



# Aquacon® Spin-On Filters

**AC-405SP**  
**AC-409SP**

## Remove Dirt and Water from Fuels and Oils

### FEATURES

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



**AC-405SP**  
mounted to  
SPH-2 Head



**AC-409SP**  
mounted to  
SPH-4 Head



**Two AC-409SP Cartridges**  
mounted to SPH-5  
Parallel Flow Head

### DESCRIPTION

AC-405SP is the popular 3<sup>3</sup>/<sub>4</sub>" diameter x 5<sup>1</sup>/<sub>2</sub>" long size. The AC-409SP is 3<sup>3</sup>/<sub>4</sub>" diameter x 8<sup>1</sup>/<sub>2</sub>" long. Five 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.

As a cartridge reaches its water-holding limit, the media expands very rapidly and restricts the flow. For fuels, the flow may completely stop. For oils and other high viscosity liquids, the pressure drop will rapidly increase, signaling the need to change cartridges.

**WARNING:** Absorbent-type monitor cartridges will not remove water from fuel containing alcohol-blending agents (commonly called gasohol). For removal of solids, please use Velcon particle removal filters specifically made for gasohol. Consult your Velcon representative.

# Aquacon® AC-405SP and AC-409SP Spin-On Filters

## CARTRIDGE TECHNICAL INFORMATION

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

	AC-405SP	AC-409SP
<b>Diameter:</b>	3 <sup>3</sup> / <sub>4</sub> "	3 <sup>3</sup> / <sub>4</sub> "
<b>Length:</b>	5 <sup>1</sup> / <sub>2</sub> "	8 <sup>1</sup> / <sub>2</sub> "
<b>Weight:</b>	1 <sup>1</sup> / <sub>4</sub> lbs.	1 <sup>1</sup> / <sub>2</sub> lbs.
<b>Thread:</b>	1" - 12 NF	1 <sup>3</sup> / <sub>8</sub> " - 12 NF

## HEAD STYLES AND FLOW RATES



SPH-1

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)	Fuel Max Flow (gpm)	150 SUS Oil Max Flow (gpm)
SPH-1	1 ea. AC-409SP	1" NPT	4"	2 <sup>1</sup> / <sub>4</sub>	20	5
SPH-2	1 ea. AC-405SP	3 <sup>3</sup> / <sub>4</sub> " NPT	3 <sup>3</sup> / <sub>4</sub> "	1	13	2.5
SPH-3	1 ea. AC-409SP	3 <sup>3</sup> / <sub>4</sub> " NPT	3 <sup>3</sup> / <sub>4</sub> "	1	15	5
SPH-4	1 ea. AC-409SP	1 <sup>1</sup> / <sub>2</sub> " NPT	2 <sup>3</sup> / <sub>4</sub> "	1	7	4
SPH-5	2 ea. AC-409SP	1 <sup>1</sup> / <sub>2</sub> " NPT	7"	1 <sup>3</sup> / <sub>4</sub>	15	10

## NOTES

1. Differential pressure across head and cartridge at recommended maximum flow is 5 psi or less.
2. SPH-1 is cast iron. SPH-2, -3, -4, and -5 are die cast aluminum 380 alloy.
3. SPH-4 and -5 have dual inlets/outlets for plumbing flexibility.
4. SPH-5 allows parallel flow through two cartridges.
5. Heads have no internal bypass. Flow will stop if cartridges plug-up.
6. Mounting holes on SPH-4 and -5 are 5/16".
7. SPH-3, -4, and -5 have steel bushings or nipples for adapting to AC-409SP. 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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