lbs/ft
FC300-04	4,8	0.19	13,2	0.52	210,0	3,000	840,0	12,000	76,2	3.00	94,8	28	0,19	0.13
FC300-05	6,4	0.25	14,7	0.58	210,0	3,000	840,0	12,000	85,9	3.38	94,8	28	0,24	0.16
FC300-06	7,9	0.31	17,3	0.67	157,0	2,250	630,0	9,000	101,6	4.00	94,8	28	0,27	0.23
FC300-08	10,4	0.41	19,6	0.76	140,0	2,000	560,0	8,000	117,3	4.62	94,8	28	0,32	0.26
FC300-10	12,7	0.50	23,4	0.93	122,0	1,750	490,0	7,000	139,7	5.50	94,8	28	0,49	0.37
FC300-12	16,0	0.63	27,4	1.08	105,0	1,500	420,0	6,000	165,1	6.50	94,8	28	0,58	0.46
FC300-16	22,4	0.88	31,2	1.27	56,0	800	224,0	3,200	187,5	7.38	67,7	20†	0,55	0.44
FC300-20	28,4	1.12	38,1	1.50	43,0	625	175,0	2,500	228,6	9.00	67,7	20†	0,68	0.52
FC300-24	35,1	1.38	44,5	1.75	35,0	500	140,0	2,000	266,7	10.50	50,8	15†	0,92	0.67
FC300-32‡	46,0	1.81	56,4	2.22	21,0	300	84,0	1,200	336,6	13.25	37,3	11†	1,28	0.94
FC300-40‡	60,1	2.38	73,2	2.88	21,0	300	84,0	1,200	609,6	24.00	27,1	8†	2,11	1.50

### Construction

AQP elastomer tube, polyester inner braid, single wire braid reinforcement and blue polyester braid cover.

### Operating Temperature Range

-49°C to +150°C [-55°F to +302°F]

Air not to exceed +121°C [+250°F].

\*See Temperature range notes on page 3.

### Application

Hydraulics handling petroleum base fluids and air, gasoline, fuel and lubricating oils, fire resistant hydraulic fluids and other industrial fluids.

†Maximum negative pressure shown for -16 and larger are suitable for those which has suffered no external damage or kinking. If greater negative pressures are required for -16 and larger hose, the use of an internal support coil is recommended.

‡ Does not comply with SAE 100R5 operating pressure of 350 psi or minimum burst of 1400 psi.

### Fittings

Aeroquip crimp and Reusable SAE100R5 type fittings.