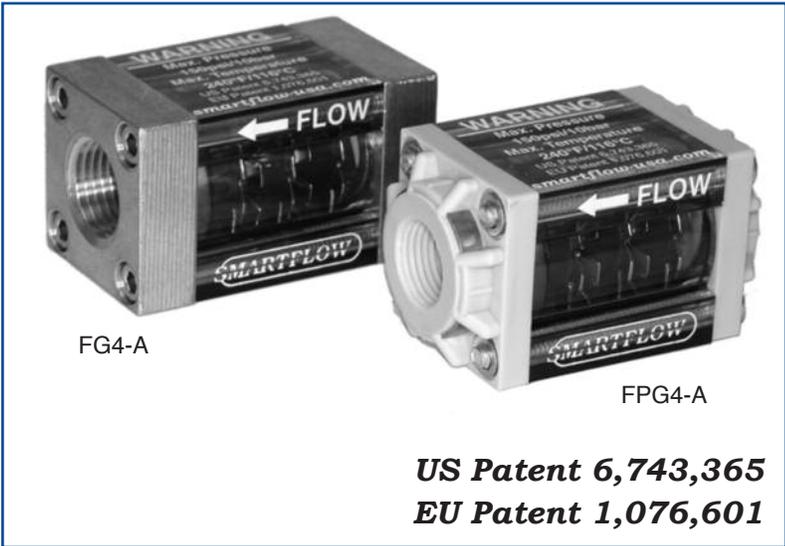


SMARTFLOW® Ferrogard™ Magnetic Particle Filters



US Patent 6,743,365
EU Patent 1,076,601

General Description

Smartflow Ferrogard Filter removes contaminant particles smaller than one micron from process cooling fluids and hydraulic systems. This includes the smallest and most abrasive particles that are responsible for the destructive chain reaction of wear.

Injection molds often have small cooling water paths that are easily blocked by rust and machining debris. Cooling lines incorporating bubblers and baffles are particularly susceptible to blockage from rust and corrosion traveling through water lines. A Ferrogard installed in the incoming water path will trap these metallic contaminants before they enter a mold, keeping your internal cooling passages clear during processing.

Used in injection molding cooling water and hydraulic systems, the Ferrogard extends the life of injection molds, manifolds, hoses, pumps, heaters, and chillers that are vulnerable to wear caused by fine ferrous debris.

Benefits

- ◆ Reduced hot spots in tooling resulting in more consistent molded part quality
- ◆ Reduced tool and hydraulic system maintenance
- ◆ Less fluid/additive consumption
- ◆ Negligible pressure drop
- ◆ Decreased wear in pumps, heaters and chillers
- ◆ Helps keep bubblers and baffles clear

The Process

The Ferrogard allows process fluid to pass through wide flow channels with negligible pressure drop. As the fluid flows through the field effect areas, ferrous particles are drawn into the collection zones. These zones hold significantly more contaminant than a conventional filter without obstructing fluid flow or risking “wash-off”. Ferrogard is effective for extended periods without service. Cores are easily replaced as needed.

Wetted Parts and Materials

Connection Sizes	(NPT or BSPP)1/4", 3/8", 1/2"
End CapsBrass or Nylon
PlatesNickel Plated Steel
BodyPolysulfone
O-RingEPDM
MagnetsC5/C8 Ferrite

Specifications

Max Working Pressure100psi (7 bar)
Max Temperature210°F (99°C)
Dimensions1.5 x 1.5 x 2.625" (38 x 38 x 67mm)

Model Numbers

Brass End Caps	Nylon End Caps	Size
FG2 -A	FPG2 -A	1/4"NPT
FG2B-A	FPG2B-A	1/4"BSPP
FG3 -A	FPG3 -A	3/8"NPT
FG3B-A	FPG3B-A	3/8"BSPP
FG4 -A	FPG4 -A	1/2"NPT
FG4B-A	FPG4B-A	1/2"BSPP
FG-CORE	Replacement Core	

Design and specifications are subject to change without notice.