



# Aviation Aquacon® Spin-On Filters

## ACO-40501SPL ACO-40901SPL

### Remove Dirt and Water from Jet Fuel and Avgas

#### FEATURES

- Convenient Spin-On Design
- Removes free and emulsified water to less than 5 ppm, typical
- Filters out dirt and other particulates to a ½ micron nominal rating
- Choice of four mounting head styles

#### \*\*\*\*\*CAUTION\*\*\*\*\*

In fuels containing anti-icing additive (Di-EGME, FSII, Prist®), stagnant water bottoms can absorb large amounts of the anti-icing additive. This water/FSII solution can disarm water-absorbing elements allowing water to pass downstream. Daily draining of the monitor vessel and of water bottoms upstream of the elements is **IMPERATIVE**. Also, changeout @ 15 psid.



ACO-40501SPL  
mounted to  
SPH-2 Head



ACO-40901SPL  
mounted to  
SPH-4 Head



ACO-40901SPL  
mounted to  
SPH-5 Parallel Flow Head

#### DESCRIPTION

ACO-40501SPL is the popular 3¾" diameter x 5½" long size. The ACO-40901SPL is 3¾" diameter x 8½" long. Four mounting head styles are offered for use with these two cartridges. Refer to the back side of this sheet for details.

**Aquacon** cartridges filter out water by chemically locking it into layers of super-absorbent media. Water removal efficiency is not affected by surfactants or additives,

and once captured, the water cannot be squeezed out. These cartridges also effectively filter out dirt, rust, and other particulates. (See caution above.)

As a cartridge reaches its water-holding limit, the media expands very rapidly and restricts the flow. The flow will completely stop, giving positive shut-off and guaranteeing that water will not get downstream.

# Aviation *Aquacon*® ACO-40501SPL and ACO-40901SPL Spin-On Filters

## CARTRIDGE TECHNICAL INFORMATION

Maximum Operating Pressure: 50 psi  
 Maximum Operating Temperature: 200°F  
 ½ micron nominal filtration rating at 98+% efficiency.  
 Cartridges do not remove soluble (dissolved) water.  
 Gaskets are Buna-N.

	<u>ACO-40501SPL</u>	<u>ACO-40901SPL</u>
Diameter:	3¾"	3¾"
Length:	5½"	8½"
Weight:	1¼ lbs.	1½ lbs.
Thread:	1"-12 NF	1¾"-12 NF



ACO-40501SPL and  
ACO-40901SPL

## HEAD STYLES AND FLOW RATES



SPH-2

SPH-3


SPH-4

SPH-5

Head Part Number	Use with Aquacon Cartridge(s)	Inlet/Outlet Size	Inlet/Outlet Face-to-Face	Head Weight, Lbs	Jet Fuel or Avgas Max Flow GPM
SPH-2	1 ea. ACO-40501SPL	¾" NPT	3¾"	1	10
SPH-3	1 ea. ACO-40901SPL	¾" NPT	3¾"	1	15
SPH-4	1 ea. ACO-40901SPL	½" NPT	2¾"	1	7
SPH-5	2 ea. ACO-40901SPL	½" NPT	7"	1¾	15

## NOTES

- Differential pressure across head and cartridge at recommended maximum flow is 5 psi or less.
- SPH-2, -3, -4, and -5 are die cast aluminum 380 alloy.
- SPH-4 and -5 have dual inlets/outlets for plumbing flexibility.
- SPH-5 allows parallel flow through two cartridges.
- Heads have no internal bypass. Flow will stop if cartridges plug-up.
- Mounting holes on SPH-4 and -5 are ⅝".
- SPH-3, -4, and -5 have steel bushings or nipples for adapting to ACO-40901SPL. They are permanently fastened with Loctite® 271.



Velcon products are sold and serviced by a world-wide representative network. To order, contact Headquarters or your **LOCAL REPRESENTATIVE**:

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